

June 10, 2013

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

RE: Project: BRIDGETON LF 180-MSD
Pace Project No.: 60146017

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 03, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146017

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA 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 180-MSD

Pace Project No.: 60146017

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60146017001	180-MSD	Water	06/03/13 08:14	06/03/13 14:11

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146017

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60146017001	180-MSD	SM 5210B	NDL	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146017

Sample: 180-MSD	Lab ID: 60146017001	Collected: 06/03/13 08:14	Received: 06/03/13 14:11	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day								
Analytical Method: SM 5210B Preparation Method: SM 5210B								
BOD, 5 day	30200	mg/L	2.0	1	06/03/13 16:42	06/08/13 06:54		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146017

QC Batch: WET/41633

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60146017001

METHOD BLANK: 1198328

Matrix: Water

Associated Lab Samples: 60146017001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/08/13 06:52	

LABORATORY CONTROL SAMPLE: 1198329

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

SAMPLE DUPLICATE: 1198330

Parameter	Units	60146017001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	30200	30000	1	17	

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QUALIFIERS

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146017

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146017

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60146017001	180-MSD	SM 5210B	WET/41633	SM 5210B	WET/41739

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Sample Condition Upon Receipt

WO#: 60146017
60146017

Client Name: Burr

Courier: Fed Ex UPS USPS Client Commercial Pace Other Express

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-112 / T-194 Type of Ice: Yes Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 14.6

Date and initials of person examining contents: Burr 6/2/12

Temperature should be above freezing to 6°C

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

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: 6/2/12

June 10, 2013

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

RE: Project: BRIDGETON LF 180-MSD
Pace Project No.: 60146018

Dear Ed Galbraith:

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SAMPLE SUMMARY

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60146018001	180-MSD	Water	06/03/13 08:14	06/03/13 14:11
60146018002	TRIP BLANKS	Water	06/03/13 08:14	06/03/13 14:11

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60146018001	180-MSD	EPA 200.7	SMW, TJT	15
		EPA 200.7	SMW	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	59
		EPA 624 Low	JKL	38
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	JML	1
		SM 4500-H+B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
		60146018002	TRIP BLANKS	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

Sample: 180-MSD		Lab ID: 60146018001	Collected: 06/03/13 08:14	Received: 06/03/13 14:11	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	10000 ug/L		150	2	06/05/13 13:45	06/06/13 18:41	7429-90-5	
Antimony	57.2 ug/L		20.0	2	06/05/13 13:45	06/06/13 18:41	7440-36-0	
Arsenic	773 ug/L		20.0	2	06/05/13 13:45	06/06/13 18:41	7440-38-2	
Beryllium	ND ug/L		2.0	2	06/05/13 13:45	06/06/13 18:41	7440-41-7	
Cadmium	17.9 ug/L		10.0	2	06/05/13 13:45	06/06/13 18:41	7440-43-9	
Chromium	281 ug/L		25.0	5	06/05/13 13:45	06/06/13 18:44	7440-47-3	
Cobalt	42.4 ug/L		10.0	2	06/05/13 13:45	06/06/13 18:41	7440-48-4	
Copper	ND ug/L		20.0	2	06/05/13 13:45	06/06/13 18:41	7440-50-8	
Iron	915000 ug/L		100	2	06/05/13 13:45	06/06/13 18:41	7439-89-6	
Lead	195 ug/L		10.0	2	06/05/13 13:45	06/06/13 18:41	7439-92-1	
Nickel	110 ug/L		10.0	2	06/05/13 13:45	06/06/13 18:41	7440-02-0	
Selenium	ND ug/L		30.0	2	06/05/13 13:45	06/06/13 18:41	7782-49-2	
Silver	22.1 ug/L		14.0	2	06/05/13 13:45	06/06/13 18:41	7440-22-4	
Thallium	ND ug/L		100	5	06/05/13 13:45	06/06/13 18:44	7440-28-0	
Zinc	18600 ug/L		1000	20	06/05/13 13:45	06/07/13 15:07	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	5020 ug/L		150	2	06/04/13 13:00	06/05/13 15:10	7429-90-5	
Antimony, Dissolved	ND ug/L		50.0	5	06/04/13 13:00	06/05/13 15:23	7440-36-0	D3
Arsenic, Dissolved	656 ug/L		50.0	5	06/04/13 13:00	06/05/13 15:23	7440-38-2	
Beryllium, Dissolved	ND ug/L		2.0	2	06/04/13 13:00	06/05/13 15:10	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		25.0	5	06/04/13 13:00	06/05/13 15:23	7440-43-9	
Chromium, Dissolved	240 ug/L		25.0	5	06/04/13 13:00	06/05/13 15:23	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	5	06/04/13 13:00	06/05/13 15:23	7440-48-4	
Copper, Dissolved	ND ug/L		20.0	2	06/04/13 13:00	06/05/13 15:10	7440-50-8	
Iron, Dissolved	734000 ug/L		100	2	06/04/13 13:00	06/05/13 15:10	7439-89-6	
Lead, Dissolved	104 ug/L		25.0	5	06/04/13 13:00	06/05/13 15:23	7439-92-1	
Nickel, Dissolved	100 ug/L		25.0	5	06/04/13 13:00	06/05/13 15:23	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	5	06/04/13 13:00	06/05/13 15:23	7782-49-2	
Silver, Dissolved	ND ug/L		14.0	2	06/04/13 13:00	06/05/13 15:10	7440-22-4	
Thallium, Dissolved	ND ug/L		100	5	06/04/13 13:00	06/05/13 15:23	7440-28-0	
Zinc, Dissolved	16400 ug/L		250	5	06/04/13 13:00	06/05/13 15:23	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	ND ug/L		0.20	1	06/07/13 12:00	06/10/13 11:55	7439-97-6	M1
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		0.20	1	06/05/13 11:50	06/06/13 09:48	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	83-32-9	
Acenaphthylene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	208-96-8	
Anthracene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	120-12-7	
Benzidine	ND ug/L		10000	20	06/04/13 00:00	06/05/13 13:53	92-87-5	
Benzo(a)anthracene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	56-55-3	
Benzo(a)pyrene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

Sample: 180-MSD	Lab ID: 60146018001	Collected: 06/03/13 08:14	Received: 06/03/13 14:11	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Benzo(b)fluoranthene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	191-24-2	
Benzo(k)fluoranthene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	207-08-9	
4-Bromophenylphenyl ether	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	101-55-3	
Butylbenzylphthalate	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	85-68-7	
4-Chloro-3-methylphenol	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	59-50-7	
bis(2-Chloroethoxy)methane	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		1200	20	06/04/13 00:00	06/05/13 13:53	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		1200	20	06/04/13 00:00	06/05/13 13:53	39638-32-9	
2-Chloronaphthalene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	91-58-7	
2-Chlorophenol	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	7005-72-3	
Chrysene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	53-70-3	
3,3'-Dichlorobenzidine	ND ug/L		4000	20	06/04/13 00:00	06/05/13 13:53	91-94-1	
2,4-Dichlorophenol	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	120-83-2	
Diethylphthalate	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	84-66-2	
2,4-Dimethylphenol	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	105-67-9	
Dimethylphthalate	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	131-11-3	
Di-n-butylphthalate	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		5000	20	06/04/13 00:00	06/05/13 13:53	534-52-1	
2,4-Dinitrophenol	ND ug/L		10000	20	06/04/13 00:00	06/05/13 13:53	51-28-5	
2,4-Dinitrotoluene	ND ug/L		1200	20	06/04/13 00:00	06/05/13 13:53	121-14-2	
2,6-Dinitrotoluene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	606-20-2	
Di-n-octylphthalate	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	117-81-7	L3
Fluoranthene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	206-44-0	
Fluorene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	87-68-3	
Hexachlorobenzene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	77-47-4	
Hexachloroethane	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	193-39-5	
Isophorone	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	78-59-1	
Naphthalene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	91-20-3	
Nitrobenzene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	98-95-3	
2-Nitrophenol	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	88-75-5	
4-Nitrophenol	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	100-02-7	
N-Nitrosodimethylamine	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	86-30-6	
Pentachlorophenol	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	87-86-5	
Phenanthrene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	85-01-8	
Phenol	8430 ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	108-95-2	
Pyrene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	20	06/04/13 00:00	06/05/13 13:53	88-06-2	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

Sample: 180-MSD		Lab ID: 60146018001	Collected: 06/03/13 08:14	Received: 06/03/13 14:11	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Surrogates								
Nitrobenzene-d5 (S)	0 %		32-120	20	06/04/13 00:00	06/05/13 13:53	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	20	06/04/13 00:00	06/05/13 13:53	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	20	06/04/13 00:00	06/05/13 13:53	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	20	06/04/13 00:00	06/05/13 13:53	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	20	06/04/13 00:00	06/05/13 13:53	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	20	06/04/13 00:00	06/05/13 13:53	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		06/06/13 20:44	71-43-2	
Bromodichloromethane	ND ug/L		200	200		06/06/13 20:44	75-27-4	
Bromoform	ND ug/L		200	200		06/06/13 20:44	75-25-2	
Bromomethane	ND ug/L		1000	200		06/06/13 20:44	74-83-9	
Carbon tetrachloride	ND ug/L		200	200		06/06/13 20:44	56-23-5	
Chlorobenzene	ND ug/L		200	200		06/06/13 20:44	108-90-7	
Chloroethane	ND ug/L		200	200		06/06/13 20:44	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		06/06/13 20:44	110-75-8	
Chloroform	ND ug/L		200	200		06/06/13 20:44	67-66-3	
Chloromethane	ND ug/L		200	200		06/06/13 20:44	74-87-3	
Dibromochloromethane	ND ug/L		200	200		06/06/13 20:44	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		06/06/13 20:44	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		06/06/13 20:44	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		06/06/13 20:44	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		06/06/13 20:44	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		06/06/13 20:44	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		06/06/13 20:44	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		06/06/13 20:44	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		06/06/13 20:44	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		06/06/13 20:44	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		06/06/13 20:44	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		06/06/13 20:44	10061-02-6	
Ethylbenzene	ND ug/L		200	200		06/06/13 20:44	100-41-4	
Methylene chloride	ND ug/L		200	200		06/06/13 20:44	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		06/06/13 20:44	79-34-5	
Tetrachloroethene	ND ug/L		200	200		06/06/13 20:44	127-18-4	
Toluene	ND ug/L		200	200		06/06/13 20:44	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		06/06/13 20:44	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		06/06/13 20:44	79-00-5	
Trichloroethene	ND ug/L		200	200		06/06/13 20:44	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		06/06/13 20:44	75-69-4	
Vinyl chloride	ND ug/L		200	200		06/06/13 20:44	75-01-4	
Xylene (Total)	ND ug/L		600	200		06/06/13 20:44	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103 %		80-120	200		06/06/13 20:44	1868-53-7	D3
4-Bromofluorobenzene (S)	102 %		80-120	200		06/06/13 20:44	460-00-4	
Toluene-d8 (S)	99 %		80-120	200		06/06/13 20:44	2037-26-5	
1,2-Dichloroethane-d4 (S)	106 %		80-120	200		06/06/13 20:44	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

Sample: 180-MSD		Lab ID: 60146018001	Collected: 06/03/13 08:14	Received: 06/03/13 14:11	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Preservation pH	7.0		1.0	200		06/06/13 20:44		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	328	mg/L	5.0	1		06/06/13 07:17		
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	55.1	mg/L	5.0	1		06/06/13 17:49		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	1570	mg/L	5.0	1		06/06/13 13:04		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		06/04/13 15:21		H6
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	633	mg/L	20.0	200		06/06/13 15:24	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	54400	mg/L	5000	500		06/08/13 09:55		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

Sample: TRIP BLANKS		Lab ID: 60146018002	Collected: 06/03/13 08:14	Received: 06/03/13 14:11	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		1.0	1		06/06/13 19:40	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/06/13 19:40	75-27-4	
Bromoform	ND ug/L		1.0	1		06/06/13 19:40	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/06/13 19:40	74-83-9	
Carbon tetrachloride	ND ug/L		1.0	1		06/06/13 19:40	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		06/06/13 19:40	108-90-7	
Chloroethane	ND ug/L		1.0	1		06/06/13 19:40	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		06/06/13 19:40	110-75-8	
Chloroform	ND ug/L		1.0	1		06/06/13 19:40	67-66-3	
Chloromethane	ND ug/L		1.0	1		06/06/13 19:40	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		06/06/13 19:40	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		06/06/13 19:40	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		06/06/13 19:40	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/06/13 19:40	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		06/06/13 19:40	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		06/06/13 19:40	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		06/06/13 19:40	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/06/13 19:40	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/06/13 19:40	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		06/06/13 19:40	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		06/06/13 19:40	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		06/06/13 19:40	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		06/06/13 19:40	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/06/13 19:40	75-09-2	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		06/06/13 19:40	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		06/06/13 19:40	127-18-4	
Toluene	ND ug/L		1.0	1		06/06/13 19:40	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/06/13 19:40	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/06/13 19:40	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/06/13 19:40	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		06/06/13 19:40	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		06/06/13 19:40	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/06/13 19:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98 %		80-120	1		06/06/13 19:40	1868-53-7	
4-Bromofluorobenzene (S)	100 %		80-120	1		06/06/13 19:40	460-00-4	
Toluene-d8 (S)	101 %		80-120	1		06/06/13 19:40	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	1		06/06/13 19:40	17060-07-0	
Preservation pH	7.0		1.0	1		06/06/13 19:40		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

QC Batch:	MERP/7409	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60146018001		

METHOD BLANK: 1200936 Matrix: Water

Associated Lab Samples: 60146018001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/10/13 11:51	

LABORATORY CONTROL SAMPLE: 1200937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1200938 1200939

Parameter	Units	60146018001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury	ug/L	ND	5	5	2.4	2.7	45	50	70-130	11	20	M1

MATRIX SPIKE SAMPLE: 1200940

Parameter	Units	60146110001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L		2.9	5	3.9	19	70-130 M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

QC Batch:	MERP/7399	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60146018001		

METHOD BLANK: 1198909 Matrix: Water

Associated Lab Samples: 60146018001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/06/13 09:30	

LABORATORY CONTROL SAMPLE: 1198910

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1198911 1198912

Parameter	Units	60145828001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury, Dissolved	ug/L	ND	5	5	2.3	2.4	46	49	70-130	6	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD
Pace Project No.: 60146018

QC Batch: MPRP/22931 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60146018001

METHOD BLANK: 1199281 Matrix: Water
Associated Lab Samples: 60146018001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/06/13 18:06	
Antimony	ug/L	ND	10.0	06/06/13 18:06	
Arsenic	ug/L	ND	10.0	06/06/13 18:06	
Beryllium	ug/L	ND	1.0	06/06/13 18:06	
Cadmium	ug/L	ND	5.0	06/06/13 18:06	
Chromium	ug/L	ND	5.0	06/06/13 18:06	
Cobalt	ug/L	ND	5.0	06/06/13 18:06	
Copper	ug/L	ND	10.0	06/06/13 18:06	
Iron	ug/L	ND	50.0	06/06/13 18:06	
Lead	ug/L	ND	5.0	06/06/13 18:06	
Nickel	ug/L	ND	5.0	06/06/13 18:06	
Selenium	ug/L	ND	15.0	06/06/13 18:06	
Silver	ug/L	ND	7.0	06/06/13 18:06	
Thallium	ug/L	ND	20.0	06/06/13 18:06	
Zinc	ug/L	ND	50.0	06/06/13 18:06	

LABORATORY CONTROL SAMPLE: 1199282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9760	98	85-115	
Antimony	ug/L	1000	986	99	85-115	
Arsenic	ug/L	1000	977	98	85-115	
Beryllium	ug/L	1000	984	98	85-115	
Cadmium	ug/L	1000	978	98	85-115	
Chromium	ug/L	1000	979	98	85-115	
Cobalt	ug/L	1000	1000	100	85-115	
Copper	ug/L	1000	970	97	85-115	
Iron	ug/L	10000	9810	98	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1030	103	85-115	
Selenium	ug/L	1000	996	100	85-115	
Silver	ug/L	500	489	98	85-115	
Thallium	ug/L	1000	1020	102	85-115	
Zinc	ug/L	1000	1020	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1199283 1199284

Parameter	Units	60145784002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Aluminum	ug/L	181	10000	10000	10000	10000	9910	99	97	70-130	1	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1199283												1199284	
Parameter	Units	60145784002 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD			
Antimony	ug/L	ND	1000	1000	1020	1000	102	100	70-130	1	7		
Arsenic	ug/L	ND	1000	1000	1020	1000	101	100	70-130	1	10		
Beryllium	ug/L	ND	1000	1000	985	971	98	97	70-130	1	7		
Cadmium	ug/L	ND	1000	1000	995	984	99	98	70-130	1	10		
Chromium	ug/L	ND	1000	1000	977	970	98	97	70-130	1	10		
Cobalt	ug/L	ND	1000	1000	991	980	99	98	70-130	1	6		
Copper	ug/L	ND	1000	1000	987	977	99	98	70-130	1	11		
Iron	ug/L	223	10000	10000	10000	9920	98	97	70-130	1	10		
Lead	ug/L	ND	1000	1000	998	985	100	98	70-130	1	10		
Nickel	ug/L	7.7	1000	1000	1020	1010	101	100	70-130	1	10		
Selenium	ug/L	ND	1000	1000	1030	1020	103	102	70-130	1	10		
Silver	ug/L	ND	500	500	503	497	101	99	70-130	1	10		
Thallium	ug/L	ND	1000	1000	980	975	98	98	70-130	1	6		
Zinc	ug/L	ND	1000	1000	997	989	99	99	70-130	1	11		

MATRIX SPIKE SAMPLE: 1199285									
Parameter	Units	60145789002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers		
Aluminum	ug/L		520	10000	10300	98	70-130		
Antimony	ug/L		ND	1000	967	97	70-130		
Arsenic	ug/L		ND	1000	968	97	70-130		
Beryllium	ug/L		ND	1000	968	97	70-130		
Cadmium	ug/L		ND	1000	952	95	70-130		
Chromium	ug/L		2.9J	1000	973	97	70-130		
Cobalt	ug/L		ND	1000	955	96	70-130		
Copper	ug/L		21.2	1000	994	97	70-130		
Iron	ug/L		709	10000	10200	95	70-130		
Lead	ug/L		6.7	1000	974	97	70-130		
Nickel	ug/L		3.0J	1000	982	98	70-130		
Selenium	ug/L		ND	1000	972	97	70-130		
Silver	ug/L		ND	500	494	99	70-130		
Thallium	ug/L		ND	1000	944	94	70-130		
Zinc	ug/L		52.0	1000	1020	97	70-130		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD
Pace Project No.: 60146018

QC Batch: MPRP/22909 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60146018001

METHOD BLANK: 1198782 Matrix: Water
Associated Lab Samples: 60146018001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/05/13 14:39	
Antimony, Dissolved	ug/L	ND	10.0	06/05/13 14:39	
Arsenic, Dissolved	ug/L	ND	10.0	06/05/13 14:39	
Beryllium, Dissolved	ug/L	ND	1.0	06/05/13 14:39	
Cadmium, Dissolved	ug/L	ND	5.0	06/05/13 14:39	
Chromium, Dissolved	ug/L	ND	5.0	06/05/13 14:39	
Cobalt, Dissolved	ug/L	ND	5.0	06/05/13 14:39	
Copper, Dissolved	ug/L	ND	10.0	06/05/13 14:39	
Iron, Dissolved	ug/L	ND	50.0	06/05/13 14:39	
Lead, Dissolved	ug/L	ND	5.0	06/05/13 14:39	
Nickel, Dissolved	ug/L	ND	5.0	06/05/13 14:39	
Selenium, Dissolved	ug/L	ND	15.0	06/05/13 14:39	
Silver, Dissolved	ug/L	ND	7.0	06/05/13 14:39	
Thallium, Dissolved	ug/L	ND	20.0	06/05/13 14:39	
Zinc, Dissolved	ug/L	ND	50.0	06/05/13 14:39	

LABORATORY CONTROL SAMPLE: 1198783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9690	97	85-115	
Antimony, Dissolved	ug/L	1000	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	1010	101	85-115	
Beryllium, Dissolved	ug/L	1000	988	99	85-115	
Cadmium, Dissolved	ug/L	1000	1000	100	85-115	
Chromium, Dissolved	ug/L	1000	975	98	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	972	97	85-115	
Iron, Dissolved	ug/L	10000	9700	97	85-115	
Lead, Dissolved	ug/L	1000	1050	105	85-115	
Nickel, Dissolved	ug/L	1000	1050	105	85-115	
Selenium, Dissolved	ug/L	1000	1030	103	85-115	
Silver, Dissolved	ug/L	500	500	100	85-115	
Thallium, Dissolved	ug/L	1000	1060	106	85-115	
Zinc, Dissolved	ug/L	1000	1030	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1198784 1198785

Parameter	Units	60145444001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Aluminum, Dissolved	ug/L	92.7	10000	10000	10000	10200	10200	101	101	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

Parameter	60145444001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Antimony, Dissolved	ug/L	ND	1000	1000	1080	1060	108	106	70-130	1	7			
Arsenic, Dissolved	ug/L	12.6	1000	1000	1080	1080	107	107	70-130	1	10			
Beryllium, Dissolved	ug/L	5.1	1000	1000	997	992	99	99	70-130	0	7			
Cadmium, Dissolved	ug/L	5.3	1000	1000	1040	1020	103	102	70-130	1	10			
Chromium, Dissolved	ug/L	6.0	1000	1000	993	982	99	98	70-130	1	10			
Cobalt, Dissolved	ug/L	ND	1000	1000	996	983	99	98	70-130	1	6			
Copper, Dissolved	ug/L	39.7	1000	1000	1060	1050	102	101	70-130	1	11			
Iron, Dissolved	ug/L	63.3	10000	10000	9880	9810	98	97	70-130	1	10			
Lead, Dissolved	ug/L	ND	1000	1000	1000	988	100	98	70-130	1	10			
Nickel, Dissolved	ug/L	6.8	1000	1000	1010	1000	100	99	70-130	1	10			
Selenium, Dissolved	ug/L	ND	1000	1000	1090	1080	107	106	70-130	1	10			
Silver, Dissolved	ug/L	ND	500	500	531	525	106	105	70-130	1	10			
Thallium, Dissolved	ug/L	ND	1000	1000	954	939	95	93	70-130	2	6			
Zinc, Dissolved	ug/L	89.6	1000	1000	1090	1070	100	98	70-130	2	11			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

QC Batch: MSV/54149 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60146018001, 60146018002

METHOD BLANK: 1199819 Matrix: Water

Associated Lab Samples: 60146018001, 60146018002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/06/13 16:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/06/13 16:30	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/06/13 16:30	
1,1-Dichloroethane	ug/L	ND	1.0	06/06/13 16:30	
1,1-Dichloroethene	ug/L	ND	1.0	06/06/13 16:30	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/06/13 16:30	
1,2-Dichloroethane	ug/L	ND	1.0	06/06/13 16:30	
1,2-Dichloropropane	ug/L	ND	1.0	06/06/13 16:30	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/06/13 16:30	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/06/13 16:30	
2-Chloroethylvinyl ether	ug/L	ND	10.0	06/06/13 16:30	
Benzene	ug/L	ND	1.0	06/06/13 16:30	
Bromodichloromethane	ug/L	ND	1.0	06/06/13 16:30	
Bromoform	ug/L	ND	1.0	06/06/13 16:30	
Bromomethane	ug/L	ND	5.0	06/06/13 16:30	
Carbon tetrachloride	ug/L	ND	1.0	06/06/13 16:30	
Chlorobenzene	ug/L	ND	1.0	06/06/13 16:30	
Chloroethane	ug/L	ND	1.0	06/06/13 16:30	
Chloroform	ug/L	ND	1.0	06/06/13 16:30	
Chloromethane	ug/L	ND	1.0	06/06/13 16:30	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/06/13 16:30	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/06/13 16:30	
Dibromochloromethane	ug/L	ND	1.0	06/06/13 16:30	
Ethylbenzene	ug/L	ND	1.0	06/06/13 16:30	
Methylene chloride	ug/L	ND	1.0	06/06/13 16:30	
Tetrachloroethene	ug/L	ND	1.0	06/06/13 16:30	
Toluene	ug/L	ND	1.0	06/06/13 16:30	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/06/13 16:30	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/06/13 16:30	
Trichloroethene	ug/L	ND	1.0	06/06/13 16:30	
Trichlorofluoromethane	ug/L	ND	1.0	06/06/13 16:30	
Vinyl chloride	ug/L	ND	1.0	06/06/13 16:30	
Xylene (Total)	ug/L	ND	3.0	06/06/13 16:30	
1,2-Dichloroethane-d4 (S)	%	102	80-120	06/06/13 16:30	
4-Bromofluorobenzene (S)	%	99	80-120	06/06/13 16:30	
Dibromofluoromethane (S)	%	108	80-120	06/06/13 16:30	
Toluene-d8 (S)	%	101	80-120	06/06/13 16:30	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

LABORATORY CONTROL SAMPLE: 1199820

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.3	102	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	59-138	
1,1,2-Trichloroethane	ug/L	20	20.0	100	69-127	
1,1-Dichloroethane	ug/L	20	18.5	92	69-126	
1,1-Dichloroethene	ug/L	20	20.9	104	65-153	
1,2-Dichlorobenzene	ug/L	20	18.7	94	66-126	
1,2-Dichloroethane	ug/L	20	20.3	101	71-129	
1,2-Dichloropropane	ug/L	20	20.8	104	66-140	
1,3-Dichlorobenzene	ug/L	20	19.1	96	63-127	
1,4-Dichlorobenzene	ug/L	20	18.6	93	68-124	
2-Chloroethylvinyl ether	ug/L	20	17.3	86	33-159	
Benzene	ug/L	20	19.8	99	73-129	
Bromodichloromethane	ug/L	20	19.6	98	63-129	
Bromoform	ug/L	20	18.7	94	52-123	
Bromomethane	ug/L	20	26.3	131	10-160	
Carbon tetrachloride	ug/L	20	19.8	99	70-140	
Chlorobenzene	ug/L	20	19.4	97	68-127	
Chloroethane	ug/L	20	17.6	88	42-160	
Chloroform	ug/L	20	19.3	97	60-120	
Chloromethane	ug/L	20	18.4	92	10-160	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	70-125	
cis-1,3-Dichloropropene	ug/L	20	20.2	101	66-132	
Dibromochloromethane	ug/L	20	20.1	101	63-134	
Ethylbenzene	ug/L	20	19.5	98	66-133	
Methylene chloride	ug/L	20	19.6	98	56-135	
Tetrachloroethene	ug/L	20	20.6	103	64-143	
Toluene	ug/L	20	19.9	100	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.0	100	67-149	
trans-1,3-Dichloropropene	ug/L	20	21.7	109	66-138	
Trichloroethene	ug/L	20	19.8	99	71-130	
Trichlorofluoromethane	ug/L	20	17.2	86	58-158	
Vinyl chloride	ug/L	20	19.5	98	41-160	
Xylene (Total)	ug/L	60	58.3	97	67-130	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Dibromofluoromethane (S)	%			96	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1199821

Parameter	Units	60145828001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4010	100	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3780	94	46-157	
1,1,2-Trichloroethane	ug/L	ND	4000	3930	98	52-150	
1,1-Dichloroethane	ug/L	ND	4000	3600	90	59-155	
1,1-Dichloroethene	ug/L	ND	4000	3840	96	14-160	
1,2-Dichlorobenzene	ug/L	ND	4000	3640	91	18-145	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

MATRIX SPIKE SAMPLE:		1199821		60145828001		Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits		
1,2-Dichloroethane	ug/L	ND	4000	3850	96			49-155		
1,2-Dichloropropane	ug/L	ND	4000	3940	99			12-160		
1,3-Dichlorobenzene	ug/L	ND	4000	3710	93			59-146		
1,4-Dichlorobenzene	ug/L	ND	4000	3630	90			18-147		
2-Chloroethylvinyl ether	ug/L	ND	4000	4900	123			10-160		
Benzene	ug/L	ND	4000	3870	97			37-151		
Bromodichloromethane	ug/L	ND	4000	3710	93			35-155		
Bromoform	ug/L	ND	4000	3560	89			45-133		
Bromomethane	ug/L	ND	4000	3550	89			10-160		
Carbon tetrachloride	ug/L	ND	4000	3900	98			70-140		
Chlorobenzene	ug/L	ND	4000	3770	94			37-153		
Chloroethane	ug/L	ND	4000	3180	79			14-160		
Chloroform	ug/L	ND	4000	3730	93			51-138		
Chloromethane	ug/L	ND	4000	3590	90			10-160		
cis-1,2-Dichloroethene	ug/L	ND	4000	3770	94			19-160		
cis-1,3-Dichloropropene	ug/L	ND	4000	3990	100			10-160		
Dibromochloromethane	ug/L	ND	4000	3810	95			53-149		
Ethylbenzene	ug/L	ND	4000	3770	94			37-154		
Methylene chloride	ug/L	ND	4000	4480	108			15-156		
Tetrachloroethene	ug/L	ND	4000	3910	98			64-148		
Toluene	ug/L	ND	4000	3800	95			47-150		
trans-1,2-Dichloroethene	ug/L	ND	4000	3860	96			54-156		
trans-1,3-Dichloropropene	ug/L	ND	4000	4220	106			17-160		
Trichloroethene	ug/L	ND	4000	3810	95			71-157		
Trichlorofluoromethane	ug/L	ND	4000	3500	88			17-160		
Vinyl chloride	ug/L	ND	4000	3780	95			10-160		
Xylene (Total)	ug/L	ND	12000	11200	93			12-153		
1,2-Dichloroethane-d4 (S)	%				104			80-120		
4-Bromofluorobenzene (S)	%				101			80-120		
Dibromofluoromethane (S)	%				97			80-120		
Toluene-d8 (S)	%				99			80-120		
Preservation pH			7.0			7.0				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD
Pace Project No.: 60146018

QC Batch: OEXT/38677 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60146018001

METHOD BLANK: 1198403 Matrix: Water
Associated Lab Samples: 60146018001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/05/13 09:18	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/05/13 09:18	
2,4-Dichlorophenol	ug/L	ND	5.0	06/05/13 09:18	
2,4-Dimethylphenol	ug/L	ND	5.0	06/05/13 09:18	
2,4-Dinitrophenol	ug/L	ND	50.0	06/05/13 09:18	
2,4-Dinitrotoluene	ug/L	ND	6.0	06/05/13 09:18	
2,6-Dinitrotoluene	ug/L	ND	5.0	06/05/13 09:18	
2-Chloronaphthalene	ug/L	ND	5.0	06/05/13 09:18	
2-Chlorophenol	ug/L	ND	5.0	06/05/13 09:18	
2-Nitrophenol	ug/L	ND	5.0	06/05/13 09:18	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	06/05/13 09:18	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/05/13 09:18	
4-Bromophenylphenyl ether	ug/L	ND	5.0	06/05/13 09:18	
4-Chloro-3-methylphenol	ug/L	ND	5.0	06/05/13 09:18	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	06/05/13 09:18	
4-Nitrophenol	ug/L	ND	5.0	06/05/13 09:18	
Acenaphthene	ug/L	ND	5.0	06/05/13 09:18	
Acenaphthylene	ug/L	ND	5.0	06/05/13 09:18	
Anthracene	ug/L	ND	5.0	06/05/13 09:18	
Benzidine	ug/L	ND	50.0	06/05/13 09:18	
Benzo(a)anthracene	ug/L	ND	5.0	06/05/13 09:18	
Benzo(a)pyrene	ug/L	ND	5.0	06/05/13 09:18	
Benzo(b)fluoranthene	ug/L	ND	5.0	06/05/13 09:18	
Benzo(g,h,i)perylene	ug/L	ND	5.0	06/05/13 09:18	
Benzo(k)fluoranthene	ug/L	ND	5.0	06/05/13 09:18	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	06/05/13 09:18	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	06/05/13 09:18	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	06/05/13 09:18	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	06/05/13 09:18	
Butylbenzylphthalate	ug/L	ND	5.0	06/05/13 09:18	
Chrysene	ug/L	ND	5.0	06/05/13 09:18	
Di-n-butylphthalate	ug/L	ND	5.0	06/05/13 09:18	
Di-n-octylphthalate	ug/L	ND	5.0	06/05/13 09:18	
Dibenz(a,h)anthracene	ug/L	ND	5.0	06/05/13 09:18	
Diethylphthalate	ug/L	ND	5.0	06/05/13 09:18	
Dimethylphthalate	ug/L	ND	5.0	06/05/13 09:18	
Fluoranthene	ug/L	ND	5.0	06/05/13 09:18	
Fluorene	ug/L	ND	5.0	06/05/13 09:18	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/05/13 09:18	
Hexachlorobenzene	ug/L	ND	5.0	06/05/13 09:18	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/05/13 09:18	
Hexachloroethane	ug/L	ND	5.0	06/05/13 09:18	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	06/05/13 09:18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD

Project No.: 60146018

METHOD BLANK: 1198403

Matrix: Water

Associated Lab Samples: 60146018001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	06/05/13 09:18	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	06/05/13 09:18	
N-Nitrosodimethylamine	ug/L	ND	5.0	06/05/13 09:18	
N-Nitrosodiphenylamine	ug/L	ND	5.0	06/05/13 09:18	
Naphthalene	ug/L	ND	5.0	06/05/13 09:18	
Nitrobenzene	ug/L	ND	5.0	06/05/13 09:18	
Pentachlorophenol	ug/L	ND	5.0	06/05/13 09:18	
Phenanthrene	ug/L	ND	5.0	06/05/13 09:18	
Phenol	ug/L	ND	5.0	06/05/13 09:18	
Pyrene	ug/L	ND	5.0	06/05/13 09:18	
2,4,6-Tribromophenol (S)	%	81	39-119	06/05/13 09:18	
2-Fluorobiphenyl (S)	%	75	36-120	06/05/13 09:18	
2-Fluorophenol (S)	%	44	18-120	06/05/13 09:18	
Nitrobenzene-d5 (S)	%	76	32-120	06/05/13 09:18	
Phenol-d6 (S)	%	29	12-120	06/05/13 09:18	
Terphenyl-d14 (S)	%	82	44-120	06/05/13 09:18	

LABORATORY CONTROL SAMPLE: 1198404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	36.8	74	44-120	
2,4,6-Trichlorophenol	ug/L	50	41.9	84	48-120	
2,4-Dichlorophenol	ug/L	50	38.3	77	48-120	
2,4-Dimethylphenol	ug/L	50	37.0	74	37-119	
2,4-Dinitrophenol	ug/L	50	39.7J	79	15-153	
2,4-Dinitrotoluene	ug/L	50	44.3	89	54-120	
2,6-Dinitrotoluene	ug/L	50	41.4	83	52-120	
2-Chloronaphthalene	ug/L	50	39.7	79	60-118	
2-Chlorophenol	ug/L	50	36.0	72	44-120	
2-Nitrophenol	ug/L	50	40.0	80	43-120	
3,3'-Dichlorobenzidine	ug/L	50	50.4	101	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	44.2	88	31-147	
4-Bromophenylphenyl ether	ug/L	50	46.0	92	53-120	
4-Chloro-3-methylphenol	ug/L	50	41.0	82	50-120	
4-Chlorophenylphenyl ether	ug/L	50	41.7	83	54-120	
4-Nitrophenol	ug/L	50	16.7	33	10-120	
Acenaphthene	ug/L	50	41.0	82	51-120	
Acenaphthylene	ug/L	50	37.0	74	51-120	
Anthracene	ug/L	50	44.5	89	54-120	
Benzidine	ug/L	50	17.9J	36	1-124	
Benzo(a)anthracene	ug/L	50	44.2	88	54-120	
Benzo(a)pyrene	ug/L	50	44.5	89	54-120	
Benzo(b)fluoranthene	ug/L	50	40.5	81	57-120	
Benzo(g,h,i)perylene	ug/L	50	45.2	90	54-120	
Benzo(k)fluoranthene	ug/L	50	44.1	88	52-121	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

LABORATORY CONTROL SAMPLE: 1198404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	50	38.2	76	51-120	
bis(2-Chloroethyl) ether	ug/L	50	36.5	73	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	35.5	71	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	67.2	134	51-126	L0
Butylbenzylphthalate	ug/L	50	46.6	93	45-129	
Chrysene	ug/L	50	43.9	88	54-120	
Di-n-butylphthalate	ug/L	50	42.1	84	57-118	
Di-n-octylphthalate	ug/L	50	41.9	84	48-130	
Dibenz(a,h)anthracene	ug/L	50	44.0	88	56-119	
Diethylphthalate	ug/L	50	42.2	84	55-114	
Dimethylphthalate	ug/L	50	42.0	84	54-112	
Fluoranthene	ug/L	50	46.8	94	56-120	
Fluorene	ug/L	50	41.4	83	59-120	
Hexachloro-1,3-butadiene	ug/L	50	37.4	75	41-116	
Hexachlorobenzene	ug/L	50	45.8	92	53-120	
Hexachlorocyclopentadiene	ug/L	100	68.4	68	31-120	
Hexachloroethane	ug/L	50	36.9	74	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	42.4	85	55-120	
Isophorone	ug/L	50	38.1	76	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	40.0	80	47-120	
N-Nitrosodimethylamine	ug/L	50	22.2	44	28-120	
N-Nitrosodiphenylamine	ug/L	50	43.6	87	53-120	
Naphthalene	ug/L	50	38.4	77	48-120	
Nitrobenzene	ug/L	50	38.4	77	47-120	
Pentachlorophenol	ug/L	50	48.2	96	43-127	
Phenanthrene	ug/L	50	44.0	88	55-120	
Phenol	ug/L	50	15.2	30	15-112	
Pyrene	ug/L	50	44.9	90	55-115	
2,4,6-Tribromophenol (S)	%			93	39-119	
2-Fluorobiphenyl (S)	%			81	36-120	
2-Fluorophenol (S)	%			43	18-120	
Nitrobenzene-d5 (S)	%			75	32-120	
Phenol-d6 (S)	%			29	12-120	
Terphenyl-d14 (S)	%			90	44-120	

MATRIX SPIKE SAMPLE: 1198405

Parameter	Units	60145817002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	33.4	67	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	42.0	84	37-121	
2,4-Dichlorophenol	ug/L	ND	50	36.4	73	39-120	
2,4-Dimethylphenol	ug/L	ND	50	36.9	74	32-119	
2,4-Dinitrophenol	ug/L	ND	50	31J	62	20-157	
2,4-Dinitrotoluene	ug/L	ND	50	40.2	80	39-130	
2,6-Dinitrotoluene	ug/L	ND	50	37.6	75	50-128	
2-Chloronaphthalene	ug/L	ND	50	37.1	74	60-118	
2-Chlorophenol	ug/L	ND	50	35.3	71	35-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

MATRIX SPIKE SAMPLE:		1198405						
Parameter	Units	60145817002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
2-Nitrophenol	ug/L	ND	50	36.9	74	29-123		
3,3'-Dichlorobenzidine	ug/L	ND	50	16.2J	32	10-160		
4,6-Dinitro-2-methylphenol	ug/L	ND	50	34.0	68	27-146		
4-Bromophenylphenyl ether	ug/L	ND	50	41.5	83	53-124		
4-Chloro-3-methylphenol	ug/L	ND	50	38.8	78	33-123		
4-Chlorophenylphenyl ether	ug/L	ND	50	36.7	73	34-125		
4-Nitrophenol	ug/L	ND	50	21.7	43	10-120		
Acenaphthene	ug/L	ND	50	35.8	72	47-120		
Acenaphthylene	ug/L	ND	50	34.9	70	33-120		
Anthracene	ug/L	ND	50	40.2	80	36-121		
Benzidine	ug/L	ND	50	ND	0	1-120 M1		
Benzo(a)anthracene	ug/L	ND	50	38.0	76	37-127		
Benzo(a)pyrene	ug/L	ND	50	37.8	76	34-125		
Benzo(b)fluoranthene	ug/L	ND	50	38.2	76	37-131		
Benzo(g,h,i)perylene	ug/L	ND	50	37.6	75	35-128		
Benzo(k)fluoranthene	ug/L	ND	50	38.8	78	34-130		
bis(2-Chloroethoxy)methane	ug/L	ND	50	34.5	69	33-120		
bis(2-Chloroethyl) ether	ug/L	ND	50	30.7	61	32-120		
bis(2-Chloroisopropyl) ether	ug/L	ND	50	34.7	69	36-120		
bis(2-Ethylhexyl)phthalate	ug/L	5.5	50	46.6	82	38-137		
Butylbenzylphthalate	ug/L	ND	50	40.8	79	43-136		
Chrysene	ug/L	ND	50	38.0	76	36-127		
Di-n-butylphthalate	ug/L	ND	50	41.3	83	38-118		
Di-n-octylphthalate	ug/L	ND	50	43.5	87	40-140		
Dibenz(a,h)anthracene	ug/L	ND	50	38.4	77	35-131		
Diethylphthalate	ug/L	ND	50	39.7	77	33-114		
Dimethylphthalate	ug/L	ND	50	38.9	78	34-112		
Fluoranthene	ug/L	ND	50	38.1	76	38-125		
Fluorene	ug/L	ND	50	36.7	73	59-121		
Hexachloro-1,3-butadiene	ug/L	ND	50	33.7	67	27-116		
Hexachlorobenzene	ug/L	ND	50	41.9	84	34-124		
Hexachlorocyclopentadiene	ug/L	ND	100	56.7	57	11-120		
Hexachloroethane	ug/L	ND	50	31.6	63	40-113		
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	37.7	75	38-127		
Isophorone	ug/L	ND	50	34.8	70	31-120		
N-Nitroso-di-n-propylamine	ug/L	ND	50	35.9	72	30-120		
N-Nitrosodimethylamine	ug/L	ND	50	25.0	50	29-120		
N-Nitrosodiphenylamine	ug/L	ND	50	39.6	79	10-139		
Naphthalene	ug/L	ND	50	33.7	67	32-120		
Nitrobenzene	ug/L	ND	50	31.7	63	35-128		
Pentachlorophenol	ug/L	ND	50	49.1	98	38-133		
Phenanthrene	ug/L	ND	50	38.8	78	54-120		
Phenol	ug/L	ND	50	18.4	32	13-112		
Pyrene	ug/L	ND	50	37.9	76	52-115		
2,4,6-Tribromophenol (S)	%				89	39-119		
2-Fluorobiphenyl (S)	%				75	36-120		
2-Fluorophenol (S)	%				42	18-120		
Nitrobenzene-d5 (S)	%				60	32-120		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

MATRIX SPIKE SAMPLE:		1198405					
Parameter	Units	60145817002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenol-d6 (S)	%				31	12-120	
Terphenyl-d14 (S)	%				77	44-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

QC Batch:	WET/41679	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60146018001		

METHOD BLANK: 1199714 Matrix: Water

Associated Lab Samples: 60146018001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/06/13 07:10	

LABORATORY CONTROL SAMPLE: 1199715

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	42.8	107	78-114	

MATRIX SPIKE SAMPLE: 1199718

Parameter	Units	60146043001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	41.1	97	78-114	

SAMPLE DUPLICATE: 1199717

Parameter	Units	60145448001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	8.0	6.3	25	18	D6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

QC Batch:	WET/41706	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60146018001		

METHOD BLANK: 1200591 Matrix: Water

Associated Lab Samples: 60146018001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/06/13 17:46	

LABORATORY CONTROL SAMPLE: 1200592

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	23.4	117	64-132	

MATRIX SPIKE SAMPLE: 1200601

Parameter	Units	60145883001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	21.3	29.5	129	64-132	

SAMPLE DUPLICATE: 1200603

Parameter	Units	60145898001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	1.5J		34	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

QC Batch:	WET/41690	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60146018001		

METHOD BLANK: 1200107 Matrix: Water

Associated Lab Samples: 60146018001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/06/13 12:59	

SAMPLE DUPLICATE: 1200108

Parameter	Units	60146044001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	92.0	99.0	7	25	

SAMPLE DUPLICATE: 1200109

Parameter	Units	60145936001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	140	163	15	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

QC Batch: WET/41656 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60146018001

SAMPLE DUPLICATE: 1198883

Parameter	Units	60146034002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

QC Batch:	WETA/24997	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60146018001		

METHOD BLANK: 1199893 Matrix: Water
Associated Lab Samples: 60146018001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/06/13 15:19	

LABORATORY CONTROL SAMPLE: 1199894

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

MATRIX SPIKE SAMPLE: 1199895

Parameter	Units	60145896003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	96	90-110	

MATRIX SPIKE SAMPLE: 1199896

Parameter	Units	60146137001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.3	66	90-110	M1

SAMPLE DUPLICATE: 1199897

Parameter	Units	60145886006 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	297	291	2	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

QC Batch:	WETA/25016	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60146018001		

METHOD BLANK: 1200844 Matrix: Water
Associated Lab Samples: 60146018001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/08/13 09:36	

LABORATORY CONTROL SAMPLE: 1200845

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	54.8	110	90-110	

MATRIX SPIKE SAMPLE: 1200846

Parameter	Units	60145813002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	60.3	105	90-110	

MATRIX SPIKE SAMPLE: 1200848

Parameter	Units	60145813004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	55.4	106	90-110	

SAMPLE DUPLICATE: 1200847

Parameter	Units	60145813003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	ND	7.9J		25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

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.

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.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 180-MSD

Pace Project No.: 60146018

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60146018001	180-MSD	EPA 200.7	MPRP/22931	EPA 200.7	ICP/18131
60146018001	180-MSD	EPA 200.7	MPRP/22909	EPA 200.7	ICP/18116
60146018001	180-MSD	EPA 245.1	MERP/7409	EPA 245.1	MERC/7363
60146018001	180-MSD	EPA 245.1	MERP/7399	EPA 245.1	MERC/7356
60146018001	180-MSD	EPA 625	OEXT/38677	EPA 625	MSSV/12236
60146018001	180-MSD	EPA 624 Low	MSV/54149		
60146018002	TRIP BLANKS	EPA 624 Low	MSV/54149		
60146018001	180-MSD	EPA 1664A	WET/41679		
60146018001	180-MSD	EPA 1664A	WET/41706		
60146018001	180-MSD	SM 2540D	WET/41690		
60146018001	180-MSD	SM 4500-H+B	WET/41656		
60146018001	180-MSD	EPA 350.1	WETA/24997		
60146018001	180-MSD	EPA 410.4	WETA/25016		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60146018
60146018

Client Name: Barr

Courier: Fed Ex UPS USPS Client Commercial Pace Other Hand

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-112 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 14.6

Date and initials of person examining contents: hw 6/2/13

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>HNO3 volume initial pH ~5.0; added 2.5 mL HNO3 pH to ~3.0</u> <u>H2O2 volume initial pH ~5.0; added 2 mL H2O2 pH to ~3.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, <u>O&O</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): <u>covered</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:

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: 6/5/13

June 11, 2013

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

RE: Project: BRIDGETON LF 178/181-MSD
Pace Project No.: 60146109

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 05, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 178/181-MSD

Pace Project No.: 60146109

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA 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 178/181-MSD

Pace Project No.: 60146109

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60146109001	179/181-MSD	Water	06/03/13 15:08	06/05/13 02:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 178/181-MSD

Pace Project No.: 60146109

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60146109001	179/181-MSD	SM 5210B	NDL	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 178/181-MSD

Pace Project No.: 60146109

Sample: 179/181-MSD	Lab ID: 60146109001	Collected: 06/03/13 15:08	Received: 06/05/13 02:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day								
Analytical Method: SM 5210B Preparation Method: SM 5210B								
BOD, 5 day	35100	mg/L	2.0	1	06/05/13 14:51	06/10/13 10:36		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 178/181-MSD

Pace Project No.: 60146109

QC Batch: WET/41677

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60146109001

METHOD BLANK: 1199398

Matrix: Water

Associated Lab Samples: 60146109001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/10/13 10:33	

LABORATORY CONTROL SAMPLE: 1199399

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	220	111	85-115	

SAMPLE DUPLICATE: 1199400

Parameter	Units	60146112001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	ND		17	

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QUALIFIERS

Project: BRIDGETON LF 178/181-MSD

Pace Project No.: 60146109

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 178/181-MSD

Pace Project No.: 60146109

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60146109001	179/181-MSD	SM 5210B	WET/41677	SM 5210B	WET/41747

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60146109



Client Name: Barr Eng.

Courier: Fed Ex [] UPS [] USPS [] Client [] Commercial [] Pace [] Other [X] Roads

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

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

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

Thermometer Used: T-112 / T-194 Type of Ice: Wet Blue None [] Samples received on ice, cooling process has begun.

Cooler Temperature: 2.5

Date and initials of person examining contents: 6-5-13 BA

Temperature should be above freezing to 6°C

Table with 17 rows of inspection items and checkboxes. Items include Chain of Custody, Short Hold Time analyses, Rush Turn Around Time, etc.

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 6/6/13

June 12, 2013

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

RE: Project: BRIDGETON LF 179/181-MSD
Pace Project No.: 60146110

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 05, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA 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 179/181-MSD

Pace Project No.: 60146110

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60146110001	179/181-MSD	Water	06/03/13 15:08	06/05/13 02:15
60146110002	TRIP BLANK	Water	06/03/13 15:08	06/05/13 02:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60146110001	179/181-MSD	EPA 200.7	SMW	15
		EPA 200.7	SMW	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	59
		EPA 624 Low	JKL	38
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	DJR	1
		SM 4500-H+B	OL	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
		60146110002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

Sample: 179/181-MSD	Lab ID: 60146110001	Collected: 06/03/13 15:08	Received: 06/05/13 02:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum	7470 ug/L		150	2	06/06/13 09:00	06/06/13 19:03	7429-90-5	
Antimony	ND ug/L		50.0	5	06/06/13 09:00	06/06/13 19:05	7440-36-0	D3
Arsenic	704 ug/L		50.0	5	06/06/13 09:00	06/06/13 19:05	7440-38-2	
Beryllium	ND ug/L		2.0	2	06/06/13 09:00	06/06/13 19:03	7440-41-7	D3
Cadmium	ND ug/L		25.0	5	06/06/13 09:00	06/06/13 19:05	7440-43-9	
Chromium	251 ug/L		10.0	2	06/06/13 09:00	06/06/13 19:03	7440-47-3	
Cobalt	25.2 ug/L		25.0	5	06/06/13 09:00	06/06/13 19:05	7440-48-4	
Copper	24.4 ug/L		20.0	2	06/06/13 09:00	06/06/13 19:03	7440-50-8	
Iron	929000 ug/L		100	2	06/06/13 09:00	06/06/13 19:03	7439-89-6	
Lead	186 ug/L		25.0	5	06/06/13 09:00	06/06/13 19:05	7439-92-1	
Nickel	116 ug/L		25.0	5	06/06/13 09:00	06/06/13 19:05	7440-02-0	
Selenium	ND ug/L		75.0	5	06/06/13 09:00	06/06/13 19:05	7782-49-2	
Silver	ND ug/L		14.0	2	06/06/13 09:00	06/06/13 19:03	7440-22-4	
Thallium	ND ug/L		100	5	06/06/13 09:00	06/06/13 19:05	7440-28-0	
Zinc	17600 ug/L		250	5	06/06/13 09:00	06/06/13 19:05	7440-66-6	
200.7 Metals, Dissolved (LF)								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum, Dissolved	5430 ug/L		150	2	06/06/13 14:00	06/07/13 11:44	7429-90-5	
Antimony, Dissolved	ND ug/L		50.0	5	06/06/13 14:00	06/07/13 11:47	7440-36-0	
Arsenic, Dissolved	596 ug/L		50.0	5	06/06/13 14:00	06/07/13 11:47	7440-38-2	
Beryllium, Dissolved	ND ug/L		2.0	2	06/06/13 14:00	06/07/13 11:44	7440-41-7	
Cadmium, Dissolved	ND ug/L		25.0	5	06/06/13 14:00	06/07/13 11:47	7440-43-9	
Chromium, Dissolved	244 ug/L		10.0	2	06/06/13 14:00	06/07/13 11:44	7440-47-3	
Cobalt, Dissolved	ND ug/L		25.0	5	06/06/13 14:00	06/07/13 11:47	7440-48-4	
Copper, Dissolved	20.8 ug/L		20.0	2	06/06/13 14:00	06/07/13 11:44	7440-50-8	
Iron, Dissolved	798000 ug/L		100	2	06/06/13 14:00	06/07/13 11:44	7439-89-6	
Lead, Dissolved	124 ug/L		25.0	5	06/06/13 14:00	06/07/13 11:47	7439-92-1	
Nickel, Dissolved	103 ug/L		25.0	5	06/06/13 14:00	06/07/13 11:47	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	5	06/06/13 14:00	06/07/13 11:47	7782-49-2	
Silver, Dissolved	ND ug/L		14.0	2	06/06/13 14:00	06/07/13 11:44	7440-22-4	
Thallium, Dissolved	ND ug/L		100	5	06/06/13 14:00	06/07/13 11:47	7440-28-0	
Zinc, Dissolved	17000 ug/L		250	5	06/06/13 14:00	06/07/13 11:47	7440-66-6	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	2.9 ug/L		0.20	1	06/07/13 12:00	06/10/13 12:02	7439-97-6	M1
245.1 Mercury, Dissolved (LF)								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury, Dissolved	3.8 ug/L		0.20	1	06/10/13 13:20	06/11/13 11:59	7439-97-6	
625 MSSV								
Analytical Method: EPA 625 Preparation Method: EPA 625								
Acenaphthene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	83-32-9	
Acenaphthylene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	208-96-8	
Anthracene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	120-12-7	
Benzidine	ND ug/L		10000	20	06/06/13 00:00	06/07/13 20:51	92-87-5	
Benzo(a)anthracene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	56-55-3	
Benzo(a)pyrene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

Sample: 179/181-MSD	Lab ID: 60146110001	Collected: 06/03/13 15:08	Received: 06/05/13 02:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Benzo(b)fluoranthene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	191-24-2	
Benzo(k)fluoranthene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	207-08-9	
4-Bromophenylphenyl ether	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	101-55-3	
Butylbenzylphthalate	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	85-68-7	
4-Chloro-3-methylphenol	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	59-50-7	
bis(2-Chloroethoxy)methane	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		1200	20	06/06/13 00:00	06/07/13 20:51	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		1200	20	06/06/13 00:00	06/07/13 20:51	39638-32-9	
2-Chloronaphthalene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	91-58-7	
2-Chlorophenol	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	7005-72-3	
Chrysene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	53-70-3	
3,3'-Dichlorobenzidine	ND ug/L		4000	20	06/06/13 00:00	06/07/13 20:51	91-94-1	
2,4-Dichlorophenol	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	120-83-2	
Diethylphthalate	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	84-66-2	
2,4-Dimethylphenol	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	105-67-9	
Dimethylphthalate	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	131-11-3	
Di-n-butylphthalate	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		5000	20	06/06/13 00:00	06/07/13 20:51	534-52-1	
2,4-Dinitrophenol	ND ug/L		10000	20	06/06/13 00:00	06/07/13 20:51	51-28-5	
2,4-Dinitrotoluene	ND ug/L		1200	20	06/06/13 00:00	06/07/13 20:51	121-14-2	
2,6-Dinitrotoluene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	606-20-2	
Di-n-octylphthalate	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	117-81-7	
Fluoranthene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	206-44-0	
Fluorene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	87-68-3	
Hexachlorobenzene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	77-47-4	
Hexachloroethane	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	193-39-5	
Isophorone	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	78-59-1	
Naphthalene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	91-20-3	
Nitrobenzene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	98-95-3	
2-Nitrophenol	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	88-75-5	
4-Nitrophenol	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	100-02-7	
N-Nitrosodimethylamine	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	86-30-6	
Pentachlorophenol	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	87-86-5	
Phenanthrene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	85-01-8	
Phenol	16000 ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	108-95-2	
Pyrene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	20	06/06/13 00:00	06/07/13 20:51	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

Sample: 179/181-MSD	Lab ID: 60146110001	Collected: 06/03/13 15:08	Received: 06/05/13 02:15	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Surrogates								
Nitrobenzene-d5 (S)	0 %		32-120	20	06/06/13 00:00	06/07/13 20:51	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	20	06/06/13 00:00	06/07/13 20:51	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	20	06/06/13 00:00	06/07/13 20:51	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	20	06/06/13 00:00	06/07/13 20:51	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	20	06/06/13 00:00	06/07/13 20:51	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	20	06/06/13 00:00	06/07/13 20:51	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		06/06/13 21:05	71-43-2	
Bromodichloromethane	ND ug/L		200	200		06/06/13 21:05	75-27-4	
Bromoform	ND ug/L		200	200		06/06/13 21:05	75-25-2	
Bromomethane	ND ug/L		1000	200		06/06/13 21:05	74-83-9	
Carbon tetrachloride	ND ug/L		200	200		06/06/13 21:05	56-23-5	
Chlorobenzene	ND ug/L		200	200		06/06/13 21:05	108-90-7	
Chloroethane	ND ug/L		200	200		06/06/13 21:05	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		06/06/13 21:05	110-75-8	
Chloroform	ND ug/L		200	200		06/06/13 21:05	67-66-3	
Chloromethane	ND ug/L		200	200		06/06/13 21:05	74-87-3	
Dibromochloromethane	ND ug/L		200	200		06/06/13 21:05	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		06/06/13 21:05	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		06/06/13 21:05	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		06/06/13 21:05	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		06/06/13 21:05	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		06/06/13 21:05	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		06/06/13 21:05	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		06/06/13 21:05	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		06/06/13 21:05	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		06/06/13 21:05	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		06/06/13 21:05	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		06/06/13 21:05	10061-02-6	
Ethylbenzene	ND ug/L		200	200		06/06/13 21:05	100-41-4	
Methylene chloride	ND ug/L		200	200		06/06/13 21:05	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		06/06/13 21:05	79-34-5	
Tetrachloroethene	ND ug/L		200	200		06/06/13 21:05	127-18-4	
Toluene	ND ug/L		200	200		06/06/13 21:05	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		06/06/13 21:05	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		06/06/13 21:05	79-00-5	
Trichloroethene	ND ug/L		200	200		06/06/13 21:05	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		06/06/13 21:05	75-69-4	
Vinyl chloride	ND ug/L		200	200		06/06/13 21:05	75-01-4	
Xylene (Total)	ND ug/L		600	200		06/06/13 21:05	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	108 %		80-120	200		06/06/13 21:05	1868-53-7	D3
4-Bromofluorobenzene (S)	99 %		80-120	200		06/06/13 21:05	460-00-4	
Toluene-d8 (S)	99 %		80-120	200		06/06/13 21:05	2037-26-5	
1,2-Dichloroethane-d4 (S)	108 %		80-120	200		06/06/13 21:05	17060-07-0	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

Sample: 179/181-MSD		Lab ID: 60146110001	Collected: 06/03/13 15:08	Received: 06/05/13 02:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Preservation pH	7.0		1.0	200		06/06/13 21:05		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	297	mg/L	5.0	1		06/08/13 09:00		
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	37.4	mg/L	5.0	1		06/11/13 14:21		D6
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	2370	mg/L	5.0	1		06/08/13 13:06		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		06/07/13 14:00		H3,H6
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	609	mg/L	20.0	200		06/06/13 15:32	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	ND	mg/L	10.0	1		06/12/13 08:45		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

Sample: TRIP BLANK		Lab ID: 60146110002	Collected: 06/03/13 15:08	Received: 06/05/13 02:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		1.0	1		06/06/13 20:02	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/06/13 20:02	75-27-4	
Bromoform	ND ug/L		1.0	1		06/06/13 20:02	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/06/13 20:02	74-83-9	
Carbon tetrachloride	ND ug/L		1.0	1		06/06/13 20:02	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		06/06/13 20:02	108-90-7	
Chloroethane	ND ug/L		1.0	1		06/06/13 20:02	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		06/06/13 20:02	110-75-8	
Chloroform	ND ug/L		1.0	1		06/06/13 20:02	67-66-3	
Chloromethane	ND ug/L		1.0	1		06/06/13 20:02	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		06/06/13 20:02	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		06/06/13 20:02	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		06/06/13 20:02	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/06/13 20:02	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		06/06/13 20:02	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		06/06/13 20:02	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		06/06/13 20:02	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/06/13 20:02	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/06/13 20:02	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		06/06/13 20:02	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		06/06/13 20:02	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		06/06/13 20:02	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		06/06/13 20:02	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/06/13 20:02	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/06/13 20:02	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		06/06/13 20:02	127-18-4	
Toluene	ND ug/L		1.0	1		06/06/13 20:02	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/06/13 20:02	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/06/13 20:02	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/06/13 20:02	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		06/06/13 20:02	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		06/06/13 20:02	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/06/13 20:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	105 %		80-120	1		06/06/13 20:02	1868-53-7	
4-Bromofluorobenzene (S)	100 %		80-120	1		06/06/13 20:02	460-00-4	
Toluene-d8 (S)	98 %		80-120	1		06/06/13 20:02	2037-26-5	
1,2-Dichloroethane-d4 (S)	99 %		80-120	1		06/06/13 20:02	17060-07-0	
Preservation pH	7.0		1.0	1		06/06/13 20:02		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD
Pace Project No.: 60146110

QC Batch: MERP/7409 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60146110001

METHOD BLANK: 1200936 Matrix: Water
Associated Lab Samples: 60146110001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/10/13 11:51	

LABORATORY CONTROL SAMPLE: 1200937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1200938 1200939

Parameter	Units	60146018001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury	ug/L	ND	5	5	2.4	2.7	45	50	70-130	11	20	M1

MATRIX SPIKE SAMPLE: 1200940

Parameter	Units	60146110001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L		2.9	5	3.9	19	70-130 M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

QC Batch: MERP/7414

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60146110001

METHOD BLANK: 1202253

Matrix: Water

Associated Lab Samples: 60146110001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/11/13 11:54	

LABORATORY CONTROL SAMPLE: 1202254

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	95	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1202255

1202256

Parameter	Units	60146396001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Mercury, Dissolved	ug/L	ND	5	5	1.1	0.95	21	18	70-130	13	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

QC Batch: MPRP/22941 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60146110001

METHOD BLANK: 1199794 Matrix: Water

Associated Lab Samples: 60146110001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/06/13 18:47	
Antimony	ug/L	ND	10.0	06/06/13 18:47	
Arsenic	ug/L	ND	10.0	06/06/13 18:47	
Beryllium	ug/L	ND	1.0	06/06/13 18:47	
Cadmium	ug/L	ND	5.0	06/06/13 18:47	
Chromium	ug/L	ND	5.0	06/06/13 18:47	
Cobalt	ug/L	ND	5.0	06/06/13 18:47	
Copper	ug/L	ND	10.0	06/06/13 18:47	
Iron	ug/L	ND	50.0	06/06/13 18:47	
Lead	ug/L	ND	5.0	06/06/13 18:47	
Nickel	ug/L	ND	5.0	06/06/13 18:47	
Selenium	ug/L	ND	15.0	06/06/13 18:47	
Silver	ug/L	ND	7.0	06/06/13 18:47	
Thallium	ug/L	ND	20.0	06/06/13 18:47	
Zinc	ug/L	ND	50.0	06/06/13 18:47	

LABORATORY CONTROL SAMPLE: 1199795

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9450	95	85-115	
Antimony	ug/L	1000	989	99	85-115	
Arsenic	ug/L	1000	956	96	85-115	
Beryllium	ug/L	1000	981	98	85-115	
Cadmium	ug/L	1000	955	95	85-115	
Chromium	ug/L	1000	956	96	85-115	
Cobalt	ug/L	1000	962	96	85-115	
Copper	ug/L	1000	977	98	85-115	
Iron	ug/L	10000	10200	102	85-115	
Lead	ug/L	1000	990	99	85-115	
Nickel	ug/L	1000	995	100	85-115	
Selenium	ug/L	1000	985	98	85-115	
Silver	ug/L	500	494	99	85-115	
Thallium	ug/L	1000	1010	101	85-115	
Zinc	ug/L	1000	965	97	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1199796 1199797

Parameter	Units	60146113001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Aluminum	ug/L	204	10000	10000	9580	9800	94	96	70-130	2	8

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

Parameter	Units	60146113001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Result	Conc.	Result	Conc.	% Rec	% Rec					
Antimony	ug/L	ND	1000	1000	1010	1020	101	102	70-130	1	7				
Arsenic	ug/L	ND	1000	1000	985	990	98	99	70-130	1	10				
Beryllium	ug/L	ND	1000	1000	939	966	94	97	70-130	3	7				
Cadmium	ug/L	ND	1000	1000	965	970	97	97	70-130	0	10				
Chromium	ug/L	ND	1000	1000	933	933	93	93	70-130	0	10				
Cobalt	ug/L	ND	1000	1000	952	961	95	96	70-130	1	6				
Copper	ug/L	ND	1000	1000	972	976	97	97	70-130	0	11				
Iron	ug/L	280	10000	10000	9880	10200	96	99	70-130	3	10				
Lead	ug/L	ND	1000	1000	975	982	97	98	70-130	1	10				
Nickel	ug/L	ND	1000	1000	978	986	98	99	70-130	1	10				
Selenium	ug/L	ND	1000	1000	998	1000	99	100	70-130	1	10				
Silver	ug/L	ND	500	500	488	486	98	97	70-130	0	10				
Thallium	ug/L	ND	1000	1000	974	984	97	98	70-130	1	6				
Zinc	ug/L	ND	1000	1000	951	958	94	95	70-130	1	11				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD
Pace Project No.: 60146110

QC Batch: MPRP/22958 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60146110001

METHOD BLANK: 1200103 Matrix: Water
Associated Lab Samples: 60146110001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/07/13 11:26	
Antimony, Dissolved	ug/L	ND	10.0	06/07/13 11:26	
Arsenic, Dissolved	ug/L	ND	10.0	06/07/13 11:26	
Beryllium, Dissolved	ug/L	ND	1.0	06/07/13 11:26	
Cadmium, Dissolved	ug/L	ND	5.0	06/07/13 11:26	
Chromium, Dissolved	ug/L	ND	5.0	06/07/13 11:26	
Cobalt, Dissolved	ug/L	ND	5.0	06/07/13 11:26	
Copper, Dissolved	ug/L	ND	10.0	06/07/13 11:26	
Iron, Dissolved	ug/L	ND	50.0	06/07/13 11:26	
Lead, Dissolved	ug/L	ND	5.0	06/07/13 11:26	
Nickel, Dissolved	ug/L	ND	5.0	06/07/13 11:26	
Selenium, Dissolved	ug/L	ND	15.0	06/07/13 11:26	
Silver, Dissolved	ug/L	ND	7.0	06/07/13 11:26	
Thallium, Dissolved	ug/L	ND	20.0	06/07/13 11:26	
Zinc, Dissolved	ug/L	ND	50.0	06/07/13 11:26	

LABORATORY CONTROL SAMPLE: 1200104

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	1020	102	85-115	
Arsenic, Dissolved	ug/L	1000	1010	101	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	1050	105	85-115	
Copper, Dissolved	ug/L	1000	1010	101	85-115	
Iron, Dissolved	ug/L	10000	9890	99	85-115	
Lead, Dissolved	ug/L	1000	1040	104	85-115	
Nickel, Dissolved	ug/L	1000	1060	106	85-115	
Selenium, Dissolved	ug/L	1000	1020	102	85-115	
Silver, Dissolved	ug/L	500	512	102	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: 1200105 1200106

Parameter	Units	60146120001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Aluminum, Dissolved	ug/L	106	10000	10000	10000	10300	10500	102	104	70-130	2	8

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1200105			1200106			MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
	Units	60146120001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony, Dissolved	ug/L	ND	1000	1000	1030	1050	103	105	70-130	2	7	
Arsenic, Dissolved	ug/L	ND	1000	1000	1040	1060	104	106	70-130	2	10	
Beryllium, Dissolved	ug/L	ND	1000	1000	996	1010	100	101	70-130	1	7	
Cadmium, Dissolved	ug/L	ND	1000	1000	1010	1030	101	103	70-130	2	10	
Chromium, Dissolved	ug/L	ND	1000	1000	974	991	97	99	70-130	2	10	
Cobalt, Dissolved	ug/L	ND	1000	1000	994	1010	99	101	70-130	2	6	
Copper, Dissolved	ug/L	11.8	1000	1000	996	1020	98	101	70-130	2	11	
Iron, Dissolved	ug/L	345	10000	10000	9900	10000	96	97	70-130	1	10	
Lead, Dissolved	ug/L	ND	1000	1000	964	983	96	98	70-130	2	10	
Nickel, Dissolved	ug/L	ND	1000	1000	996	1010	99	101	70-130	1	10	
Selenium, Dissolved	ug/L	ND	1000	1000	1030	1050	103	105	70-130	2	10	
Silver, Dissolved	ug/L	ND	500	500	505	516	101	103	70-130	2	10	
Thallium, Dissolved	ug/L	ND	1000	1000	926	943	93	94	70-130	2	6	
Zinc, Dissolved	ug/L	ND	1000	1000	1000	1010	100	101	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

QC Batch: MSV/54149 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60146110001, 60146110002

METHOD BLANK: 1199819 Matrix: Water

Associated Lab Samples: 60146110001, 60146110002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/06/13 16:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/06/13 16:30	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/06/13 16:30	
1,1-Dichloroethane	ug/L	ND	1.0	06/06/13 16:30	
1,1-Dichloroethene	ug/L	ND	1.0	06/06/13 16:30	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/06/13 16:30	
1,2-Dichloroethane	ug/L	ND	1.0	06/06/13 16:30	
1,2-Dichloropropane	ug/L	ND	1.0	06/06/13 16:30	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/06/13 16:30	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/06/13 16:30	
2-Chloroethylvinyl ether	ug/L	ND	10.0	06/06/13 16:30	
Benzene	ug/L	ND	1.0	06/06/13 16:30	
Bromodichloromethane	ug/L	ND	1.0	06/06/13 16:30	
Bromoform	ug/L	ND	1.0	06/06/13 16:30	
Bromomethane	ug/L	ND	5.0	06/06/13 16:30	
Carbon tetrachloride	ug/L	ND	1.0	06/06/13 16:30	
Chlorobenzene	ug/L	ND	1.0	06/06/13 16:30	
Chloroethane	ug/L	ND	1.0	06/06/13 16:30	
Chloroform	ug/L	ND	1.0	06/06/13 16:30	
Chloromethane	ug/L	ND	1.0	06/06/13 16:30	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/06/13 16:30	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/06/13 16:30	
Dibromochloromethane	ug/L	ND	1.0	06/06/13 16:30	
Ethylbenzene	ug/L	ND	1.0	06/06/13 16:30	
Methylene chloride	ug/L	ND	1.0	06/06/13 16:30	
Tetrachloroethene	ug/L	ND	1.0	06/06/13 16:30	
Toluene	ug/L	ND	1.0	06/06/13 16:30	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/06/13 16:30	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/06/13 16:30	
Trichloroethene	ug/L	ND	1.0	06/06/13 16:30	
Trichlorofluoromethane	ug/L	ND	1.0	06/06/13 16:30	
Vinyl chloride	ug/L	ND	1.0	06/06/13 16:30	
Xylene (Total)	ug/L	ND	3.0	06/06/13 16:30	
1,2-Dichloroethane-d4 (S)	%	102	80-120	06/06/13 16:30	
4-Bromofluorobenzene (S)	%	99	80-120	06/06/13 16:30	
Dibromofluoromethane (S)	%	108	80-120	06/06/13 16:30	
Toluene-d8 (S)	%	101	80-120	06/06/13 16:30	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

LABORATORY CONTROL SAMPLE: 1199820

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.3	102	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.8	94	59-138	
1,1,2-Trichloroethane	ug/L	20	20.0	100	69-127	
1,1-Dichloroethane	ug/L	20	18.5	92	69-126	
1,1-Dichloroethene	ug/L	20	20.9	104	65-153	
1,2-Dichlorobenzene	ug/L	20	18.7	94	66-126	
1,2-Dichloroethane	ug/L	20	20.3	101	71-129	
1,2-Dichloropropane	ug/L	20	20.8	104	66-140	
1,3-Dichlorobenzene	ug/L	20	19.1	96	63-127	
1,4-Dichlorobenzene	ug/L	20	18.6	93	68-124	
2-Chloroethylvinyl ether	ug/L	20	17.3	86	33-159	
Benzene	ug/L	20	19.8	99	73-129	
Bromodichloromethane	ug/L	20	19.6	98	63-129	
Bromoform	ug/L	20	18.7	94	52-123	
Bromomethane	ug/L	20	26.3	131	10-160	
Carbon tetrachloride	ug/L	20	19.8	99	70-140	
Chlorobenzene	ug/L	20	19.4	97	68-127	
Chloroethane	ug/L	20	17.6	88	42-160	
Chloroform	ug/L	20	19.3	97	60-120	
Chloromethane	ug/L	20	18.4	92	10-160	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	70-125	
cis-1,3-Dichloropropene	ug/L	20	20.2	101	66-132	
Dibromochloromethane	ug/L	20	20.1	101	63-134	
Ethylbenzene	ug/L	20	19.5	98	66-133	
Methylene chloride	ug/L	20	19.6	98	56-135	
Tetrachloroethene	ug/L	20	20.6	103	64-143	
Toluene	ug/L	20	19.9	100	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.0	100	67-149	
trans-1,3-Dichloropropene	ug/L	20	21.7	109	66-138	
Trichloroethene	ug/L	20	19.8	99	71-130	
Trichlorofluoromethane	ug/L	20	17.2	86	58-158	
Vinyl chloride	ug/L	20	19.5	98	41-160	
Xylene (Total)	ug/L	60	58.3	97	67-130	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			100	80-120	
Dibromofluoromethane (S)	%			96	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1199821

Parameter	Units	60145828001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4010	100	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3780	94	46-157	
1,1,2-Trichloroethane	ug/L	ND	4000	3930	98	52-150	
1,1-Dichloroethane	ug/L	ND	4000	3600	90	59-155	
1,1-Dichloroethene	ug/L	ND	4000	3840	96	14-160	
1,2-Dichlorobenzene	ug/L	ND	4000	3640	91	18-145	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

MATRIX SPIKE SAMPLE:		1199821						
Parameter	Units	60145828001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,2-Dichloroethane	ug/L	ND	4000	3850	96	49-155		
1,2-Dichloropropane	ug/L	ND	4000	3940	99	12-160		
1,3-Dichlorobenzene	ug/L	ND	4000	3710	93	59-146		
1,4-Dichlorobenzene	ug/L	ND	4000	3630	90	18-147		
2-Chloroethylvinyl ether	ug/L	ND	4000	4900	123	10-160		
Benzene	ug/L	ND	4000	3870	97	37-151		
Bromodichloromethane	ug/L	ND	4000	3710	93	35-155		
Bromoform	ug/L	ND	4000	3560	89	45-133		
Bromomethane	ug/L	ND	4000	3550	89	10-160		
Carbon tetrachloride	ug/L	ND	4000	3900	98	70-140		
Chlorobenzene	ug/L	ND	4000	3770	94	37-153		
Chloroethane	ug/L	ND	4000	3180	79	14-160		
Chloroform	ug/L	ND	4000	3730	93	51-138		
Chloromethane	ug/L	ND	4000	3590	90	10-160		
cis-1,2-Dichloroethene	ug/L	ND	4000	3770	94	19-160		
cis-1,3-Dichloropropene	ug/L	ND	4000	3990	100	10-160		
Dibromochloromethane	ug/L	ND	4000	3810	95	53-149		
Ethylbenzene	ug/L	ND	4000	3770	94	37-154		
Methylene chloride	ug/L	ND	4000	4480	108	15-156		
Tetrachloroethene	ug/L	ND	4000	3910	98	64-148		
Toluene	ug/L	ND	4000	3800	95	47-150		
trans-1,2-Dichloroethene	ug/L	ND	4000	3860	96	54-156		
trans-1,3-Dichloropropene	ug/L	ND	4000	4220	106	17-160		
Trichloroethene	ug/L	ND	4000	3810	95	71-157		
Trichlorofluoromethane	ug/L	ND	4000	3500	88	17-160		
Vinyl chloride	ug/L	ND	4000	3780	95	10-160		
Xylene (Total)	ug/L	ND	12000	11200	93	12-153		
1,2-Dichloroethane-d4 (S)	%				104	80-120		
4-Bromofluorobenzene (S)	%				101	80-120		
Dibromofluoromethane (S)	%				97	80-120		
Toluene-d8 (S)	%				99	80-120		
Preservation pH			7.0		7.0			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

QC Batch: OEXT/38728

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60146110001

METHOD BLANK: 1199749

Matrix: Water

Associated Lab Samples: 60146110001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/07/13 16:16	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/07/13 16:16	
2,4-Dichlorophenol	ug/L	ND	5.0	06/07/13 16:16	
2,4-Dimethylphenol	ug/L	ND	5.0	06/07/13 16:16	
2,4-Dinitrophenol	ug/L	ND	50.0	06/07/13 16:16	
2,4-Dinitrotoluene	ug/L	ND	6.0	06/07/13 16:16	
2,6-Dinitrotoluene	ug/L	ND	5.0	06/07/13 16:16	
2-Chloronaphthalene	ug/L	ND	5.0	06/07/13 16:16	
2-Chlorophenol	ug/L	ND	5.0	06/07/13 16:16	
2-Nitrophenol	ug/L	ND	5.0	06/07/13 16:16	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	06/07/13 16:16	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/07/13 16:16	
4-Bromophenylphenyl ether	ug/L	ND	5.0	06/07/13 16:16	
4-Chloro-3-methylphenol	ug/L	ND	5.0	06/07/13 16:16	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	06/07/13 16:16	
4-Nitrophenol	ug/L	ND	5.0	06/07/13 16:16	
Acenaphthene	ug/L	ND	5.0	06/07/13 16:16	
Acenaphthylene	ug/L	ND	5.0	06/07/13 16:16	
Anthracene	ug/L	ND	5.0	06/07/13 16:16	
Benzidine	ug/L	ND	50.0	06/07/13 16:16	
Benzo(a)anthracene	ug/L	ND	5.0	06/07/13 16:16	
Benzo(a)pyrene	ug/L	ND	5.0	06/07/13 16:16	
Benzo(b)fluoranthene	ug/L	ND	5.0	06/07/13 16:16	
Benzo(g,h,i)perylene	ug/L	ND	5.0	06/07/13 16:16	
Benzo(k)fluoranthene	ug/L	ND	5.0	06/07/13 16:16	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	06/07/13 16:16	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	06/07/13 16:16	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	06/07/13 16:16	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	06/07/13 16:16	
Butylbenzylphthalate	ug/L	ND	5.0	06/07/13 16:16	
Chrysene	ug/L	ND	5.0	06/07/13 16:16	
Di-n-butylphthalate	ug/L	ND	5.0	06/07/13 16:16	
Di-n-octylphthalate	ug/L	ND	5.0	06/07/13 16:16	
Dibenz(a,h)anthracene	ug/L	ND	5.0	06/07/13 16:16	
Diethylphthalate	ug/L	ND	5.0	06/07/13 16:16	
Dimethylphthalate	ug/L	ND	5.0	06/07/13 16:16	
Fluoranthene	ug/L	ND	5.0	06/07/13 16:16	
Fluorene	ug/L	ND	5.0	06/07/13 16:16	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/07/13 16:16	
Hexachlorobenzene	ug/L	ND	5.0	06/07/13 16:16	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/07/13 16:16	
Hexachloroethane	ug/L	ND	5.0	06/07/13 16:16	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	06/07/13 16:16	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD

Project No.: 60146110

METHOD BLANK: 1199749

Matrix: Water

Associated Lab Samples: 60146110001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	06/07/13 16:16	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	06/07/13 16:16	
N-Nitrosodimethylamine	ug/L	ND	5.0	06/07/13 16:16	
N-Nitrosodiphenylamine	ug/L	ND	5.0	06/07/13 16:16	
Naphthalene	ug/L	ND	5.0	06/07/13 16:16	
Nitrobenzene	ug/L	ND	5.0	06/07/13 16:16	
Pentachlorophenol	ug/L	ND	5.0	06/07/13 16:16	
Phenanthrene	ug/L	ND	5.0	06/07/13 16:16	
Phenol	ug/L	ND	5.0	06/07/13 16:16	
Pyrene	ug/L	ND	5.0	06/07/13 16:16	
2,4,6-Tribromophenol (S)	%	81	39-119	06/07/13 16:16	
2-Fluorobiphenyl (S)	%	80	36-120	06/07/13 16:16	
2-Fluorophenol (S)	%	44	18-120	06/07/13 16:16	
Nitrobenzene-d5 (S)	%	74	32-120	06/07/13 16:16	
Phenol-d6 (S)	%	28	12-120	06/07/13 16:16	
Terphenyl-d14 (S)	%	79	44-120	06/07/13 16:16	

LABORATORY CONTROL SAMPLE: 1199750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	38.4	77	44-120	
2,4,6-Trichlorophenol	ug/L	50	42.6	85	48-120	
2,4-Dichlorophenol	ug/L	50	37.7	75	48-120	
2,4-Dimethylphenol	ug/L	50	35.0	70	37-119	
2,4-Dinitrophenol	ug/L	50	40.6J	81	15-153	
2,4-Dinitrotoluene	ug/L	50	43.6	87	54-120	
2,6-Dinitrotoluene	ug/L	50	43.3	87	52-120	
2-Chloronaphthalene	ug/L	50	41.5	83	60-118	
2-Chlorophenol	ug/L	50	36.3	73	44-120	
2-Nitrophenol	ug/L	50	40.3	81	43-120	
3,3'-Dichlorobenzidine	ug/L	50	50.8	102	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	45.1	90	31-147	
4-Bromophenylphenyl ether	ug/L	50	40.1	80	53-120	
4-Chloro-3-methylphenol	ug/L	50	39.5	79	50-120	
4-Chlorophenylphenyl ether	ug/L	50	42.0	84	54-120	
4-Nitrophenol	ug/L	50	17.0	34	10-120	
Acenaphthene	ug/L	50	42.0	84	51-120	
Acenaphthylene	ug/L	50	41.5	83	51-120	
Anthracene	ug/L	50	41.6	83	54-120	
Benzidine	ug/L	50	23.9J	48	1-124	
Benzo(a)anthracene	ug/L	50	41.2	82	54-120	
Benzo(a)pyrene	ug/L	50	42.7	85	54-120	
Benzo(b)fluoranthene	ug/L	50	41.1	82	57-120	
Benzo(g,h,i)perylene	ug/L	50	43.4	87	54-120	
Benzo(k)fluoranthene	ug/L	50	45.0	90	52-121	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

LABORATORY CONTROL SAMPLE: 1199750

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	50	39.5	79	51-120	
bis(2-Chloroethyl) ether	ug/L	50	38.3	77	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	40.0	80	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	42.3	85	51-126	
Butylbenzylphthalate	ug/L	50	44.6	89	45-129	
Chrysene	ug/L	50	41.9	84	54-120	
Di-n-butylphthalate	ug/L	50	43.3	87	57-118	
Di-n-octylphthalate	ug/L	50	44.8	90	48-130	
Dibenz(a,h)anthracene	ug/L	50	43.5	87	56-119	
Diethylphthalate	ug/L	50	43.8	88	55-114	
Dimethylphthalate	ug/L	50	42.5	85	54-112	
Fluoranthene	ug/L	50	42.0	84	56-120	
Fluorene	ug/L	50	42.0	84	59-120	
Hexachloro-1,3-butadiene	ug/L	50	36.6	73	41-116	
Hexachlorobenzene	ug/L	50	41.9	84	53-120	
Hexachlorocyclopentadiene	ug/L	100	67.3	67	31-120	
Hexachloroethane	ug/L	50	36.0	72	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	42.3	85	55-120	
Isophorone	ug/L	50	39.5	79	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	38.6	77	47-120	
N-Nitrosodimethylamine	ug/L	50	25.4	51	28-120	
N-Nitrosodiphenylamine	ug/L	50	41.8	84	53-120	
Naphthalene	ug/L	50	39.2	78	48-120	
Nitrobenzene	ug/L	50	39.4	79	47-120	
Pentachlorophenol	ug/L	50	42.9	86	43-127	
Phenanthrene	ug/L	50	42.1	84	55-120	
Phenol	ug/L	50	16.2	32	15-112	
Pyrene	ug/L	50	43.3	87	55-115	
2,4,6-Tribromophenol (S)	%			83	39-119	
2-Fluorobiphenyl (S)	%			83	36-120	
2-Fluorophenol (S)	%			46	18-120	
Nitrobenzene-d5 (S)	%			78	32-120	
Phenol-d6 (S)	%			30	12-120	
Terphenyl-d14 (S)	%			85	44-120	

MATRIX SPIKE SAMPLE: 1199751

Parameter	Units	60146085001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	36.7	73	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	42.6	85	37-121	
2,4-Dichlorophenol	ug/L	ND	50	37.8	76	39-120	
2,4-Dimethylphenol	ug/L	ND	50	33.9	68	32-119	
2,4-Dinitrophenol	ug/L	ND	50	29.2J	58	20-157	
2,4-Dinitrotoluene	ug/L	ND	50	42.3	85	39-130	
2,6-Dinitrotoluene	ug/L	ND	50	41.4	83	50-128	
2-Chloronaphthalene	ug/L	ND	50	40.4	81	60-118	
2-Chlorophenol	ug/L	ND	50	36.1	72	35-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

MATRIX SPIKE SAMPLE:		1199751						
Parameter	Units	60146085001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
2-Nitrophenol	ug/L	ND	50	38.7	77	29-123		
3,3'-Dichlorobenzidine	ug/L	ND	50	37.0	74	10-160		
4,6-Dinitro-2-methylphenol	ug/L	ND	50	33.2	66	27-146		
4-Bromophenylphenyl ether	ug/L	ND	50	41.7	83	53-124		
4-Chloro-3-methylphenol	ug/L	ND	50	39.1	74	33-123		
4-Chlorophenylphenyl ether	ug/L	ND	50	41.0	82	34-125		
4-Nitrophenol	ug/L	ND	50	17.3	35	10-120		
Acenaphthene	ug/L	ND	50	40.6	81	47-120		
Acenaphthylene	ug/L	ND	50	39.5	79	33-120		
Anthracene	ug/L	ND	50	40.8	82	36-121		
Benzidine	ug/L	ND	50	3.2J	6	1-120		
Benzo(a)anthracene	ug/L	ND	50	42.2	84	37-127		
Benzo(a)pyrene	ug/L	ND	50	42.6	85	34-125		
Benzo(b)fluoranthene	ug/L	ND	50	46.4	93	37-131		
Benzo(g,h,i)perylene	ug/L	ND	50	41.7	83	35-128		
Benzo(k)fluoranthene	ug/L	ND	50	43.2	86	34-130		
bis(2-Chloroethoxy)methane	ug/L	ND	50	37.3	75	33-120		
bis(2-Chloroethyl) ether	ug/L	ND	50	38.7	77	32-120		
bis(2-Chloroisopropyl) ether	ug/L	ND	50	39.2	78	36-120		
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	45.9	92	38-137		
Butylbenzylphthalate	ug/L	ND	50	47.0	94	43-136		
Chrysene	ug/L	ND	50	43.6	87	36-127		
Di-n-butylphthalate	ug/L	ND	50	42.8	86	38-118		
Di-n-octylphthalate	ug/L	ND	50	50.6	101	40-140		
Dibenz(a,h)anthracene	ug/L	ND	50	41.8	84	35-131		
Diethylphthalate	ug/L	ND	50	42.4	85	33-114		
Dimethylphthalate	ug/L	ND	50	40.0	80	34-112		
Fluoranthene	ug/L	ND	50	41.0	82	38-125		
Fluorene	ug/L	ND	50	41.3	83	59-121		
Hexachloro-1,3-butadiene	ug/L	ND	50	35.1	70	27-116		
Hexachlorobenzene	ug/L	ND	50	40.9	82	34-124		
Hexachlorocyclopentadiene	ug/L	ND	100	63.6	64	11-120		
Hexachloroethane	ug/L	ND	50	35.1	70	40-113		
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	40.9	82	38-127		
Isophorone	ug/L	ND	50	37.3	75	31-120		
N-Nitroso-di-n-propylamine	ug/L	ND	50	38.8	78	30-120		
N-Nitrosodimethylamine	ug/L	ND	50	23.2	46	29-120		
N-Nitrosodiphenylamine	ug/L	ND	50	41.9	84	10-139		
Naphthalene	ug/L	ND	50	37.2	74	32-120		
Nitrobenzene	ug/L	ND	50	38.9	78	35-128		
Pentachlorophenol	ug/L	ND	50	45.3	91	38-133		
Phenanthrene	ug/L	ND	50	41.9	84	54-120		
Phenol	ug/L	ND	50	15.7	31	13-112		
Pyrene	ug/L	ND	50	46.2	92	52-115		
2,4,6-Tribromophenol (S)	%				86	39-119		
2-Fluorobiphenyl (S)	%				80	36-120		
2-Fluorophenol (S)	%				42	18-120		
Nitrobenzene-d5 (S)	%				71	32-120		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

MATRIX SPIKE SAMPLE:		1199751					
Parameter	Units	60146085001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenol-d6 (S)	%				28	12-120	
Terphenyl-d14 (S)	%				89	44-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

QC Batch: WET/41727

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60146110001

METHOD BLANK: 1201502

Matrix: Water

Associated Lab Samples: 60146110001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/08/13 08:58	

LABORATORY CONTROL SAMPLE: 1201503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.5	91	78-114	

MATRIX SPIKE SAMPLE: 1201504

Parameter	Units	60145934001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40	37.9	90	78-114	

SAMPLE DUPLICATE: 1201505

Parameter	Units	60145935001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	2J		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

QC Batch:	WET/41761	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60146110001		

METHOD BLANK: 1202425 Matrix: Water

Associated Lab Samples: 60146110001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/11/13 14:20	

LABORATORY CONTROL SAMPLE: 1202426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	20.7	104	64-132	

MATRIX SPIKE SAMPLE: 1202427

Parameter	Units	60146492001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.6	24.8	112	64-132	

SAMPLE DUPLICATE: 1202429

Parameter	Units	60146110001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	37.4	21.1	56	34	D6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

QC Batch: WET/41734

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60146110001

METHOD BLANK: 1201738

Matrix: Water

Associated Lab Samples: 60146110001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/08/13 13:03	

SAMPLE DUPLICATE: 1201739

Parameter	Units	60146392001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	25.0	27.0	8	25	

SAMPLE DUPLICATE: 1201740

Parameter	Units	60146007001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	9.0	11.0	20	25	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

QC Batch: WET/41723 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60146110001

SAMPLE DUPLICATE: 1201207

Parameter	Units	10230566001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	3.7	3.7	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

QC Batch:	WETA/24997	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60146110001		

METHOD BLANK: 1199893 Matrix: Water

Associated Lab Samples: 60146110001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/06/13 15:19	

LABORATORY CONTROL SAMPLE: 1199894

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

MATRIX SPIKE SAMPLE: 1199895

Parameter	Units	60145896003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.0	96	90-110	

MATRIX SPIKE SAMPLE: 1199896

Parameter	Units	60146137001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.3	66	90-110	M1

SAMPLE DUPLICATE: 1199897

Parameter	Units	60145886006 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	297	291	2	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

QC Batch: WETA/25048 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60146110001

METHOD BLANK: 1202486 Matrix: Water

Associated Lab Samples: 60146110001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/12/13 08:42	

LABORATORY CONTROL SAMPLE: 1202487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.0	100	90-110	

MATRIX SPIKE SAMPLE: 1202488

Parameter	Units	60145795001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	119	50	163	87	90-110	M1

MATRIX SPIKE SAMPLE: 1202490

Parameter	Units	60145795005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	104	50	148	89	90-110	M1

SAMPLE DUPLICATE: 1202489

Parameter	Units	60145795003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	24.2	25.0	3	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

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.
- 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.
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 179/181-MSD

Pace Project No.: 60146110

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60146110001	179/181-MSD	EPA 200.7	MPRP/22941	EPA 200.7	ICP/18139
60146110001	179/181-MSD	EPA 200.7	MPRP/22958	EPA 200.7	ICP/18149
60146110001	179/181-MSD	EPA 245.1	MERP/7409	EPA 245.1	MERC/7363
60146110001	179/181-MSD	EPA 245.1	MERP/7414	EPA 245.1	MERC/7370
60146110001	179/181-MSD	EPA 625	OEXT/38728	EPA 625	MSSV/12259
60146110001	179/181-MSD	EPA 624 Low	MSV/54149		
60146110002	TRIP BLANK	EPA 624 Low	MSV/54149		
60146110001	179/181-MSD	EPA 1664A	WET/41727		
60146110001	179/181-MSD	EPA 1664A	WET/41761		
60146110001	179/181-MSD	SM 2540D	WET/41734		
60146110001	179/181-MSD	SM 4500-H+B	WET/41723		
60146110001	179/181-MSD	EPA 350.1	WETA/24997		
60146110001	179/181-MSD	EPA 410.4	WETA/25048		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60146110

60146110

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 2PLC

Thermometer Used: T-112 / T-194 Type of Ice: Ice Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 2.4

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: 6-5-13 BA

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>pH</u>	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
Containers intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.	
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Includes date/time/ID/analyses	Matrix: <u>wt</u>	13.	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>Metals container pH is 6.0 after I added 2.5 ml 12M3 still 6.0. Ammonia container pH 6.0 added 2.0 mL H2SO4 pH 3.0</u>	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Exceptions: VOA, coliform, TOC <u>O&G</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>BA</u>	Lot # of added preservative
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank lot # (if purchased):		15.	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:	

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Date: 6/5/13



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: TABITHA PROVINCE
 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

ITEM#	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test Y/N	Requested Analysis Filtered (Y/N)															Residual Chlorine (Y/N)					
				DATE	TIME	DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		COD EPA 410	pH SM 4500H+B	LF DIS. METALS 200.7/245	TOTAL METALS 200.7/245	AMMONIA EPA 350	OIG EPA 1664	625 SVOCs	VOCs EPA 624	TSS SM 2540D	TPH 1664											
1	3AG1U 3AG1H 179/181-MSD 18P2M 18P3M 18P3S	OT	BC	6/3/13	1350	6/3/13	1508	58	6	1	1	2	18P3M	58	94	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	METALS LIST total & LF Dis. <i>cut</i>
2	TRIP BLANK							2	2						20																					Al, Sb, As, Be, Cd, Cr, <i>or</i>			
3																																			Co, Cu, Fe, Pb, Ni, Se, Ag, Tl, Zn				
4																																			and Mercury				
5																																							
6																																							
7																																							
8																																							
9																																							
10																																							
11																																							
12																																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
SITE CONTACT: BILL ABERNATHY 314-502-1299	<i>William Abernathy</i>	6/4/13	1652	<i>Bill Abernathy</i> 554	6/4	1652					
SITE ADDRESS: BRIDGETON LF				<i>Bill Abernathy</i> IPACE	6-5-13	0215	2.4	Y	Y	Y	
13570 ST. CHARLES ROCK RD											
BRIDGETON MO 63044											

SAMPLER NAME AND SIGNATURE				TEMP. in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:							
SIGNATURE of SAMPLER: <i>William Abernathy</i> DATE signed: 6/4/13							

June 12, 2013

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

RE: Project: BRIDGETON LF 184-MSD
Pace Project No.: 60146251

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 06, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146251

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA 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 184-MSD

Pace Project No.: 60146251

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60146251001	184-MSD	Water	06/05/13 08:52	06/06/13 01:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146251

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60146251001	184-MSD	SM 5210B	NDL	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146251

Sample: 184-MSD	Lab ID: 60146251001	Collected: 06/05/13 08:52	Received: 06/06/13 01:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day								
Analytical Method: SM 5210B Preparation Method: SM 5210B								
BOD, 5 day	32100	mg/L	2.0	1	06/06/13 17:18	06/11/13 14:02		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146251

QC Batch: WET/41697

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60146251001

METHOD BLANK: 1200355

Matrix: Water

Associated Lab Samples: 60146251001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/11/13 13:42	

LABORATORY CONTROL SAMPLE: 1200356

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	210	106	85-115	

SAMPLE DUPLICATE: 1200357

Parameter	Units	60146232001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	609	585	4	17	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146251

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146251

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60146251001	184-MSD	SM 5210B	WET/41697	SM 5210B	WET/41779

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60146251



Client Name: Barr Engineering

Courier: Fed Ex UPS USPS Client Commercial Pace Other X-Box

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 Ice

Thermometer Used: T-112 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 1.2

Date and initials of person examining contents: 6/6/13 [Signature]

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses	Matrix: <u>WW</u>	13.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed <u>[Signature]</u> Lot # of added preservative <u>12510</u>
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased):	_____	15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
		16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:

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: 6/5

June 13, 2013

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

RE: Project: BRIDGETON LF 184-MSD
Pace Project No.: 60146252

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 06, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA 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 184-MSD

Pace Project No.: 60146252

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60146252001	184-MSD	Water	06/05/13 08:52	06/06/13 01:30
60146252002	TRIP BLANK	Water	06/05/13 08:52	06/06/13 01:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60146252001	184-MSD	EPA 200.7	SMW	15
		EPA 200.7	SMW	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	59
		EPA 624 Low	JKL	38
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	JML	1
		SM 4500-H+B	JML	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
		60146252002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

Sample: 184-MSD		Lab ID: 60146252001	Collected: 06/05/13 08:52	Received: 06/06/13 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	12900 ug/L		150	2	06/07/13 14:30	06/11/13 13:50	7429-90-5	
Antimony	ND ug/L		50.0	5	06/07/13 14:30	06/11/13 13:54	7440-36-0	
Arsenic	644 ug/L		50.0	5	06/07/13 14:30	06/11/13 13:54	7440-38-2	
Beryllium	ND ug/L		2.0	2	06/07/13 14:30	06/11/13 13:50	7440-41-7	D3
Cadmium	ND ug/L		25.0	5	06/07/13 14:30	06/11/13 13:54	7440-43-9	D3
Chromium	260 ug/L		25.0	5	06/07/13 14:30	06/11/13 13:54	7440-47-3	
Cobalt	48.7 ug/L		25.0	5	06/07/13 14:30	06/11/13 13:54	7440-48-4	
Copper	ND ug/L		20.0	2	06/07/13 14:30	06/11/13 13:50	7440-50-8	
Iron	878000 ug/L		100	2	06/07/13 14:30	06/11/13 13:50	7439-89-6	
Lead	194 ug/L		25.0	5	06/07/13 14:30	06/11/13 13:54	7439-92-1	
Nickel	125 ug/L		25.0	5	06/07/13 14:30	06/11/13 13:54	7440-02-0	
Selenium	ND ug/L		75.0	5	06/07/13 14:30	06/11/13 13:54	7782-49-2	
Silver	21.0 ug/L		14.0	2	06/07/13 14:30	06/11/13 13:50	7440-22-4	
Thallium	ND ug/L		100	5	06/07/13 14:30	06/11/13 13:54	7440-28-0	
Zinc	14800 ug/L		250	5	06/07/13 14:30	06/11/13 13:54	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	4490 ug/L		150	2	06/11/13 13:30	06/12/13 10:57	7429-90-5	
Antimony, Dissolved	38.7 ug/L		20.0	2	06/11/13 13:30	06/12/13 10:57	7440-36-0	D9
Arsenic, Dissolved	573 ug/L		20.0	2	06/11/13 13:30	06/12/13 10:57	7440-38-2	
Beryllium, Dissolved	ND ug/L		2.0	2	06/11/13 13:30	06/12/13 10:57	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		10.0	2	06/11/13 13:30	06/12/13 10:57	7440-43-9	
Chromium, Dissolved	222 ug/L		25.0	5	06/11/13 13:30	06/12/13 11:01	7440-47-3	
Cobalt, Dissolved	34.5 ug/L		10.0	2	06/11/13 13:30	06/12/13 10:57	7440-48-4	
Copper, Dissolved	ND ug/L		20.0	2	06/11/13 13:30	06/12/13 10:57	7440-50-8	
Iron, Dissolved	714000 ug/L		100	2	06/11/13 13:30	06/12/13 10:57	7439-89-6	M1
Lead, Dissolved	86.9 ug/L		10.0	2	06/11/13 13:30	06/12/13 10:57	7439-92-1	
Nickel, Dissolved	91.5 ug/L		10.0	2	06/11/13 13:30	06/12/13 10:57	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	5	06/11/13 13:30	06/12/13 11:01	7782-49-2	
Silver, Dissolved	16.5 ug/L		14.0	2	06/11/13 13:30	06/12/13 10:57	7440-22-4	M1,R1
Thallium, Dissolved	ND ug/L		100	5	06/11/13 13:30	06/12/13 11:01	7440-28-0	D3
Zinc, Dissolved	13100 ug/L		100	2	06/11/13 13:30	06/12/13 10:57	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	3.8 ug/L		0.20	1	06/07/13 12:00	06/10/13 12:22	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		0.20	1	06/12/13 16:30	06/12/13 09:24	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	83-32-9	
Acenaphthylene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	208-96-8	
Anthracene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	120-12-7	
Benzidine	ND ug/L		10000	20	06/07/13 00:00	06/10/13 12:47	92-87-5	
Benzo(a)anthracene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	56-55-3	
Benzo(a)pyrene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

Sample: 184-MSD	Lab ID: 60146252001	Collected: 06/05/13 08:52	Received: 06/06/13 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						
Benzo(b)fluoranthene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	191-24-2	
Benzo(k)fluoranthene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	207-08-9	
4-Bromophenylphenyl ether	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	101-55-3	
Butylbenzylphthalate	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	85-68-7	
4-Chloro-3-methylphenol	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	59-50-7	
bis(2-Chloroethoxy)methane	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		1200	20	06/07/13 00:00	06/10/13 12:47	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		1200	20	06/07/13 00:00	06/10/13 12:47	39638-32-9	
2-Chloronaphthalene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	91-58-7	
2-Chlorophenol	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	7005-72-3	
Chrysene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	53-70-3	
3,3'-Dichlorobenzidine	ND ug/L		4000	20	06/07/13 00:00	06/10/13 12:47	91-94-1	
2,4-Dichlorophenol	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	120-83-2	
Diethylphthalate	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	84-66-2	
2,4-Dimethylphenol	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	105-67-9	
Dimethylphthalate	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	131-11-3	
Di-n-butylphthalate	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		5000	20	06/07/13 00:00	06/10/13 12:47	534-52-1	
2,4-Dinitrophenol	ND ug/L		10000	20	06/07/13 00:00	06/10/13 12:47	51-28-5	
2,4-Dinitrotoluene	ND ug/L		1200	20	06/07/13 00:00	06/10/13 12:47	121-14-2	
2,6-Dinitrotoluene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	606-20-2	
Di-n-octylphthalate	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	117-81-7	
Fluoranthene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	206-44-0	
Fluorene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	87-68-3	
Hexachlorobenzene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	77-47-4	
Hexachloroethane	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	193-39-5	
Isophorone	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	78-59-1	
Naphthalene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	91-20-3	
Nitrobenzene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	98-95-3	
2-Nitrophenol	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	88-75-5	
4-Nitrophenol	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	100-02-7	
N-Nitrosodimethylamine	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	86-30-6	
Pentachlorophenol	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	87-86-5	
Phenanthrene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	85-01-8	
Phenol	14200 ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	108-95-2	
Pyrene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		1000	20	06/07/13 00:00	06/10/13 12:47	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

Sample: 184-MSD		Lab ID: 60146252001	Collected: 06/05/13 08:52	Received: 06/06/13 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						
Surrogates								
Nitrobenzene-d5 (S)	0 %		32-120	20	06/07/13 00:00	06/10/13 12:47	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	20	06/07/13 00:00	06/10/13 12:47	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	20	06/07/13 00:00	06/10/13 12:47	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	20	06/07/13 00:00	06/10/13 12:47	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	20	06/07/13 00:00	06/10/13 12:47	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	20	06/07/13 00:00	06/10/13 12:47	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		06/12/13 12:31	71-43-2	
Bromodichloromethane	ND ug/L		200	200		06/12/13 12:31	75-27-4	
Bromoform	ND ug/L		200	200		06/12/13 12:31	75-25-2	
Bromomethane	ND ug/L		1000	200		06/12/13 12:31	74-83-9	
Carbon tetrachloride	ND ug/L		200	200		06/12/13 12:31	56-23-5	
Chlorobenzene	ND ug/L		200	200		06/12/13 12:31	108-90-7	
Chloroethane	ND ug/L		200	200		06/12/13 12:31	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		06/12/13 12:31	110-75-8	
Chloroform	ND ug/L		200	200		06/12/13 12:31	67-66-3	
Chloromethane	ND ug/L		200	200		06/12/13 12:31	74-87-3	
Dibromochloromethane	ND ug/L		200	200		06/12/13 12:31	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		06/12/13 12:31	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		06/12/13 12:31	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		06/12/13 12:31	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		06/12/13 12:31	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		06/12/13 12:31	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		06/12/13 12:31	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		06/12/13 12:31	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		06/12/13 12:31	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		06/12/13 12:31	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		06/12/13 12:31	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		06/12/13 12:31	10061-02-6	
Ethylbenzene	ND ug/L		200	200		06/12/13 12:31	100-41-4	
Methylene chloride	ND ug/L		200	200		06/12/13 12:31	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		06/12/13 12:31	79-34-5	
Tetrachloroethene	ND ug/L		200	200		06/12/13 12:31	127-18-4	
Toluene	ND ug/L		200	200		06/12/13 12:31	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		06/12/13 12:31	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		06/12/13 12:31	79-00-5	
Trichloroethene	ND ug/L		200	200		06/12/13 12:31	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		06/12/13 12:31	75-69-4	
Vinyl chloride	ND ug/L		200	200		06/12/13 12:31	75-01-4	
Xylene (Total)	ND ug/L		600	200		06/12/13 12:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98 %		80-120	200		06/12/13 12:31	1868-53-7	D3
4-Bromofluorobenzene (S)	99 %		80-120	200		06/12/13 12:31	460-00-4	
Toluene-d8 (S)	98 %		80-120	200		06/12/13 12:31	2037-26-5	
1,2-Dichloroethane-d4 (S)	106 %		80-120	200		06/12/13 12:31	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

Sample: 184-MSD		Lab ID: 60146252001	Collected: 06/05/13 08:52	Received: 06/06/13 01:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Preservation pH	7.0		1.0	200		06/12/13 12:31		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	360	mg/L	5.0	1		06/11/13 10:05		
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	77.9	mg/L	5.0	1		06/11/13 14:21		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	1400	mg/L	5.0	1		06/11/13 13:04		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.5	Std. Units	0.10	1		06/08/13 10:30		H6
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	585	mg/L	20.0	200		06/06/13 16:33	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	45600	mg/L	5000	500		06/12/13 08:54		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

Sample: TRIP BLANK		Lab ID: 60146252002	Collected: 06/05/13 08:52	Received: 06/06/13 01:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		1.0	1		06/12/13 11:28	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/12/13 11:28	75-27-4	
Bromoform	ND ug/L		1.0	1		06/12/13 11:28	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/12/13 11:28	74-83-9	
Carbon tetrachloride	ND ug/L		1.0	1		06/12/13 11:28	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		06/12/13 11:28	108-90-7	
Chloroethane	ND ug/L		1.0	1		06/12/13 11:28	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		06/12/13 11:28	110-75-8	
Chloroform	ND ug/L		1.0	1		06/12/13 11:28	67-66-3	
Chloromethane	ND ug/L		1.0	1		06/12/13 11:28	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		06/12/13 11:28	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		06/12/13 11:28	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		06/12/13 11:28	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/12/13 11:28	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		06/12/13 11:28	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		06/12/13 11:28	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		06/12/13 11:28	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/12/13 11:28	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/12/13 11:28	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		06/12/13 11:28	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		06/12/13 11:28	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		06/12/13 11:28	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		06/12/13 11:28	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/12/13 11:28	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/12/13 11:28	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		06/12/13 11:28	127-18-4	
Toluene	ND ug/L		1.0	1		06/12/13 11:28	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/12/13 11:28	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/12/13 11:28	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/12/13 11:28	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		06/12/13 11:28	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		06/12/13 11:28	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/12/13 11:28	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101 %		80-120	1		06/12/13 11:28	1868-53-7	
4-Bromofluorobenzene (S)	98 %		80-120	1		06/12/13 11:28	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		06/12/13 11:28	2037-26-5	
1,2-Dichloroethane-d4 (S)	110 %		80-120	1		06/12/13 11:28	17060-07-0	
Preservation pH	7.0		1.0	1		06/12/13 11:28		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD
Pace Project No.: 60146252

QC Batch: MERP/7409 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60146252001

METHOD BLANK: 1200936 Matrix: Water
Associated Lab Samples: 60146252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/10/13 11:51	

LABORATORY CONTROL SAMPLE: 1200937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1200938 1200939

Parameter	60146018001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
	Units	Result	Conc.	Conc.								
Mercury	ug/L	ND	5	5	2.4	2.7	45	50	70-130	11	20	M1

MATRIX SPIKE SAMPLE: 1200940

Parameter	Units	60146110001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L		2.9	5	3.9	19	70-130 M1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

QC Batch: MERP/7421

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60146252001

METHOD BLANK: 1202859

Matrix: Water

Associated Lab Samples: 60146252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/12/13 09:19	

LABORATORY CONTROL SAMPLE: 1202860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1202861

1202862

Parameter	Units	60146488001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Mercury, Dissolved	ug/L	ND	5	5	2.4	3.0	49	59	70-130	19	20	M1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

QC Batch: MPRP/22980 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60146252001

METHOD BLANK: 1201050 Matrix: Water

Associated Lab Samples: 60146252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/11/13 11:58	
Antimony	ug/L	ND	10.0	06/11/13 11:58	
Arsenic	ug/L	ND	10.0	06/11/13 11:58	
Beryllium	ug/L	ND	1.0	06/11/13 11:58	
Cadmium	ug/L	ND	5.0	06/11/13 11:58	
Chromium	ug/L	ND	5.0	06/12/13 12:07	
Cobalt	ug/L	ND	5.0	06/11/13 11:58	
Copper	ug/L	ND	10.0	06/11/13 11:58	
Iron	ug/L	ND	50.0	06/11/13 11:58	
Lead	ug/L	ND	5.0	06/13/13 13:51	
Nickel	ug/L	ND	5.0	06/11/13 11:58	
Selenium	ug/L	ND	15.0	06/11/13 11:58	
Silver	ug/L	ND	7.0	06/11/13 11:58	
Thallium	ug/L	ND	20.0	06/11/13 11:58	
Zinc	ug/L	ND	50.0	06/11/13 11:58	

LABORATORY CONTROL SAMPLE: 1201051

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10100	101	85-115	
Antimony	ug/L	1000	989	99	85-115	
Arsenic	ug/L	1000	973	97	85-115	
Beryllium	ug/L	1000	1010	101	85-115	
Cadmium	ug/L	1000	983	98	85-115	
Chromium	ug/L	1000	969	97	85-115	
Cobalt	ug/L	1000	996	100	85-115	
Copper	ug/L	1000	951	95	85-115	
Iron	ug/L	10000	9980	100	85-115	
Lead	ug/L	1000	1010	101	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	1000	100	85-115	
Silver	ug/L	500	483	97	85-115	
Thallium	ug/L	1000	1010	101	85-115	
Zinc	ug/L	1000	998	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1201052 1201053

Parameter	Units	60146169003 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Aluminum	ug/L	124	10000	10000	10200	10300	101	102	70-130	1	8

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

Parameter	Units	1201052		1201053		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		60146169003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Antimony	ug/L	ND	1000	1000	1000	995	100	100	70-130	1	7	
Arsenic	ug/L	ND	1000	1000	988	984	98	98	70-130	0	10	
Beryllium	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	7	
Cadmium	ug/L	ND	1000	1000	982	975	98	98	70-130	1	10	
Chromium	ug/L	ND	1000	1000	936	939	94	94	70-130	0	10	
Cobalt	ug/L	ND	1000	1000	957	950	96	95	70-130	1	6	
Copper	ug/L	ND	1000	1000	949	957	95	96	70-130	1	11	
Iron	ug/L	540	10000	10000	10300	10300	98	98	70-130	0	10	
Lead	ug/L	ND	1000	1000	965	964	96	96	70-130	0	10	
Nickel	ug/L	ND	1000	1000	980	973	98	97	70-130	1	10	
Selenium	ug/L	ND	1000	1000	1000	994	100	99	70-130	1	10	
Silver	ug/L	ND	500	500	484	487	97	97	70-130	1	10	
Thallium	ug/L	ND	1000	1000	959	955	96	95	70-130	0	6	
Zinc	ug/L	ND	1000	1000	948	943	95	94	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD
Pace Project No.: 60146252

QC Batch: MPRP/23021 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60146252001

METHOD BLANK: 1202672 Matrix: Water
Associated Lab Samples: 60146252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/12/13 10:54	
Antimony, Dissolved	ug/L	ND	10.0	06/12/13 10:54	
Arsenic, Dissolved	ug/L	ND	10.0	06/12/13 10:54	
Beryllium, Dissolved	ug/L	ND	1.0	06/12/13 10:54	
Cadmium, Dissolved	ug/L	ND	5.0	06/12/13 10:54	
Chromium, Dissolved	ug/L	ND	5.0	06/12/13 10:54	
Cobalt, Dissolved	ug/L	ND	5.0	06/12/13 10:54	
Copper, Dissolved	ug/L	ND	10.0	06/12/13 10:54	
Iron, Dissolved	ug/L	ND	50.0	06/12/13 10:54	
Lead, Dissolved	ug/L	ND	5.0	06/12/13 10:54	
Nickel, Dissolved	ug/L	ND	5.0	06/12/13 10:54	
Selenium, Dissolved	ug/L	ND	15.0	06/12/13 10:54	
Silver, Dissolved	ug/L	ND	7.0	06/12/13 10:54	
Thallium, Dissolved	ug/L	ND	20.0	06/12/13 10:54	
Zinc, Dissolved	ug/L	ND	50.0	06/12/13 10:54	

LABORATORY CONTROL SAMPLE: 1202673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10400	104	85-115	
Antimony, Dissolved	ug/L	1000	997	100	85-115	
Arsenic, Dissolved	ug/L	1000	981	98	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	992	99	85-115	
Chromium, Dissolved	ug/L	1000	985	98	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	989	99	85-115	
Iron, Dissolved	ug/L	10000	10600	106	85-115	
Lead, Dissolved	ug/L	1000	999	100	85-115	
Nickel, Dissolved	ug/L	1000	1030	103	85-115	
Selenium, Dissolved	ug/L	1000	1000	100	85-115	
Silver, Dissolved	ug/L	500	478	96	85-115	
Thallium, Dissolved	ug/L	1000	1030	103	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1202674 1202675

Parameter	Units	60146252001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Aluminum, Dissolved	ug/L	4490	10000	10000	10000	15500	15200	110	107	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

Parameter	60146252001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Antimony, Dissolved	ug/L	38.7	1000	1000	1090	1080	105	104	70-130	1	7		
Arsenic, Dissolved	ug/L	573	1000	1000	1800	1760	123	119	70-130	2	10		
Beryllium, Dissolved	ug/L	ND	1000	1000	976	955	98	95	70-130	2	7		
Cadmium, Dissolved	ug/L	ND	1000	1000	1130	1100	113	110	70-130	2	10		
Chromium, Dissolved	ug/L	222	1000	1000	1210	1170	99	94	70-130	3	10		
Cobalt, Dissolved	ug/L	34.5	1000	1000	995	977	96	94	70-130	2	6		
Copper, Dissolved	ug/L	ND	1000	1000	1100	1080	110	108	70-130	2	11		
Iron, Dissolved	ug/L	714000	10000	10000	745000	724000	318	106	70-130	3	10	M1	
Lead, Dissolved	ug/L	86.9	1000	1000	940	916	85	83	70-130	3	10		
Nickel, Dissolved	ug/L	91.5	1000	1000	1040	1020	94	92	70-130	2	10		
Selenium, Dissolved	ug/L	ND	1000	1000	1090	1080	109	108	70-130	1	10		
Silver, Dissolved	ug/L	16.5	500	500	66.8	104	10	18	70-130	44	10	M1, R1	
Thallium, Dissolved	ug/L	ND	1000	1000	820	810	82	81	70-130	1	6		
Zinc, Dissolved	ug/L	13100	1000	1000	14300	13800	121	71	70-130	4	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

QC Batch: MSV/54273 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60146252001, 60146252002

METHOD BLANK: 1203244 Matrix: Water

Associated Lab Samples: 60146252001, 60146252002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/12/13 11:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/12/13 11:06	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/12/13 11:06	
1,1-Dichloroethane	ug/L	ND	1.0	06/12/13 11:06	
1,1-Dichloroethene	ug/L	ND	1.0	06/12/13 11:06	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/12/13 11:06	
1,2-Dichloroethane	ug/L	ND	1.0	06/12/13 11:06	
1,2-Dichloropropane	ug/L	ND	1.0	06/12/13 11:06	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/12/13 11:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/12/13 11:06	
2-Chloroethylvinyl ether	ug/L	ND	10.0	06/12/13 11:06	
Benzene	ug/L	ND	1.0	06/12/13 11:06	
Bromodichloromethane	ug/L	ND	1.0	06/12/13 11:06	
Bromoform	ug/L	ND	1.0	06/12/13 11:06	
Bromomethane	ug/L	ND	5.0	06/12/13 11:06	
Carbon tetrachloride	ug/L	ND	1.0	06/12/13 11:06	
Chlorobenzene	ug/L	ND	1.0	06/12/13 11:06	
Chloroethane	ug/L	ND	1.0	06/12/13 11:06	
Chloroform	ug/L	ND	1.0	06/12/13 11:06	
Chloromethane	ug/L	ND	1.0	06/12/13 11:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/12/13 11:06	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/12/13 11:06	
Dibromochloromethane	ug/L	ND	1.0	06/12/13 11:06	
Ethylbenzene	ug/L	ND	1.0	06/12/13 11:06	
Methylene chloride	ug/L	ND	1.0	06/12/13 11:06	
Tetrachloroethene	ug/L	ND	1.0	06/12/13 11:06	
Toluene	ug/L	ND	1.0	06/12/13 11:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/12/13 11:06	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/12/13 11:06	
Trichloroethene	ug/L	ND	1.0	06/12/13 11:06	
Trichlorofluoromethane	ug/L	ND	1.0	06/12/13 11:06	
Vinyl chloride	ug/L	ND	1.0	06/12/13 11:06	
Xylene (Total)	ug/L	ND	3.0	06/12/13 11:06	
1,2-Dichloroethane-d4 (S)	%	106	80-120	06/12/13 11:06	
4-Bromofluorobenzene (S)	%	98	80-120	06/12/13 11:06	
Dibromofluoromethane (S)	%	99	80-120	06/12/13 11:06	
Toluene-d8 (S)	%	100	80-120	06/12/13 11:06	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

LABORATORY CONTROL SAMPLE: 1203245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.6	98	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.4	92	59-138	
1,1,2-Trichloroethane	ug/L	20	18.1	91	69-127	
1,1-Dichloroethane	ug/L	20	16.7	84	69-126	
1,1-Dichloroethene	ug/L	20	19.0	95	65-153	
1,2-Dichlorobenzene	ug/L	20	17.6	88	66-126	
1,2-Dichloroethane	ug/L	20	19.3	97	71-129	
1,2-Dichloropropane	ug/L	20	18.7	93	66-140	
1,3-Dichlorobenzene	ug/L	20	17.7	89	63-127	
1,4-Dichlorobenzene	ug/L	20	17.5	88	68-124	
2-Chloroethylvinyl ether	ug/L	20	17.7	89	33-159	
Benzene	ug/L	20	18.0	90	73-129	
Bromodichloromethane	ug/L	20	19.2	96	63-129	
Bromoform	ug/L	20	18.7	93	52-123	
Bromomethane	ug/L	20	20.8	104	10-160	
Carbon tetrachloride	ug/L	20	20.2	101	70-140	
Chlorobenzene	ug/L	20	17.8	89	68-127	
Chloroethane	ug/L	20	22.3	111	42-160	
Chloroform	ug/L	20	17.8	89	60-120	
Chloromethane	ug/L	20	21.5	108	10-160	
cis-1,2-Dichloroethene	ug/L	20	17.7	88	70-125	
cis-1,3-Dichloropropene	ug/L	20	19.3	97	66-132	
Dibromochloromethane	ug/L	20	19.8	99	63-134	
Ethylbenzene	ug/L	20	17.8	89	66-133	
Methylene chloride	ug/L	20	16.9	84	56-135	
Tetrachloroethene	ug/L	20	19.0	95	64-143	
Toluene	ug/L	20	18.1	91	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.3	92	67-149	
trans-1,3-Dichloropropene	ug/L	20	21.1	105	66-138	
Trichloroethene	ug/L	20	18.4	92	71-130	
Trichlorofluoromethane	ug/L	20	17.3	87	58-158	
Vinyl chloride	ug/L	20	18.8	94	41-160	
Xylene (Total)	ug/L	60	54.1	90	67-130	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Dibromofluoromethane (S)	%			98	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1203246

Parameter	Units	60146252001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4100	103	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3940	98	46-157	
1,1,2-Trichloroethane	ug/L	ND	4000	4070	102	52-150	
1,1-Dichloroethane	ug/L	ND	4000	3430	86	59-155	
1,1-Dichloroethene	ug/L	ND	4000	3790	95	14-160	
1,2-Dichlorobenzene	ug/L	ND	4000	3720	93	18-145	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

MATRIX SPIKE SAMPLE:		1203246		60146252001		Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits		
1,2-Dichloroethane	ug/L	ND	4000	4030	101	4030	101	49-155		
1,2-Dichloropropane	ug/L	ND	4000	4030	101	4030	101	12-160		
1,3-Dichlorobenzene	ug/L	ND	4000	3840	96	3840	96	59-146		
1,4-Dichlorobenzene	ug/L	ND	4000	3690	92	3690	92	18-147		
2-Chloroethylvinyl ether	ug/L	ND	4000	4670	117	4670	117	10-160		
Benzene	ug/L	ND	4000	3790	95	3790	95	37-151		
Bromodichloromethane	ug/L	ND	4000	3950	99	3950	99	35-155		
Bromoform	ug/L	ND	4000	4130	103	4130	103	45-133		
Bromomethane	ug/L	ND	4000	3950	99	3950	99	10-160		
Carbon tetrachloride	ug/L	ND	4000	4230	106	4230	106	70-140		
Chlorobenzene	ug/L	ND	4000	3840	96	3840	96	37-153		
Chloroethane	ug/L	ND	4000	3650	91	3650	91	14-160		
Chloroform	ug/L	ND	4000	3740	93	3740	93	51-138		
Chloromethane	ug/L	ND	4000	4450	111	4450	111	10-160		
cis-1,2-Dichloroethene	ug/L	ND	4000	3630	91	3630	91	19-160		
cis-1,3-Dichloropropene	ug/L	ND	4000	4120	103	4120	103	10-160		
Dibromochloromethane	ug/L	ND	4000	4340	109	4340	109	53-149		
Ethylbenzene	ug/L	ND	4000	3890	97	3890	97	37-154		
Methylene chloride	ug/L	ND	4000	3610	90	3610	90	15-156		
Tetrachloroethene	ug/L	ND	4000	4070	102	4070	102	64-148		
Toluene	ug/L	ND	4000	3830	96	3830	96	47-150		
trans-1,2-Dichloroethene	ug/L	ND	4000	3780	95	3780	95	54-156		
trans-1,3-Dichloropropene	ug/L	ND	4000	4610	115	4610	115	17-160		
Trichloroethene	ug/L	ND	4000	3810	95	3810	95	71-157		
Trichlorofluoromethane	ug/L	ND	4000	3730	93	3730	93	17-160		
Vinyl chloride	ug/L	ND	4000	3890	97	3890	97	10-160		
Xylene (Total)	ug/L	ND	12000	11600	97	11600	97	12-153		
1,2-Dichloroethane-d4 (S)	%						106	80-120		
4-Bromofluorobenzene (S)	%						102	80-120		
Dibromofluoromethane (S)	%						98	80-120		
Toluene-d8 (S)	%						99	80-120		
Preservation pH			7.0			7.0				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

QC Batch: OEXT/38760

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60146252001

METHOD BLANK: 1200785

Matrix: Water

Associated Lab Samples: 60146252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/10/13 12:05	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/10/13 12:05	
2,4-Dichlorophenol	ug/L	ND	5.0	06/10/13 12:05	
2,4-Dimethylphenol	ug/L	ND	5.0	06/10/13 12:05	
2,4-Dinitrophenol	ug/L	ND	50.0	06/10/13 12:05	
2,4-Dinitrotoluene	ug/L	ND	6.0	06/10/13 12:05	
2,6-Dinitrotoluene	ug/L	ND	5.0	06/10/13 12:05	
2-Chloronaphthalene	ug/L	ND	5.0	06/10/13 12:05	
2-Chlorophenol	ug/L	ND	5.0	06/10/13 12:05	
2-Nitrophenol	ug/L	ND	5.0	06/10/13 12:05	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	06/10/13 12:05	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/10/13 12:05	
4-Bromophenylphenyl ether	ug/L	ND	5.0	06/10/13 12:05	
4-Chloro-3-methylphenol	ug/L	ND	5.0	06/10/13 12:05	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	06/10/13 12:05	
4-Nitrophenol	ug/L	ND	5.0	06/10/13 12:05	
Acenaphthene	ug/L	ND	5.0	06/10/13 12:05	
Acenaphthylene	ug/L	ND	5.0	06/10/13 12:05	
Anthracene	ug/L	ND	5.0	06/10/13 12:05	
Benzidine	ug/L	ND	50.0	06/10/13 12:05	
Benzo(a)anthracene	ug/L	ND	5.0	06/10/13 12:05	
Benzo(a)pyrene	ug/L	ND	5.0	06/10/13 12:05	
Benzo(b)fluoranthene	ug/L	ND	5.0	06/10/13 12:05	
Benzo(g,h,i)perylene	ug/L	ND	5.0	06/10/13 12:05	
Benzo(k)fluoranthene	ug/L	ND	5.0	06/10/13 12:05	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	06/10/13 12:05	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	06/10/13 12:05	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	06/10/13 12:05	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	06/10/13 12:05	
Butylbenzylphthalate	ug/L	ND	5.0	06/10/13 12:05	
Chrysene	ug/L	ND	5.0	06/10/13 12:05	
Di-n-butylphthalate	ug/L	ND	5.0	06/10/13 12:05	
Di-n-octylphthalate	ug/L	ND	5.0	06/10/13 12:05	
Dibenz(a,h)anthracene	ug/L	ND	5.0	06/10/13 12:05	
Diethylphthalate	ug/L	ND	5.0	06/10/13 12:05	
Dimethylphthalate	ug/L	ND	5.0	06/10/13 12:05	
Fluoranthene	ug/L	ND	5.0	06/10/13 12:05	
Fluorene	ug/L	ND	5.0	06/10/13 12:05	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/10/13 12:05	
Hexachlorobenzene	ug/L	ND	5.0	06/10/13 12:05	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/10/13 12:05	
Hexachloroethane	ug/L	ND	5.0	06/10/13 12:05	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	06/10/13 12:05	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD

Project No.: 60146252

METHOD BLANK: 1200785

Matrix: Water

Associated Lab Samples: 60146252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	06/10/13 12:05	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	06/10/13 12:05	
N-Nitrosodimethylamine	ug/L	ND	5.0	06/10/13 12:05	
N-Nitrosodiphenylamine	ug/L	ND	5.0	06/10/13 12:05	
Naphthalene	ug/L	ND	5.0	06/10/13 12:05	
Nitrobenzene	ug/L	ND	5.0	06/10/13 12:05	
Pentachlorophenol	ug/L	ND	5.0	06/10/13 12:05	
Phenanthrene	ug/L	ND	5.0	06/10/13 12:05	
Phenol	ug/L	ND	5.0	06/10/13 12:05	
Pyrene	ug/L	ND	5.0	06/10/13 12:05	
2,4,6-Tribromophenol (S)	%	78	39-119	06/10/13 12:05	
2-Fluorobiphenyl (S)	%	80	36-120	06/10/13 12:05	
2-Fluorophenol (S)	%	47	18-120	06/10/13 12:05	
Nitrobenzene-d5 (S)	%	74	32-120	06/10/13 12:05	
Phenol-d6 (S)	%	32	12-120	06/10/13 12:05	
Terphenyl-d14 (S)	%	86	44-120	06/10/13 12:05	

LABORATORY CONTROL SAMPLE: 1200786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	36.1	72	44-120	
2,4,6-Trichlorophenol	ug/L	50	41.7	83	48-120	
2,4-Dichlorophenol	ug/L	50	37.8	76	48-120	
2,4-Dimethylphenol	ug/L	50	35.3	71	37-119	
2,4-Dinitrophenol	ug/L	50	39.7J	79	15-153	
2,4-Dinitrotoluene	ug/L	50	43.1	86	54-120	
2,6-Dinitrotoluene	ug/L	50	43.6	87	52-120	
2-Chloronaphthalene	ug/L	50	40.7	81	60-118	
2-Chlorophenol	ug/L	50	36.9	74	44-120	
2-Nitrophenol	ug/L	50	39.0	78	43-120	
3,3'-Dichlorobenzidine	ug/L	50	50.1	100	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	43.9	88	31-147	
4-Bromophenylphenyl ether	ug/L	50	41.1	82	53-120	
4-Chloro-3-methylphenol	ug/L	50	39.3	79	50-120	
4-Chlorophenylphenyl ether	ug/L	50	40.4	81	54-120	
4-Nitrophenol	ug/L	50	16.8	34	10-120	
Acenaphthene	ug/L	50	41.5	83	51-120	
Acenaphthylene	ug/L	50	40.6	81	51-120	
Anthracene	ug/L	50	42.1	84	54-120	
Benzidine	ug/L	50	20.6J	41	1-124	
Benzo(a)anthracene	ug/L	50	40.9	82	54-120	
Benzo(a)pyrene	ug/L	50	42.8	86	54-120	
Benzo(b)fluoranthene	ug/L	50	44.5	89	57-120	
Benzo(g,h,i)perylene	ug/L	50	43.4	87	54-120	
Benzo(k)fluoranthene	ug/L	50	40.1	80	52-121	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

LABORATORY CONTROL SAMPLE: 1200786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	50	38.1	76	51-120	
bis(2-Chloroethyl) ether	ug/L	50	38.3	77	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	40.7	81	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	43.3	87	51-126	
Butylbenzylphthalate	ug/L	50	44.9	90	45-129	
Chrysene	ug/L	50	43.0	86	54-120	
Di-n-butylphthalate	ug/L	50	43.4	87	57-118	
Di-n-octylphthalate	ug/L	50	45.9	92	48-130	
Dibenz(a,h)anthracene	ug/L	50	41.9	84	56-119	
Diethylphthalate	ug/L	50	43.2	86	55-114	
Dimethylphthalate	ug/L	50	42.9	86	54-112	
Fluoranthene	ug/L	50	42.5	85	56-120	
Fluorene	ug/L	50	40.8	82	59-120	
Hexachloro-1,3-butadiene	ug/L	50	34.1	68	41-116	
Hexachlorobenzene	ug/L	50	39.8	80	53-120	
Hexachlorocyclopentadiene	ug/L	100	59.5	60	31-120	
Hexachloroethane	ug/L	50	35.1	70	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	42.0	84	55-120	
Isophorone	ug/L	50	37.9	76	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	39.1	78	47-120	
N-Nitrosodimethylamine	ug/L	50	23.7	47	28-120	
N-Nitrosodiphenylamine	ug/L	50	42.2	84	53-120	
Naphthalene	ug/L	50	38.7	77	48-120	
Nitrobenzene	ug/L	50	36.9	74	47-120	
Pentachlorophenol	ug/L	50	43.6	87	43-127	
Phenanthrene	ug/L	50	43.3	87	55-120	
Phenol	ug/L	50	16.0	32	15-112	
Pyrene	ug/L	50	44.3	89	55-115	
2,4,6-Tribromophenol (S)	%			83	39-119	
2-Fluorobiphenyl (S)	%			80	36-120	
2-Fluorophenol (S)	%			46	18-120	
Nitrobenzene-d5 (S)	%			72	32-120	
Phenol-d6 (S)	%			30	12-120	
Terphenyl-d14 (S)	%			85	44-120	

MATRIX SPIKE SAMPLE: 1200787

Parameter	Units	60146247001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	35.8	72	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	40.7	81	37-121	
2,4-Dichlorophenol	ug/L	ND	50	36.3	73	39-120	
2,4-Dimethylphenol	ug/L	ND	50	35.5	71	32-119	
2,4-Dinitrophenol	ug/L	ND	50	30.9J	62	20-157	
2,4-Dinitrotoluene	ug/L	ND	50	40.0	80	39-130	
2,6-Dinitrotoluene	ug/L	ND	50	41.0	82	50-128	
2-Chloronaphthalene	ug/L	ND	50	38.9	78	60-118	
2-Chlorophenol	ug/L	ND	50	35.3	71	35-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

MATRIX SPIKE SAMPLE:		1200787						
Parameter	Units	60146247001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
2-Nitrophenol	ug/L	ND	50	38.5	77	29-123		
3,3'-Dichlorobenzidine	ug/L	ND	50	22.1	44	10-160		
4,6-Dinitro-2-methylphenol	ug/L	ND	50	36.5	73	27-146		
4-Bromophenylphenyl ether	ug/L	ND	50	39.2	78	53-124		
4-Chloro-3-methylphenol	ug/L	ND	50	37.1	74	33-123		
4-Chlorophenylphenyl ether	ug/L	ND	50	37.5	75	34-125		
4-Nitrophenol	ug/L	ND	50	16.7	33	10-120		
Acenaphthene	ug/L	ND	50	39.0	78	47-120		
Acenaphthylene	ug/L	ND	50	38.1	76	33-120		
Anthracene	ug/L	ND	50	40.1	80	36-121		
Benzidine	ug/L	ND	50	ND	0	1-120 M1		
Benzo(a)anthracene	ug/L	ND	50	42.0	84	37-127		
Benzo(a)pyrene	ug/L	ND	50	41.8	84	34-125		
Benzo(b)fluoranthene	ug/L	ND	50	41.5	83	37-131		
Benzo(g,h,i)perylene	ug/L	ND	50	41.3	83	35-128		
Benzo(k)fluoranthene	ug/L	ND	50	43.0	86	34-130		
bis(2-Chloroethoxy)methane	ug/L	ND	50	36.8	74	33-120		
bis(2-Chloroethyl) ether	ug/L	ND	50	37.0	74	32-120		
bis(2-Chloroisopropyl) ether	ug/L	ND	50	39.6	79	36-120		
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	44.7	89	38-137		
Butylbenzylphthalate	ug/L	ND	50	45.7	91	43-136		
Chrysene	ug/L	ND	50	42.7	85	36-127		
Di-n-butylphthalate	ug/L	ND	50	42.6	85	38-118		
Di-n-octylphthalate	ug/L	ND	50	46.6	93	40-140		
Dibenz(a,h)anthracene	ug/L	ND	50	42.0	84	35-131		
Diethylphthalate	ug/L	ND	50	40.4	81	33-114		
Dimethylphthalate	ug/L	ND	50	40.2	80	34-112		
Fluoranthene	ug/L	ND	50	39.2	78	38-125		
Fluorene	ug/L	ND	50	38.6	77	59-121		
Hexachloro-1,3-butadiene	ug/L	ND	50	32.8	66	27-116		
Hexachlorobenzene	ug/L	ND	50	39.2	78	34-124		
Hexachlorocyclopentadiene	ug/L	ND	100	59.5	59	11-120		
Hexachloroethane	ug/L	ND	50	34.6	69	40-113		
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	40.7	81	38-127		
Isophorone	ug/L	ND	50	37.4	75	31-120		
N-Nitroso-di-n-propylamine	ug/L	ND	50	37.4	75	30-120		
N-Nitrosodimethylamine	ug/L	ND	50	22.7	45	29-120		
N-Nitrosodiphenylamine	ug/L	ND	50	37.7	75	10-139		
Naphthalene	ug/L	ND	50	37.2	74	32-120		
Nitrobenzene	ug/L	ND	50	36.6	73	35-128		
Pentachlorophenol	ug/L	ND	50	44.4	89	38-133		
Phenanthrene	ug/L	ND	50	40.8	82	54-120		
Phenol	ug/L	ND	50	15.5	31	13-112		
Pyrene	ug/L	ND	50	44.1	88	52-115		
2,4,6-Tribromophenol (S)	%				78	39-119		
2-Fluorobiphenyl (S)	%				76	36-120		
2-Fluorophenol (S)	%				43	18-120		
Nitrobenzene-d5 (S)	%				69	32-120		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

MATRIX SPIKE SAMPLE:		1200787					
Parameter	Units	60146247001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenol-d6 (S)	%					29	12-120
Terphenyl-d14 (S)	%					84	44-120

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

QC Batch:	WET/41744	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60146252001		

METHOD BLANK: 1202137 Matrix: Water

Associated Lab Samples: 60146252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/11/13 10:02	

LABORATORY CONTROL SAMPLE: 1202138

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	43.3	108	78-114	

MATRIX SPIKE SAMPLE: 1202666

Parameter	Units	60146492001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	41.2	45.2	107	78-114	

SAMPLE DUPLICATE: 1202667

Parameter	Units	60145795006 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 184-MSD

Pace Project No.: 60146252

QC Batch:	WET/41761	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60146252001		

METHOD BLANK: 1202425 Matrix: Water

Associated Lab Samples: 60146252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/11/13 14:20	

LABORATORY CONTROL SAMPLE: 1202426

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	20.7	104	64-132	

MATRIX SPIKE SAMPLE: 1202427

Parameter	Units	60146492001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.6	24.8	112	64-132	

SAMPLE DUPLICATE: 1202429

Parameter	Units	60146110001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	37.4	21.1	56	34	D6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

QC Batch: WET/41777

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60146252001

METHOD BLANK: 1202725

Matrix: Water

Associated Lab Samples: 60146252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/11/13 13:02	

SAMPLE DUPLICATE: 1202726

Parameter	Units	60146222001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	78.0	100	25	25	

SAMPLE DUPLICATE: 1202727

Parameter	Units	60146333004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

QC Batch: WET/41731 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60146252001

SAMPLE DUPLICATE: 1201541

Parameter	Units	60146137003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

QC Batch: WETA/25007

Analysis Method: EPA 350.1

QC Batch Method: EPA 350.1

Analysis Description: 350.1 Ammonia

Associated Lab Samples: 60146252001

METHOD BLANK: 1200403

Matrix: Water

Associated Lab Samples: 60146252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/06/13 16:27	

LABORATORY CONTROL SAMPLE: 1200404

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

MATRIX SPIKE SAMPLE: 1200405

Parameter	Units	60146218003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	84	90-110	M1

SAMPLE DUPLICATE: 1200406

Parameter	Units	60146218004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.39	0.39	0	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

QC Batch: WETA/25048 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60146252001

METHOD BLANK: 1202486 Matrix: Water

Associated Lab Samples: 60146252001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/12/13 08:42	

LABORATORY CONTROL SAMPLE: 1202487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	50.0	100	90-110	

MATRIX SPIKE SAMPLE: 1202488

Parameter	Units	60145795001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	119	50	163	87	90-110	M1

MATRIX SPIKE SAMPLE: 1202490

Parameter	Units	60145795005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	104	50	148	89	90-110	M1

SAMPLE DUPLICATE: 1202489

Parameter	Units	60145795003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	24.2	25.0	3	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

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.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- R1 RPD value was outside control limits.
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 184-MSD

Pace Project No.: 60146252

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60146252001	184-MSD	EPA 200.7	MPRP/22980	EPA 200.7	ICP/18163
60146252001	184-MSD	EPA 200.7	MPRP/23021	EPA 200.7	ICP/18187
60146252001	184-MSD	EPA 245.1	MERP/7409	EPA 245.1	MERC/7363
60146252001	184-MSD	EPA 245.1	MERP/7421	EPA 245.1	MERC/7376
60146252001	184-MSD	EPA 625	OEXT/38760	EPA 625	MSSV/12264
60146252001	184-MSD	EPA 624 Low	MSV/54273		
60146252002	TRIP BLANK	EPA 624 Low	MSV/54273		
60146252001	184-MSD	EPA 1664A	WET/41744		
60146252001	184-MSD	EPA 1664A	WET/41761		
60146252001	184-MSD	SM 2540D	WET/41777		
60146252001	184-MSD	SM 4500-H+B	WET/41731		
60146252001	184-MSD	EPA 350.1	WETA/25007		
60146252001	184-MSD	EPA 410.4	WETA/25048		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60146252



60146252

Client Name: Barr Engineering

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

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

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

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

Thermometer Used: T-112 / T-194 Type of Ice: Wet [x] Blue [] None [] Samples received on ice, cooling process has begun.

Cooler Temperature: 1.2

Date and initials of person examining contents: 6/6/13 [initials]

Temperature should be above freezing to 6°C

Table with 17 rows of inspection items and checkboxes. Includes items like 'Chain of Custody present', 'Short Hold Time analyses (<72hr):', 'Rush Turn Around Time requested:', 'Sufficient volume:', 'Correct containers used:', 'Pace containers used:', 'Containers intact:', 'Unpreserved 5035A soils frozen w/in 48hrs?', 'Filtered volume received for dissolved tests?', 'Sample labels match COC:', 'Includes date/time/ID/analyses Matrix: uu', 'All containers needing preservation have been checked.', 'All containers needing preservation are found to be in compliance with EPA recommendation.', 'Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics', 'Trip Blank present:', 'Pace Trip Blank lot # (if purchased): Covered', 'Headspace in VOA vials (>6mm):', 'Project sampled in USDA Regulated Area:'. Includes handwritten notes like 'ph' and 'BPSW initial ph 6.0, added 2.5ml final ph 3.5'.

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: [Signature] Date: [Signature]

June 13, 2013

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

RE: Project: BRIDGETON LF 187-MSD
Pace Project No.: 60146382

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 07, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146382

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA 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 187-MSD
Pace Project No.: 60146382

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60146382001	187-MSD	Water	06/06/13 12:46	06/07/13 00:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 187-MSD
Pace Project No.: 60146382

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60146382001	187-MSD	SM 5210B	NDL	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146382

Sample: 187-MSD	Lab ID: 60146382001	Collected: 06/06/13 12:46	Received: 06/07/13 00:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day								
Analytical Method: SM 5210B Preparation Method: SM 5210B								
BOD, 5 day	24600	mg/L	2.0	1	06/08/13 08:35	06/13/13 14:44		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146382

QC Batch: WET/41725

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60146382001

METHOD BLANK: 1201477

Matrix: Water

Associated Lab Samples: 60146382001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/13/13 14:06	

LABORATORY CONTROL SAMPLE: 1201478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	197	99	85-115	

SAMPLE DUPLICATE: 1201479

Parameter	Units	60146365001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	13.0	23.3	57	17	D6

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146382

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 187-MSD
Pace Project No.: 60146382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60146382001	187-MSD	SM 5210B	WET/41725	SM 5210B	WET/41825

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60146382



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 2pc

Thermometer Used: T-112 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 20

Date and initials of person examining contents: 6/7/12

Temperature should be above freezing to 6°C

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

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: 6/11/12

June 17, 2013

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

RE: Project: BRIDGETON LF 187-MSD
Pace Project No.: 60146383

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 07, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

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Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60146383001	187-MSD	Water	06/06/13 12:46	06/07/13 00:40
60146383002	TRIP BLANK	Water	06/06/13 12:46	06/07/13 00:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60146383001	187-MSD	EPA 200.7	SMW	15
		EPA 200.7	SMW	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	59
		EPA 624 Low	JKL	38
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	JML	1
		SM 4500-H+B	JML	1
		EPA 350.1	JML	1
		EPA 410.4	DJR	1
		60146383002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

Sample: 187-MSD		Lab ID: 60146383001	Collected: 06/06/13 12:46	Received: 06/07/13 00:40	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	7160 ug/L		150	2	06/10/13 13:45	06/13/13 13:24	7429-90-5	
Antimony	43.9 ug/L		20.0	2	06/10/13 13:45	06/13/13 13:24	7440-36-0	
Arsenic	597 ug/L		20.0	2	06/10/13 13:45	06/13/13 13:24	7440-38-2	
Beryllium	ND ug/L		5.0	5	06/10/13 13:45	06/13/13 13:27	7440-41-7	D3
Cadmium	11.2 ug/L		10.0	2	06/10/13 13:45	06/13/13 13:24	7440-43-9	
Chromium	244 ug/L		25.0	5	06/10/13 13:45	06/13/13 13:27	7440-47-3	
Cobalt	43.3 ug/L		10.0	2	06/10/13 13:45	06/13/13 13:24	7440-48-4	
Copper	ND ug/L		20.0	2	06/10/13 13:45	06/13/13 13:24	7440-50-8	D3
Iron	761000 ug/L		100	2	06/10/13 13:45	06/13/13 13:24	7439-89-6	
Lead	119 ug/L		10.0	2	06/10/13 13:45	06/13/13 13:24	7439-92-1	
Nickel	115 ug/L		10.0	2	06/10/13 13:45	06/13/13 13:24	7440-02-0	
Selenium	ND ug/L		75.0	5	06/10/13 13:45	06/13/13 13:27	7782-49-2	
Silver	ND ug/L		14.0	2	06/10/13 13:45	06/13/13 13:24	7440-22-4	
Thallium	ND ug/L		100	5	06/10/13 13:45	06/13/13 13:27	7440-28-0	
Zinc	12900 ug/L		100	2	06/10/13 13:45	06/13/13 13:24	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	4150 ug/L		150	2	06/11/13 13:30	06/12/13 11:24	7429-90-5	
Antimony, Dissolved	39.0 ug/L		20.0	2	06/11/13 13:30	06/12/13 11:24	7440-36-0	
Arsenic, Dissolved	534 ug/L		20.0	2	06/11/13 13:30	06/12/13 11:24	7440-38-2	
Beryllium, Dissolved	ND ug/L		2.0	2	06/11/13 13:30	06/12/13 11:24	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		10.0	2	06/11/13 13:30	06/12/13 11:24	7440-43-9	
Chromium, Dissolved	204 ug/L		25.0	5	06/11/13 13:30	06/12/13 11:28	7440-47-3	
Cobalt, Dissolved	36.4 ug/L		10.0	2	06/11/13 13:30	06/12/13 11:24	7440-48-4	
Copper, Dissolved	ND ug/L		20.0	2	06/11/13 13:30	06/12/13 11:24	7440-50-8	
Iron, Dissolved	672000 ug/L		100	2	06/11/13 13:30	06/12/13 11:24	7439-89-6	
Lead, Dissolved	66.2 ug/L		10.0	2	06/11/13 13:30	06/12/13 11:24	7439-92-1	
Nickel, Dissolved	101 ug/L		10.0	2	06/11/13 13:30	06/12/13 11:24	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	5	06/11/13 13:30	06/12/13 11:28	7782-49-2	
Silver, Dissolved	15.4 ug/L		14.0	2	06/11/13 13:30	06/12/13 11:24	7440-22-4	
Thallium, Dissolved	ND ug/L		100	5	06/11/13 13:30	06/12/13 11:28	7440-28-0	D3
Zinc, Dissolved	11800 ug/L		100	2	06/11/13 13:30	06/12/13 11:24	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	1.9 ug/L		0.20	1	06/10/13 13:20	06/11/13 12:23	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	06/12/13 16:30	06/12/13 09:26	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	83-32-9	
Acenaphthylene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	208-96-8	
Anthracene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	120-12-7	
Benzidine	ND ug/L		1000	20	06/08/13 00:00	06/10/13 19:09	92-87-5	
Benzo(a)anthracene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	56-55-3	
Benzo(a)pyrene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

Sample: 187-MSD	Lab ID: 60146383001	Collected: 06/06/13 12:46	Received: 06/07/13 00:40	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Benzo(b)fluoranthene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	191-24-2	
Benzo(k)fluoranthene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	207-08-9	
4-Bromophenylphenyl ether	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	101-55-3	
Butylbenzylphthalate	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	85-68-7	
4-Chloro-3-methylphenol	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	59-50-7	
bis(2-Chloroethoxy)methane	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		120	20	06/08/13 00:00	06/10/13 19:09	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		120	20	06/08/13 00:00	06/10/13 19:09	39638-32-9	
2-Chloronaphthalene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	91-58-7	
2-Chlorophenol	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	7005-72-3	
Chrysene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	53-70-3	
3,3'-Dichlorobenzidine	ND ug/L		400	20	06/08/13 00:00	06/10/13 19:09	91-94-1	
2,4-Dichlorophenol	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	120-83-2	
Diethylphthalate	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	84-66-2	
2,4-Dimethylphenol	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	105-67-9	
Dimethylphthalate	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	131-11-3	
Di-n-butylphthalate	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		500	20	06/08/13 00:00	06/10/13 19:09	534-52-1	
2,4-Dinitrophenol	ND ug/L		1000	20	06/08/13 00:00	06/10/13 19:09	51-28-5	
2,4-Dinitrotoluene	ND ug/L		120	20	06/08/13 00:00	06/10/13 19:09	121-14-2	
2,6-Dinitrotoluene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	606-20-2	
Di-n-octylphthalate	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	117-81-7	
Fluoranthene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	206-44-0	
Fluorene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	87-68-3	
Hexachlorobenzene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	77-47-4	
Hexachloroethane	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	193-39-5	
Isophorone	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	78-59-1	
Naphthalene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	91-20-3	
Nitrobenzene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	98-95-3	
2-Nitrophenol	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	88-75-5	
4-Nitrophenol	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	100-02-7	
N-Nitrosodimethylamine	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	86-30-6	
Pentachlorophenol	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	87-86-5	
Phenanthrene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	85-01-8	
Phenol	1800 ug/L		100	20	06/08/13 00:00	06/10/13 19:09	108-95-2	
Pyrene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:09	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

Sample: 187-MSD		Lab ID: 60146383001	Collected: 06/06/13 12:46	Received: 06/07/13 00:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Surrogates								
Nitrobenzene-d5 (S)	0 %		32-120	20	06/08/13 00:00	06/10/13 19:09	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	20	06/08/13 00:00	06/10/13 19:09	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	20	06/08/13 00:00	06/10/13 19:09	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	20	06/08/13 00:00	06/10/13 19:09	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	20	06/08/13 00:00	06/10/13 19:09	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	20	06/08/13 00:00	06/10/13 19:09	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		06/12/13 13:13	71-43-2	
Bromodichloromethane	ND ug/L		200	200		06/12/13 13:13	75-27-4	
Bromoform	ND ug/L		200	200		06/12/13 13:13	75-25-2	
Bromomethane	ND ug/L		1000	200		06/12/13 13:13	74-83-9	
Carbon tetrachloride	ND ug/L		200	200		06/12/13 13:13	56-23-5	
Chlorobenzene	ND ug/L		200	200		06/12/13 13:13	108-90-7	
Chloroethane	ND ug/L		200	200		06/12/13 13:13	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		06/12/13 13:13	110-75-8	
Chloroform	ND ug/L		200	200		06/12/13 13:13	67-66-3	
Chloromethane	ND ug/L		200	200		06/12/13 13:13	74-87-3	
Dibromochloromethane	ND ug/L		200	200		06/12/13 13:13	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		06/12/13 13:13	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		06/12/13 13:13	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		06/12/13 13:13	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		06/12/13 13:13	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		06/12/13 13:13	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		06/12/13 13:13	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		06/12/13 13:13	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		06/12/13 13:13	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		06/12/13 13:13	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		06/12/13 13:13	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		06/12/13 13:13	10061-02-6	
Ethylbenzene	ND ug/L		200	200		06/12/13 13:13	100-41-4	
Methylene chloride	ND ug/L		200	200		06/12/13 13:13	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		06/12/13 13:13	79-34-5	
Tetrachloroethene	ND ug/L		200	200		06/12/13 13:13	127-18-4	
Toluene	ND ug/L		200	200		06/12/13 13:13	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		06/12/13 13:13	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		06/12/13 13:13	79-00-5	
Trichloroethene	ND ug/L		200	200		06/12/13 13:13	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		06/12/13 13:13	75-69-4	
Vinyl chloride	ND ug/L		200	200		06/12/13 13:13	75-01-4	
Xylene (Total)	ND ug/L		600	200		06/12/13 13:13	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98 %		80-120	200		06/12/13 13:13	1868-53-7	D3
4-Bromofluorobenzene (S)	101 %		80-120	200		06/12/13 13:13	460-00-4	
Toluene-d8 (S)	97 %		80-120	200		06/12/13 13:13	2037-26-5	
1,2-Dichloroethane-d4 (S)	99 %		80-120	200		06/12/13 13:13	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

Sample: 187-MSD		Lab ID: 60146383001	Collected: 06/06/13 12:46	Received: 06/07/13 00:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Preservation pH	7.0		1.0	200		06/12/13 13:13		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	305	mg/L	5.0	1		06/11/13 15:45		
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	20.7	mg/L	5.0	1		06/14/13 07:51		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	870	mg/L	5.0	1		06/12/13 13:18		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.5	Std. Units	0.10	1		06/08/13 11:30		H6
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	952	mg/L	40.0	400		06/13/13 13:26	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	48200	mg/L	5000	500		06/16/13 10:11		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

Sample: TRIP BLANK		Lab ID: 60146383002	Collected: 06/06/13 12:46	Received: 06/07/13 00:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND	ug/L	1.0	1		06/12/13 11:49	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		06/12/13 11:49	75-27-4	
Bromoform	ND	ug/L	1.0	1		06/12/13 11:49	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/12/13 11:49	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		06/12/13 11:49	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		06/12/13 11:49	108-90-7	
Chloroethane	ND	ug/L	1.0	1		06/12/13 11:49	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		06/12/13 11:49	110-75-8	
Chloroform	ND	ug/L	1.0	1		06/12/13 11:49	67-66-3	
Chloromethane	ND	ug/L	1.0	1		06/12/13 11:49	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		06/12/13 11:49	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		06/12/13 11:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		06/12/13 11:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		06/12/13 11:49	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		06/12/13 11:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		06/12/13 11:49	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		06/12/13 11:49	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		06/12/13 11:49	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		06/12/13 11:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		06/12/13 11:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		06/12/13 11:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		06/12/13 11:49	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		06/12/13 11:49	100-41-4	
Methylene chloride	ND	ug/L	1.0	1		06/12/13 11:49	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		06/12/13 11:49	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		06/12/13 11:49	127-18-4	
Toluene	ND	ug/L	1.0	1		06/12/13 11:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		06/12/13 11:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		06/12/13 11:49	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		06/12/13 11:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		06/12/13 11:49	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		06/12/13 11:49	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		06/12/13 11:49	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98 %		80-120	1		06/12/13 11:49	1868-53-7	
4-Bromofluorobenzene (S)	100 %		80-120	1		06/12/13 11:49	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		06/12/13 11:49	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	1		06/12/13 11:49	17060-07-0	
Preservation pH	7.0		1.0	1		06/12/13 11:49		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

QC Batch: MERP/7415

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60146383001

METHOD BLANK: 1202261

Matrix: Water

Associated Lab Samples: 60146383001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/11/13 12:08	

LABORATORY CONTROL SAMPLE: 1202262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1202263

1202264

Parameter	Units	60146396001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury	ug/L	ND		5	5	1.0	0.97	20	19	70-130	8	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

QC Batch: MERP/7421

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60146383001

METHOD BLANK: 1202859

Matrix: Water

Associated Lab Samples: 60146383001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/12/13 09:19	

LABORATORY CONTROL SAMPLE: 1202860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1202861

1202862

Parameter	Units	60146488001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
			Spike Conc.	Spike Conc.								
Mercury, Dissolved	ug/L	ND	5	5	2.4	3.0	49	59	70-130	19	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 187-MSD
Pace Project No.: 60146383

QC Batch: MPRP/23002 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60146383001

METHOD BLANK: 1202265 Matrix: Water
Associated Lab Samples: 60146383001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/13/13 13:05	
Antimony	ug/L	ND	10.0	06/13/13 13:05	
Arsenic	ug/L	ND	10.0	06/13/13 13:05	
Beryllium	ug/L	ND	1.0	06/13/13 13:05	
Cadmium	ug/L	ND	5.0	06/13/13 13:05	
Chromium	ug/L	ND	5.0	06/13/13 13:05	
Cobalt	ug/L	ND	5.0	06/13/13 13:05	
Copper	ug/L	ND	10.0	06/13/13 13:05	
Iron	ug/L	ND	50.0	06/13/13 13:05	
Lead	ug/L	ND	5.0	06/13/13 13:05	
Nickel	ug/L	ND	5.0	06/13/13 13:05	
Selenium	ug/L	ND	15.0	06/13/13 13:05	
Silver	ug/L	ND	7.0	06/13/13 13:05	
Thallium	ug/L	ND	20.0	06/13/13 13:05	
Zinc	ug/L	ND	50.0	06/13/13 13:05	

LABORATORY CONTROL SAMPLE: 1202266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9950	99	85-115	
Antimony	ug/L	1000	968	97	85-115	
Arsenic	ug/L	1000	962	96	85-115	
Beryllium	ug/L	1000	998	100	85-115	
Cadmium	ug/L	1000	968	97	85-115	
Chromium	ug/L	1000	979	98	85-115	
Cobalt	ug/L	1000	992	99	85-115	
Copper	ug/L	1000	966	97	85-115	
Iron	ug/L	10000	10000	100	85-115	
Lead	ug/L	1000	994	99	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	986	99	85-115	
Silver	ug/L	500	479	96	85-115	
Thallium	ug/L	1000	1010	101	85-115	
Zinc	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1202267 1202268

Parameter	Units	60146226002		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
Aluminum	ug/L	95.6	10000	10000	10000	9940	9980	98	99	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1202267												1202268			
Parameter	Units	60146226002 Result	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual		
			Spike Conc.	MSD Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec							
Antimony	ug/L	ND	1000	1000	1090	991	109	99	70-130	10	7	R1			
Arsenic	ug/L	14.0	1000	1000	1110	1010	109	99	70-130	9	10				
Beryllium	ug/L	ND	1000	1000	984	988	98	99	70-130	0	7				
Cadmium	ug/L	ND	1000	1000	1080	984	108	98	70-130	10	10				
Chromium	ug/L	ND	1000	1000	962	966	96	96	70-130	0	10				
Cobalt	ug/L	ND	1000	1000	1060	968	106	97	70-130	9	6	R1			
Copper	ug/L	10.2	1000	1000	971	974	96	96	70-130	0	11				
Iron	ug/L	1500	10000	10000	11200	11200	97	97	70-130	0	10				
Lead	ug/L	ND	1000	1000	1050	959	105	96	70-130	9	10				
Nickel	ug/L	ND	1000	1000	1090	990	109	99	70-130	10	10				
Selenium	ug/L	ND	1000	1000	1110	1010	111	101	70-130	10	10				
Silver	ug/L	ND	500	500	481	479	96	96	70-130	0	10				
Thallium	ug/L	ND	1000	1000	1040	954	104	95	70-130	9	6	R1			
Zinc	ug/L	ND	1000	1000	1130	1020	109	98	70-130	10	11				

MATRIX SPIKE SAMPLE: 1202269											
Parameter	Units	60146416001		Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers			
		Result	Conc.								
Aluminum	ug/L	1.5 mg/L	10000	11800	103	70-130					
Antimony	ug/L	ND	1000	977	98	70-130					
Arsenic	ug/L	ND	1000	992	99	70-130					
Beryllium	ug/L	ND	1000	951	95	70-130					
Cadmium	ug/L	ND	1000	975	97	70-130					
Chromium	ug/L	0.010 mg/L	1000	954	94	70-130					
Cobalt	ug/L	ND	1000	944	94	70-130					
Copper	ug/L	0.020 mg/L	1000	968	95	70-130					
Iron	ug/L	1.2 mg/L	10000	11700	105	70-130					
Lead	ug/L	ND	1000	931	93	70-130					
Nickel	ug/L	0.026 mg/L	1000	990	96	70-130					
Selenium	ug/L	ND	1000	999	100	70-130					
Silver	ug/L	ND	500	486	97	70-130					
Thallium	ug/L	ND	1000	888	89	70-130					
Zinc	ug/L	ND	1000	1030	98	70-130					

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 187-MSD
Pace Project No.: 60146383

QC Batch: MPRP/23021 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60146383001

METHOD BLANK: 1202672 Matrix: Water
Associated Lab Samples: 60146383001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/12/13 10:54	
Antimony, Dissolved	ug/L	ND	10.0	06/12/13 10:54	
Arsenic, Dissolved	ug/L	ND	10.0	06/12/13 10:54	
Beryllium, Dissolved	ug/L	ND	1.0	06/12/13 10:54	
Cadmium, Dissolved	ug/L	ND	5.0	06/12/13 10:54	
Chromium, Dissolved	ug/L	ND	5.0	06/12/13 10:54	
Cobalt, Dissolved	ug/L	ND	5.0	06/12/13 10:54	
Copper, Dissolved	ug/L	ND	10.0	06/12/13 10:54	
Iron, Dissolved	ug/L	ND	50.0	06/12/13 10:54	
Lead, Dissolved	ug/L	ND	5.0	06/12/13 10:54	
Nickel, Dissolved	ug/L	ND	5.0	06/12/13 10:54	
Selenium, Dissolved	ug/L	ND	15.0	06/12/13 10:54	
Silver, Dissolved	ug/L	ND	7.0	06/12/13 10:54	
Thallium, Dissolved	ug/L	ND	20.0	06/12/13 10:54	
Zinc, Dissolved	ug/L	ND	50.0	06/12/13 10:54	

LABORATORY CONTROL SAMPLE: 1202673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10400	104	85-115	
Antimony, Dissolved	ug/L	1000	997	100	85-115	
Arsenic, Dissolved	ug/L	1000	981	98	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	992	99	85-115	
Chromium, Dissolved	ug/L	1000	985	98	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	989	99	85-115	
Iron, Dissolved	ug/L	10000	10600	106	85-115	
Lead, Dissolved	ug/L	1000	999	100	85-115	
Nickel, Dissolved	ug/L	1000	1030	103	85-115	
Selenium, Dissolved	ug/L	1000	1000	100	85-115	
Silver, Dissolved	ug/L	500	478	96	85-115	
Thallium, Dissolved	ug/L	1000	1030	103	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1202674 1202675

Parameter	Units	60146252001		MS		MSD		% Rec	% Rec	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result					
Aluminum, Dissolved	ug/L	4490	10000	10000	15500	15200	110	107	70-130	2	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1202674			1202675			MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
	60146252001 Units	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec					
Antimony, Dissolved	ug/L	38.7	1000	1000	1090	1080	105	104	70-130	1	7
Arsenic, Dissolved	ug/L	573	1000	1000	1800	1760	123	119	70-130	2	10
Beryllium, Dissolved	ug/L	ND	1000	1000	976	955	98	95	70-130	2	7
Cadmium, Dissolved	ug/L	ND	1000	1000	1130	1100	113	110	70-130	2	10
Chromium, Dissolved	ug/L	222	1000	1000	1210	1170	99	94	70-130	3	10
Cobalt, Dissolved	ug/L	34.5	1000	1000	995	977	96	94	70-130	2	6
Copper, Dissolved	ug/L	ND	1000	1000	1100	1080	110	108	70-130	2	11
Iron, Dissolved	ug/L	714000	10000	10000	745000	724000	318	106	70-130	3	10 M1
Lead, Dissolved	ug/L	86.9	1000	1000	940	916	85	83	70-130	3	10
Nickel, Dissolved	ug/L	91.5	1000	1000	1040	1020	94	92	70-130	2	10
Selenium, Dissolved	ug/L	ND	1000	1000	1090	1080	109	108	70-130	1	10
Silver, Dissolved	ug/L	16.5	500	500	66.8	104	10	18	70-130	44	10 M1,R1
Thallium, Dissolved	ug/L	ND	1000	1000	820	810	82	81	70-130	1	6
Zinc, Dissolved	ug/L	13100	1000	1000	14300	13800	121	71	70-130	4	11

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

QC Batch: MSV/54273 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60146383001, 60146383002

METHOD BLANK: 1203244 Matrix: Water

Associated Lab Samples: 60146383001, 60146383002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/12/13 11:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/12/13 11:06	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/12/13 11:06	
1,1-Dichloroethane	ug/L	ND	1.0	06/12/13 11:06	
1,1-Dichloroethene	ug/L	ND	1.0	06/12/13 11:06	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/12/13 11:06	
1,2-Dichloroethane	ug/L	ND	1.0	06/12/13 11:06	
1,2-Dichloropropane	ug/L	ND	1.0	06/12/13 11:06	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/12/13 11:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/12/13 11:06	
2-Chloroethylvinyl ether	ug/L	ND	10.0	06/12/13 11:06	
Benzene	ug/L	ND	1.0	06/12/13 11:06	
Bromodichloromethane	ug/L	ND	1.0	06/12/13 11:06	
Bromoform	ug/L	ND	1.0	06/12/13 11:06	
Bromomethane	ug/L	ND	5.0	06/12/13 11:06	
Carbon tetrachloride	ug/L	ND	1.0	06/12/13 11:06	
Chlorobenzene	ug/L	ND	1.0	06/12/13 11:06	
Chloroethane	ug/L	ND	1.0	06/12/13 11:06	
Chloroform	ug/L	ND	1.0	06/12/13 11:06	
Chloromethane	ug/L	ND	1.0	06/12/13 11:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/12/13 11:06	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/12/13 11:06	
Dibromochloromethane	ug/L	ND	1.0	06/12/13 11:06	
Ethylbenzene	ug/L	ND	1.0	06/12/13 11:06	
Methylene chloride	ug/L	ND	1.0	06/12/13 11:06	
Tetrachloroethene	ug/L	ND	1.0	06/12/13 11:06	
Toluene	ug/L	ND	1.0	06/12/13 11:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/12/13 11:06	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/12/13 11:06	
Trichloroethene	ug/L	ND	1.0	06/12/13 11:06	
Trichlorofluoromethane	ug/L	ND	1.0	06/12/13 11:06	
Vinyl chloride	ug/L	ND	1.0	06/12/13 11:06	
Xylene (Total)	ug/L	ND	3.0	06/12/13 11:06	
1,2-Dichloroethane-d4 (S)	%	106	80-120	06/12/13 11:06	
4-Bromofluorobenzene (S)	%	98	80-120	06/12/13 11:06	
Dibromofluoromethane (S)	%	99	80-120	06/12/13 11:06	
Toluene-d8 (S)	%	100	80-120	06/12/13 11:06	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

LABORATORY CONTROL SAMPLE: 1203245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.6	98	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.4	92	59-138	
1,1,2-Trichloroethane	ug/L	20	18.1	91	69-127	
1,1-Dichloroethane	ug/L	20	16.7	84	69-126	
1,1-Dichloroethene	ug/L	20	19.0	95	65-153	
1,2-Dichlorobenzene	ug/L	20	17.6	88	66-126	
1,2-Dichloroethane	ug/L	20	19.3	97	71-129	
1,2-Dichloropropane	ug/L	20	18.7	93	66-140	
1,3-Dichlorobenzene	ug/L	20	17.7	89	63-127	
1,4-Dichlorobenzene	ug/L	20	17.5	88	68-124	
2-Chloroethylvinyl ether	ug/L	20	17.7	89	33-159	
Benzene	ug/L	20	18.0	90	73-129	
Bromodichloromethane	ug/L	20	19.2	96	63-129	
Bromoform	ug/L	20	18.7	93	52-123	
Bromomethane	ug/L	20	20.8	104	10-160	
Carbon tetrachloride	ug/L	20	20.2	101	70-140	
Chlorobenzene	ug/L	20	17.8	89	68-127	
Chloroethane	ug/L	20	22.3	111	42-160	
Chloroform	ug/L	20	17.8	89	60-120	
Chloromethane	ug/L	20	21.5	108	10-160	
cis-1,2-Dichloroethene	ug/L	20	17.7	88	70-125	
cis-1,3-Dichloropropene	ug/L	20	19.3	97	66-132	
Dibromochloromethane	ug/L	20	19.8	99	63-134	
Ethylbenzene	ug/L	20	17.8	89	66-133	
Methylene chloride	ug/L	20	16.9	84	56-135	
Tetrachloroethene	ug/L	20	19.0	95	64-143	
Toluene	ug/L	20	18.1	91	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.3	92	67-149	
trans-1,3-Dichloropropene	ug/L	20	21.1	105	66-138	
Trichloroethene	ug/L	20	18.4	92	71-130	
Trichlorofluoromethane	ug/L	20	17.3	87	58-158	
Vinyl chloride	ug/L	20	18.8	94	41-160	
Xylene (Total)	ug/L	60	54.1	90	67-130	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Dibromofluoromethane (S)	%			98	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1203246

Parameter	Units	60146252001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4100	103	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3940	98	46-157	
1,1,2-Trichloroethane	ug/L	ND	4000	4070	102	52-150	
1,1-Dichloroethane	ug/L	ND	4000	3430	86	59-155	
1,1-Dichloroethene	ug/L	ND	4000	3790	95	14-160	
1,2-Dichlorobenzene	ug/L	ND	4000	3720	93	18-145	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

MATRIX SPIKE SAMPLE:		1203246		60146252001		Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits		
1,2-Dichloroethane	ug/L	ND	4000	4030	101	4030	101	49-155		
1,2-Dichloropropane	ug/L	ND	4000	4030	101	4030	101	12-160		
1,3-Dichlorobenzene	ug/L	ND	4000	3840	96	3840	96	59-146		
1,4-Dichlorobenzene	ug/L	ND	4000	3690	92	3690	92	18-147		
2-Chloroethylvinyl ether	ug/L	ND	4000	4670	117	4670	117	10-160		
Benzene	ug/L	ND	4000	3790	95	3790	95	37-151		
Bromodichloromethane	ug/L	ND	4000	3950	99	3950	99	35-155		
Bromoform	ug/L	ND	4000	4130	103	4130	103	45-133		
Bromomethane	ug/L	ND	4000	3950	99	3950	99	10-160		
Carbon tetrachloride	ug/L	ND	4000	4230	106	4230	106	70-140		
Chlorobenzene	ug/L	ND	4000	3840	96	3840	96	37-153		
Chloroethane	ug/L	ND	4000	3650	91	3650	91	14-160		
Chloroform	ug/L	ND	4000	3740	93	3740	93	51-138		
Chloromethane	ug/L	ND	4000	4450	111	4450	111	10-160		
cis-1,2-Dichloroethene	ug/L	ND	4000	3630	91	3630	91	19-160		
cis-1,3-Dichloropropene	ug/L	ND	4000	4120	103	4120	103	10-160		
Dibromochloromethane	ug/L	ND	4000	4340	109	4340	109	53-149		
Ethylbenzene	ug/L	ND	4000	3890	97	3890	97	37-154		
Methylene chloride	ug/L	ND	4000	3610	90	3610	90	15-156		
Tetrachloroethene	ug/L	ND	4000	4070	102	4070	102	64-148		
Toluene	ug/L	ND	4000	3830	96	3830	96	47-150		
trans-1,2-Dichloroethene	ug/L	ND	4000	3780	95	3780	95	54-156		
trans-1,3-Dichloropropene	ug/L	ND	4000	4610	115	4610	115	17-160		
Trichloroethene	ug/L	ND	4000	3810	95	3810	95	71-157		
Trichlorofluoromethane	ug/L	ND	4000	3730	93	3730	93	17-160		
Vinyl chloride	ug/L	ND	4000	3890	97	3890	97	10-160		
Xylene (Total)	ug/L	ND	12000	11600	97	11600	97	12-153		
1,2-Dichloroethane-d4 (S)	%				106		106	80-120		
4-Bromofluorobenzene (S)	%				102		102	80-120		
Dibromofluoromethane (S)	%				98		98	80-120		
Toluene-d8 (S)	%				99		99	80-120		
Preservation pH			7.0			7.0				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 187-MSD
Pace Project No.: 60146383

QC Batch: OEXT/38772 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60146383001

METHOD BLANK: 1201586 Matrix: Water
Associated Lab Samples: 60146383001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/10/13 13:09	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/10/13 13:09	
2,4-Dichlorophenol	ug/L	ND	5.0	06/10/13 13:09	
2,4-Dimethylphenol	ug/L	ND	5.0	06/10/13 13:09	
2,4-Dinitrophenol	ug/L	ND	50.0	06/10/13 13:09	
2,4-Dinitrotoluene	ug/L	ND	6.0	06/10/13 13:09	
2,6-Dinitrotoluene	ug/L	ND	5.0	06/10/13 13:09	
2-Chloronaphthalene	ug/L	ND	5.0	06/10/13 13:09	
2-Chlorophenol	ug/L	ND	5.0	06/10/13 13:09	
2-Nitrophenol	ug/L	ND	5.0	06/10/13 13:09	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	06/10/13 13:09	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/10/13 13:09	
4-Bromophenylphenyl ether	ug/L	ND	5.0	06/10/13 13:09	
4-Chloro-3-methylphenol	ug/L	ND	5.0	06/10/13 13:09	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	06/10/13 13:09	
4-Nitrophenol	ug/L	ND	5.0	06/10/13 13:09	
Acenaphthene	ug/L	ND	5.0	06/10/13 13:09	
Acenaphthylene	ug/L	ND	5.0	06/10/13 13:09	
Anthracene	ug/L	ND	5.0	06/10/13 13:09	
Benzidine	ug/L	ND	50.0	06/10/13 13:09	
Benzo(a)anthracene	ug/L	ND	5.0	06/10/13 13:09	
Benzo(a)pyrene	ug/L	ND	5.0	06/10/13 13:09	
Benzo(b)fluoranthene	ug/L	ND	5.0	06/10/13 13:09	
Benzo(g,h,i)perylene	ug/L	ND	5.0	06/10/13 13:09	
Benzo(k)fluoranthene	ug/L	ND	5.0	06/10/13 13:09	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	06/10/13 13:09	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	06/10/13 13:09	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	06/10/13 13:09	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	06/10/13 13:09	
Butylbenzylphthalate	ug/L	ND	5.0	06/10/13 13:09	
Chrysene	ug/L	ND	5.0	06/10/13 13:09	
Di-n-butylphthalate	ug/L	ND	5.0	06/10/13 13:09	
Di-n-octylphthalate	ug/L	ND	5.0	06/10/13 13:09	
Dibenz(a,h)anthracene	ug/L	ND	5.0	06/10/13 13:09	
Diethylphthalate	ug/L	ND	5.0	06/10/13 13:09	
Dimethylphthalate	ug/L	ND	5.0	06/10/13 13:09	
Fluoranthene	ug/L	ND	5.0	06/10/13 13:09	
Fluorene	ug/L	ND	5.0	06/10/13 13:09	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/10/13 13:09	
Hexachlorobenzene	ug/L	ND	5.0	06/10/13 13:09	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/10/13 13:09	
Hexachloroethane	ug/L	ND	5.0	06/10/13 13:09	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	06/10/13 13:09	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 187-MSD

Project No.: 60146383

METHOD BLANK: 1201586

Matrix: Water

Associated Lab Samples: 60146383001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	06/10/13 13:09	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	06/10/13 13:09	
N-Nitrosodimethylamine	ug/L	ND	5.0	06/10/13 13:09	
N-Nitrosodiphenylamine	ug/L	ND	5.0	06/10/13 13:09	
Naphthalene	ug/L	ND	5.0	06/10/13 13:09	
Nitrobenzene	ug/L	ND	5.0	06/10/13 13:09	
Pentachlorophenol	ug/L	ND	5.0	06/10/13 13:09	
Phenanthrene	ug/L	ND	5.0	06/10/13 13:09	
Phenol	ug/L	ND	5.0	06/10/13 13:09	
Pyrene	ug/L	ND	5.0	06/10/13 13:09	
2,4,6-Tribromophenol (S)	%	79	39-119	06/10/13 13:09	
2-Fluorobiphenyl (S)	%	81	36-120	06/10/13 13:09	
2-Fluorophenol (S)	%	41	18-120	06/10/13 13:09	
Nitrobenzene-d5 (S)	%	74	32-120	06/10/13 13:09	
Phenol-d6 (S)	%	26	12-120	06/10/13 13:09	
Terphenyl-d14 (S)	%	83	44-120	06/10/13 13:09	

LABORATORY CONTROL SAMPLE: 1201587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	34.3	69	44-120	
2,4,6-Trichlorophenol	ug/L	50	39.7	79	48-120	
2,4-Dichlorophenol	ug/L	50	35.9	72	48-120	
2,4-Dimethylphenol	ug/L	50	31.2	62	37-119	
2,4-Dinitrophenol	ug/L	50	40.4J	81	15-153	
2,4-Dinitrotoluene	ug/L	50	41.2	82	54-120	
2,6-Dinitrotoluene	ug/L	50	40.5	81	52-120	
2-Chloronaphthalene	ug/L	50	37.9	76	60-118	
2-Chlorophenol	ug/L	50	34.5	69	44-120	
2-Nitrophenol	ug/L	50	37.2	74	43-120	
3,3'-Dichlorobenzidine	ug/L	50	56.3	113	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	44.6	89	31-147	
4-Bromophenylphenyl ether	ug/L	50	40.7	81	53-120	
4-Chloro-3-methylphenol	ug/L	50	37.2	74	50-120	
4-Chlorophenylphenyl ether	ug/L	50	38.7	77	54-120	
4-Nitrophenol	ug/L	50	14.1	28	10-120	
Acenaphthene	ug/L	50	38.8	78	51-120	
Acenaphthylene	ug/L	50	38.1	76	51-120	
Anthracene	ug/L	50	42.5	85	54-120	
Benzidine	ug/L	50	6.8J	14	1-124	
Benzo(a)anthracene	ug/L	50	42.5	85	54-120	
Benzo(a)pyrene	ug/L	50	43.3	87	54-120	
Benzo(b)fluoranthene	ug/L	50	44.2	88	57-120	
Benzo(g,h,i)perylene	ug/L	50	42.9	86	54-120	
Benzo(k)fluoranthene	ug/L	50	43.7	87	52-121	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

LABORATORY CONTROL SAMPLE: 1201587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	50	36.2	72	51-120	
bis(2-Chloroethyl) ether	ug/L	50	36.4	73	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	38.1	76	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	43.9	88	51-126	
Butylbenzylphthalate	ug/L	50	46.4	93	45-129	
Chrysene	ug/L	50	43.3	87	54-120	
Di-n-butylphthalate	ug/L	50	43.7	87	57-118	
Di-n-octylphthalate	ug/L	50	45.9	92	48-130	
Dibenz(a,h)anthracene	ug/L	50	42.4	85	56-119	
Diethylphthalate	ug/L	50	41.5	83	55-114	
Dimethylphthalate	ug/L	50	40.9	82	54-112	
Fluoranthene	ug/L	50	41.5	83	56-120	
Fluorene	ug/L	50	38.7	77	59-120	
Hexachloro-1,3-butadiene	ug/L	50	32.1	64	41-116	
Hexachlorobenzene	ug/L	50	38.4	77	53-120	
Hexachlorocyclopentadiene	ug/L	100	56.5	56	31-120	
Hexachloroethane	ug/L	50	33.5	67	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	42.4	85	55-120	
Isophorone	ug/L	50	36.5	73	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	36.4	73	47-120	
N-Nitrosodimethylamine	ug/L	50	18.8	38	28-120	
N-Nitrosodiphenylamine	ug/L	50	40.4	81	53-120	
Naphthalene	ug/L	50	36.4	73	48-120	
Nitrobenzene	ug/L	50	35.5	71	47-120	
Pentachlorophenol	ug/L	50	42.6	85	43-127	
Phenanthrene	ug/L	50	41.6	83	55-120	
Phenol	ug/L	50	13.4	27	15-112	
Pyrene	ug/L	50	44.7	89	55-115	
2,4,6-Tribromophenol (S)	%			82	39-119	
2-Fluorobiphenyl (S)	%			76	36-120	
2-Fluorophenol (S)	%			41	18-120	
Nitrobenzene-d5 (S)	%			70	32-120	M4
Phenol-d6 (S)	%			26	12-120	
Terphenyl-d14 (S)	%			86	44-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

QC Batch: WET/41785

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60146383001

METHOD BLANK: 1202925

Matrix: Water

Associated Lab Samples: 60146383001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/11/13 15:43	

LABORATORY CONTROL SAMPLE: 1202926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	37.3	93	78-114	

MATRIX SPIKE SAMPLE: 1202927

Parameter	Units	60146283001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	47.6	42.9	88	78-114	

SAMPLE DUPLICATE: 1202928

Parameter	Units	60146283002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	ND		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

QC Batch:	WET/41834	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60146383001		

METHOD BLANK: 1204694 Matrix: Water

Associated Lab Samples: 60146383001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/14/13 07:50	

LABORATORY CONTROL SAMPLE: 1204695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.3	112	64-132	

MATRIX SPIKE SAMPLE: 1204712

Parameter	Units	60146169003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.6	17.4	77	64-132	

SAMPLE DUPLICATE: 1204713

Parameter	Units	60146169002 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 187-MSD

Pace Project No.: 60146383

QC Batch:	WET/41797	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60146383001		

METHOD BLANK: 1203411 Matrix: Water

Associated Lab Samples: 60146383001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/12/13 13:13	

SAMPLE DUPLICATE: 1203413

Parameter	Units	60146628002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 1203419

Parameter	Units	60146355001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	32.0	30.0	6	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

QC Batch: WET/41732 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60146383001

SAMPLE DUPLICATE: 1201542

Parameter	Units	60146369003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

QC Batch:	WETA/25088	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60146383001		

METHOD BLANK: 1204181 Matrix: Water

Associated Lab Samples: 60146383001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/13/13 13:11	

LABORATORY CONTROL SAMPLE: 1204182

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

MATRIX SPIKE SAMPLE: 1204183

Parameter	Units	60146644001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.8	89	90-110	M1

SAMPLE DUPLICATE: 1204184

Parameter	Units	60146644003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

QC Batch:	WETA/25072	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60146383001		

METHOD BLANK: 1203345 Matrix: Water

Associated Lab Samples: 60146383001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/16/13 10:02	

LABORATORY CONTROL SAMPLE: 1203346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	54.6	109	90-110	

MATRIX SPIKE SAMPLE: 1203347

Parameter	Units	60146171002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	28.3	50	78.0	99	90-110	

MATRIX SPIKE SAMPLE: 1203349

Parameter	Units	60146171004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	54.0	100	90-110	

SAMPLE DUPLICATE: 1203348

Parameter	Units	60146171003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	25.7	24.4	5	25	

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QUALIFIERS

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

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. |
| M4 | A matrix spike/matrix spike duplicate was not performed for this batch due to sample dilution. |
| R1 | RPD value was outside control limits. |
| S4 | Surrogate recovery not evaluated against control limits due to sample dilution. |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 187-MSD

Pace Project No.: 60146383

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60146383001	187-MSD	EPA 200.7	MPRP/23002	EPA 200.7	ICP/18176
60146383001	187-MSD	EPA 200.7	MPRP/23021	EPA 200.7	ICP/18187
60146383001	187-MSD	EPA 245.1	MERP/7415	EPA 245.1	MERC/7371
60146383001	187-MSD	EPA 245.1	MERP/7421	EPA 245.1	MERC/7376
60146383001	187-MSD	EPA 625	OEXT/38772	EPA 625	MSSV/12266
60146383001	187-MSD	EPA 624 Low	MSV/54273		
60146383002	TRIP BLANK	EPA 624 Low	MSV/54273		
60146383001	187-MSD	EPA 1664A	WET/41785		
60146383001	187-MSD	EPA 1664A	WET/41834		
60146383001	187-MSD	SM 2540D	WET/41797		
60146383001	187-MSD	SM 4500-H+B	WET/41732		
60146383001	187-MSD	EPA 350.1	WETA/25088		
60146383001	187-MSD	EPA 410.4	WETA/25072		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60146383



Client Name: Barr Engineering

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

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

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

Packing Material: Bubble Wrap [] Bubble Bags [x] Foam [] None [] Other [x] 2plc

Thermometer Used: T-112 / T-194 Type of Ice: Wet [x] Blue [] None [] Samples received on ice, cooling process has begun.

Cooler Temperature: 2.0

Date and initials of person examining contents: 6/7/13 [initials]

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. ph
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: UT		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	BP3N initial ph 6.0, added 2.5ml f.ncl ph 3.5 B035 initial ph 6.0, added 2.5ml f.ncl ph 3.5
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): Covered		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17 List State:

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

June 19, 2013

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

RE: Project: Untreated Commingled 6/6
Pace Project No.: 60146460

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 07, 2013. 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 06/19/13 to correct the result initially reported for TOC EPA 9060 on sample 6014646002.

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

Sincerely,



Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA 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: Untreated Commingled 6/6

Pace Project No.: 60146460

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60146460001	UNTREATED COMMINGLED TCLP 9	Water	06/06/13 11:09	06/07/13 00:40
60146460002	UNTREATED COMMINGLED TOC 9	Water	06/06/13 11:19	06/07/13 00:40
60146460003	UNTREATED COMMINGLED SOLIDS 9	Water	06/06/13 11:29	06/07/13 00:40
60146460004	UNTREATED COMMINGLED VO/SV 33	Water	06/06/13 11:33	06/07/13 00:40
60146460005	UNTREATED COMMINGLED VO/SV 34	Water	06/06/13 11:44	06/07/13 00:40
60146460006	UNTREATED COMMINGLED VO/SV 35	Water	06/06/13 11:55	06/07/13 00:40
60146460007	UNTREATED COMMINGLED VO/SV 36	Water	06/06/13 12:06	06/07/13 00:40
60146460008	TRIP BLANK	Water	06/06/13 11:09	06/07/13 00:40

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SAMPLE ANALYTE COUNT

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60146460001	UNTREATED COMMINGLED TCLP 9	EPA 8260	RAB	14
60146460002	UNTREATED COMMINGLED TOC 9	EPA 9060	JML	5
60146460003	UNTREATED COMMINGLED SOLIDS 9	SM 2540B	JML	1
60146460004	UNTREATED COMMINGLED VO/SV 33	EPA 8270	JMT	73
		EPA 5030B/8260	PRG	70
60146460005	UNTREATED COMMINGLED VO/SV 34	EPA 8270	JMT	73
		EPA 5030B/8260	PRG	70
60146460006	UNTREATED COMMINGLED VO/SV 35	EPA 8270	JMT	73
		EPA 5030B/8260	PRG	70
60146460007	UNTREATED COMMINGLED VO/SV 36	EPA 8270	JMT	73
		EPA 5030B/8260	PRG	70
60146460008	TRIP BLANK	EPA 5030B/8260	PRG	70

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: UNTREATED **Lab ID: 60146460001** Collected: 06/06/13 11:09 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED TCLP 9

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP		Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 06/12/13 00:00						
Benzene	ND	ug/L	250	5		06/12/13 19:20	71-43-2	
2-Butanone (MEK)	28400	ug/L	5000	5		06/12/13 19:20	78-93-3	
Carbon tetrachloride	ND	ug/L	250	5		06/12/13 19:20	56-23-5	
Chlorobenzene	ND	ug/L	250	5		06/12/13 19:20	108-90-7	
Chloroform	ND	ug/L	1000	5		06/12/13 19:20	67-66-3	
1,2-Dichloroethane	ND	ug/L	250	5		06/12/13 19:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	250	5		06/12/13 19:20	75-35-4	
Tetrachloroethene	ND	ug/L	250	5		06/12/13 19:20	127-18-4	
Trichloroethene	ND	ug/L	250	5		06/12/13 19:20	79-01-6	
Vinyl chloride	ND	ug/L	500	5		06/12/13 19:20	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	96 %		80-120	5		06/12/13 19:20	17060-07-0	
Toluene-d8 (S)	99 %		80-120	5		06/12/13 19:20	2037-26-5	
4-Bromofluorobenzene (S)	98 %		80-120	5		06/12/13 19:20	460-00-4	
Dibromofluoromethane (S)	101 %		80-120	5		06/12/13 19:20	1868-53-7	

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: UNTREATED **Lab ID: 60146460002** Collected: 06/06/13 11:19 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED TOC 9

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon		Analytical Method: EPA 9060						
Mean Total Organic Carbon	40700	mg/L	2000	2000		06/14/13 10:07	7440-44-0	1e
Total Organic Carbon	41100	mg/L	2000	2000		06/14/13 10:07	7440-44-0	
Total Organic Carbon	40800	mg/L	2000	2000		06/14/13 10:07	7440-44-0	
Total Organic Carbon	41200	mg/L	2000	2000		06/14/13 10:07	7440-44-0	
Total Organic Carbon	39600	mg/L	2000	2000		06/14/13 10:07	7440-44-0	

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: UNTREATED **Lab ID: 60146460003** Collected: 06/06/13 11:29 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED SOLIDS 9

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540B Total Solids		Analytical Method: SM 2540B						
Total Solids	49300	mg/L	5.0	1		06/13/13 16:44		

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: UNTREATED **Lab ID: 60146460004** Collected: 06/06/13 11:33 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED VO/SV 33

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	83-32-9	
Acenaphthylene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	208-96-8	
Anthracene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	120-12-7	
Benzo(a)anthracene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	56-55-3	
Benzo(a)pyrene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	207-08-9	
Benzoic acid	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 13:51	65-85-0	
Benzyl alcohol	ND	ug/L	400	20	06/08/13 00:00	06/10/13 13:51	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	101-55-3	
Butylbenzylphthalate	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	85-68-7	
Carbazole	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	400	20	06/08/13 00:00	06/10/13 13:51	59-50-7	
4-Chloroaniline	ND	ug/L	400	20	06/08/13 00:00	06/10/13 13:51	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	39638-32-9	
2-Chloronaphthalene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	91-58-7	
2-Chlorophenol	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	7005-72-3	
Chrysene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	53-70-3	
Dibenzofuran	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	400	20	06/08/13 00:00	06/10/13 13:51	91-94-1	
2,4-Dichlorophenol	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	120-83-2	
Diethylphthalate	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	84-66-2	
2,4-Dimethylphenol	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	105-67-9	
Dimethylphthalate	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	131-11-3	
Di-n-butylphthalate	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 13:51	534-52-1	
2,4-Dinitrophenol	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 13:51	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	606-20-2	
Di-n-octylphthalate	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	117-81-7	
Fluoranthene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	206-44-0	
Fluorene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	87-68-3	
Hexachlorobenzene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	77-47-4	
Hexachloroethane	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	193-39-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: UNTREATED **Lab ID: 60146460004** Collected: 06/06/13 11:33 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED VO/SV 33

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Isophorone	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	78-59-1	
2-Methylnaphthalene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	95-48-7	
3&4-Methylphenol(m&p Cresol)	559	ug/L	200	20	06/08/13 00:00	06/10/13 13:51		
Naphthalene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	91-20-3	
2-Nitroaniline	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 13:51	88-74-4	
3-Nitroaniline	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 13:51	99-09-2	
4-Nitroaniline	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 13:51	100-01-6	
Nitrobenzene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	98-95-3	
2-Nitrophenol	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	88-75-5	
4-Nitrophenol	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 13:51	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	86-30-6	
Pentachlorophenol	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 13:51	87-86-5	
Phenanthrene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	85-01-8	
Phenol	1420	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	108-95-2	
Pyrene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	129-00-0	
Pyridine	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 13:51	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	200	20	06/08/13 00:00	06/10/13 13:51	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0 %		10-159	20	06/08/13 00:00	06/10/13 13:51	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		15-149	20	06/08/13 00:00	06/10/13 13:51	321-60-8	S4
Terphenyl-d14 (S)	0 %		25-142	20	06/08/13 00:00	06/10/13 13:51	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	20	06/08/13 00:00	06/10/13 13:51	13127-88-3	S4
2-Fluorophenol (S)	0 %		16-120	20	06/08/13 00:00	06/10/13 13:51	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		37-120	20	06/08/13 00:00	06/10/13 13:51	118-79-6	S4
8260 MSV		Analytical Method: EPA 5030B/8260						
Acetone	101000	ug/L	5000	500		06/12/13 11:16	67-64-1	
Benzene	420	ug/L	200	200		06/11/13 12:23	71-43-2	
Bromobenzene	ND	ug/L	200	200		06/11/13 12:23	108-86-1	
Bromochloromethane	ND	ug/L	200	200		06/11/13 12:23	74-97-5	
Bromodichloromethane	ND	ug/L	200	200		06/11/13 12:23	75-27-4	
Bromoform	ND	ug/L	200	200		06/11/13 12:23	75-25-2	
Bromomethane	ND	ug/L	1000	200		06/11/13 12:23	74-83-9	
2-Butanone (MEK)	44100	ug/L	2000	200		06/11/13 12:23	78-93-3	
n-Butylbenzene	ND	ug/L	200	200		06/11/13 12:23	104-51-8	
sec-Butylbenzene	ND	ug/L	200	200		06/11/13 12:23	135-98-8	
tert-Butylbenzene	ND	ug/L	200	200		06/11/13 12:23	98-06-6	
Carbon disulfide	ND	ug/L	1000	200		06/11/13 12:23	75-15-0	
Carbon tetrachloride	ND	ug/L	200	200		06/11/13 12:23	56-23-5	
Chlorobenzene	ND	ug/L	200	200		06/11/13 12:23	108-90-7	
Chloroethane	ND	ug/L	200	200		06/11/13 12:23	75-00-3	
Chloroform	ND	ug/L	200	200		06/11/13 12:23	67-66-3	

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: UNTREATED **Lab ID: 60146460004** Collected: 06/06/13 11:33 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED VO/SV 33

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Chloromethane	ND	ug/L	200	200		06/11/13 12:23	74-87-3	
2-Chlorotoluene	ND	ug/L	200	200		06/11/13 12:23	95-49-8	
4-Chlorotoluene	ND	ug/L	200	200		06/11/13 12:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	500	200		06/11/13 12:23	96-12-8	
Dibromochloromethane	ND	ug/L	200	200		06/11/13 12:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	200	200		06/11/13 12:23	106-93-4	L3
Dibromomethane	ND	ug/L	200	200		06/11/13 12:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200	200		06/11/13 12:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200	200		06/11/13 12:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	200	200		06/11/13 12:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	200	200		06/11/13 12:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	200	200		06/11/13 12:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	200	200		06/11/13 12:23	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	200	200		06/11/13 12:23	540-59-0	
1,1-Dichloroethene	ND	ug/L	200	200		06/11/13 12:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200	200		06/11/13 12:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	200		06/11/13 12:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	200	200		06/11/13 12:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	200	200		06/11/13 12:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	200		06/11/13 12:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	200	200		06/11/13 12:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	200		06/11/13 12:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	200		06/11/13 12:23	10061-02-6	L3
Ethylbenzene	ND	ug/L	200	200		06/11/13 12:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	200		06/11/13 12:23	87-68-3	
2-Hexanone	ND	ug/L	2000	200		06/11/13 12:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	200	200		06/11/13 12:23	98-82-8	
p-Isopropyltoluene	240	ug/L	200	200		06/11/13 12:23	99-87-6	
Methylene chloride	ND	ug/L	200	200		06/11/13 12:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2000	200		06/11/13 12:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200	200		06/11/13 12:23	1634-04-4	
Naphthalene	ND	ug/L	2000	200		06/11/13 12:23	91-20-3	
n-Propylbenzene	ND	ug/L	200	200		06/11/13 12:23	103-65-1	
Styrene	ND	ug/L	200	200		06/11/13 12:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	200		06/11/13 12:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		06/11/13 12:23	79-34-5	
Tetrachloroethene	ND	ug/L	200	200		06/11/13 12:23	127-18-4	
Toluene	ND	ug/L	200	200		06/11/13 12:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200	200		06/11/13 12:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200	200		06/11/13 12:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200	200		06/11/13 12:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		06/11/13 12:23	79-00-5	
Trichloroethene	ND	ug/L	200	200		06/11/13 12:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	200	200		06/11/13 12:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	500	200		06/11/13 12:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	200	200		06/11/13 12:23	95-63-6	

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: UNTREATED **Lab ID: 60146460004** Collected: 06/06/13 11:33 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED VO/SV 33

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
1,3,5-Trimethylbenzene	ND	ug/L	200	200		06/11/13 12:23	108-67-8	
Vinyl chloride	ND	ug/L	200	200		06/11/13 12:23	75-01-4	
Xylene (Total)	ND	ug/L	600	200		06/11/13 12:23	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	95	%	80-120	200		06/11/13 12:23	460-00-4	
Dibromofluoromethane (S)	104	%	80-120	200		06/11/13 12:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	80-120	200		06/11/13 12:23	17060-07-0	
Toluene-d8 (S)	99	%	80-120	200		06/11/13 12:23	2037-26-5	
Preservation pH	1.0		0.10	200		06/11/13 12:23		

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: UNTREATED **Lab ID: 60146460005** Collected: 06/06/13 11:44 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED VO/SV 34

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	83-32-9	
Acenaphthylene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	208-96-8	
Anthracene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	120-12-7	
Benzo(a)anthracene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	56-55-3	
Benzo(a)pyrene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	207-08-9	
Benzoic acid	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 14:12	65-85-0	
Benzyl alcohol	467	ug/L	400	20	06/08/13 00:00	06/10/13 14:12	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	101-55-3	
Butylbenzylphthalate	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	85-68-7	
Carbazole	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	400	20	06/08/13 00:00	06/10/13 14:12	59-50-7	
4-Chloroaniline	ND	ug/L	400	20	06/08/13 00:00	06/10/13 14:12	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	39638-32-9	
2-Chloronaphthalene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	91-58-7	
2-Chlorophenol	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	7005-72-3	
Chrysene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	53-70-3	
Dibenzofuran	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	400	20	06/08/13 00:00	06/10/13 14:12	91-94-1	
2,4-Dichlorophenol	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	120-83-2	
Diethylphthalate	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	84-66-2	
2,4-Dimethylphenol	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	105-67-9	
Dimethylphthalate	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	131-11-3	
Di-n-butylphthalate	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 14:12	534-52-1	
2,4-Dinitrophenol	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 14:12	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	606-20-2	
Di-n-octylphthalate	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	117-81-7	
Fluoranthene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	206-44-0	
Fluorene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	87-68-3	
Hexachlorobenzene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	77-47-4	
Hexachloroethane	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	193-39-5	

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: UNTREATED **Lab ID:** 60146460005 Collected: 06/06/13 11:44 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED VO/SV 34

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Isophorone	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	78-59-1	
2-Methylnaphthalene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	95-48-7	
3&4-Methylphenol(m&p Cresol)	758	ug/L	200	20	06/08/13 00:00	06/10/13 14:12		
Naphthalene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	91-20-3	
2-Nitroaniline	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 14:12	88-74-4	
3-Nitroaniline	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 14:12	99-09-2	
4-Nitroaniline	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 14:12	100-01-6	
Nitrobenzene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	98-95-3	
2-Nitrophenol	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	88-75-5	
4-Nitrophenol	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 14:12	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	86-30-6	
Pentachlorophenol	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 14:12	87-86-5	
Phenanthrene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	85-01-8	
Phenol	1890	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	108-95-2	
Pyrene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	129-00-0	
Pyridine	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 14:12	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:12	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0 %		10-159	20	06/08/13 00:00	06/10/13 14:12	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		15-149	20	06/08/13 00:00	06/10/13 14:12	321-60-8	S4
Terphenyl-d14 (S)	0 %		25-142	20	06/08/13 00:00	06/10/13 14:12	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	20	06/08/13 00:00	06/10/13 14:12	13127-88-3	S4
2-Fluorophenol (S)	0 %		16-120	20	06/08/13 00:00	06/10/13 14:12	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		37-120	20	06/08/13 00:00	06/10/13 14:12	118-79-6	S4
8260 MSV		Analytical Method: EPA 5030B/8260						
Acetone	99500	ug/L	5000	500		06/12/13 11:31	67-64-1	
Benzene	452	ug/L	200	200		06/11/13 12:37	71-43-2	
Bromobenzene	ND	ug/L	200	200		06/11/13 12:37	108-86-1	
Bromochloromethane	ND	ug/L	200	200		06/11/13 12:37	74-97-5	
Bromodichloromethane	ND	ug/L	200	200		06/11/13 12:37	75-27-4	
Bromoform	ND	ug/L	200	200		06/11/13 12:37	75-25-2	
Bromomethane	ND	ug/L	1000	200		06/11/13 12:37	74-83-9	
2-Butanone (MEK)	45600	ug/L	2000	200		06/11/13 12:37	78-93-3	
n-Butylbenzene	ND	ug/L	200	200		06/11/13 12:37	104-51-8	
sec-Butylbenzene	ND	ug/L	200	200		06/11/13 12:37	135-98-8	
tert-Butylbenzene	ND	ug/L	200	200		06/11/13 12:37	98-06-6	
Carbon disulfide	ND	ug/L	1000	200		06/11/13 12:37	75-15-0	
Carbon tetrachloride	ND	ug/L	200	200		06/11/13 12:37	56-23-5	
Chlorobenzene	ND	ug/L	200	200		06/11/13 12:37	108-90-7	
Chloroethane	ND	ug/L	200	200		06/11/13 12:37	75-00-3	
Chloroform	ND	ug/L	200	200		06/11/13 12:37	67-66-3	

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: UNTREATED **Lab ID: 60146460005** Collected: 06/06/13 11:44 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED VO/SV 34

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Chloromethane	ND	ug/L	200	200		06/11/13 12:37	74-87-3	
2-Chlorotoluene	ND	ug/L	200	200		06/11/13 12:37	95-49-8	
4-Chlorotoluene	ND	ug/L	200	200		06/11/13 12:37	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	500	200		06/11/13 12:37	96-12-8	
Dibromochloromethane	ND	ug/L	200	200		06/11/13 12:37	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	200	200		06/11/13 12:37	106-93-4	L3
Dibromomethane	ND	ug/L	200	200		06/11/13 12:37	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200	200		06/11/13 12:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200	200		06/11/13 12:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	200	200		06/11/13 12:37	106-46-7	
Dichlorodifluoromethane	ND	ug/L	200	200		06/11/13 12:37	75-71-8	
1,1-Dichloroethane	ND	ug/L	200	200		06/11/13 12:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	200	200		06/11/13 12:37	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	200	200		06/11/13 12:37	540-59-0	
1,1-Dichloroethene	ND	ug/L	200	200		06/11/13 12:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200	200		06/11/13 12:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	200		06/11/13 12:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	200	200		06/11/13 12:37	78-87-5	
1,3-Dichloropropane	ND	ug/L	200	200		06/11/13 12:37	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	200		06/11/13 12:37	594-20-7	
1,1-Dichloropropene	ND	ug/L	200	200		06/11/13 12:37	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	200		06/11/13 12:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	200		06/11/13 12:37	10061-02-6	L3
Ethylbenzene	ND	ug/L	200	200		06/11/13 12:37	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	200		06/11/13 12:37	87-68-3	
2-Hexanone	ND	ug/L	2000	200		06/11/13 12:37	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	200	200		06/11/13 12:37	98-82-8	
p-Isopropyltoluene	283	ug/L	200	200		06/11/13 12:37	99-87-6	
Methylene chloride	ND	ug/L	200	200		06/11/13 12:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2000	200		06/11/13 12:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200	200		06/11/13 12:37	1634-04-4	
Naphthalene	ND	ug/L	2000	200		06/11/13 12:37	91-20-3	
n-Propylbenzene	ND	ug/L	200	200		06/11/13 12:37	103-65-1	
Styrene	ND	ug/L	200	200		06/11/13 12:37	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	200		06/11/13 12:37	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		06/11/13 12:37	79-34-5	
Tetrachloroethene	ND	ug/L	200	200		06/11/13 12:37	127-18-4	
Toluene	ND	ug/L	200	200		06/11/13 12:37	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200	200		06/11/13 12:37	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200	200		06/11/13 12:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200	200		06/11/13 12:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		06/11/13 12:37	79-00-5	
Trichloroethene	ND	ug/L	200	200		06/11/13 12:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	200	200		06/11/13 12:37	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	500	200		06/11/13 12:37	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	200	200		06/11/13 12:37	95-63-6	

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: **UNTREATED** **Lab ID:** **60146460005** Collected: 06/06/13 11:44 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED VO/SV 34

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
1,3,5-Trimethylbenzene	ND	ug/L	200	200		06/11/13 12:37	108-67-8	
Vinyl chloride	ND	ug/L	200	200		06/11/13 12:37	75-01-4	
Xylene (Total)	ND	ug/L	600	200		06/11/13 12:37	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	96	%	80-120	200		06/11/13 12:37	460-00-4	
Dibromofluoromethane (S)	105	%	80-120	200		06/11/13 12:37	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	80-120	200		06/11/13 12:37	17060-07-0	
Toluene-d8 (S)	101	%	80-120	200		06/11/13 12:37	2037-26-5	
Preservation pH	1.0		0.10	200		06/11/13 12:37		

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: UNTREATED **Lab ID: 60146460006** Collected: 06/06/13 11:55 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED VO/SV 35

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	83-32-9	
Acenaphthylene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	208-96-8	
Anthracene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	120-12-7	
Benzo(a)anthracene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	56-55-3	
Benzo(a)pyrene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	207-08-9	
Benzoic acid	22000	ug/L	20000	40	06/10/13 00:00	06/11/13 11:54	65-85-0	
Benzyl alcohol	6280	ug/L	4000	20	06/10/13 00:00	06/11/13 10:51	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	101-55-3	
Butylbenzylphthalate	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	85-68-7	
Carbazole	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	4000	20	06/10/13 00:00	06/11/13 10:51	59-50-7	
4-Chloroaniline	ND	ug/L	4000	20	06/10/13 00:00	06/11/13 10:51	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	39638-32-9	
2-Chloronaphthalene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	91-58-7	
2-Chlorophenol	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	7005-72-3	
Chrysene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	53-70-3	
Dibenzofuran	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	4000	20	06/10/13 00:00	06/11/13 10:51	91-94-1	
2,4-Dichlorophenol	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	120-83-2	
Diethylphthalate	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	84-66-2	
2,4-Dimethylphenol	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	105-67-9	
Dimethylphthalate	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	131-11-3	
Di-n-butylphthalate	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	10000	20	06/10/13 00:00	06/11/13 10:51	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10000	20	06/10/13 00:00	06/11/13 10:51	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	606-20-2	
Di-n-octylphthalate	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	117-81-7	
Fluoranthene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	206-44-0	
Fluorene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	87-68-3	
Hexachlorobenzene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	77-47-4	
Hexachloroethane	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	193-39-5	

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: UNTREATED **Lab ID:** 60146460006 Collected: 06/06/13 11:55 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED VO/SV 35

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Isophorone	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	78-59-1	
2-Methylnaphthalene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	95-48-7	
3&4-Methylphenol(m&p Cresol)	8330	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51		
Naphthalene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	91-20-3	
2-Nitroaniline	ND	ug/L	10000	20	06/10/13 00:00	06/11/13 10:51	88-74-4	
3-Nitroaniline	ND	ug/L	10000	20	06/10/13 00:00	06/11/13 10:51	99-09-2	
4-Nitroaniline	ND	ug/L	10000	20	06/10/13 00:00	06/11/13 10:51	100-01-6	
Nitrobenzene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	98-95-3	
2-Nitrophenol	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	88-75-5	
4-Nitrophenol	ND	ug/L	10000	20	06/10/13 00:00	06/11/13 10:51	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	86-30-6	
Pentachlorophenol	ND	ug/L	10000	20	06/10/13 00:00	06/11/13 10:51	87-86-5	
Phenanthrene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	85-01-8	
Phenol	15100	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	108-95-2	
Pyrene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	129-00-0	
Pyridine	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	10000	20	06/10/13 00:00	06/11/13 10:51	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	2000	20	06/10/13 00:00	06/11/13 10:51	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0 %		10-159	20	06/10/13 00:00	06/11/13 10:51	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		15-149	20	06/10/13 00:00	06/11/13 10:51	321-60-8	S4
Terphenyl-d14 (S)	0 %		25-142	20	06/10/13 00:00	06/11/13 10:51	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	20	06/10/13 00:00	06/11/13 10:51	13127-88-3	S4
2-Fluorophenol (S)	0 %		16-120	20	06/10/13 00:00	06/11/13 10:51	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		37-120	20	06/10/13 00:00	06/11/13 10:51	118-79-6	S4
8260 MSV		Analytical Method: EPA 5030B/8260						
Acetone	103000	ug/L	5000	500		06/12/13 11:45	67-64-1	
Benzene	447	ug/L	200	200		06/11/13 12:52	71-43-2	
Bromobenzene	ND	ug/L	200	200		06/11/13 12:52	108-86-1	
Bromochloromethane	ND	ug/L	200	200		06/11/13 12:52	74-97-5	
Bromodichloromethane	ND	ug/L	200	200		06/11/13 12:52	75-27-4	
Bromoform	ND	ug/L	200	200		06/11/13 12:52	75-25-2	
Bromomethane	ND	ug/L	1000	200		06/11/13 12:52	74-83-9	
2-Butanone (MEK)	49700	ug/L	2000	200		06/11/13 12:52	78-93-3	
n-Butylbenzene	ND	ug/L	200	200		06/11/13 12:52	104-51-8	
sec-Butylbenzene	ND	ug/L	200	200		06/11/13 12:52	135-98-8	
tert-Butylbenzene	ND	ug/L	200	200		06/11/13 12:52	98-06-6	
Carbon disulfide	ND	ug/L	1000	200		06/11/13 12:52	75-15-0	
Carbon tetrachloride	ND	ug/L	200	200		06/11/13 12:52	56-23-5	
Chlorobenzene	ND	ug/L	200	200		06/11/13 12:52	108-90-7	
Chloroethane	ND	ug/L	200	200		06/11/13 12:52	75-00-3	
Chloroform	ND	ug/L	200	200		06/11/13 12:52	67-66-3	

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: UNTREATED **Lab ID: 60146460006** Collected: 06/06/13 11:55 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED VO/SV 35

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Chloromethane	ND	ug/L	200	200		06/11/13 12:52	74-87-3	
2-Chlorotoluene	ND	ug/L	200	200		06/11/13 12:52	95-49-8	
4-Chlorotoluene	ND	ug/L	200	200		06/11/13 12:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	500	200		06/11/13 12:52	96-12-8	
Dibromochloromethane	ND	ug/L	200	200		06/11/13 12:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	200	200		06/11/13 12:52	106-93-4	L3
Dibromomethane	ND	ug/L	200	200		06/11/13 12:52	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200	200		06/11/13 12:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200	200		06/11/13 12:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	200	200		06/11/13 12:52	106-46-7	
Dichlorodifluoromethane	ND	ug/L	200	200		06/11/13 12:52	75-71-8	
1,1-Dichloroethane	ND	ug/L	200	200		06/11/13 12:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	200	200		06/11/13 12:52	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	200	200		06/11/13 12:52	540-59-0	
1,1-Dichloroethene	ND	ug/L	200	200		06/11/13 12:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200	200		06/11/13 12:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	200		06/11/13 12:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	200	200		06/11/13 12:52	78-87-5	
1,3-Dichloropropane	ND	ug/L	200	200		06/11/13 12:52	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	200		06/11/13 12:52	594-20-7	
1,1-Dichloropropene	ND	ug/L	200	200		06/11/13 12:52	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	200		06/11/13 12:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	200		06/11/13 12:52	10061-02-6	L3
Ethylbenzene	ND	ug/L	200	200		06/11/13 12:52	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	200		06/11/13 12:52	87-68-3	
2-Hexanone	ND	ug/L	2000	200		06/11/13 12:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	200	200		06/11/13 12:52	98-82-8	
p-Isopropyltoluene	288	ug/L	200	200		06/11/13 12:52	99-87-6	
Methylene chloride	ND	ug/L	200	200		06/11/13 12:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2000	200		06/11/13 12:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200	200		06/11/13 12:52	1634-04-4	
Naphthalene	ND	ug/L	2000	200		06/11/13 12:52	91-20-3	
n-Propylbenzene	ND	ug/L	200	200		06/11/13 12:52	103-65-1	
Styrene	ND	ug/L	200	200		06/11/13 12:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	200		06/11/13 12:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		06/11/13 12:52	79-34-5	
Tetrachloroethene	ND	ug/L	200	200		06/11/13 12:52	127-18-4	
Toluene	ND	ug/L	200	200		06/11/13 12:52	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200	200		06/11/13 12:52	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200	200		06/11/13 12:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200	200		06/11/13 12:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		06/11/13 12:52	79-00-5	
Trichloroethene	ND	ug/L	200	200		06/11/13 12:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	200	200		06/11/13 12:52	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	500	200		06/11/13 12:52	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	200	200		06/11/13 12:52	95-63-6	

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: UNTREATED **Lab ID:** 60146460006 Collected: 06/06/13 11:55 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED VO/SV 35

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
1,3,5-Trimethylbenzene	ND	ug/L	200	200		06/11/13 12:52	108-67-8	
Vinyl chloride	ND	ug/L	200	200		06/11/13 12:52	75-01-4	
Xylene (Total)	ND	ug/L	600	200		06/11/13 12:52	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99 %		80-120	200		06/11/13 12:52	460-00-4	
Dibromofluoromethane (S)	105 %		80-120	200		06/11/13 12:52	1868-53-7	
1,2-Dichloroethane-d4 (S)	103 %		80-120	200		06/11/13 12:52	17060-07-0	
Toluene-d8 (S)	100 %		80-120	200		06/11/13 12:52	2037-26-5	
Preservation pH	1.0		0.10	200		06/11/13 12:52		

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: UNTREATED **Lab ID: 60146460007** Collected: 06/06/13 12:06 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED VO/SV 36

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	83-32-9	
Acenaphthylene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	208-96-8	
Anthracene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	120-12-7	
Benzo(a)anthracene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	56-55-3	
Benzo(a)pyrene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	207-08-9	
Benzoic acid	1200	ug/L	1000	20	06/08/13 00:00	06/10/13 14:34	65-85-0	
Benzyl alcohol	655	ug/L	400	20	06/08/13 00:00	06/10/13 14:34	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	101-55-3	
Butylbenzylphthalate	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	85-68-7	
Carbazole	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	400	20	06/08/13 00:00	06/10/13 14:34	59-50-7	
4-Chloroaniline	ND	ug/L	400	20	06/08/13 00:00	06/10/13 14:34	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	39638-32-9	
2-Chloronaphthalene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	91-58-7	
2-Chlorophenol	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	7005-72-3	
Chrysene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	53-70-3	
Dibenzofuran	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	400	20	06/08/13 00:00	06/10/13 14:34	91-94-1	
2,4-Dichlorophenol	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	120-83-2	
Diethylphthalate	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	84-66-2	
2,4-Dimethylphenol	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	105-67-9	
Dimethylphthalate	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	131-11-3	
Di-n-butylphthalate	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 14:34	534-52-1	
2,4-Dinitrophenol	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 14:34	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	606-20-2	
Di-n-octylphthalate	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	117-81-7	
Fluoranthene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	206-44-0	
Fluorene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	87-68-3	
Hexachlorobenzene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	77-47-4	
Hexachloroethane	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	193-39-5	

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: UNTREATED **Lab ID:** 60146460007 Collected: 06/06/13 12:06 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED VO/SV 36

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510

Isophorone	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	78-59-1	
2-Methylnaphthalene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	95-48-7	
3&4-Methylphenol(m&p Cresol)	1050	ug/L	200	20	06/08/13 00:00	06/10/13 14:34		
Naphthalene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	91-20-3	
2-Nitroaniline	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 14:34	88-74-4	
3-Nitroaniline	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 14:34	99-09-2	
4-Nitroaniline	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 14:34	100-01-6	
Nitrobenzene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	98-95-3	
2-Nitrophenol	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	88-75-5	
4-Nitrophenol	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 14:34	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	86-30-6	
Pentachlorophenol	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 14:34	87-86-5	
Phenanthrene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	85-01-8	
Phenol	2460	ug/L	500	50	06/08/13 00:00	06/11/13 11:12	108-95-2	
Pyrene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	129-00-0	
Pyridine	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	1000	20	06/08/13 00:00	06/10/13 14:34	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	200	20	06/08/13 00:00	06/10/13 14:34	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0 %		10-159	20	06/08/13 00:00	06/10/13 14:34	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		15-149	20	06/08/13 00:00	06/10/13 14:34	321-60-8	S4
Terphenyl-d14 (S)	0 %		25-142	20	06/08/13 00:00	06/10/13 14:34	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	20	06/08/13 00:00	06/10/13 14:34	13127-88-3	S4
2-Fluorophenol (S)	0 %		16-120	20	06/08/13 00:00	06/10/13 14:34	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		37-120	20	06/08/13 00:00	06/10/13 14:34	118-79-6	S4

8260 MSV Analytical Method: EPA 5030B/8260

Acetone	99000	ug/L	5000	500		06/12/13 12:00	67-64-1	
Benzene	454	ug/L	200	200		06/11/13 13:07	71-43-2	
Bromobenzene	ND	ug/L	200	200		06/11/13 13:07	108-86-1	
Bromochloromethane	ND	ug/L	200	200		06/11/13 13:07	74-97-5	
Bromodichloromethane	ND	ug/L	200	200		06/11/13 13:07	75-27-4	
Bromoform	ND	ug/L	200	200		06/11/13 13:07	75-25-2	
Bromomethane	ND	ug/L	1000	200		06/11/13 13:07	74-83-9	
2-Butanone (MEK)	44600	ug/L	2000	200		06/11/13 13:07	78-93-3	
n-Butylbenzene	ND	ug/L	200	200		06/11/13 13:07	104-51-8	
sec-Butylbenzene	ND	ug/L	200	200		06/11/13 13:07	135-98-8	
tert-Butylbenzene	ND	ug/L	200	200		06/11/13 13:07	98-06-6	
Carbon disulfide	ND	ug/L	1000	200		06/11/13 13:07	75-15-0	
Carbon tetrachloride	ND	ug/L	200	200		06/11/13 13:07	56-23-5	
Chlorobenzene	ND	ug/L	200	200		06/11/13 13:07	108-90-7	
Chloroethane	ND	ug/L	200	200		06/11/13 13:07	75-00-3	
Chloroform	ND	ug/L	200	200		06/11/13 13:07	67-66-3	

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: UNTREATED **Lab ID: 60146460007** Collected: 06/06/13 12:06 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED VO/SV 36

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Chloromethane	ND	ug/L	200	200		06/11/13 13:07	74-87-3	
2-Chlorotoluene	ND	ug/L	200	200		06/11/13 13:07	95-49-8	
4-Chlorotoluene	ND	ug/L	200	200		06/11/13 13:07	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	500	200		06/11/13 13:07	96-12-8	
Dibromochloromethane	ND	ug/L	200	200		06/11/13 13:07	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	200	200		06/11/13 13:07	106-93-4	L3
Dibromomethane	ND	ug/L	200	200		06/11/13 13:07	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200	200		06/11/13 13:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200	200		06/11/13 13:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	200	200		06/11/13 13:07	106-46-7	
Dichlorodifluoromethane	ND	ug/L	200	200		06/11/13 13:07	75-71-8	
1,1-Dichloroethane	ND	ug/L	200	200		06/11/13 13:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	200	200		06/11/13 13:07	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	200	200		06/11/13 13:07	540-59-0	
1,1-Dichloroethene	ND	ug/L	200	200		06/11/13 13:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200	200		06/11/13 13:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	200		06/11/13 13:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	200	200		06/11/13 13:07	78-87-5	
1,3-Dichloropropane	ND	ug/L	200	200		06/11/13 13:07	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	200		06/11/13 13:07	594-20-7	
1,1-Dichloropropene	ND	ug/L	200	200		06/11/13 13:07	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	200		06/11/13 13:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	200		06/11/13 13:07	10061-02-6	L3
Ethylbenzene	ND	ug/L	200	200		06/11/13 13:07	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	200		06/11/13 13:07	87-68-3	
2-Hexanone	ND	ug/L	2000	200		06/11/13 13:07	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	200	200		06/11/13 13:07	98-82-8	
p-Isopropyltoluene	272	ug/L	200	200		06/11/13 13:07	99-87-6	
Methylene chloride	ND	ug/L	200	200		06/11/13 13:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2000	200		06/11/13 13:07	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200	200		06/11/13 13:07	1634-04-4	
Naphthalene	ND	ug/L	2000	200		06/11/13 13:07	91-20-3	
n-Propylbenzene	ND	ug/L	200	200		06/11/13 13:07	103-65-1	
Styrene	ND	ug/L	200	200		06/11/13 13:07	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	200		06/11/13 13:07	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		06/11/13 13:07	79-34-5	
Tetrachloroethene	ND	ug/L	200	200		06/11/13 13:07	127-18-4	
Toluene	ND	ug/L	200	200		06/11/13 13:07	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200	200		06/11/13 13:07	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200	200		06/11/13 13:07	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200	200		06/11/13 13:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		06/11/13 13:07	79-00-5	
Trichloroethene	ND	ug/L	200	200		06/11/13 13:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	200	200		06/11/13 13:07	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	500	200		06/11/13 13:07	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	200	200		06/11/13 13:07	95-63-6	

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: UNTREATED **Lab ID: 60146460007** Collected: 06/06/13 12:06 Received: 06/07/13 00:40 Matrix: Water
COMMINGLED VO/SV 36

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
1,3,5-Trimethylbenzene	ND	ug/L	200	200		06/11/13 13:07	108-67-8	
Vinyl chloride	ND	ug/L	200	200		06/11/13 13:07	75-01-4	
Xylene (Total)	ND	ug/L	600	200		06/11/13 13:07	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	200		06/11/13 13:07	460-00-4	
Dibromofluoromethane (S)	101	%	80-120	200		06/11/13 13:07	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	80-120	200		06/11/13 13:07	17060-07-0	
Toluene-d8 (S)	102	%	80-120	200		06/11/13 13:07	2037-26-5	
Preservation pH	1.0		0.10	200		06/11/13 13:07		

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: TRIP BLANK	Lab ID: 60146460008	Collected: 06/06/13 11:09	Received: 06/07/13 00:40	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		06/12/13 10:32	67-64-1	
Benzene	ND ug/L		1.0	1		06/11/13 13:21	71-43-2	
Bromobenzene	ND ug/L		1.0	1		06/11/13 13:21	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		06/11/13 13:21	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		06/11/13 13:21	75-27-4	
Bromoform	ND ug/L		1.0	1		06/11/13 13:21	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/11/13 13:21	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		06/11/13 13:21	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		06/11/13 13:21	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		06/11/13 13:21	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		06/11/13 13:21	98-06-6	
Carbon disulfide	ND ug/L		5.0	1		06/11/13 13:21	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		06/11/13 13:21	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		06/11/13 13:21	108-90-7	
Chloroethane	ND ug/L		1.0	1		06/11/13 13:21	75-00-3	
Chloroform	ND ug/L		1.0	1		06/11/13 13:21	67-66-3	
Chloromethane	ND ug/L		1.0	1		06/11/13 13:21	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		06/11/13 13:21	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		06/11/13 13:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		2.5	1		06/11/13 13:21	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		06/11/13 13:21	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		06/11/13 13:21	106-93-4	L3
Dibromomethane	ND ug/L		1.0	1		06/11/13 13:21	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		06/11/13 13:21	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		06/11/13 13:21	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/11/13 13:21	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		06/11/13 13:21	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		06/11/13 13:21	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		06/11/13 13:21	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		1.0	1		06/11/13 13:21	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		06/11/13 13:21	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/11/13 13:21	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/11/13 13:21	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		06/11/13 13:21	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		06/11/13 13:21	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	1		06/11/13 13:21	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		06/11/13 13:21	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		06/11/13 13:21	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		06/11/13 13:21	10061-02-6	L3
Ethylbenzene	ND ug/L		1.0	1		06/11/13 13:21	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	1		06/11/13 13:21	87-68-3	
2-Hexanone	ND ug/L		10.0	1		06/11/13 13:21	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		06/11/13 13:21	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		06/11/13 13:21	99-87-6	
Methylene chloride	ND ug/L		1.0	1		06/11/13 13:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		06/11/13 13:21	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		06/11/13 13:21	1634-04-4	

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ANALYTICAL RESULTS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

Sample: TRIP BLANK		Lab ID: 60146460008	Collected: 06/06/13 11:09	Received: 06/07/13 00:40	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Naphthalene	ND ug/L		10.0	1		06/11/13 13:21	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		06/11/13 13:21	103-65-1	
Styrene	ND ug/L		1.0	1		06/11/13 13:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		06/11/13 13:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/11/13 13:21	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		06/11/13 13:21	127-18-4	
Toluene	ND ug/L		1.0	1		06/11/13 13:21	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		06/11/13 13:21	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		06/11/13 13:21	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/11/13 13:21	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/11/13 13:21	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/11/13 13:21	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		06/11/13 13:21	75-69-4	
1,2,3-Trichloropropane	ND ug/L		2.5	1		06/11/13 13:21	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		06/11/13 13:21	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		06/11/13 13:21	108-67-8	
Vinyl chloride	ND ug/L		1.0	1		06/11/13 13:21	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/11/13 13:21	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	1		06/11/13 13:21	460-00-4	
Dibromofluoromethane (S)	108 %		80-120	1		06/11/13 13:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	107 %		80-120	1		06/11/13 13:21	17060-07-0	
Toluene-d8 (S)	100 %		80-120	1		06/11/13 13:21	2037-26-5	
Preservation pH	1.0		0.10	1		06/11/13 13:21		

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QUALITY CONTROL DATA

Project: Untreated Commingled 6/6
Pace Project No.: 60146460

QC Batch: MSV/54286 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 60146460001

METHOD BLANK: 1203537 Matrix: Water
Associated Lab Samples: 60146460001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	06/12/13 18:49	
1,2-Dichloroethane	ug/L	ND	50.0	06/12/13 18:49	
2-Butanone (MEK)	ug/L	ND	1000	06/12/13 18:49	
Benzene	ug/L	ND	50.0	06/12/13 18:49	
Carbon tetrachloride	ug/L	ND	50.0	06/12/13 18:49	
Chlorobenzene	ug/L	ND	50.0	06/12/13 18:49	
Chloroform	ug/L	ND	200	06/12/13 18:49	
Tetrachloroethene	ug/L	ND	50.0	06/12/13 18:49	
Trichloroethene	ug/L	ND	50.0	06/12/13 18:49	
Vinyl chloride	ug/L	ND	100	06/12/13 18:49	
1,2-Dichloroethane-d4 (S)	%	96	80-120	06/12/13 18:49	
4-Bromofluorobenzene (S)	%	97	80-120	06/12/13 18:49	
Dibromofluoromethane (S)	%	100	80-120	06/12/13 18:49	
Toluene-d8 (S)	%	96	80-120	06/12/13 18:49	

LABORATORY CONTROL SAMPLE: 1203538

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	1000	1010	101	70-127	
1,2-Dichloroethane	ug/L	1000	919	92	72-122	
2-Butanone (MEK)	ug/L	5000	4610	92	69-124	
Benzene	ug/L	1000	949	95	73-122	
Carbon tetrachloride	ug/L	1000	885	89	73-125	
Chlorobenzene	ug/L	1000	954	95	80-120	
Chloroform	ug/L	1000	972	97	76-120	
Tetrachloroethene	ug/L	1000	954	95	79-122	
Trichloroethene	ug/L	1000	908	91	76-120	
Vinyl chloride	ug/L	1000	802	80	57-140	
1,2-Dichloroethane-d4 (S)	%			94	80-120	
4-Bromofluorobenzene (S)	%			96	80-120	
Dibromofluoromethane (S)	%			103	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1203539

Parameter	Units	60146411001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	1000	1040	104	66-142	
1,2-Dichloroethane	ug/L	ND	1000	882	88	53-144	
2-Butanone (MEK)	ug/L	ND	5000	4760	92	54-127	
Benzene	ug/L	0.095 mg/L	1000	959	86	48-150	

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QUALITY CONTROL DATA

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

MATRIX SPIKE SAMPLE:		1203539					
Parameter	Units	60146411001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	ND	1000	853	85	68-145	
Chlorobenzene	ug/L	ND	1000	917	92	68-131	
Chloroform	ug/L	ND	1000	944	94	69-126	
Tetrachloroethene	ug/L	ND	1000	866	87	66-139	
Trichloroethene	ug/L	ND	1000	822	82	67-130	
Vinyl chloride	ug/L	ND	1000	941	94	47-159	
1,2-Dichloroethane-d4 (S)	%				95	80-120	
4-Bromofluorobenzene (S)	%				99	80-120	
Dibromofluoromethane (S)	%				104	80-120	
Toluene-d8 (S)	%				98	80-120	

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QUALITY CONTROL DATA

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

QC Batch: MSV/54244 Analysis Method: EPA 5030B/8260
 QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
 Associated Lab Samples: 60146460004, 60146460005, 60146460006, 60146460007, 60146460008

METHOD BLANK: 1202540 Matrix: Water

Associated Lab Samples: 60146460004, 60146460005, 60146460006, 60146460007, 60146460008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	06/11/13 09:57	
1,1,1-Trichloroethane	ug/L	ND	1.0	06/11/13 09:57	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/11/13 09:57	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/11/13 09:57	
1,1-Dichloroethane	ug/L	ND	1.0	06/11/13 09:57	
1,1-Dichloroethene	ug/L	ND	1.0	06/11/13 09:57	
1,1-Dichloropropene	ug/L	ND	1.0	06/11/13 09:57	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	06/11/13 09:57	
1,2,3-Trichloropropane	ug/L	ND	2.5	06/11/13 09:57	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	06/11/13 09:57	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	06/11/13 09:57	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	06/11/13 09:57	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	06/11/13 09:57	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/11/13 09:57	
1,2-Dichloroethane	ug/L	ND	1.0	06/11/13 09:57	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	06/11/13 09:57	
1,2-Dichloropropane	ug/L	ND	1.0	06/11/13 09:57	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	06/11/13 09:57	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/11/13 09:57	
1,3-Dichloropropane	ug/L	ND	1.0	06/11/13 09:57	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/11/13 09:57	
2,2-Dichloropropane	ug/L	ND	1.0	06/11/13 09:57	
2-Butanone (MEK)	ug/L	ND	10.0	06/11/13 09:57	
2-Chlorotoluene	ug/L	ND	1.0	06/11/13 09:57	
2-Hexanone	ug/L	ND	10.0	06/11/13 09:57	
4-Chlorotoluene	ug/L	ND	1.0	06/11/13 09:57	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/11/13 09:57	
Benzene	ug/L	ND	1.0	06/11/13 09:57	
Bromobenzene	ug/L	ND	1.0	06/11/13 09:57	
Bromochloromethane	ug/L	ND	1.0	06/11/13 09:57	
Bromodichloromethane	ug/L	ND	1.0	06/11/13 09:57	
Bromoform	ug/L	ND	1.0	06/11/13 09:57	
Bromomethane	ug/L	ND	5.0	06/11/13 09:57	
Carbon disulfide	ug/L	ND	5.0	06/11/13 09:57	
Carbon tetrachloride	ug/L	ND	1.0	06/11/13 09:57	
Chlorobenzene	ug/L	ND	1.0	06/11/13 09:57	
Chloroethane	ug/L	ND	1.0	06/11/13 09:57	
Chloroform	ug/L	ND	1.0	06/11/13 09:57	
Chloromethane	ug/L	ND	1.0	06/11/13 09:57	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/11/13 09:57	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/11/13 09:57	
Dibromochloromethane	ug/L	ND	1.0	06/11/13 09:57	
Dibromomethane	ug/L	ND	1.0	06/11/13 09:57	

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QUALITY CONTROL DATA

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

METHOD BLANK: 1202540

Matrix: Water

Associated Lab Samples: 60146460004, 60146460005, 60146460006, 60146460007, 60146460008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	ND	1.0	06/11/13 09:57	
Ethylbenzene	ug/L	ND	1.0	06/11/13 09:57	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	06/11/13 09:57	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	06/11/13 09:57	
Methyl-tert-butyl ether	ug/L	ND	1.0	06/11/13 09:57	
Methylene chloride	ug/L	ND	1.0	06/11/13 09:57	
n-Butylbenzene	ug/L	ND	1.0	06/11/13 09:57	
n-Propylbenzene	ug/L	ND	1.0	06/11/13 09:57	
Naphthalene	ug/L	ND	10.0	06/11/13 09:57	
p-Isopropyltoluene	ug/L	ND	1.0	06/11/13 09:57	
sec-Butylbenzene	ug/L	ND	1.0	06/11/13 09:57	
Styrene	ug/L	ND	1.0	06/11/13 09:57	
tert-Butylbenzene	ug/L	ND	1.0	06/11/13 09:57	
Tetrachloroethene	ug/L	ND	1.0	06/11/13 09:57	
Toluene	ug/L	ND	1.0	06/11/13 09:57	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/11/13 09:57	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/11/13 09:57	
Trichloroethene	ug/L	ND	1.0	06/11/13 09:57	
Trichlorofluoromethane	ug/L	ND	1.0	06/11/13 09:57	
Vinyl chloride	ug/L	ND	1.0	06/11/13 09:57	
Xylene (Total)	ug/L	ND	3.0	06/11/13 09:57	
1,2-Dichloroethane-d4 (S)	%	100	80-120	06/11/13 09:57	
4-Bromofluorobenzene (S)	%	101	80-120	06/11/13 09:57	
Dibromofluoromethane (S)	%	102	80-120	06/11/13 09:57	
Toluene-d8 (S)	%	101	80-120	06/11/13 09:57	

LABORATORY CONTROL SAMPLE: 1202541

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	24.1	121	79-121	
1,1,1-Trichloroethane	ug/L	20	21.6	108	75-124	
1,1,2,2-Tetrachloroethane	ug/L	20	23.3	116	73-120	
1,1,2-Trichloroethane	ug/L	20	21.7	109	76-120	
1,1-Dichloroethane	ug/L	20	21.2	106	73-120	
1,1-Dichloroethene	ug/L	20	20.3	101	70-127	
1,1-Dichloropropene	ug/L	20	22.2	111	79-124	
1,2,3-Trichlorobenzene	ug/L	20	23.8	119	68-130	
1,2,3-Trichloropropane	ug/L	20	21.9	110	72-124	
1,2,4-Trichlorobenzene	ug/L	20	22.3	112	73-125	
1,2,4-Trimethylbenzene	ug/L	20	22.9	115	76-120	
1,2-Dibromo-3-chloropropane	ug/L	20	21.7	108	68-126	
1,2-Dibromoethane (EDB)	ug/L	20	25.1	125	79-121	L0
1,2-Dichlorobenzene	ug/L	20	22.7	114	79-120	
1,2-Dichloroethane	ug/L	20	21.7	109	72-122	
1,2-Dichloroethene (Total)	ug/L	40	43.9	110	77-120	

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QUALITY CONTROL DATA

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

LABORATORY CONTROL SAMPLE: 1202541

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloropropane	ug/L	20	21.0	105	77-120	
1,3,5-Trimethylbenzene	ug/L	20	22.6	113	75-120	
1,3-Dichlorobenzene	ug/L	20	21.8	109	80-120	
1,3-Dichloropropane	ug/L	20	22.9	114	76-120	
1,4-Dichlorobenzene	ug/L	20	21.8	109	80-120	
2,2-Dichloropropane	ug/L	20	21.2	106	52-135	
2-Butanone (MEK)	ug/L	100	102	102	69-124	
2-Chlorotoluene	ug/L	20	22.6	113	78-120	
2-Hexanone	ug/L	100	111	111	70-125	
4-Chlorotoluene	ug/L	20	22.6	113	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	111	111	72-123	
Benzene	ug/L	20	21.9	109	73-122	
Bromobenzene	ug/L	20	22.8	114	79-120	
Bromochloromethane	ug/L	20	18.6	93	76-125	
Bromodichloromethane	ug/L	20	21.4	107	73-120	
Bromoform	ug/L	20	21.8	109	74-120	
Bromomethane	ug/L	20	21.8	109	40-146	
Carbon disulfide	ug/L	20	19.2	96	62-125	
Carbon tetrachloride	ug/L	20	21.9	110	73-125	
Chlorobenzene	ug/L	20	22.1	111	80-120	
Chloroethane	ug/L	20	19.9	100	56-159	
Chloroform	ug/L	20	19.7	99	76-120	
Chloromethane	ug/L	20	23.5	118	40-148	
cis-1,2-Dichloroethene	ug/L	20	21.9	110	69-120	
cis-1,3-Dichloropropene	ug/L	20	21.4	107	76-120	
Dibromochloromethane	ug/L	20	23.5	117	79-121	
Dibromomethane	ug/L	20	18.7	94	77-120	
Dichlorodifluoromethane	ug/L	20	13.5	67	40-141	
Ethylbenzene	ug/L	20	22.7	114	76-123	
Hexachloro-1,3-butadiene	ug/L	20	22.8	114	69-125	
Isopropylbenzene (Cumene)	ug/L	20	23.3	117	80-130	
Methyl-tert-butyl ether	ug/L	20	22.1	110	67-128	
Methylene chloride	ug/L	20	21.0	105	71-123	
n-Butylbenzene	ug/L	20	23.5	117	77-124	
n-Propylbenzene	ug/L	20	21.5	107	78-120	
Naphthalene	ug/L	20	22.9	115	64-127	
p-Isopropyltoluene	ug/L	20	23.6	118	78-120	
sec-Butylbenzene	ug/L	20	23.6	118	77-122	
Styrene	ug/L	20	22.4	112	79-120	
tert-Butylbenzene	ug/L	20	23.0	115	76-123	
Tetrachloroethene	ug/L	20	22.6	113	79-122	
Toluene	ug/L	20	21.9	110	76-122	
trans-1,2-Dichloroethene	ug/L	20	22.0	110	78-126	
trans-1,3-Dichloropropene	ug/L	20	25.5	127	79-124 L0	
Trichloroethene	ug/L	20	21.5	107	76-120	
Trichlorofluoromethane	ug/L	20	19.3	97	69-133	
Vinyl chloride	ug/L	20	18.1	90	57-140	
Xylene (Total)	ug/L	60	65.5	109	76-122	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

LABORATORY CONTROL SAMPLE: 1202541

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			90	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Dibromofluoromethane (S)	%			97	80-120	
Toluene-d8 (S)	%			103	80-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

QC Batch: MSV/54271

Analysis Method: EPA 5030B/8260

QC Batch Method: EPA 5030B/8260

Analysis Description: 8260 MSV Water 10 mL Purge

Associated Lab Samples: 60146460004, 60146460005, 60146460006, 60146460007, 60146460008

METHOD BLANK: 1203233

Matrix: Water

Associated Lab Samples: 60146460004, 60146460005, 60146460006, 60146460007, 60146460008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acetone	ug/L	ND	10.0	06/12/13 10:17	
1,2-Dichloroethane-d4 (S)	%	105	80-120	06/12/13 10:17	
4-Bromofluorobenzene (S)	%	97	80-120	06/12/13 10:17	
Dibromofluoromethane (S)	%	102	80-120	06/12/13 10:17	
Toluene-d8 (S)	%	101	80-120	06/12/13 10:17	

LABORATORY CONTROL SAMPLE: 1203234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acetone	ug/L	100	100	100	60-126	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			97	80-120	
Dibromofluoromethane (S)	%			102	80-120	
Toluene-d8 (S)	%			98	80-120	

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QUALITY CONTROL DATA

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

QC Batch: OEXT/38773 Analysis Method: EPA 8270
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
 Associated Lab Samples: 60146460004, 60146460005, 60146460007

METHOD BLANK: 1201589 Matrix: Water

Associated Lab Samples: 60146460004, 60146460005, 60146460007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	06/10/13 13:09	
1,2-Dichlorobenzene	ug/L	ND	10.0	06/10/13 13:09	
1,3-Dichlorobenzene	ug/L	ND	10.0	06/10/13 13:09	
1,4-Dichlorobenzene	ug/L	ND	10.0	06/10/13 13:09	
2,4,5-Trichlorophenol	ug/L	ND	50.0	06/10/13 13:09	
2,4,6-Trichlorophenol	ug/L	ND	10.0	06/10/13 13:09	
2,4-Dichlorophenol	ug/L	ND	10.0	06/10/13 13:09	
2,4-Dimethylphenol	ug/L	ND	10.0	06/10/13 13:09	
2,4-Dinitrophenol	ug/L	ND	50.0	06/10/13 13:09	
2,4-Dinitrotoluene	ug/L	ND	10.0	06/10/13 13:09	
2,6-Dinitrotoluene	ug/L	ND	10.0	06/10/13 13:09	
2-Chloronaphthalene	ug/L	ND	10.0	06/10/13 13:09	
2-Chlorophenol	ug/L	ND	10.0	06/10/13 13:09	
2-Methylnaphthalene	ug/L	ND	10.0	06/10/13 13:09	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/10/13 13:09	
2-Nitroaniline	ug/L	ND	50.0	06/10/13 13:09	
2-Nitrophenol	ug/L	ND	10.0	06/10/13 13:09	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	06/10/13 13:09	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	06/10/13 13:09	
3-Nitroaniline	ug/L	ND	50.0	06/10/13 13:09	
4,6-Dinitro-2-methylphenol	ug/L	ND	50.0	06/10/13 13:09	
4-Bromophenylphenyl ether	ug/L	ND	10.0	06/10/13 13:09	
4-Chloro-3-methylphenol	ug/L	ND	20.0	06/10/13 13:09	
4-Chloroaniline	ug/L	ND	20.0	06/10/13 13:09	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	06/10/13 13:09	
4-Nitroaniline	ug/L	ND	50.0	06/10/13 13:09	
4-Nitrophenol	ug/L	ND	50.0	06/10/13 13:09	
Acenaphthene	ug/L	ND	10.0	06/10/13 13:09	
Acenaphthylene	ug/L	ND	10.0	06/10/13 13:09	
Anthracene	ug/L	ND	10.0	06/10/13 13:09	
Benzo(a)anthracene	ug/L	ND	10.0	06/10/13 13:09	
Benzo(a)pyrene	ug/L	ND	10.0	06/10/13 13:09	
Benzo(b)fluoranthene	ug/L	ND	10.0	06/10/13 13:09	
Benzo(g,h,i)perylene	ug/L	ND	10.0	06/10/13 13:09	
Benzo(k)fluoranthene	ug/L	ND	10.0	06/10/13 13:09	
Benzoic acid	ug/L	ND	50.0	06/10/13 13:09	
Benzyl alcohol	ug/L	ND	20.0	06/10/13 13:09	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	06/10/13 13:09	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	06/10/13 13:09	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	06/10/13 13:09	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	06/10/13 13:09	
Butylbenzylphthalate	ug/L	ND	10.0	06/10/13 13:09	
Carbazole	ug/L	ND	10.0	06/10/13 13:09	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

METHOD BLANK: 1201589

Matrix: Water

Associated Lab Samples: 60146460004, 60146460005, 60146460007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chrysene	ug/L	ND	10.0	06/10/13 13:09	
Di-n-butylphthalate	ug/L	ND	10.0	06/10/13 13:09	
Di-n-octylphthalate	ug/L	ND	10.0	06/10/13 13:09	
Dibenz(a,h)anthracene	ug/L	ND	10.0	06/10/13 13:09	
Dibenzofuran	ug/L	ND	10.0	06/10/13 13:09	
Diethylphthalate	ug/L	ND	10.0	06/10/13 13:09	
Dimethylphthalate	ug/L	ND	10.0	06/10/13 13:09	
Fluoranthene	ug/L	ND	10.0	06/10/13 13:09	
Fluorene	ug/L	ND	10.0	06/10/13 13:09	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	06/10/13 13:09	
Hexachlorobenzene	ug/L	ND	10.0	06/10/13 13:09	
Hexachlorocyclopentadiene	ug/L	ND	10.0	06/10/13 13:09	
Hexachloroethane	ug/L	ND	10.0	06/10/13 13:09	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	06/10/13 13:09	
Isophorone	ug/L	ND	10.0	06/10/13 13:09	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	06/10/13 13:09	
N-Nitrosodiphenylamine	ug/L	ND	10.0	06/10/13 13:09	
Naphthalene	ug/L	ND	10.0	06/10/13 13:09	
Nitrobenzene	ug/L	ND	10.0	06/10/13 13:09	
Pentachlorophenol	ug/L	ND	50.0	06/10/13 13:09	
Phenanthrene	ug/L	ND	10.0	06/10/13 13:09	
Phenol	ug/L	ND	10.0	06/10/13 13:09	
Pyrene	ug/L	ND	10.0	06/10/13 13:09	
Pyridine	ug/L	ND	10.0	06/10/13 13:09	
2,4,6-Tribromophenol (S)	%	78	37-120	06/10/13 13:09	
2-Fluorobiphenyl (S)	%	81	15-149	06/10/13 13:09	
2-Fluorophenol (S)	%	41	16-120	06/10/13 13:09	
Nitrobenzene-d5 (S)	%	74	10-159	06/10/13 13:09	
Phenol-d6 (S)	%	26	12-120	06/10/13 13:09	
Terphenyl-d14 (S)	%	84	25-142	06/10/13 13:09	

LABORATORY CONTROL SAMPLE: 1201590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	34.4	69	45-120	
1,2-Dichlorobenzene	ug/L	50	35.9	72	43-120	
1,3-Dichlorobenzene	ug/L	50	35.6	71	42-120	
1,4-Dichlorobenzene	ug/L	50	34.3	69	42-120	
2,4,5-Trichlorophenol	ug/L	50	39.5J	79	52-120	
2,4,6-Trichlorophenol	ug/L	50	39.5	79	52-120	
2,4-Dichlorophenol	ug/L	50	35.7	71	50-120	
2,4-Dimethylphenol	ug/L	50	31.1	62	37-120	
2,4-Dinitrophenol	ug/L	50	38.5J	77	37-138	
2,4-Dinitrotoluene	ug/L	50	41.0	82	59-120	
2,6-Dinitrotoluene	ug/L	50	40.2	80	58-120	

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QUALITY CONTROL DATA

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

LABORATORY CONTROL SAMPLE: 1201590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloronaphthalene	ug/L	50	38.2	76	51-120	
2-Chlorophenol	ug/L	50	34.4	69	46-120	
2-Methylnaphthalene	ug/L	50	35.8	72	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	29.8	60	38-120	
2-Nitroaniline	ug/L	50	42J	84	54-120	
2-Nitrophenol	ug/L	50	36.6	73	48-120	
3&4-Methylphenol(m&p Cresol)	ug/L	50	26.5	53	33-120	
3,3'-Dichlorobenzidine	ug/L	50	73.0	146	16-160	
3-Nitroaniline	ug/L	50	50.2	100	55-152	
4,6-Dinitro-2-methylphenol	ug/L	50	42.9J	86	50-122	
4-Bromophenylphenyl ether	ug/L	50	40.6	81	58-120	
4-Chloro-3-methylphenol	ug/L	50	36.9	74	52-120	
4-Chloroaniline	ug/L	50	53.6	107	27-160	
4-Chlorophenylphenyl ether	ug/L	50	39.2	78	57-120	
4-Nitroaniline	ug/L	50	44.7J	89	55-152	
4-Nitrophenol	ug/L	50	14J	28	10-120	
Acenaphthene	ug/L	50	38.8	78	54-120	
Acenaphthylene	ug/L	50	38.1	76	54-120	
Anthracene	ug/L	50	42.5	85	59-120	
Benzo(a)anthracene	ug/L	50	42.5	85	59-120	
Benzo(a)pyrene	ug/L	50	43.3	87	57-120	
Benzo(b)fluoranthene	ug/L	50	44.2	88	58-120	
Benzo(g,h,i)perylene	ug/L	50	42.9	86	59-120	
Benzo(k)fluoranthene	ug/L	50	43.7	87	59-120	
Benzoic acid	ug/L	50	ND	28	10-120	
Benzyl alcohol	ug/L	50	30.8	62	45-120	
bis(2-Chloroethoxy)methane	ug/L	50	36.2	72	53-120	
bis(2-Chloroethyl) ether	ug/L	50	36.6	73	50-120	
bis(2-Chloroisopropyl) ether	ug/L	50	38.5	77	47-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	44.2	88	58-120	
Butylbenzylphthalate	ug/L	50	46.3	93	55-120	
Carbazole	ug/L	50	42.9	86	61-120	
Chrysene	ug/L	50	43.3	87	60-120	
Di-n-butylphthalate	ug/L	50	44.0	88	60-120	
Di-n-octylphthalate	ug/L	50	46.1	92	54-122	
Dibenz(a,h)anthracene	ug/L	50	42.4	85	59-120	
Dibenzofuran	ug/L	50	38.0	76	56-120	
Diethylphthalate	ug/L	50	41.7	83	58-120	
Dimethylphthalate	ug/L	50	41.1	82	58-120	
Fluoranthene	ug/L	50	41.5	83	59-120	
Fluorene	ug/L	50	38.7	77	57-120	
Hexachloro-1,3-butadiene	ug/L	50	32.1	64	42-120	
Hexachlorobenzene	ug/L	50	38.8	78	58-120	
Hexachlorocyclopentadiene	ug/L	100	49.8	50	29-120	
Hexachloroethane	ug/L	50	33.4	67	39-120	
Indeno(1,2,3-cd)pyrene	ug/L	50	42.4	85	58-120	
Isophorone	ug/L	50	36.4	73	52-120	
N-Nitroso-di-n-propylamine	ug/L	50	36.3	73	48-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

LABORATORY CONTROL SAMPLE: 1201590

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
N-Nitrosodiphenylamine	ug/L	50	40.7	81	56-120	
Naphthalene	ug/L	50	36.4	73	49-120	
Nitrobenzene	ug/L	50	35.4	71	47-120	
Pentachlorophenol	ug/L	50	41J	82	45-120	
Phenanthrene	ug/L	50	41.6	83	60-120	
Phenol	ug/L	50	13.4	27	15-120	
Pyrene	ug/L	50	44.7	89	59-120	
Pyridine	ug/L	50	8.3J	17	10-120	
2,4,6-Tribromophenol (S)	%			81	37-120	
2-Fluorobiphenyl (S)	%			77	15-149	
2-Fluorophenol (S)	%			41	16-120	
Nitrobenzene-d5 (S)	%			69	10-159	
Phenol-d6 (S)	%			26	12-120	
Terphenyl-d14 (S)	%			87	25-142	

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QUALITY CONTROL DATA

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

QC Batch: OEXT/38786

Analysis Method: EPA 8270

QC Batch Method: EPA 3510

Analysis Description: 8270 Water MSSV

Associated Lab Samples: 60146460006

METHOD BLANK: 1202035

Matrix: Water

Associated Lab Samples: 60146460006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	06/11/13 10:09	
1,2-Dichlorobenzene	ug/L	ND	10.0	06/11/13 10:09	
1,3-Dichlorobenzene	ug/L	ND	10.0	06/11/13 10:09	
1,4-Dichlorobenzene	ug/L	ND	10.0	06/11/13 10:09	
2,4,5-Trichlorophenol	ug/L	ND	50.0	06/11/13 10:09	
2,4,6-Trichlorophenol	ug/L	ND	10.0	06/11/13 10:09	
2,4-Dichlorophenol	ug/L	ND	10.0	06/11/13 10:09	
2,4-Dimethylphenol	ug/L	ND	10.0	06/11/13 10:09	
2,4-Dinitrophenol	ug/L	ND	50.0	06/11/13 10:09	
2,4-Dinitrotoluene	ug/L	ND	10.0	06/11/13 10:09	
2,6-Dinitrotoluene	ug/L	ND	10.0	06/11/13 10:09	
2-Chloronaphthalene	ug/L	ND	10.0	06/11/13 10:09	
2-Chlorophenol	ug/L	ND	10.0	06/11/13 10:09	
2-Methylnaphthalene	ug/L	ND	10.0	06/11/13 10:09	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	06/11/13 10:09	
2-Nitroaniline	ug/L	ND	50.0	06/11/13 10:09	
2-Nitrophenol	ug/L	ND	10.0	06/11/13 10:09	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	06/11/13 10:09	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	06/11/13 10:09	
3-Nitroaniline	ug/L	ND	50.0	06/11/13 10:09	
4,6-Dinitro-2-methylphenol	ug/L	ND	50.0	06/11/13 10:09	
4-Bromophenylphenyl ether	ug/L	ND	10.0	06/11/13 10:09	
4-Chloro-3-methylphenol	ug/L	ND	20.0	06/11/13 10:09	
4-Chloroaniline	ug/L	ND	20.0	06/11/13 10:09	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	06/11/13 10:09	
4-Nitroaniline	ug/L	ND	50.0	06/11/13 10:09	
4-Nitrophenol	ug/L	ND	50.0	06/11/13 10:09	
Acenaphthene	ug/L	ND	10.0	06/11/13 10:09	
Acenaphthylene	ug/L	ND	10.0	06/11/13 10:09	
Anthracene	ug/L	ND	10.0	06/11/13 10:09	
Benzo(a)anthracene	ug/L	ND	10.0	06/11/13 10:09	
Benzo(a)pyrene	ug/L	ND	10.0	06/11/13 10:09	
Benzo(b)fluoranthene	ug/L	ND	10.0	06/11/13 10:09	
Benzo(g,h,i)perylene	ug/L	ND	10.0	06/11/13 10:09	
Benzo(k)fluoranthene	ug/L	ND	10.0	06/11/13 10:09	
Benzoic acid	ug/L	ND	50.0	06/11/13 10:09	
Benzyl alcohol	ug/L	ND	20.0	06/11/13 10:09	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	06/11/13 10:09	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	06/11/13 10:09	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	06/11/13 10:09	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	06/11/13 10:09	
Butylbenzylphthalate	ug/L	ND	10.0	06/11/13 10:09	
Carbazole	ug/L	ND	10.0	06/11/13 10:09	

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QUALITY CONTROL DATA

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

METHOD BLANK: 1202035

Matrix: Water

Associated Lab Samples: 60146460006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chrysene	ug/L	ND	10.0	06/11/13 10:09	
Di-n-butylphthalate	ug/L	ND	10.0	06/11/13 10:09	
Di-n-octylphthalate	ug/L	ND	10.0	06/11/13 10:09	
Dibenz(a,h)anthracene	ug/L	ND	10.0	06/11/13 10:09	
Dibenzofuran	ug/L	ND	10.0	06/11/13 10:09	
Diethylphthalate	ug/L	ND	10.0	06/11/13 10:09	
Dimethylphthalate	ug/L	ND	10.0	06/11/13 10:09	
Fluoranthene	ug/L	ND	10.0	06/11/13 10:09	
Fluorene	ug/L	ND	10.0	06/11/13 10:09	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	06/11/13 10:09	
Hexachlorobenzene	ug/L	ND	10.0	06/11/13 10:09	
Hexachlorocyclopentadiene	ug/L	ND	10.0	06/11/13 10:09	
Hexachloroethane	ug/L	ND	10.0	06/11/13 10:09	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	06/11/13 10:09	
Isophorone	ug/L	ND	10.0	06/11/13 10:09	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	06/11/13 10:09	
N-Nitrosodiphenylamine	ug/L	ND	10.0	06/11/13 10:09	
Naphthalene	ug/L	ND	10.0	06/11/13 10:09	
Nitrobenzene	ug/L	ND	10.0	06/11/13 10:09	
Pentachlorophenol	ug/L	ND	50.0	06/11/13 10:09	
Phenanthrene	ug/L	ND	10.0	06/11/13 10:09	
Phenol	ug/L	ND	10.0	06/11/13 10:09	
Pyrene	ug/L	ND	10.0	06/11/13 10:09	
Pyridine	ug/L	ND	10.0	06/11/13 10:09	
2,4,6-Tribromophenol (S)	%	76	37-120	06/11/13 10:09	
2-Fluorobiphenyl (S)	%	82	15-149	06/11/13 10:09	
2-Fluorophenol (S)	%	42	16-120	06/11/13 10:09	
Nitrobenzene-d5 (S)	%	72	10-159	06/11/13 10:09	
Phenol-d6 (S)	%	27	12-120	06/11/13 10:09	
Terphenyl-d14 (S)	%	79	25-142	06/11/13 10:09	

LABORATORY CONTROL SAMPLE: 1202036

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	35.4	71	45-120	
1,2-Dichlorobenzene	ug/L	50	34.4	69	43-120	
1,3-Dichlorobenzene	ug/L	50	34.0	68	42-120	
1,4-Dichlorobenzene	ug/L	50	34.4	69	42-120	
2,4,5-Trichlorophenol	ug/L	50	35.9J	72	52-120	
2,4,6-Trichlorophenol	ug/L	50	36.6	73	52-120	
2,4-Dichlorophenol	ug/L	50	33.9	68	50-120	
2,4-Dimethylphenol	ug/L	50	31.0	62	37-120	
2,4-Dinitrophenol	ug/L	50	31.5J	63	37-138	
2,4-Dinitrotoluene	ug/L	50	36.6	73	59-120	
2,6-Dinitrotoluene	ug/L	50	38.5	77	58-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

LABORATORY CONTROL SAMPLE: 1202036

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloronaphthalene	ug/L	50	36.1	72	51-120	
2-Chlorophenol	ug/L	50	31.7	63	46-120	
2-Methylnaphthalene	ug/L	50	35.2	70	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	27.9	56	38-120	
2-Nitroaniline	ug/L	50	38.4J	77	54-120	
2-Nitrophenol	ug/L	50	35.4	71	48-120	
3&4-Methylphenol(m&p Cresol)	ug/L	50	25.1	50	33-120	
3,3'-Dichlorobenzidine	ug/L	50	64.2	128	16-160	
3-Nitroaniline	ug/L	50	44.2J	88	55-152	
4,6-Dinitro-2-methylphenol	ug/L	50	37.3J	75	50-122	
4-Bromophenylphenyl ether	ug/L	50	35.1	70	58-120	
4-Chloro-3-methylphenol	ug/L	50	34.3	69	52-120	
4-Chloroaniline	ug/L	50	54.7	109	27-160	
4-Chlorophenylphenyl ether	ug/L	50	37.4	75	57-120	
4-Nitroaniline	ug/L	50	38.4J	77	55-152	
4-Nitrophenol	ug/L	50	14J	28	10-120	
Acenaphthene	ug/L	50	36.4	73	54-120	
Acenaphthylene	ug/L	50	36.9	74	54-120	
Anthracene	ug/L	50	37.6	75	59-120	
Benzo(a)anthracene	ug/L	50	36.9	74	59-120	
Benzo(a)pyrene	ug/L	50	39.4	79	57-120	
Benzo(b)fluoranthene	ug/L	50	40.0	80	58-120	
Benzo(g,h,i)perylene	ug/L	50	39.8	80	59-120	
Benzo(k)fluoranthene	ug/L	50	38.0	76	59-120	
Benzoic acid	ug/L	50	ND	27	10-120	
Benzyl alcohol	ug/L	50	30.5	61	45-120	
bis(2-Chloroethoxy)methane	ug/L	50	35.4	71	53-120	
bis(2-Chloroethyl) ether	ug/L	50	34.8	70	50-120	
bis(2-Chloroisopropyl) ether	ug/L	50	36.9	74	47-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	38.5	77	58-120	
Butylbenzylphthalate	ug/L	50	39.6	79	55-120	
Carbazole	ug/L	50	37.7	75	61-120	
Chrysene	ug/L	50	38.2	76	60-120	
Di-n-butylphthalate	ug/L	50	38.8	78	60-120	
Di-n-octylphthalate	ug/L	50	39.6	79	54-122	
Dibenz(a,h)anthracene	ug/L	50	39.1	78	59-120	
Dibenzofuran	ug/L	50	36.9	74	56-120	
Diethylphthalate	ug/L	50	38.4	77	58-120	
Dimethylphthalate	ug/L	50	38.0	76	58-120	
Fluoranthene	ug/L	50	37.8	76	59-120	
Fluorene	ug/L	50	36.9	74	57-120	
Hexachloro-1,3-butadiene	ug/L	50	32.5	65	42-120	
Hexachlorobenzene	ug/L	50	36.7	73	58-120	
Hexachlorocyclopentadiene	ug/L	100	47.2	47	29-120	
Hexachloroethane	ug/L	50	32.3	65	39-120	
Indeno(1,2,3-cd)pyrene	ug/L	50	39.4	79	58-120	
Isophorone	ug/L	50	35.1	70	52-120	
N-Nitroso-di-n-propylamine	ug/L	50	33.9	68	48-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

LABORATORY CONTROL SAMPLE: 1202036

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
N-Nitrosodiphenylamine	ug/L	50	36.7	73	56-120	
Naphthalene	ug/L	50	35.7	71	49-120	
Nitrobenzene	ug/L	50	35.6	71	47-120	
Pentachlorophenol	ug/L	50	35J	70	45-120	
Phenanthrene	ug/L	50	38.2	76	60-120	
Phenol	ug/L	50	13.7	27	15-120	
Pyrene	ug/L	50	39.4	79	59-120	
Pyridine	ug/L	50	14.9	30	10-120	
2,4,6-Tribromophenol (S)	%			71	37-120	
2-Fluorobiphenyl (S)	%			74	15-149	
2-Fluorophenol (S)	%			41	16-120	
Nitrobenzene-d5 (S)	%			70	10-159	
Phenol-d6 (S)	%			25	12-120	
Terphenyl-d14 (S)	%			77	25-142	

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QUALITY CONTROL DATA

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

QC Batch:	WET/41831	Analysis Method:	SM 2540B
QC Batch Method:	SM 2540B	Analysis Description:	2540B Total Solids
Associated Lab Samples:	60146460003		

METHOD BLANK: 1204575 Matrix: Water

Associated Lab Samples: 60146460003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	5.0	06/13/13 16:44	

LABORATORY CONTROL SAMPLE: 1204576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	1000	946	95	80-120	

SAMPLE DUPLICATE: 1204577

Parameter	Units	60146460003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	49300	47500	4	10	

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QUALITY CONTROL DATA

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

QC Batch: WETA/25098 Analysis Method: EPA 9060
 QC Batch Method: EPA 9060 Analysis Description: 9060 TOC
 Associated Lab Samples: 60146460002

METHOD BLANK: 1204733 Matrix: Water

Associated Lab Samples: 60146460002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	ND	1.0	06/14/13 09:00	
Total Organic Carbon	mg/L	ND	1.0	06/14/13 09:00	
Total Organic Carbon	mg/L	ND	1.0	06/14/13 09:00	
Total Organic Carbon	mg/L	ND	1.0	06/14/13 09:00	
Total Organic Carbon	mg/L	ND	1.0	06/14/13 09:00	

LABORATORY CONTROL SAMPLE: 1204734

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	5	4.9	98	84-120	
Total Organic Carbon	mg/L	5	4.8	97	84-120	
Total Organic Carbon	mg/L	5	5.0	99	84-120	
Total Organic Carbon	mg/L	5	5.0	99	84-120	
Total Organic Carbon	mg/L	5	4.9	98	84-120	

SAMPLE DUPLICATE: 1204735

Parameter	Units	60146460002 Result	Dup Result	RPD	Max RPD	Qualifiers
Mean Total Organic Carbon	mg/L	40700	41100	1	25	
Total Organic Carbon	mg/L	41100	41600	1	25	
Total Organic Carbon	mg/L	40800	40500	1	25	
Total Organic Carbon	mg/L	41200	41500	1	25	
Total Organic Carbon	mg/L	39600	40700	3	25	

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QUALIFIERS

Project: Untreated Commingled 6/6

Pace Project No.: 60146460

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: OEXT/38786

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

Batch: MSV/54244

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

Batch: MSV/54271

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

ANALYTE QUALIFIERS

1e Results have been revised.

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.

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: Untreated Commingled 6/6

Pace Project No.: 60146460

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60146460004	UNTREATED COMMINGLED VO/SV 33	EPA 3510	OEXT/38773	EPA 8270	MSSV/12267
60146460005	UNTREATED COMMINGLED VO/SV 34	EPA 3510	OEXT/38773	EPA 8270	MSSV/12267
60146460006	UNTREATED COMMINGLED VO/SV 35	EPA 3510	OEXT/38786	EPA 8270	MSSV/12273
60146460007	UNTREATED COMMINGLED VO/SV 36	EPA 3510	OEXT/38773	EPA 8270	MSSV/12267
60146460001	UNTREATED COMMINGLED TCLP 9	EPA 8260	MSV/54286		
60146460004	UNTREATED COMMINGLED VO/SV 33	EPA 5030B/8260	MSV/54244		
60146460004	UNTREATED COMMINGLED VO/SV 33	EPA 5030B/8260	MSV/54271		
60146460005	UNTREATED COMMINGLED VO/SV 34	EPA 5030B/8260	MSV/54244		
60146460005	UNTREATED COMMINGLED VO/SV 34	EPA 5030B/8260	MSV/54271		
60146460006	UNTREATED COMMINGLED VO/SV 35	EPA 5030B/8260	MSV/54244		
60146460006	UNTREATED COMMINGLED VO/SV 35	EPA 5030B/8260	MSV/54271		
60146460007	UNTREATED COMMINGLED VO/SV 36	EPA 5030B/8260	MSV/54244		
60146460007	UNTREATED COMMINGLED VO/SV 36	EPA 5030B/8260	MSV/54271		
60146460008	TRIP BLANK	EPA 5030B/8260	MSV/54244		
60146460008	TRIP BLANK	EPA 5030B/8260	MSV/54271		
60146460003	UNTREATED COMMINGLED SOLIDS 9	SM 2540B	WET/41831		
60146460002	UNTREATED COMMINGLED TOC 9	EPA 9060	WETA/25098		

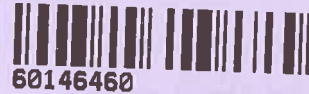
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Sample Condition Upon Receipt

WO#: 60146460



Client Name: Barr Engineering

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

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

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

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

Thermometer Used: T-112 / T-194 Type of Ice: Wet [x] Blue [] None [] Samples received on ice, cooling process has begun.

Cooler Temperature: 1.6

Date and initials of person examining contents: 6/7/13

Temperature should be above freezing to 6°C

Table with 17 rows of inspection items and checkboxes. Items include Chain of Custody, Short Hold Time analyses, Rush Turn Around Time, Sufficient volume, Containers intact, etc.

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

Person Contacted: Date/Time:

Comments/ Resolution:

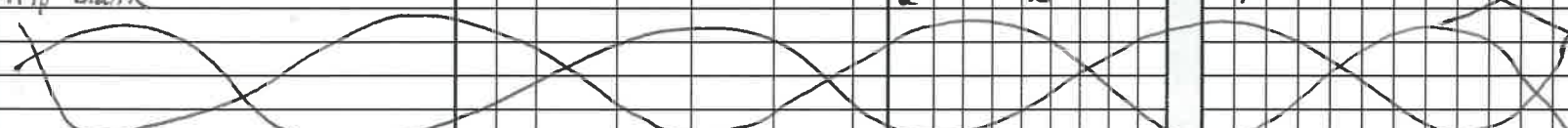
Project Manager Review: Date: 6/11/13

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:	
Company: BARR ENGINEERING/Bridgeton L.F.		Report To: ED GALBRAITH		Attention:	
Address: 13570 ST. CHARLES RAIL RD.		Copy To: SCOTT FEDAK/BRIDGETON LANDFILL		Company Name: Bridgeton L.F.	
Email To:		Purchase Order No.:		Address:	
Phone:	Fax:	Project Name:		Pace Quote Reference:	
Requested Due Date/TAT:		Project Number:		Pace Project Manager:	
				Pace Profile #:	

REGULATORY AGENCY		
<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER	<input type="checkbox"/> DRINKING WATER
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA	<input type="checkbox"/> OTHER
Site Location	MO	
STATE:		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							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	Analysis Test ↓	8260 VOCs	8270 SVOCs			TOC EPA 9060	TS SM 2540B	TCLP 8260			
					DATE	TIME	DATE	TIME																					
1	UNTREATED CONDENSED TOLP (6/6/13)	9	OT	G	--	--	6/6/13	1109	4	4											X							309AU, 1W4FU (S)	
2	UNTREATED CONDENSED TOC (6/6/13)	9			--	--		1119	1	1																		1A735 (S)	
3	UNTREATED CONDENSED SOLIDS (6/6/13)	9			--	--		1129	1	1																		1BP3U (S)	
4	UNTREATED CONDENSED VOL/SOL (6/6/13)	33			--	--		1133	5	2		3																2A61U, 309AU (S)	
5	UNTREATED CONDENSED VOL/SOL (6/6/13)	34			--	--		1144	5	2		3																	
6	UNTREATED CONDENSED VOL/SOL (6/6/13)	35			--	--		1155	5	2		3																	
7	UNTREATED CONDENSED VOL/SOL (6/6/13)	36			--	--		1246	5	2		3																	
8	Trip Blank				--	--		--	2			2																	209A (C)
9																													
10																													
11																													
12																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Scott C. Fedak / Pacer	6/6/13	1052	EA 554 E. Brackett / Pace	6/6/13	1105L				
					6/7	0040	1.6	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:	SCOTT C. FEDAK				
SIGNATURE of SAMPLER:	Scott C. Fedak				
DATE Signed (MM/DD/YY):	06/06/13				

June 17, 2013

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

RE: Project: BRIDGETON LF 189/190-MSD
Pace Project No.: 60146488

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 08, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA 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 189/190-MSD

Pace Project No.: 60146488

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60146488001	189/190-MSD	Water	06/07/13 11:07	06/08/13 00:55
60146488002	TRIP BLANK	Water	06/07/13 08:00	06/08/13 00:55

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60146488001	189/190-MSD	EPA 200.7	SMW	15
		EPA 200.7	SMW	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	59
		EPA 624 Low	JKL	38
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	JML	1
		SM 4500-H+B	NDL	1
		EPA 350.1	JML	1
		EPA 410.4	DJR	1
		60146488002	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

Sample: 189/190-MSD		Lab ID: 60146488001	Collected: 06/07/13 11:07	Received: 06/08/13 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	8890 ug/L		150	2	06/10/13 13:45	06/13/13 13:56	7429-90-5	
Antimony	47.1 ug/L		20.0	2	06/10/13 13:45	06/13/13 13:56	7440-36-0	
Arsenic	639 ug/L		20.0	2	06/10/13 13:45	06/13/13 13:56	7440-38-2	
Beryllium	ND ug/L		5.0	5	06/10/13 13:45	06/13/13 13:59	7440-41-7	D3
Cadmium	12.4 ug/L		10.0	2	06/10/13 13:45	06/13/13 13:56	7440-43-9	
Chromium	258 ug/L		25.0	5	06/10/13 13:45	06/13/13 13:59	7440-47-3	
Cobalt	46.7 ug/L		10.0	2	06/10/13 13:45	06/13/13 13:56	7440-48-4	
Copper	ND ug/L		20.0	2	06/10/13 13:45	06/13/13 13:56	7440-50-8	D3
Iron	806000 ug/L		100	2	06/10/13 13:45	06/13/13 13:56	7439-89-6	
Lead	138 ug/L		10.0	2	06/10/13 13:45	06/13/13 13:56	7439-92-1	
Nickel	127 ug/L		10.0	2	06/10/13 13:45	06/13/13 13:56	7440-02-0	
Selenium	ND ug/L		75.0	5	06/10/13 13:45	06/13/13 13:59	7782-49-2	
Silver	ND ug/L		14.0	2	06/10/13 13:45	06/13/13 13:56	7440-22-4	
Thallium	ND ug/L		100	5	06/10/13 13:45	06/13/13 13:59	7440-28-0	
Zinc	13900 ug/L		100	2	06/10/13 13:45	06/13/13 13:56	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	4440 ug/L		150	2	06/11/13 13:30	06/12/13 11:31	7429-90-5	
Antimony, Dissolved	ND ug/L		50.0	5	06/11/13 13:30	06/12/13 11:35	7440-36-0	D3
Arsenic, Dissolved	523 ug/L		50.0	5	06/11/13 13:30	06/12/13 11:35	7440-38-2	
Beryllium, Dissolved	ND ug/L		2.0	2	06/11/13 13:30	06/12/13 11:31	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		25.0	5	06/11/13 13:30	06/12/13 11:35	7440-43-9	
Chromium, Dissolved	226 ug/L		25.0	5	06/11/13 13:30	06/12/13 11:35	7440-47-3	
Cobalt, Dissolved	36.7 ug/L		25.0	5	06/11/13 13:30	06/12/13 11:35	7440-48-4	
Copper, Dissolved	ND ug/L		20.0	2	06/11/13 13:30	06/12/13 11:31	7440-50-8	
Iron, Dissolved	714000 ug/L		100	2	06/11/13 13:30	06/12/13 11:31	7439-89-6	
Lead, Dissolved	69.4 ug/L		25.0	5	06/11/13 13:30	06/12/13 11:35	7439-92-1	
Nickel, Dissolved	117 ug/L		25.0	5	06/11/13 13:30	06/12/13 11:35	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	5	06/11/13 13:30	06/12/13 11:35	7782-49-2	
Silver, Dissolved	17.4 ug/L		14.0	2	06/11/13 13:30	06/12/13 11:31	7440-22-4	
Thallium, Dissolved	ND ug/L		100	5	06/11/13 13:30	06/12/13 11:35	7440-28-0	
Zinc, Dissolved	13500 ug/L		250	5	06/11/13 13:30	06/12/13 11:35	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	1.2 ug/L		0.20	1	06/10/13 13:20	06/11/13 12:28	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		0.20	1	06/12/13 16:30	06/12/13 09:28	7439-97-6	M1
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	83-32-9	
Acenaphthylene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	208-96-8	
Anthracene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	120-12-7	
Benzidine	ND ug/L		1000	20	06/08/13 00:00	06/10/13 19:30	92-87-5	
Benzo(a)anthracene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	56-55-3	
Benzo(a)pyrene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

Sample: 189/190-MSD	Lab ID: 60146488001	Collected: 06/07/13 11:07	Received: 06/08/13 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						
Benzo(b)fluoranthene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	191-24-2	
Benzo(k)fluoranthene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	207-08-9	
4-Bromophenylphenyl ether	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	101-55-3	
Butylbenzylphthalate	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	85-68-7	
4-Chloro-3-methylphenol	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	59-50-7	
bis(2-Chloroethoxy)methane	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		120	20	06/08/13 00:00	06/10/13 19:30	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		120	20	06/08/13 00:00	06/10/13 19:30	39638-32-9	
2-Chloronaphthalene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	91-58-7	
2-Chlorophenol	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	7005-72-3	
Chrysene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	53-70-3	
3,3'-Dichlorobenzidine	ND ug/L		400	20	06/08/13 00:00	06/10/13 19:30	91-94-1	
2,4-Dichlorophenol	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	120-83-2	
Diethylphthalate	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	84-66-2	
2,4-Dimethylphenol	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	105-67-9	
Dimethylphthalate	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	131-11-3	
Di-n-butylphthalate	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		500	20	06/08/13 00:00	06/10/13 19:30	534-52-1	
2,4-Dinitrophenol	ND ug/L		1000	20	06/08/13 00:00	06/10/13 19:30	51-28-5	
2,4-Dinitrotoluene	ND ug/L		120	20	06/08/13 00:00	06/10/13 19:30	121-14-2	
2,6-Dinitrotoluene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	606-20-2	
Di-n-octylphthalate	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	117-81-7	
Fluoranthene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	206-44-0	
Fluorene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	87-68-3	
Hexachlorobenzene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	77-47-4	
Hexachloroethane	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	193-39-5	
Isophorone	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	78-59-1	
Naphthalene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	91-20-3	
Nitrobenzene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	98-95-3	
2-Nitrophenol	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	88-75-5	
4-Nitrophenol	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	100-02-7	
N-Nitrosodimethylamine	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	86-30-6	
Pentachlorophenol	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	87-86-5	
Phenanthrene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	85-01-8	
Phenol	1260 ug/L		100	20	06/08/13 00:00	06/10/13 19:30	108-95-2	
Pyrene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		100	20	06/08/13 00:00	06/10/13 19:30	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

Sample: 189/190-MSD	Lab ID: 60146488001	Collected: 06/07/13 11:07	Received: 06/08/13 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								
Surrogates								
Nitrobenzene-d5 (S)	0 %		32-120	20	06/08/13 00:00	06/10/13 19:30	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	20	06/08/13 00:00	06/10/13 19:30	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	20	06/08/13 00:00	06/10/13 19:30	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	20	06/08/13 00:00	06/10/13 19:30	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	20	06/08/13 00:00	06/10/13 19:30	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	20	06/08/13 00:00	06/10/13 19:30	118-79-6	S4
624 Volatile Organics								
Analytical Method: EPA 624 Low								
Benzene	ND ug/L		200	200		06/12/13 13:34	71-43-2	
Bromodichloromethane	ND ug/L		200	200		06/12/13 13:34	75-27-4	
Bromoform	ND ug/L		200	200		06/12/13 13:34	75-25-2	
Bromomethane	ND ug/L		1000	200		06/12/13 13:34	74-83-9	
Carbon tetrachloride	ND ug/L		200	200		06/12/13 13:34	56-23-5	
Chlorobenzene	ND ug/L		200	200		06/12/13 13:34	108-90-7	
Chloroethane	ND ug/L		200	200		06/12/13 13:34	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		06/12/13 13:34	110-75-8	
Chloroform	ND ug/L		200	200		06/12/13 13:34	67-66-3	
Chloromethane	ND ug/L		200	200		06/12/13 13:34	74-87-3	
Dibromochloromethane	ND ug/L		200	200		06/12/13 13:34	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		06/12/13 13:34	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		06/12/13 13:34	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		06/12/13 13:34	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		06/12/13 13:34	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		06/12/13 13:34	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		06/12/13 13:34	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		06/12/13 13:34	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		06/12/13 13:34	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		06/12/13 13:34	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		06/12/13 13:34	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		06/12/13 13:34	10061-02-6	
Ethylbenzene	ND ug/L		200	200		06/12/13 13:34	100-41-4	
Methylene chloride	ND ug/L		200	200		06/12/13 13:34	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		06/12/13 13:34	79-34-5	
Tetrachloroethene	ND ug/L		200	200		06/12/13 13:34	127-18-4	
Toluene	ND ug/L		200	200		06/12/13 13:34	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		06/12/13 13:34	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		06/12/13 13:34	79-00-5	
Trichloroethene	ND ug/L		200	200		06/12/13 13:34	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		06/12/13 13:34	75-69-4	
Vinyl chloride	ND ug/L		200	200		06/12/13 13:34	75-01-4	
Xylene (Total)	ND ug/L		600	200		06/12/13 13:34	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100 %		80-120	200		06/12/13 13:34	1868-53-7	D3
4-Bromofluorobenzene (S)	101 %		80-120	200		06/12/13 13:34	460-00-4	
Toluene-d8 (S)	100 %		80-120	200		06/12/13 13:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	110 %		80-120	200		06/12/13 13:34	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

Sample: 189/190-MSD		Lab ID: 60146488001	Collected: 06/07/13 11:07	Received: 06/08/13 00:55	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Preservation pH	7.0		1.0	200		06/12/13 13:34		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	438	mg/L	5.0	1		06/13/13 07:15		
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	20.7	mg/L	5.0	1		06/14/13 07:53		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	1100	mg/L	5.0	1		06/13/13 13:18		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.5	Std. Units	0.10	1		06/10/13 14:16		H6
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	1760	mg/L	40.0	400		06/16/13 17:35	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	53800	mg/L	5000	500		06/16/13 10:19		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

Sample: TRIP BLANK	Lab ID: 60146488002	Collected: 06/07/13 08:00	Received: 06/08/13 00:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		1.0	1		06/12/13 12:10	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		06/12/13 12:10	75-27-4	
Bromoform	ND ug/L		1.0	1		06/12/13 12:10	75-25-2	
Bromomethane	ND ug/L		5.0	1		06/12/13 12:10	74-83-9	
Carbon tetrachloride	ND ug/L		1.0	1		06/12/13 12:10	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		06/12/13 12:10	108-90-7	
Chloroethane	ND ug/L		1.0	1		06/12/13 12:10	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		06/12/13 12:10	110-75-8	
Chloroform	ND ug/L		1.0	1		06/12/13 12:10	67-66-3	
Chloromethane	ND ug/L		1.0	1		06/12/13 12:10	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		06/12/13 12:10	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		06/12/13 12:10	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		06/12/13 12:10	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		06/12/13 12:10	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		06/12/13 12:10	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		06/12/13 12:10	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		06/12/13 12:10	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		06/12/13 12:10	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		06/12/13 12:10	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		06/12/13 12:10	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		06/12/13 12:10	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		06/12/13 12:10	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		06/12/13 12:10	100-41-4	
Methylene chloride	ND ug/L		1.0	1		06/12/13 12:10	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		06/12/13 12:10	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		06/12/13 12:10	127-18-4	
Toluene	ND ug/L		1.0	1		06/12/13 12:10	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		06/12/13 12:10	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		06/12/13 12:10	79-00-5	
Trichloroethene	ND ug/L		1.0	1		06/12/13 12:10	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		06/12/13 12:10	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		06/12/13 12:10	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		06/12/13 12:10	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98 %		80-120	1		06/12/13 12:10	1868-53-7	
4-Bromofluorobenzene (S)	99 %		80-120	1		06/12/13 12:10	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		06/12/13 12:10	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	1		06/12/13 12:10	17060-07-0	
Preservation pH	7.0		1.0	1		06/12/13 12:10		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

QC Batch: MERP/7415 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
 Associated Lab Samples: 60146488001

METHOD BLANK: 1202261 Matrix: Water

Associated Lab Samples: 60146488001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/11/13 12:08	

LABORATORY CONTROL SAMPLE: 1202262

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1202263 1202264

Parameter	Units	60146396001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury	ug/L	ND	5	5	1.0	0.97	20	19	70-130	8	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

QC Batch:	MERP/7421	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60146488001		

METHOD BLANK: 1202859 Matrix: Water
Associated Lab Samples: 60146488001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	06/12/13 09:19	

LABORATORY CONTROL SAMPLE: 1202860

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1202861 1202862

Parameter	Units	60146488001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury, Dissolved	ug/L	ND	5	5	2.4	3.0	49	59	70-130	19	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

QC Batch: MPRP/23002 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60146488001

METHOD BLANK: 1202265 Matrix: Water

Associated Lab Samples: 60146488001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/13/13 13:05	
Antimony	ug/L	ND	10.0	06/13/13 13:05	
Arsenic	ug/L	ND	10.0	06/13/13 13:05	
Beryllium	ug/L	ND	1.0	06/13/13 13:05	
Cadmium	ug/L	ND	5.0	06/13/13 13:05	
Chromium	ug/L	ND	5.0	06/13/13 13:05	
Cobalt	ug/L	ND	5.0	06/13/13 13:05	
Copper	ug/L	ND	10.0	06/13/13 13:05	
Iron	ug/L	ND	50.0	06/13/13 13:05	
Lead	ug/L	ND	5.0	06/13/13 13:05	
Nickel	ug/L	ND	5.0	06/13/13 13:05	
Selenium	ug/L	ND	15.0	06/13/13 13:05	
Silver	ug/L	ND	7.0	06/13/13 13:05	
Thallium	ug/L	ND	20.0	06/13/13 13:05	
Zinc	ug/L	ND	50.0	06/13/13 13:05	

LABORATORY CONTROL SAMPLE: 1202266

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9950	99	85-115	
Antimony	ug/L	1000	968	97	85-115	
Arsenic	ug/L	1000	962	96	85-115	
Beryllium	ug/L	1000	998	100	85-115	
Cadmium	ug/L	1000	968	97	85-115	
Chromium	ug/L	1000	979	98	85-115	
Cobalt	ug/L	1000	992	99	85-115	
Copper	ug/L	1000	966	97	85-115	
Iron	ug/L	10000	10000	100	85-115	
Lead	ug/L	1000	994	99	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	986	99	85-115	
Silver	ug/L	500	479	96	85-115	
Thallium	ug/L	1000	1010	101	85-115	
Zinc	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1202267 1202268

Parameter	Units	60146226002		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
Aluminum	ug/L	95.6	10000	10000	10000	9940	9980	98	99	70-130	0	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1202267												1202268			
Parameter	Units	60146226002 Result	MS		MSD		MS		MSD		Max				
			Spike Conc.	MSD Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	RPD	Qual			
Antimony	ug/L	ND	1000	1000	1090	991	109	99	70-130	10	7	R1			
Arsenic	ug/L	14.0	1000	1000	1110	1010	109	99	70-130	9	10				
Beryllium	ug/L	ND	1000	1000	984	988	98	99	70-130	0	7				
Cadmium	ug/L	ND	1000	1000	1080	984	108	98	70-130	10	10				
Chromium	ug/L	ND	1000	1000	962	966	96	96	70-130	0	10				
Cobalt	ug/L	ND	1000	1000	1060	968	106	97	70-130	9	6	R1			
Copper	ug/L	10.2	1000	1000	971	974	96	96	70-130	0	11				
Iron	ug/L	1500	10000	10000	11200	11200	97	97	70-130	0	10				
Lead	ug/L	ND	1000	1000	1050	959	105	96	70-130	9	10				
Nickel	ug/L	ND	1000	1000	1090	990	109	99	70-130	10	10				
Selenium	ug/L	ND	1000	1000	1110	1010	111	101	70-130	10	10				
Silver	ug/L	ND	500	500	481	479	96	96	70-130	0	10				
Thallium	ug/L	ND	1000	1000	1040	954	104	95	70-130	9	6	R1			
Zinc	ug/L	ND	1000	1000	1130	1020	109	98	70-130	10	11				

MATRIX SPIKE SAMPLE: 1202269									
Parameter	Units	60146416001		Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
		Result	Conc.						
Aluminum	ug/L	1.5 mg/L	10000	11800	103	70-130			
Antimony	ug/L	ND	1000	977	98	70-130			
Arsenic	ug/L	ND	1000	992	99	70-130			
Beryllium	ug/L	ND	1000	951	95	70-130			
Cadmium	ug/L	ND	1000	975	97	70-130			
Chromium	ug/L	0.010 mg/L	1000	954	94	70-130			
Cobalt	ug/L	ND	1000	944	94	70-130			
Copper	ug/L	0.020 mg/L	1000	968	95	70-130			
Iron	ug/L	1.2 mg/L	10000	11700	105	70-130			
Lead	ug/L	ND	1000	931	93	70-130			
Nickel	ug/L	0.026 mg/L	1000	990	96	70-130			
Selenium	ug/L	ND	1000	999	100	70-130			
Silver	ug/L	ND	500	486	97	70-130			
Thallium	ug/L	ND	1000	888	89	70-130			
Zinc	ug/L	ND	1000	1030	98	70-130			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 189/190-MSD
Pace Project No.: 60146488

QC Batch: MPRP/23021 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60146488001

METHOD BLANK: 1202672 Matrix: Water
Associated Lab Samples: 60146488001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	06/12/13 10:54	
Antimony, Dissolved	ug/L	ND	10.0	06/12/13 10:54	
Arsenic, Dissolved	ug/L	ND	10.0	06/12/13 10:54	
Beryllium, Dissolved	ug/L	ND	1.0	06/12/13 10:54	
Cadmium, Dissolved	ug/L	ND	5.0	06/12/13 10:54	
Chromium, Dissolved	ug/L	ND	5.0	06/12/13 10:54	
Cobalt, Dissolved	ug/L	ND	5.0	06/12/13 10:54	
Copper, Dissolved	ug/L	ND	10.0	06/12/13 10:54	
Iron, Dissolved	ug/L	ND	50.0	06/12/13 10:54	
Lead, Dissolved	ug/L	ND	5.0	06/12/13 10:54	
Nickel, Dissolved	ug/L	ND	5.0	06/12/13 10:54	
Selenium, Dissolved	ug/L	ND	15.0	06/12/13 10:54	
Silver, Dissolved	ug/L	ND	7.0	06/12/13 10:54	
Thallium, Dissolved	ug/L	ND	20.0	06/12/13 10:54	
Zinc, Dissolved	ug/L	ND	50.0	06/12/13 10:54	

LABORATORY CONTROL SAMPLE: 1202673

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10400	104	85-115	
Antimony, Dissolved	ug/L	1000	997	100	85-115	
Arsenic, Dissolved	ug/L	1000	981	98	85-115	
Beryllium, Dissolved	ug/L	1000	1040	104	85-115	
Cadmium, Dissolved	ug/L	1000	992	99	85-115	
Chromium, Dissolved	ug/L	1000	985	98	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	989	99	85-115	
Iron, Dissolved	ug/L	10000	10600	106	85-115	
Lead, Dissolved	ug/L	1000	999	100	85-115	
Nickel, Dissolved	ug/L	1000	1030	103	85-115	
Selenium, Dissolved	ug/L	1000	1000	100	85-115	
Silver, Dissolved	ug/L	500	478	96	85-115	
Thallium, Dissolved	ug/L	1000	1030	103	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1202674 1202675

Parameter	Units	60146252001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum, Dissolved	ug/L	4490	10000	10000	15500	15200	110	107	70-130	2	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

Parameter	60146252001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Antimony, Dissolved	ug/L	38.7	1000	1000	1090	1080	105	104	70-130	1	7		
Arsenic, Dissolved	ug/L	573	1000	1000	1800	1760	123	119	70-130	2	10		
Beryllium, Dissolved	ug/L	ND	1000	1000	976	955	98	95	70-130	2	7		
Cadmium, Dissolved	ug/L	ND	1000	1000	1130	1100	113	110	70-130	2	10		
Chromium, Dissolved	ug/L	222	1000	1000	1210	1170	99	94	70-130	3	10		
Cobalt, Dissolved	ug/L	34.5	1000	1000	995	977	96	94	70-130	2	6		
Copper, Dissolved	ug/L	ND	1000	1000	1100	1080	110	108	70-130	2	11		
Iron, Dissolved	ug/L	714000	10000	10000	745000	724000	318	106	70-130	3	10	M1	
Lead, Dissolved	ug/L	86.9	1000	1000	940	916	85	83	70-130	3	10		
Nickel, Dissolved	ug/L	91.5	1000	1000	1040	1020	94	92	70-130	2	10		
Selenium, Dissolved	ug/L	ND	1000	1000	1090	1080	109	108	70-130	1	10		
Silver, Dissolved	ug/L	16.5	500	500	66.8	104	10	18	70-130	44	10	M1,R1	
Thallium, Dissolved	ug/L	ND	1000	1000	820	810	82	81	70-130	1	6		
Zinc, Dissolved	ug/L	13100	1000	1000	14300	13800	121	71	70-130	4	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

QC Batch: MSV/54273 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60146488001, 60146488002

METHOD BLANK: 1203244 Matrix: Water

Associated Lab Samples: 60146488001, 60146488002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	06/12/13 11:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	06/12/13 11:06	
1,1,2-Trichloroethane	ug/L	ND	1.0	06/12/13 11:06	
1,1-Dichloroethane	ug/L	ND	1.0	06/12/13 11:06	
1,1-Dichloroethene	ug/L	ND	1.0	06/12/13 11:06	
1,2-Dichlorobenzene	ug/L	ND	1.0	06/12/13 11:06	
1,2-Dichloroethane	ug/L	ND	1.0	06/12/13 11:06	
1,2-Dichloropropane	ug/L	ND	1.0	06/12/13 11:06	
1,3-Dichlorobenzene	ug/L	ND	1.0	06/12/13 11:06	
1,4-Dichlorobenzene	ug/L	ND	1.0	06/12/13 11:06	
2-Chloroethylvinyl ether	ug/L	ND	10.0	06/12/13 11:06	
Benzene	ug/L	ND	1.0	06/12/13 11:06	
Bromodichloromethane	ug/L	ND	1.0	06/12/13 11:06	
Bromoform	ug/L	ND	1.0	06/12/13 11:06	
Bromomethane	ug/L	ND	5.0	06/12/13 11:06	
Carbon tetrachloride	ug/L	ND	1.0	06/12/13 11:06	
Chlorobenzene	ug/L	ND	1.0	06/12/13 11:06	
Chloroethane	ug/L	ND	1.0	06/12/13 11:06	
Chloroform	ug/L	ND	1.0	06/12/13 11:06	
Chloromethane	ug/L	ND	1.0	06/12/13 11:06	
cis-1,2-Dichloroethene	ug/L	ND	1.0	06/12/13 11:06	
cis-1,3-Dichloropropene	ug/L	ND	1.0	06/12/13 11:06	
Dibromochloromethane	ug/L	ND	1.0	06/12/13 11:06	
Ethylbenzene	ug/L	ND	1.0	06/12/13 11:06	
Methylene chloride	ug/L	ND	1.0	06/12/13 11:06	
Tetrachloroethene	ug/L	ND	1.0	06/12/13 11:06	
Toluene	ug/L	ND	1.0	06/12/13 11:06	
trans-1,2-Dichloroethene	ug/L	ND	1.0	06/12/13 11:06	
trans-1,3-Dichloropropene	ug/L	ND	1.0	06/12/13 11:06	
Trichloroethene	ug/L	ND	1.0	06/12/13 11:06	
Trichlorofluoromethane	ug/L	ND	1.0	06/12/13 11:06	
Vinyl chloride	ug/L	ND	1.0	06/12/13 11:06	
Xylene (Total)	ug/L	ND	3.0	06/12/13 11:06	
1,2-Dichloroethane-d4 (S)	%	106	80-120	06/12/13 11:06	
4-Bromofluorobenzene (S)	%	98	80-120	06/12/13 11:06	
Dibromofluoromethane (S)	%	99	80-120	06/12/13 11:06	
Toluene-d8 (S)	%	100	80-120	06/12/13 11:06	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

LABORATORY CONTROL SAMPLE: 1203245

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.6	98	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	18.4	92	59-138	
1,1,2-Trichloroethane	ug/L	20	18.1	91	69-127	
1,1-Dichloroethane	ug/L	20	16.7	84	69-126	
1,1-Dichloroethene	ug/L	20	19.0	95	65-153	
1,2-Dichlorobenzene	ug/L	20	17.6	88	66-126	
1,2-Dichloroethane	ug/L	20	19.3	97	71-129	
1,2-Dichloropropane	ug/L	20	18.7	93	66-140	
1,3-Dichlorobenzene	ug/L	20	17.7	89	63-127	
1,4-Dichlorobenzene	ug/L	20	17.5	88	68-124	
2-Chloroethylvinyl ether	ug/L	20	17.7	89	33-159	
Benzene	ug/L	20	18.0	90	73-129	
Bromodichloromethane	ug/L	20	19.2	96	63-129	
Bromoform	ug/L	20	18.7	93	52-123	
Bromomethane	ug/L	20	20.8	104	10-160	
Carbon tetrachloride	ug/L	20	20.2	101	70-140	
Chlorobenzene	ug/L	20	17.8	89	68-127	
Chloroethane	ug/L	20	22.3	111	42-160	
Chloroform	ug/L	20	17.8	89	60-120	
Chloromethane	ug/L	20	21.5	108	10-160	
cis-1,2-Dichloroethene	ug/L	20	17.7	88	70-125	
cis-1,3-Dichloropropene	ug/L	20	19.3	97	66-132	
Dibromochloromethane	ug/L	20	19.8	99	63-134	
Ethylbenzene	ug/L	20	17.8	89	66-133	
Methylene chloride	ug/L	20	16.9	84	56-135	
Tetrachloroethene	ug/L	20	19.0	95	64-143	
Toluene	ug/L	20	18.1	91	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.3	92	67-149	
trans-1,3-Dichloropropene	ug/L	20	21.1	105	66-138	
Trichloroethene	ug/L	20	18.4	92	71-130	
Trichlorofluoromethane	ug/L	20	17.3	87	58-158	
Vinyl chloride	ug/L	20	18.8	94	41-160	
Xylene (Total)	ug/L	60	54.1	90	67-130	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Dibromofluoromethane (S)	%			98	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1203246

Parameter	Units	60146252001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4100	103	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3940	98	46-157	
1,1,2-Trichloroethane	ug/L	ND	4000	4070	102	52-150	
1,1-Dichloroethane	ug/L	ND	4000	3430	86	59-155	
1,1-Dichloroethene	ug/L	ND	4000	3790	95	14-160	
1,2-Dichlorobenzene	ug/L	ND	4000	3720	93	18-145	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 189/190-MSD

Project No.: 60146488

MATRIX SPIKE SAMPLE:		1203246		60146252001		Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits		
1,2-Dichloroethane	ug/L	ND	4000	4030	101	4030	101	49-155		
1,2-Dichloropropane	ug/L	ND	4000	4030	101	4030	101	12-160		
1,3-Dichlorobenzene	ug/L	ND	4000	3840	96	3840	96	59-146		
1,4-Dichlorobenzene	ug/L	ND	4000	3690	92	3690	92	18-147		
2-Chloroethylvinyl ether	ug/L	ND	4000	4670	117	4670	117	10-160		
Benzene	ug/L	ND	4000	3790	95	3790	95	37-151		
Bromodichloromethane	ug/L	ND	4000	3950	99	3950	99	35-155		
Bromoform	ug/L	ND	4000	4130	103	4130	103	45-133		
Bromomethane	ug/L	ND	4000	3950	99	3950	99	10-160		
Carbon tetrachloride	ug/L	ND	4000	4230	106	4230	106	70-140		
Chlorobenzene	ug/L	ND	4000	3840	96	3840	96	37-153		
Chloroethane	ug/L	ND	4000	3650	91	3650	91	14-160		
Chloroform	ug/L	ND	4000	3740	93	3740	93	51-138		
Chloromethane	ug/L	ND	4000	4450	111	4450	111	10-160		
cis-1,2-Dichloroethene	ug/L	ND	4000	3630	91	3630	91	19-160		
cis-1,3-Dichloropropene	ug/L	ND	4000	4120	103	4120	103	10-160		
Dibromochloromethane	ug/L	ND	4000	4340	109	4340	109	53-149		
Ethylbenzene	ug/L	ND	4000	3890	97	3890	97	37-154		
Methylene chloride	ug/L	ND	4000	3610	90	3610	90	15-156		
Tetrachloroethene	ug/L	ND	4000	4070	102	4070	102	64-148		
Toluene	ug/L	ND	4000	3830	96	3830	96	47-150		
trans-1,2-Dichloroethene	ug/L	ND	4000	3780	95	3780	95	54-156		
trans-1,3-Dichloropropene	ug/L	ND	4000	4610	115	4610	115	17-160		
Trichloroethene	ug/L	ND	4000	3810	95	3810	95	71-157		
Trichlorofluoromethane	ug/L	ND	4000	3730	93	3730	93	17-160		
Vinyl chloride	ug/L	ND	4000	3890	97	3890	97	10-160		
Xylene (Total)	ug/L	ND	12000	11600	97	11600	97	12-153		
1,2-Dichloroethane-d4 (S)	%						106	80-120		
4-Bromofluorobenzene (S)	%						102	80-120		
Dibromofluoromethane (S)	%						98	80-120		
Toluene-d8 (S)	%						99	80-120		
Preservation pH			7.0			7.0				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 189/190-MSD
Pace Project No.: 60146488

QC Batch: OEXT/38772 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60146488001

METHOD BLANK: 1201586 Matrix: Water
Associated Lab Samples: 60146488001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/10/13 13:09	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/10/13 13:09	
2,4-Dichlorophenol	ug/L	ND	5.0	06/10/13 13:09	
2,4-Dimethylphenol	ug/L	ND	5.0	06/10/13 13:09	
2,4-Dinitrophenol	ug/L	ND	50.0	06/10/13 13:09	
2,4-Dinitrotoluene	ug/L	ND	6.0	06/10/13 13:09	
2,6-Dinitrotoluene	ug/L	ND	5.0	06/10/13 13:09	
2-Chloronaphthalene	ug/L	ND	5.0	06/10/13 13:09	
2-Chlorophenol	ug/L	ND	5.0	06/10/13 13:09	
2-Nitrophenol	ug/L	ND	5.0	06/10/13 13:09	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	06/10/13 13:09	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/10/13 13:09	
4-Bromophenylphenyl ether	ug/L	ND	5.0	06/10/13 13:09	
4-Chloro-3-methylphenol	ug/L	ND	5.0	06/10/13 13:09	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	06/10/13 13:09	
4-Nitrophenol	ug/L	ND	5.0	06/10/13 13:09	
Acenaphthene	ug/L	ND	5.0	06/10/13 13:09	
Acenaphthylene	ug/L	ND	5.0	06/10/13 13:09	
Anthracene	ug/L	ND	5.0	06/10/13 13:09	
Benzidine	ug/L	ND	50.0	06/10/13 13:09	
Benzo(a)anthracene	ug/L	ND	5.0	06/10/13 13:09	
Benzo(a)pyrene	ug/L	ND	5.0	06/10/13 13:09	
Benzo(b)fluoranthene	ug/L	ND	5.0	06/10/13 13:09	
Benzo(g,h,i)perylene	ug/L	ND	5.0	06/10/13 13:09	
Benzo(k)fluoranthene	ug/L	ND	5.0	06/10/13 13:09	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	06/10/13 13:09	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	06/10/13 13:09	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	06/10/13 13:09	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	06/10/13 13:09	
Butylbenzylphthalate	ug/L	ND	5.0	06/10/13 13:09	
Chrysene	ug/L	ND	5.0	06/10/13 13:09	
Di-n-butylphthalate	ug/L	ND	5.0	06/10/13 13:09	
Di-n-octylphthalate	ug/L	ND	5.0	06/10/13 13:09	
Dibenz(a,h)anthracene	ug/L	ND	5.0	06/10/13 13:09	
Diethylphthalate	ug/L	ND	5.0	06/10/13 13:09	
Dimethylphthalate	ug/L	ND	5.0	06/10/13 13:09	
Fluoranthene	ug/L	ND	5.0	06/10/13 13:09	
Fluorene	ug/L	ND	5.0	06/10/13 13:09	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/10/13 13:09	
Hexachlorobenzene	ug/L	ND	5.0	06/10/13 13:09	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/10/13 13:09	
Hexachloroethane	ug/L	ND	5.0	06/10/13 13:09	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	06/10/13 13:09	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

METHOD BLANK: 1201586

Matrix: Water

Associated Lab Samples: 60146488001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	06/10/13 13:09	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	06/10/13 13:09	
N-Nitrosodimethylamine	ug/L	ND	5.0	06/10/13 13:09	
N-Nitrosodiphenylamine	ug/L	ND	5.0	06/10/13 13:09	
Naphthalene	ug/L	ND	5.0	06/10/13 13:09	
Nitrobenzene	ug/L	ND	5.0	06/10/13 13:09	
Pentachlorophenol	ug/L	ND	5.0	06/10/13 13:09	
Phenanthrene	ug/L	ND	5.0	06/10/13 13:09	
Phenol	ug/L	ND	5.0	06/10/13 13:09	
Pyrene	ug/L	ND	5.0	06/10/13 13:09	
2,4,6-Tribromophenol (S)	%	79	39-119	06/10/13 13:09	
2-Fluorobiphenyl (S)	%	81	36-120	06/10/13 13:09	
2-Fluorophenol (S)	%	41	18-120	06/10/13 13:09	
Nitrobenzene-d5 (S)	%	74	32-120	06/10/13 13:09	
Phenol-d6 (S)	%	26	12-120	06/10/13 13:09	
Terphenyl-d14 (S)	%	83	44-120	06/10/13 13:09	

LABORATORY CONTROL SAMPLE: 1201587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	34.3	69	44-120	
2,4,6-Trichlorophenol	ug/L	50	39.7	79	48-120	
2,4-Dichlorophenol	ug/L	50	35.9	72	48-120	
2,4-Dimethylphenol	ug/L	50	31.2	62	37-119	
2,4-Dinitrophenol	ug/L	50	40.4J	81	15-153	
2,4-Dinitrotoluene	ug/L	50	41.2	82	54-120	
2,6-Dinitrotoluene	ug/L	50	40.5	81	52-120	
2-Chloronaphthalene	ug/L	50	37.9	76	60-118	
2-Chlorophenol	ug/L	50	34.5	69	44-120	
2-Nitrophenol	ug/L	50	37.2	74	43-120	
3,3'-Dichlorobenzidine	ug/L	50	56.3	113	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	44.6	89	31-147	
4-Bromophenylphenyl ether	ug/L	50	40.7	81	53-120	
4-Chloro-3-methylphenol	ug/L	50	37.2	74	50-120	
4-Chlorophenylphenyl ether	ug/L	50	38.7	77	54-120	
4-Nitrophenol	ug/L	50	14.1	28	10-120	
Acenaphthene	ug/L	50	38.8	78	51-120	
Acenaphthylene	ug/L	50	38.1	76	51-120	
Anthracene	ug/L	50	42.5	85	54-120	
Benzidine	ug/L	50	6.8J	14	1-124	
Benzo(a)anthracene	ug/L	50	42.5	85	54-120	
Benzo(a)pyrene	ug/L	50	43.3	87	54-120	
Benzo(b)fluoranthene	ug/L	50	44.2	88	57-120	
Benzo(g,h,i)perylene	ug/L	50	42.9	86	54-120	
Benzo(k)fluoranthene	ug/L	50	43.7	87	52-121	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

LABORATORY CONTROL SAMPLE: 1201587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	50	36.2	72	51-120	
bis(2-Chloroethyl) ether	ug/L	50	36.4	73	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	38.1	76	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	43.9	88	51-126	
Butylbenzylphthalate	ug/L	50	46.4	93	45-129	
Chrysene	ug/L	50	43.3	87	54-120	
Di-n-butylphthalate	ug/L	50	43.7	87	57-118	
Di-n-octylphthalate	ug/L	50	45.9	92	48-130	
Dibenz(a,h)anthracene	ug/L	50	42.4	85	56-119	
Diethylphthalate	ug/L	50	41.5	83	55-114	
Dimethylphthalate	ug/L	50	40.9	82	54-112	
Fluoranthene	ug/L	50	41.5	83	56-120	
Fluorene	ug/L	50	38.7	77	59-120	
Hexachloro-1,3-butadiene	ug/L	50	32.1	64	41-116	
Hexachlorobenzene	ug/L	50	38.4	77	53-120	
Hexachlorocyclopentadiene	ug/L	100	56.5	56	31-120	
Hexachloroethane	ug/L	50	33.5	67	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	42.4	85	55-120	
Isophorone	ug/L	50	36.5	73	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	36.4	73	47-120	
N-Nitrosodimethylamine	ug/L	50	18.8	38	28-120	
N-Nitrosodiphenylamine	ug/L	50	40.4	81	53-120	
Naphthalene	ug/L	50	36.4	73	48-120	
Nitrobenzene	ug/L	50	35.5	71	47-120	
Pentachlorophenol	ug/L	50	42.6	85	43-127	
Phenanthrene	ug/L	50	41.6	83	55-120	
Phenol	ug/L	50	13.4	27	15-112	
Pyrene	ug/L	50	44.7	89	55-115	
2,4,6-Tribromophenol (S)	%			82	39-119	
2-Fluorobiphenyl (S)	%			76	36-120	
2-Fluorophenol (S)	%			41	18-120	
Nitrobenzene-d5 (S)	%			70	32-120	M4
Phenol-d6 (S)	%			26	12-120	
Terphenyl-d14 (S)	%			86	44-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

QC Batch:	WET/41803	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60146488001		

METHOD BLANK: 1203684 Matrix: Water

Associated Lab Samples: 60146488001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/13/13 07:14	

LABORATORY CONTROL SAMPLE: 1203685

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

MATRIX SPIKE SAMPLE: 1203693

Parameter	Units	60146085001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.8	42.6	99	78-114	

SAMPLE DUPLICATE: 1203694

Parameter	Units	60146051001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1.7J		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

QC Batch:	WET/41834	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60146488001		

METHOD BLANK: 1204694 Matrix: Water

Associated Lab Samples: 60146488001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/14/13 07:50	

LABORATORY CONTROL SAMPLE: 1204695

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	22.3	112	64-132	

MATRIX SPIKE SAMPLE: 1204712

Parameter	Units	60146169003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.6	17.4	77	64-132	

SAMPLE DUPLICATE: 1204713

Parameter	Units	60146169002 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 189/190-MSD

Pace Project No.: 60146488

QC Batch: WET/41820

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60146488001

METHOD BLANK: 1204198

Matrix: Water

Associated Lab Samples: 60146488001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	06/13/13 13:12	

SAMPLE DUPLICATE: 1204199

Parameter	Units	60146375002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	5.0	6.0	18	25	

SAMPLE DUPLICATE: 1204200

Parameter	Units	60146442002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	8.0	6.0	29	25	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

QC Batch: WET/41743 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60146488001

SAMPLE DUPLICATE: 1202136

Parameter	Units	60146491012 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

QC Batch:	WETA/25122	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60146488001		

METHOD BLANK: 1205993 Matrix: Water
Associated Lab Samples: 60146488001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	06/16/13 17:13	

LABORATORY CONTROL SAMPLE: 1205994

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

MATRIX SPIKE SAMPLE: 1205995

Parameter	Units	60146245001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	3.5	8	10.2	85	90-110	M1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

QC Batch: WETA/25072 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60146488001

METHOD BLANK: 1203345 Matrix: Water

Associated Lab Samples: 60146488001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/16/13 10:02	

LABORATORY CONTROL SAMPLE: 1203346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	54.6	109	90-110	

MATRIX SPIKE SAMPLE: 1203347

Parameter	Units	60146171002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	28.3	50	78.0	99	90-110	

MATRIX SPIKE SAMPLE: 1203349

Parameter	Units	60146171004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	54.0	100	90-110	

SAMPLE DUPLICATE: 1203348

Parameter	Units	60146171003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	25.7	24.4	5	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

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.
- M4 A matrix spike/matrix spike duplicate was not performed for this batch due to sample dilution.
- R1 RPD value was outside control limits.
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146488

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60146488001	189/190-MSD	EPA 200.7	MPRP/23002	EPA 200.7	ICP/18176
60146488001	189/190-MSD	EPA 200.7	MPRP/23021	EPA 200.7	ICP/18187
60146488001	189/190-MSD	EPA 245.1	MERP/7415	EPA 245.1	MERC/7371
60146488001	189/190-MSD	EPA 245.1	MERP/7421	EPA 245.1	MERC/7376
60146488001	189/190-MSD	EPA 625	OEXT/38772	EPA 625	MSSV/12266
60146488001	189/190-MSD	EPA 624 Low	MSV/54273		
60146488002	TRIP BLANK	EPA 624 Low	MSV/54273		
60146488001	189/190-MSD	EPA 1664A	WET/41803		
60146488001	189/190-MSD	EPA 1664A	WET/41834		
60146488001	189/190-MSD	SM 2540D	WET/41820		
60146488001	189/190-MSD	SM 4500-H+B	WET/41743		
60146488001	189/190-MSD	EPA 350.1	WETA/25122		
60146488001	189/190-MSD	EPA 410.4	WETA/25072		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60146488



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 ZPLC

Thermometer Used: T-112 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 1.6

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 6-8-13 BA

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses	Matrix: <u>WT</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>sulfuric and nitric container pH was both 6.0 Added preservative to both and they both went down to 3.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> coliform, TOC <u>O&G</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>PA 6-8-13</u>	Initial when completed <u>BA</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): <u>covered</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 6/10/13

June 17, 2013

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

RE: Project: BRIDGETON LF 189/190-MSD
Pace Project No.: 60146489

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 08, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146489

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA 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 189/190-MSD

Pace Project No.: 60146489

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60146489001	189/190-MSD	Water	06/07/13 11:07	06/08/13 00:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146489

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60146489001	189/190-MSD	SM 5210B	NDL	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146489

Sample: 189/190-MSD	Lab ID: 60146489001	Collected: 06/07/13 11:07	Received: 06/08/13 00:55	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	27500	mg/L	2.0	1	06/08/13 10:52	06/13/13 16:23		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146489

QC Batch: WET/41728

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60146489001

METHOD BLANK: 1201516

Matrix: Water

Associated Lab Samples: 60146489001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/13/13 15:32	

LABORATORY CONTROL SAMPLE: 1201517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	177	90	85-115	

SAMPLE DUPLICATE: 1201518

Parameter	Units	60146464002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	20.0	18.9	6	17	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146489

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 189/190-MSD

Pace Project No.: 60146489

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60146489001	189/190-MSD	SM 5210B	WET/41728	SM 5210B	WET/41829

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60146489



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-112 / 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

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: 6-8-13 BA

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

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: 6/10/13

July 05, 2013

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

RE: Project: BRIDGETON LF 316-004-MSD
Pace Project No.: 60147967

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 29, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147967

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

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Utah Certification #: KS000212013-3

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REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147967

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60147967001	316-004-MSD	Water	06/27/13 17:45	06/29/13 01:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147967

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60147967001	316-004-MSD	SM 5210B	NDL	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147967

Sample: 316-004-MSD	Lab ID: 60147967001	Collected: 06/27/13 17:45	Received: 06/29/13 01:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day								
Analytical Method: SM 5210B Preparation Method: SM 5210B								
BOD, 5 day	22200	mg/L	2.0	1	06/29/13 11:37	07/04/13 07:25		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147967

QC Batch: WET/42124

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60147967001

METHOD BLANK: 1213682

Matrix: Water

Associated Lab Samples: 60147967001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	07/04/13 07:19	

LABORATORY CONTROL SAMPLE: 1213683

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	181	92	85-115	

SAMPLE DUPLICATE: 1213687

Parameter	Units	60147960001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	570	609	7	17	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147967

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.

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147967

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60147967001	316-004-MSD	SM 5210B	WET/42124	SM 5210B	WET/42216

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60147967



Client Name: Bark Eng

Courier: Fed Ex UPS USPS Client Commercial Pace Other Xroad

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other ZAC

Thermometer Used: T-112 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 3.6

Date and initials of person examining contents: 12/6/13

Temperature should be above freezing to 6°C

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: new for AEB Date: 12/30/13

July 08, 2013

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

RE: Project: BRIDGETON LF 316-004-MSD
Pace Project No.: 60147968

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on June 29, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

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

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Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60147968001	316-004-MSD	Water	06/27/13 17:45	06/29/13 01:25
60147968002	TRIP BLANK	Water	06/27/13 17:45	06/29/13 01:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60147968001	316-004-MSD	EPA 200.7	TJT	15
		EPA 200.7	TJT	15
		EPA 245.1	TDS	1
		EPA 245.1	TDS	1
		EPA 625	JMT	59
		EPA 624 Low	JKL	38
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	JML	1
		SM 4500-H+B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
		60147968002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

Sample: 316-004-MSD		Lab ID: 60147968001	Collected: 06/27/13 17:45	Received: 06/29/13 01:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	8410 ug/L		150	2	07/01/13 08:45	07/05/13 11:31	7429-90-5	
Antimony	48.2 ug/L		20.0	2	07/01/13 08:45	07/05/13 11:31	7440-36-0	
Arsenic	658 ug/L		20.0	2	07/01/13 08:45	07/05/13 11:31	7440-38-2	
Beryllium	ND ug/L		2.0	2	07/01/13 08:45	07/05/13 11:31	7440-41-7	D3
Cadmium	ND ug/L		10.0	2	07/01/13 08:45	07/05/13 11:31	7440-43-9	D3
Chromium	209 ug/L		10.0	2	07/01/13 08:45	07/05/13 11:31	7440-47-3	
Cobalt	47.9 ug/L		10.0	2	07/01/13 08:45	07/05/13 11:31	7440-48-4	
Copper	31.7 ug/L		20.0	2	07/01/13 08:45	07/05/13 11:31	7440-50-8	
Iron	642000 ug/L		100	2	07/01/13 08:45	07/05/13 11:31	7439-89-6	
Lead	109 ug/L		10.0	2	07/01/13 08:45	07/05/13 11:31	7439-92-1	
Nickel	119 ug/L		10.0	2	07/01/13 08:45	07/05/13 11:31	7440-02-0	
Selenium	140 ug/L		30.0	2	07/01/13 08:45	07/05/13 11:31	7782-49-2	
Silver	ND ug/L		14.0	2	07/01/13 08:45	07/05/13 11:31	7440-22-4	D3
Thallium	ND ug/L		40.0	2	07/01/13 08:45	07/05/13 11:31	7440-28-0	D3
Zinc	11400 ug/L		1000	20	07/01/13 08:45	07/05/13 12:19	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	3320 ug/L		150	2	07/01/13 16:30	07/05/13 16:12	7429-90-5	
Antimony, Dissolved	ND ug/L		50.0	5	07/01/13 16:30	07/05/13 16:14	7440-36-0	D3,R1
Arsenic, Dissolved	523 ug/L		50.0	5	07/01/13 16:30	07/05/13 16:14	7440-38-2	
Beryllium, Dissolved	ND ug/L		2.0	2	07/01/13 16:30	07/05/13 16:12	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		25.0	5	07/01/13 16:30	07/05/13 16:14	7440-43-9	D3
Chromium, Dissolved	190 ug/L		25.0	5	07/01/13 16:30	07/05/13 16:14	7440-47-3	
Cobalt, Dissolved	39.0 ug/L		25.0	5	07/01/13 16:30	07/05/13 16:14	7440-48-4	
Copper, Dissolved	ND ug/L		20.0	2	07/01/13 16:30	07/05/13 16:12	7440-50-8	D3
Iron, Dissolved	496000 ug/L		100	2	07/01/13 16:30	07/05/13 16:12	7439-89-6	M1
Lead, Dissolved	45.8 ug/L		25.0	5	07/01/13 16:30	07/05/13 16:14	7439-92-1	
Nickel, Dissolved	104 ug/L		25.0	5	07/01/13 16:30	07/05/13 16:14	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	5	07/01/13 16:30	07/05/13 16:14	7782-49-2	D3
Silver, Dissolved	ND ug/L		14.0	2	07/01/13 16:30	07/05/13 16:12	7440-22-4	D3,M1, R1
Thallium, Dissolved	ND ug/L		100	5	07/01/13 16:30	07/05/13 16:14	7440-28-0	D3
Zinc, Dissolved	10800 ug/L		1000	20	07/01/13 16:30	07/05/13 16:17	7440-66-6	M1
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	12.2 ug/L		1.0	5	07/01/13 14:30	07/02/13 15:36	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		0.20	1	07/01/13 14:30	07/02/13 16:05	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	83-32-9	
Acenaphthylene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	208-96-8	
Anthracene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	120-12-7	
Benzidine	ND ug/L		10000	20	07/02/13 00:00	07/03/13 16:31	92-87-5	
Benzo(a)anthracene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	56-55-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

Sample: 316-004-MSD	Lab ID: 60147968001	Collected: 06/27/13 17:45	Received: 06/29/13 01:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Benzo(a)pyrene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	50-32-8	
Benzo(b)fluoranthene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	191-24-2	
Benzo(k)fluoranthene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	207-08-9	
4-Bromophenylphenyl ether	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	101-55-3	
Butylbenzylphthalate	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	85-68-7	
4-Chloro-3-methylphenol	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	59-50-7	
bis(2-Chloroethoxy)methane	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		1200	20	07/02/13 00:00	07/03/13 16:31	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		1200	20	07/02/13 00:00	07/03/13 16:31	39638-32-9	
2-Chloronaphthalene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	91-58-7	
2-Chlorophenol	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	7005-72-3	
Chrysene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	53-70-3	
3,3'-Dichlorobenzidine	ND ug/L		4000	20	07/02/13 00:00	07/03/13 16:31	91-94-1	
2,4-Dichlorophenol	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	120-83-2	
Diethylphthalate	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	84-66-2	
2,4-Dimethylphenol	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	105-67-9	
Dimethylphthalate	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	131-11-3	
Di-n-butylphthalate	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		5000	20	07/02/13 00:00	07/03/13 16:31	534-52-1	
2,4-Dinitrophenol	ND ug/L		10000	20	07/02/13 00:00	07/03/13 16:31	51-28-5	
2,4-Dinitrotoluene	ND ug/L		1200	20	07/02/13 00:00	07/03/13 16:31	121-14-2	
2,6-Dinitrotoluene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	606-20-2	
Di-n-octylphthalate	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	117-81-7	
Fluoranthene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	206-44-0	
Fluorene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	87-68-3	
Hexachlorobenzene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	77-47-4	
Hexachloroethane	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	193-39-5	
Isophorone	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	78-59-1	
Naphthalene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	91-20-3	
Nitrobenzene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	98-95-3	
2-Nitrophenol	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	88-75-5	
4-Nitrophenol	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	100-02-7	
N-Nitrosodimethylamine	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	86-30-6	
Pentachlorophenol	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	87-86-5	
Phenanthrene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	85-01-8	
Phenol	12100 ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	108-95-2	
Pyrene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	120-82-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

Sample: 316-004-MSD	Lab ID: 60147968001	Collected: 06/27/13 17:45	Received: 06/29/13 01:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV								
Analytical Method: EPA 625 Preparation Method: EPA 625								
2,4,6-Trichlorophenol	ND ug/L		1000	20	07/02/13 00:00	07/03/13 16:31	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0 %		32-120	20	07/02/13 00:00	07/03/13 16:31	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	20	07/02/13 00:00	07/03/13 16:31	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	20	07/02/13 00:00	07/03/13 16:31	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	20	07/02/13 00:00	07/03/13 16:31	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	20	07/02/13 00:00	07/03/13 16:31	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	20	07/02/13 00:00	07/03/13 16:31	118-79-6	S4
624 Volatile Organics								
Analytical Method: EPA 624 Low								
Benzene	ND ug/L		200	200		07/02/13 17:35	71-43-2	
Bromodichloromethane	ND ug/L		200	200		07/02/13 17:35	75-27-4	
Bromoform	ND ug/L		200	200		07/02/13 17:35	75-25-2	
Bromomethane	ND ug/L		1000	200		07/02/13 17:35	74-83-9	
Carbon tetrachloride	ND ug/L		200	200		07/02/13 17:35	56-23-5	
Chlorobenzene	ND ug/L		200	200		07/02/13 17:35	108-90-7	
Chloroethane	ND ug/L		200	200		07/02/13 17:35	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		07/02/13 17:35	110-75-8	
Chloroform	ND ug/L		200	200		07/02/13 17:35	67-66-3	
Chloromethane	ND ug/L		200	200		07/02/13 17:35	74-87-3	
Dibromochloromethane	ND ug/L		200	200		07/02/13 17:35	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		07/02/13 17:35	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		07/02/13 17:35	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		07/02/13 17:35	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		07/02/13 17:35	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		07/02/13 17:35	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		07/02/13 17:35	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		07/02/13 17:35	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		07/02/13 17:35	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		07/02/13 17:35	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		07/02/13 17:35	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		07/02/13 17:35	10061-02-6	
Ethylbenzene	ND ug/L		200	200		07/02/13 17:35	100-41-4	
Methylene chloride	ND ug/L		200	200		07/02/13 17:35	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		07/02/13 17:35	79-34-5	
Tetrachloroethene	ND ug/L		200	200		07/02/13 17:35	127-18-4	
Toluene	ND ug/L		200	200		07/02/13 17:35	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		07/02/13 17:35	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		07/02/13 17:35	79-00-5	
Trichloroethene	ND ug/L		200	200		07/02/13 17:35	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		07/02/13 17:35	75-69-4	
Vinyl chloride	ND ug/L		200	200		07/02/13 17:35	75-01-4	
Xylene (Total)	ND ug/L		600	200		07/02/13 17:35	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100 %		80-120	200		07/02/13 17:35	1868-53-7	D3
4-Bromofluorobenzene (S)	99 %		80-120	200		07/02/13 17:35	460-00-4	
Toluene-d8 (S)	100 %		80-120	200		07/02/13 17:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

Sample: 316-004-MSD		Lab ID: 60147968001	Collected: 06/27/13 17:45	Received: 06/29/13 01:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Surrogates								
1,2-Dichloroethane-d4 (S)	103 %		80-120	200		07/02/13 17:35	17060-07-0	
Preservation pH	7.0		1.0	200		07/02/13 17:35		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	335 mg/L		5.0	1		07/01/13 11:40		
1664 SGT-HEM, TPH		Analytical Method: EPA 1664A						
Total Petroleum Hydrocarbons	22.3 mg/L		5.0	1		07/08/13 06:49		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	920 mg/L		5.0	1		07/02/13 11:17		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4 Std. Units		0.10	1		07/02/13 13:30		H6
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	558 mg/L		20.0	200		07/03/13 14:22	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	46000 mg/L		5000	500		07/08/13 08:07		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

Sample: TRIP BLANK	Lab ID: 60147968002	Collected: 06/27/13 17:45	Received: 06/29/13 01:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		1.0	1		07/02/13 17:56	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		07/02/13 17:56	75-27-4	
Bromoform	ND ug/L		1.0	1		07/02/13 17:56	75-25-2	
Bromomethane	ND ug/L		5.0	1		07/02/13 17:56	74-83-9	
Carbon tetrachloride	ND ug/L		1.0	1		07/02/13 17:56	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		07/02/13 17:56	108-90-7	
Chloroethane	ND ug/L		1.0	1		07/02/13 17:56	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		07/02/13 17:56	110-75-8	
Chloroform	ND ug/L		1.0	1		07/02/13 17:56	67-66-3	
Chloromethane	ND ug/L		1.0	1		07/02/13 17:56	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		07/02/13 17:56	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		07/02/13 17:56	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		07/02/13 17:56	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		07/02/13 17:56	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		07/02/13 17:56	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		07/02/13 17:56	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		07/02/13 17:56	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		07/02/13 17:56	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		07/02/13 17:56	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		07/02/13 17:56	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		07/02/13 17:56	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		07/02/13 17:56	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		07/02/13 17:56	100-41-4	
Methylene chloride	ND ug/L		1.0	1		07/02/13 17:56	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		07/02/13 17:56	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		07/02/13 17:56	127-18-4	
Toluene	ND ug/L		1.0	1		07/02/13 17:56	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		07/02/13 17:56	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		07/02/13 17:56	79-00-5	
Trichloroethene	ND ug/L		1.0	1		07/02/13 17:56	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		07/02/13 17:56	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		07/02/13 17:56	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		07/02/13 17:56	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103 %		80-120	1		07/02/13 17:56	1868-53-7	
4-Bromofluorobenzene (S)	99 %		80-120	1		07/02/13 17:56	460-00-4	
Toluene-d8 (S)	101 %		80-120	1		07/02/13 17:56	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	1		07/02/13 17:56	17060-07-0	
Preservation pH	6.0		1.0	1		07/02/13 17:56		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

QC Batch:	MERP/7472	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60147968001		

METHOD BLANK: 1214106 Matrix: Water
Associated Lab Samples: 60147968001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	07/02/13 14:17	

LABORATORY CONTROL SAMPLE: 1214107

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	101	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1214108 1214109

Parameter	60147781001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
	Units	Result	Conc.	Conc.								
Mercury	ug/L	ND	5	5	4.9	5.3	99	105	70-130	6	20	

MATRIX SPIKE SAMPLE: 1214110

Parameter	Units	60147801001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.8	96	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

QC Batch: MERP/7471

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60147968001

METHOD BLANK: 1214098

Matrix: Water

Associated Lab Samples: 60147968001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	07/02/13 15:47	

LABORATORY CONTROL SAMPLE: 1214099

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.5	110	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1214100 1214101

Parameter	Units	60147801001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Mercury, Dissolved	ug/L	ND	5	5	5.2	5.2	104	103	70-130	1	20		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

QC Batch: MPRP/23303 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60147968001

METHOD BLANK: 1213950 Matrix: Water

Associated Lab Samples: 60147968001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	07/05/13 11:28	
Antimony	ug/L	ND	10.0	07/05/13 11:28	
Arsenic	ug/L	ND	10.0	07/05/13 11:28	
Beryllium	ug/L	ND	1.0	07/05/13 11:28	
Cadmium	ug/L	ND	5.0	07/05/13 11:28	
Chromium	ug/L	ND	5.0	07/05/13 11:28	
Cobalt	ug/L	ND	5.0	07/05/13 11:28	
Copper	ug/L	ND	10.0	07/05/13 11:28	
Iron	ug/L	ND	50.0	07/05/13 11:28	
Lead	ug/L	ND	5.0	07/05/13 11:28	
Nickel	ug/L	ND	5.0	07/05/13 11:28	
Selenium	ug/L	ND	15.0	07/05/13 11:28	
Silver	ug/L	ND	7.0	07/05/13 11:28	
Thallium	ug/L	ND	20.0	07/05/13 11:28	
Zinc	ug/L	ND	50.0	07/05/13 11:28	

LABORATORY CONTROL SAMPLE: 1213951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9130	91	85-115	
Antimony	ug/L	1000	969	97	85-115	
Arsenic	ug/L	1000	979	98	85-115	
Beryllium	ug/L	1000	997	100	85-115	
Cadmium	ug/L	1000	994	99	85-115	
Chromium	ug/L	1000	1050	105	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	990	99	85-115	
Iron	ug/L	10000	9960	100	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1040	104	85-115	
Selenium	ug/L	1000	1030	103	85-115	
Silver	ug/L	500	490	98	85-115	
Thallium	ug/L	1000	1050	105	85-115	
Zinc	ug/L	1000	1070	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1213952 1213953

Parameter	Units	60147991001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Aluminum	ug/L	ND	10000	10000	9120	9240	91	92	70-130	1	8

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

Parameter	Units	60147991001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec							
Antimony	ug/L	ND	1000	1000	965	984	97	98	70-130	2	7				
Arsenic	ug/L	ND	1000	1000	981	1010	98	100	70-130	3	10				
Beryllium	ug/L	ND	1000	1000	987	1010	99	101	70-130	2	7				
Cadmium	ug/L	ND	1000	1000	976	996	98	100	70-130	2	10				
Chromium	ug/L	ND	1000	1000	1030	1050	103	105	70-130	2	10				
Cobalt	ug/L	ND	1000	1000	1000	1030	100	103	70-130	2	6				
Copper	ug/L	41.7	1000	1000	1010	1040	97	100	70-130	2	11				
Iron	ug/L	ND	10000	10000	9880	10100	98	101	70-130	2	10				
Lead	ug/L	ND	1000	1000	993	1020	99	102	70-130	2	10				
Nickel	ug/L	ND	1000	1000	1010	1040	101	104	70-130	2	10				
Selenium	ug/L	ND	1000	1000	1000	1020	100	102	70-130	2	10				
Silver	ug/L	ND	500	500	482	494	96	98	70-130	2	10				
Thallium	ug/L	ND	1000	1000	1020	1040	102	104	70-130	2	6				
Zinc	ug/L	67.8	1000	1000	1110	1140	104	108	70-130	3	11				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

QC Batch: MPRP/23312

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60147968001

METHOD BLANK: 1214118

Matrix: Water

Associated Lab Samples: 60147968001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	07/05/13 16:10	
Antimony, Dissolved	ug/L	ND	10.0	07/05/13 16:10	
Arsenic, Dissolved	ug/L	ND	10.0	07/05/13 16:10	
Beryllium, Dissolved	ug/L	ND	1.0	07/05/13 16:10	
Cadmium, Dissolved	ug/L	ND	5.0	07/05/13 16:10	
Chromium, Dissolved	ug/L	ND	5.0	07/05/13 16:10	
Cobalt, Dissolved	ug/L	ND	5.0	07/05/13 16:10	
Copper, Dissolved	ug/L	ND	10.0	07/05/13 16:10	
Iron, Dissolved	ug/L	ND	50.0	07/05/13 16:10	
Lead, Dissolved	ug/L	ND	5.0	07/05/13 16:10	
Nickel, Dissolved	ug/L	ND	5.0	07/05/13 16:10	
Selenium, Dissolved	ug/L	ND	15.0	07/05/13 16:10	
Silver, Dissolved	ug/L	ND	7.0	07/05/13 16:10	
Thallium, Dissolved	ug/L	ND	20.0	07/05/13 16:10	
Zinc, Dissolved	ug/L	ND	50.0	07/05/13 16:10	

LABORATORY CONTROL SAMPLE: 1214119

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9110	91	85-115	
Antimony, Dissolved	ug/L	1000	1010	101	85-115	
Arsenic, Dissolved	ug/L	1000	1010	101	85-115	
Beryllium, Dissolved	ug/L	1000	989	99	85-115	
Cadmium, Dissolved	ug/L	1000	1000	100	85-115	
Chromium, Dissolved	ug/L	1000	1050	105	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	981	98	85-115	
Iron, Dissolved	ug/L	10000	9750	98	85-115	
Lead, Dissolved	ug/L	1000	1040	104	85-115	
Nickel, Dissolved	ug/L	1000	1060	106	85-115	
Selenium, Dissolved	ug/L	1000	1020	102	85-115	
Silver, Dissolved	ug/L	500	501	100	85-115	
Thallium, Dissolved	ug/L	1000	1080	108	85-115	
Zinc, Dissolved	ug/L	1000	1080	108	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1214120

1214121

Parameter	Units	60147968001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum, Dissolved	ug/L	3320	10000	10000	13300	13200	99	98	70-130	1	8		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1214120			1214121			MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
	Units	60147968001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony, Dissolved	ug/L	ND	1000	1000	1080	996	105	97	70-130	8	7	R1
Arsenic, Dissolved	ug/L	523	1000	1000	1640	1650	112	113	70-130	1	10	
Beryllium, Dissolved	ug/L	ND	1000	1000	930	931	93	93	70-130	0	7	
Cadmium, Dissolved	ug/L	ND	1000	1000	1060	1060	106	105	70-130	1	10	
Chromium, Dissolved	ug/L	190	1000	1000	1180	1160	99	97	70-130	2	10	
Cobalt, Dissolved	ug/L	39.0	1000	1000	999	987	96	95	70-130	1	6	
Copper, Dissolved	ug/L	ND	1000	1000	1160	1140	114	112	70-130	1	11	
Iron, Dissolved	ug/L	496000	10000	10000	498000	506000	14	102	70-130	2	10	M1
Lead, Dissolved	ug/L	45.8	1000	1000	980	954	93	91	70-130	3	10	
Nickel, Dissolved	ug/L	104	1000	1000	1070	1060	96	95	70-130	1	10	
Selenium, Dissolved	ug/L	ND	1000	1000	1280	1330	120	126	70-130	4	10	
Silver, Dissolved	ug/L	ND	500	500	592	28.0	116	3	70-130	182	10	M1, R1
Thallium, Dissolved	ug/L	ND	1000	1000	805	796	80	80	70-130	1	6	
Zinc, Dissolved	ug/L	10800	1000	1000	12300	12300	143	151	70-130	1	11	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

QC Batch: MSV/54684 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60147968001, 60147968002

METHOD BLANK: 1214668 Matrix: Water

Associated Lab Samples: 60147968001, 60147968002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	07/02/13 14:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/02/13 14:24	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/02/13 14:24	
1,1-Dichloroethane	ug/L	ND	1.0	07/02/13 14:24	
1,1-Dichloroethene	ug/L	ND	1.0	07/02/13 14:24	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/02/13 14:24	
1,2-Dichloroethane	ug/L	ND	1.0	07/02/13 14:24	
1,2-Dichloropropane	ug/L	ND	1.0	07/02/13 14:24	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/02/13 14:24	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/02/13 14:24	
2-Chloroethylvinyl ether	ug/L	ND	10.0	07/02/13 14:24	
Benzene	ug/L	ND	1.0	07/02/13 14:24	
Bromodichloromethane	ug/L	ND	1.0	07/02/13 14:24	
Bromoform	ug/L	ND	1.0	07/02/13 14:24	
Bromomethane	ug/L	ND	5.0	07/02/13 14:24	
Carbon tetrachloride	ug/L	ND	1.0	07/02/13 14:24	
Chlorobenzene	ug/L	ND	1.0	07/02/13 14:24	
Chloroethane	ug/L	ND	1.0	07/02/13 14:24	
Chloroform	ug/L	ND	1.0	07/02/13 14:24	
Chloromethane	ug/L	ND	1.0	07/02/13 14:24	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/02/13 14:24	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/02/13 14:24	
Dibromochloromethane	ug/L	ND	1.0	07/02/13 14:24	
Ethylbenzene	ug/L	ND	1.0	07/02/13 14:24	
Methylene chloride	ug/L	ND	1.0	07/02/13 14:24	
Tetrachloroethene	ug/L	ND	1.0	07/02/13 14:24	
Toluene	ug/L	ND	1.0	07/02/13 14:24	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/02/13 14:24	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/02/13 14:24	
Trichloroethene	ug/L	ND	1.0	07/02/13 14:24	
Trichlorofluoromethane	ug/L	ND	1.0	07/02/13 14:24	
Vinyl chloride	ug/L	ND	1.0	07/02/13 14:24	
Xylene (Total)	ug/L	ND	3.0	07/02/13 14:24	
1,2-Dichloroethane-d4 (S)	%	101	80-120	07/02/13 14:24	
4-Bromofluorobenzene (S)	%	101	80-120	07/02/13 14:24	
Dibromofluoromethane (S)	%	100	80-120	07/02/13 14:24	
Toluene-d8 (S)	%	100	80-120	07/02/13 14:24	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

LABORATORY CONTROL SAMPLE: 1214669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.5	92	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	16.7	84	59-138	
1,1,2-Trichloroethane	ug/L	20	17.0	85	69-127	
1,1-Dichloroethane	ug/L	20	16.4	82	69-126	
1,1-Dichloroethene	ug/L	20	17.0	85	65-153	
1,2-Dichlorobenzene	ug/L	20	16.9	85	66-126	
1,2-Dichloroethane	ug/L	20	17.5	88	71-129	
1,2-Dichloropropane	ug/L	20	18.2	91	66-140	
1,3-Dichlorobenzene	ug/L	20	17.3	87	63-127	
1,4-Dichlorobenzene	ug/L	20	17.2	86	68-124	
2-Chloroethylvinyl ether	ug/L	20	21.3	106	33-159	
Benzene	ug/L	20	17.3	87	73-129	
Bromodichloromethane	ug/L	20	17.2	86	63-129	
Bromoform	ug/L	20	17.4	87	52-123	
Bromomethane	ug/L	20	23.4	117	10-160	
Carbon tetrachloride	ug/L	20	18.8	94	70-140	
Chlorobenzene	ug/L	20	17.6	88	68-127	
Chloroethane	ug/L	20	18.9	94	42-160	
Chloroform	ug/L	20	16.8	84	60-120	
Chloromethane	ug/L	20	14.6	73	10-160	
cis-1,2-Dichloroethene	ug/L	20	17.8	89	70-125	
cis-1,3-Dichloropropene	ug/L	20	17.4	87	66-132	
Dibromochloromethane	ug/L	20	18.3	92	63-134	
Ethylbenzene	ug/L	20	17.5	88	66-133	
Methylene chloride	ug/L	20	15.6	78	56-135	
Tetrachloroethene	ug/L	20	17.3	87	64-143	
Toluene	ug/L	20	17.6	88	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.8	84	67-149	
trans-1,3-Dichloropropene	ug/L	20	19.1	96	66-138	
Trichloroethene	ug/L	20	16.3	82	71-130	
Trichlorofluoromethane	ug/L	20	15.6	78	58-158	
Vinyl chloride	ug/L	20	15.3	77	41-160	
Xylene (Total)	ug/L	60	51.7	86	67-130	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Dibromofluoromethane (S)	%			98	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1214670

Parameter	Units	60147888001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	20	18.0	90	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	17.0	85	46-157	
1,1,2-Trichloroethane	ug/L	ND	20	16.7	84	52-150	
1,1-Dichloroethane	ug/L	ND	20	16.2	81	59-155	
1,1-Dichloroethene	ug/L	ND	20	16.7	83	14-160	
1,2-Dichlorobenzene	ug/L	ND	20	16.9	85	18-145	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

MATRIX SPIKE SAMPLE:		1214670						
Parameter	Units	60147888001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,2-Dichloroethane	ug/L	ND	20	17.0	85	49-155		
1,2-Dichloropropane	ug/L	ND	20	17.7	89	12-160		
1,3-Dichlorobenzene	ug/L	ND	20	17.7	89	59-146		
1,4-Dichlorobenzene	ug/L	ND	20	17.8	89	18-147		
2-Chloroethylvinyl ether	ug/L	ND	20	17.1	86	10-160		
Benzene	ug/L	ND	20	16.6	83	37-151		
Bromodichloromethane	ug/L	ND	20	17.1	85	35-155		
Bromoform	ug/L	ND	20	16.2	81	45-133		
Bromomethane	ug/L	ND	20	15.6	78	10-160		
Carbon tetrachloride	ug/L	ND	20	19.9	100	70-140		
Chlorobenzene	ug/L	ND	20	17.2	86	37-153		
Chloroethane	ug/L	ND	20	15.9	79	14-160		
Chloroform	ug/L	ND	20	16.8	84	51-138		
Chloromethane	ug/L	ND	20	6.5	32	10-160		
cis-1,2-Dichloroethene	ug/L	ND	20	18.1	90	19-160		
cis-1,3-Dichloropropene	ug/L	ND	20	17.4	87	10-160		
Dibromochloromethane	ug/L	ND	20	17.5	88	53-149		
Ethylbenzene	ug/L	ND	20	17.5	87	37-154		
Methylene chloride	ug/L	ND	20	14.1	71	15-156		
Tetrachloroethene	ug/L	ND	20	17.7	89	64-148		
Toluene	ug/L	ND	20	17.9	88	47-150		
trans-1,2-Dichloroethene	ug/L	ND	20	16.7	84	54-156		
trans-1,3-Dichloropropene	ug/L	ND	20	18.1	90	17-160		
Trichloroethene	ug/L	ND	20	16.0	80	71-157		
Trichlorofluoromethane	ug/L	ND	20	14.6	73	17-160		
Vinyl chloride	ug/L	ND	20	10.2	51	10-160		
Xylene (Total)	ug/L	ND	60	50.7	85	12-153		
1,2-Dichloroethane-d4 (S)	%				97	80-120		
4-Bromofluorobenzene (S)	%				100	80-120		
Dibromofluoromethane (S)	%				98	80-120		
Toluene-d8 (S)	%				101	80-120		
Preservation pH		7.0		6.0				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

QC Batch: OEXT/39125 Analysis Method: EPA 625
 QC Batch Method: EPA 625 Analysis Description: 625 MSS
 Associated Lab Samples: 60147968001

METHOD BLANK: 1214363 Matrix: Water

Associated Lab Samples: 60147968001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	07/03/13 09:30	
2,4,6-Trichlorophenol	ug/L	ND	5.0	07/03/13 09:30	
2,4-Dichlorophenol	ug/L	ND	5.0	07/03/13 09:30	
2,4-Dimethylphenol	ug/L	ND	5.0	07/03/13 09:30	
2,4-Dinitrophenol	ug/L	ND	50.0	07/03/13 09:30	
2,4-Dinitrotoluene	ug/L	ND	6.0	07/03/13 09:30	
2,6-Dinitrotoluene	ug/L	ND	5.0	07/03/13 09:30	
2-Chloronaphthalene	ug/L	ND	5.0	07/03/13 09:30	
2-Chlorophenol	ug/L	ND	5.0	07/03/13 09:30	
2-Nitrophenol	ug/L	ND	5.0	07/03/13 09:30	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	07/03/13 09:30	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	07/03/13 09:30	
4-Bromophenylphenyl ether	ug/L	ND	5.0	07/03/13 09:30	
4-Chloro-3-methylphenol	ug/L	ND	5.0	07/03/13 09:30	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	07/03/13 09:30	
4-Nitrophenol	ug/L	ND	5.0	07/03/13 09:30	
Acenaphthene	ug/L	ND	5.0	07/03/13 09:30	
Acenaphthylene	ug/L	ND	5.0	07/03/13 09:30	
Anthracene	ug/L	ND	5.0	07/03/13 09:30	
Benzidine	ug/L	ND	50.0	07/03/13 09:30	
Benzo(a)anthracene	ug/L	ND	5.0	07/03/13 09:30	
Benzo(a)pyrene	ug/L	ND	5.0	07/03/13 09:30	
Benzo(b)fluoranthene	ug/L	ND	5.0	07/03/13 09:30	
Benzo(g,h,i)perylene	ug/L	ND	5.0	07/03/13 09:30	
Benzo(k)fluoranthene	ug/L	ND	5.0	07/03/13 09:30	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	07/03/13 09:30	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	07/03/13 09:30	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	07/03/13 09:30	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	07/03/13 09:30	
Butylbenzylphthalate	ug/L	ND	5.0	07/03/13 09:30	
Chrysene	ug/L	ND	5.0	07/03/13 09:30	
Di-n-butylphthalate	ug/L	ND	5.0	07/03/13 09:30	
Di-n-octylphthalate	ug/L	ND	5.0	07/03/13 09:30	
Dibenz(a,h)anthracene	ug/L	ND	5.0	07/03/13 09:30	
Diethylphthalate	ug/L	ND	5.0	07/03/13 09:30	
Dimethylphthalate	ug/L	ND	5.0	07/03/13 09:30	
Fluoranthene	ug/L	ND	5.0	07/03/13 09:30	
Fluorene	ug/L	ND	5.0	07/03/13 09:30	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	07/03/13 09:30	
Hexachlorobenzene	ug/L	ND	5.0	07/03/13 09:30	
Hexachlorocyclopentadiene	ug/L	ND	5.0	07/03/13 09:30	
Hexachloroethane	ug/L	ND	5.0	07/03/13 09:30	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	07/03/13 09:30	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

METHOD BLANK: 1214363

Matrix: Water

Associated Lab Samples: 60147968001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	07/03/13 09:30	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	07/03/13 09:30	
N-Nitrosodimethylamine	ug/L	ND	5.0	07/03/13 09:30	
N-Nitrosodiphenylamine	ug/L	ND	5.0	07/03/13 09:30	
Naphthalene	ug/L	ND	5.0	07/03/13 09:30	
Nitrobenzene	ug/L	ND	5.0	07/03/13 09:30	
Pentachlorophenol	ug/L	ND	5.0	07/03/13 09:30	
Phenanthrene	ug/L	ND	5.0	07/03/13 09:30	
Phenol	ug/L	ND	5.0	07/03/13 09:30	
Pyrene	ug/L	ND	5.0	07/03/13 09:30	
2,4,6-Tribromophenol (S)	%	96	39-119	07/03/13 09:30	
2-Fluorobiphenyl (S)	%	89	36-120	07/03/13 09:30	
2-Fluorophenol (S)	%	44	18-120	07/03/13 09:30	
Nitrobenzene-d5 (S)	%	90	32-120	07/03/13 09:30	
Phenol-d6 (S)	%	29	12-120	07/03/13 09:30	
Terphenyl-d14 (S)	%	98	44-120	07/03/13 09:30	

LABORATORY CONTROL SAMPLE: 1214364

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	42.6	85	44-120	
2,4,6-Trichlorophenol	ug/L	50	47.4	95	48-120	
2,4-Dichlorophenol	ug/L	50	43.3	87	48-120	
2,4-Dimethylphenol	ug/L	50	42.3	85	37-119	
2,4-Dinitrophenol	ug/L	50	44.9J	90	15-153	
2,4-Dinitrotoluene	ug/L	50	50.2	100	54-120	
2,6-Dinitrotoluene	ug/L	50	49.7	99	52-120	
2-Chloronaphthalene	ug/L	50	46.6	93	60-118	
2-Chlorophenol	ug/L	50	36.7	73	44-120	
2-Nitrophenol	ug/L	50	46.1	92	43-120	
3,3'-Dichlorobenzidine	ug/L	50	64.5	129	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	51.3	103	31-147	
4-Bromophenylphenyl ether	ug/L	50	49.3	99	53-120	
4-Chloro-3-methylphenol	ug/L	50	46.3	93	50-120	
4-Chlorophenylphenyl ether	ug/L	50	47.2	94	54-120	
4-Nitrophenol	ug/L	50	21.4	43	10-120	
Acenaphthene	ug/L	50	47.6	95	51-120	
Acenaphthylene	ug/L	50	46.7	93	51-120	
Anthracene	ug/L	50	49.7	99	54-120	
Benzidine	ug/L	50	56.2	112	1-124	
Benzo(a)anthracene	ug/L	50	51.1	102	54-120	
Benzo(a)pyrene	ug/L	50	49.6	99	54-120	
Benzo(b)fluoranthene	ug/L	50	51.7	103	57-120	
Benzo(g,h,i)perylene	ug/L	50	51.4	103	54-120	
Benzo(k)fluoranthene	ug/L	50	49.9	100	52-121	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

LABORATORY CONTROL SAMPLE: 1214364

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	50	45.4	91	51-120	
bis(2-Chloroethyl) ether	ug/L	50	40.6	81	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	45.5	91	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	53.2	106	51-126	
Butylbenzylphthalate	ug/L	50	52.3	105	45-129	
Chrysene	ug/L	50	51.0	102	54-120	
Di-n-butylphthalate	ug/L	50	52.4	105	57-118	
Di-n-octylphthalate	ug/L	50	52.7	105	48-130	
Dibenz(a,h)anthracene	ug/L	50	51.1	102	56-119	
Diethylphthalate	ug/L	50	50.1	100	55-114	
Dimethylphthalate	ug/L	50	48.8	98	54-112	
Fluoranthene	ug/L	50	51.5	103	56-120	
Fluorene	ug/L	50	47.5	95	59-120	
Hexachloro-1,3-butadiene	ug/L	50	40.5	81	41-116	
Hexachlorobenzene	ug/L	50	47.5	95	53-120	
Hexachlorocyclopentadiene	ug/L	100	65.6	66	31-120	
Hexachloroethane	ug/L	50	38.6	77	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	50.7	101	55-120	
Isophorone	ug/L	50	47.7	95	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	43.6	87	47-120	
N-Nitrosodimethylamine	ug/L	50	27.9	56	28-120	
N-Nitrosodiphenylamine	ug/L	50	48.3	97	53-120	
Naphthalene	ug/L	50	42.7	85	48-120	
Nitrobenzene	ug/L	50	35.9	72	47-120	
Pentachlorophenol	ug/L	50	41.8	84	43-127	
Phenanthrene	ug/L	50	49.5	99	55-120	
Phenol	ug/L	50	16.7	33	15-112	
Pyrene	ug/L	50	50.7	101	55-115	
2,4,6-Tribromophenol (S)	%			96	39-119	
2-Fluorobiphenyl (S)	%			94	36-120	
2-Fluorophenol (S)	%			46	18-120	
Nitrobenzene-d5 (S)	%			92	32-120	
Phenol-d6 (S)	%			30	12-120	
Terphenyl-d14 (S)	%			103	44-120	

MATRIX SPIKE SAMPLE: 1214365

Parameter	Units	60147888001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	36.5	73	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	40.2	80	37-121	
2,4-Dichlorophenol	ug/L	ND	50	37.7	75	39-120	
2,4-Dimethylphenol	ug/L	ND	50	37.5	75	32-119	
2,4-Dinitrophenol	ug/L	ND	50	34.7J	69	20-157	
2,4-Dinitrotoluene	ug/L	ND	50	41.0	82	39-130	
2,6-Dinitrotoluene	ug/L	ND	50	39.4	79	50-128	
2-Chloronaphthalene	ug/L	ND	50	39.1	78	60-118	
2-Chlorophenol	ug/L	ND	50	34.8	70	35-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Project No.: 60147968

MATRIX SPIKE SAMPLE:		1214365						
Parameter	Units	60147888001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
2-Nitrophenol	ug/L	ND	50	38.6	77	29-123		
3,3'-Dichlorobenzidine	ug/L	ND	50	45.4	91	10-160		
4,6-Dinitro-2-methylphenol	ug/L	ND	50	40.1	80	27-146		
4-Bromophenylphenyl ether	ug/L	ND	50	41.7	83	53-124		
4-Chloro-3-methylphenol	ug/L	ND	50	39.5	79	33-123		
4-Chlorophenylphenyl ether	ug/L	ND	50	39.7	79	34-125		
4-Nitrophenol	ug/L	ND	50	18.5	37	10-120		
Acenaphthene	ug/L	ND	50	40.3	81	47-120		
Acenaphthylene	ug/L	ND	50	39.4	79	33-120		
Anthracene	ug/L	ND	50	42.1	84	36-121		
Benzidine	ug/L	ND	50	2.6J	5	1-120		
Benzo(a)anthracene	ug/L	ND	50	43.4	87	37-127		
Benzo(a)pyrene	ug/L	ND	50	43.7	87	34-125		
Benzo(b)fluoranthene	ug/L	ND	50	43.6	87	37-131		
Benzo(g,h,i)perylene	ug/L	ND	50	43.2	86	35-128		
Benzo(k)fluoranthene	ug/L	ND	50	46.4	93	34-130		
bis(2-Chloroethoxy)methane	ug/L	ND	50	40.0	80	33-120		
bis(2-Chloroethyl) ether	ug/L	ND	50	39.5	79	32-120		
bis(2-Chloroisopropyl) ether	ug/L	ND	50	43.3	87	36-120		
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	44.3	89	38-137		
Butylbenzylphthalate	ug/L	ND	50	45.2	90	43-136		
Chrysene	ug/L	ND	50	43.5	87	36-127		
Di-n-butylphthalate	ug/L	ND	50	44.5	89	38-118		
Di-n-octylphthalate	ug/L	ND	50	47.6	95	40-140		
Dibenz(a,h)anthracene	ug/L	ND	50	44.6	89	35-131		
Diethylphthalate	ug/L	ND	50	41.2	82	33-114		
Dimethylphthalate	ug/L	ND	50	41.0	82	34-112		
Fluoranthene	ug/L	ND	50	42.8	86	38-125		
Fluorene	ug/L	ND	50	40.3	81	59-121		
Hexachloro-1,3-butadiene	ug/L	ND	50	36.3	73	27-116		
Hexachlorobenzene	ug/L	ND	50	42.4	85	34-124		
Hexachlorocyclopentadiene	ug/L	ND	100	56.3	56	11-120		
Hexachloroethane	ug/L	ND	50	36.2	72	40-113		
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	42.4	85	38-127		
Isophorone	ug/L	ND	50	40.1	80	31-120		
N-Nitroso-di-n-propylamine	ug/L	ND	50	41.6	83	30-120		
N-Nitrosodimethylamine	ug/L	ND	50	28.2	56	29-120		
N-Nitrosodiphenylamine	ug/L	ND	50	40.6	81	10-139		
Naphthalene	ug/L	ND	50	37.8	76	32-120		
Nitrobenzene	ug/L	ND	50	31.7	63	35-128		
Pentachlorophenol	ug/L	ND	50	36.9	74	38-133		
Phenanthrene	ug/L	ND	50	43.0	86	54-120		
Phenol	ug/L	ND	50	15.3	31	13-112		
Pyrene	ug/L	ND	50	44.1	88	52-115		
2,4,6-Tribromophenol (S)	%				85	39-119		
2-Fluorobiphenyl (S)	%				82	36-120		
2-Fluorophenol (S)	%				43	18-120		
Nitrobenzene-d5 (S)	%				82	32-120		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

MATRIX SPIKE SAMPLE:		1214365					
Parameter	Units	60147888001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenol-d6 (S)	%				28	12-120	
Terphenyl-d14 (S)	%				87	44-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

QC Batch:	WET/42131	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60147968001		

METHOD BLANK: 1213883 Matrix: Water

Associated Lab Samples: 60147968001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	07/01/13 11:35	

LABORATORY CONTROL SAMPLE: 1213884

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: 1214052

Parameter	Units	60147836002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	33.8	42.6	74.5	96	78-114	

SAMPLE DUPLICATE: 1213888

Parameter	Units	60147836001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	98.1	126	25	18	D6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

QC Batch: WET/42228

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60147968001

METHOD BLANK: 1216409

Matrix: Water

Associated Lab Samples: 60147968001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	07/08/13 06:47	

LABORATORY CONTROL SAMPLE: 1216410

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

MATRIX SPIKE SAMPLE: 1216411

Parameter	Units	60147783001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	2.8J	22.2	21.0	82	64-132	

SAMPLE DUPLICATE: 1216413

Parameter	Units	60147660001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	2.7J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

QC Batch:	WET/42167	Analysis Method:	SM 2540D
QC Batch Method:	SM 2540D	Analysis Description:	2540D Total Suspended Solids
Associated Lab Samples:	60147968001		

METHOD BLANK: 1214654 Matrix: Water

Associated Lab Samples: 60147968001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	07/02/13 11:14	

SAMPLE DUPLICATE: 1214655

Parameter	Units	60147863001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	54.0	59.0	9	25	

SAMPLE DUPLICATE: 1214656

Parameter	Units	60147874002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	130	140	7	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

QC Batch: WET/42143 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60147968001

SAMPLE DUPLICATE: 1214091

Parameter	Units	60147875001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.5	5.5	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

QC Batch: WETA/25326 Analysis Method: EPA 350.1
 QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
 Associated Lab Samples: 60147968001

METHOD BLANK: 1215071 Matrix: Water

Associated Lab Samples: 60147968001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	07/03/13 14:08	

LABORATORY CONTROL SAMPLE: 1215072

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

MATRIX SPIKE SAMPLE: 1215073

Parameter	Units	60147625001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.1	104	90-110	

MATRIX SPIKE SAMPLE: 1215074

Parameter	Units	60147625003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.1	104	90-110	

SAMPLE DUPLICATE: 1215075

Parameter	Units	60147635001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.21	0.22	4	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

QC Batch: WETA/25338 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60147968001

METHOD BLANK: 1215734 Matrix: Water

Associated Lab Samples: 60147968001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	07/08/13 07:58	

LABORATORY CONTROL SAMPLE: 1215735

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: 1215736

Parameter	Units	60147615002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	2230	1000	3110	87	90-110	M1

MATRIX SPIKE SAMPLE: 1215738

Parameter	Units	60147744001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1640	1000	2530	90	90-110	

SAMPLE DUPLICATE: 1215737

Parameter	Units	60147682001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	ND	7.4J		25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

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.
- R1 RPD value was outside control limits.
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 316-004-MSD

Pace Project No.: 60147968

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60147968001	316-004-MSD	EPA 200.7	MPRP/23303	EPA 200.7	ICP/18354
60147968001	316-004-MSD	EPA 200.7	MPRP/23312	EPA 200.7	ICP/18365
60147968001	316-004-MSD	EPA 245.1	MERP/7472	EPA 245.1	MERC/7429
60147968001	316-004-MSD	EPA 245.1	MERP/7471	EPA 245.1	MERC/7427
60147968001	316-004-MSD	EPA 625	OEXT/39125	EPA 625	MSSV/12379
60147968001	316-004-MSD	EPA 624 Low	MSV/54684		
60147968002	TRIP BLANK	EPA 624 Low	MSV/54684		
60147968001	316-004-MSD	EPA 1664A	WET/42131		
60147968001	316-004-MSD	EPA 1664A	WET/42228		
60147968001	316-004-MSD	SM 2540D	WET/42167		
60147968001	316-004-MSD	SM 4500-H+B	WET/42143		
60147968001	316-004-MSD	EPA 350.1	WETA/25326		
60147968001	316-004-MSD	EPA 410.4	WETA/25338		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60147968

60147968

Client Name: Barr

Courier: Fed Ex UPS USPS Client Commercial Pace Other Xpress

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-12 / T-194 Type of Ice: Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 3.6

Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: PJ/6/29/13

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>PH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>PH 6.0/3.5</u> <u>Added 2.0ml of H2SO4 to BPS</u>
Exceptions: <u>6</u> VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>PJ</u> Lot # of added preservative: <u>12510</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>Cover</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: _____

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: mw sr (AKR) Date: 6/20/13

July 08, 2013

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

RE: Project: BRIDGETON LANDFILL
Pace Project No.: 60148019

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on July 01, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LANDFILL

Pace Project No.: 60148019

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

Pace Project No.: 60148019

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60148019001	48-HOUR	Water	06/29/13 15:15	07/01/13 13:25
60148019002	48-HOUR	Water	06/29/13 15:15	07/01/13 13:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LANDFILL

Pace Project No.: 60148019

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60148019001	48-HOUR	SM 5210B	JMC1	1
60148019002	48-HOUR	EPA 624 Low	JKL	38

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL

Pace Project No.: 60148019

Sample: 48-HOUR	Lab ID: 60148019001	Collected: 06/29/13 15:15	Received: 07/01/13 13:25	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	24100	mg/L	2.0	1	07/01/13 15:14	07/06/13 07:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LANDFILL

Pace Project No.: 60148019

Sample: 48-HOUR		Lab ID: 60148019002	Collected: 06/29/13 15:15	Received: 07/01/13 13:25	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		07/02/13 16:10	71-43-2	
Bromodichloromethane	ND ug/L		200	200		07/02/13 16:10	75-27-4	
Bromoform	ND ug/L		200	200		07/02/13 16:10	75-25-2	
Bromomethane	ND ug/L		1000	200		07/02/13 16:10	74-83-9	
Carbon tetrachloride	ND ug/L		200	200		07/02/13 16:10	56-23-5	
Chlorobenzene	ND ug/L		200	200		07/02/13 16:10	108-90-7	
Chloroethane	ND ug/L		200	200		07/02/13 16:10	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		07/02/13 16:10	110-75-8	
Chloroform	ND ug/L		200	200		07/02/13 16:10	67-66-3	
Chloromethane	ND ug/L		200	200		07/02/13 16:10	74-87-3	
Dibromochloromethane	ND ug/L		200	200		07/02/13 16:10	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		07/02/13 16:10	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		07/02/13 16:10	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		07/02/13 16:10	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		07/02/13 16:10	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		07/02/13 16:10	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		07/02/13 16:10	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		07/02/13 16:10	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		07/02/13 16:10	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		07/02/13 16:10	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		07/02/13 16:10	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		07/02/13 16:10	10061-02-6	
Ethylbenzene	ND ug/L		200	200		07/02/13 16:10	100-41-4	
Methylene chloride	ND ug/L		200	200		07/02/13 16:10	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		07/02/13 16:10	79-34-5	
Tetrachloroethene	ND ug/L		200	200		07/02/13 16:10	127-18-4	
Toluene	ND ug/L		200	200		07/02/13 16:10	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		07/02/13 16:10	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		07/02/13 16:10	79-00-5	
Trichloroethene	ND ug/L		200	200		07/02/13 16:10	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		07/02/13 16:10	75-69-4	
Vinyl chloride	ND ug/L		200	200		07/02/13 16:10	75-01-4	
Xylene (Total)	ND ug/L		600	200		07/02/13 16:10	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100 %		80-120	200		07/02/13 16:10	1868-53-7	D3
4-Bromofluorobenzene (S)	99 %		80-120	200		07/02/13 16:10	460-00-4	
Toluene-d8 (S)	97 %		80-120	200		07/02/13 16:10	2037-26-5	
1,2-Dichloroethane-d4 (S)	106 %		80-120	200		07/02/13 16:10	17060-07-0	
Preservation pH	7.0			1.0	200	07/02/13 16:10		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL

Pace Project No.: 60148019

QC Batch: MSV/54684 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60148019002

METHOD BLANK: 1214668 Matrix: Water

Associated Lab Samples: 60148019002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	07/02/13 14:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/02/13 14:24	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/02/13 14:24	
1,1-Dichloroethane	ug/L	ND	1.0	07/02/13 14:24	
1,1-Dichloroethene	ug/L	ND	1.0	07/02/13 14:24	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/02/13 14:24	
1,2-Dichloroethane	ug/L	ND	1.0	07/02/13 14:24	
1,2-Dichloropropane	ug/L	ND	1.0	07/02/13 14:24	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/02/13 14:24	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/02/13 14:24	
2-Chloroethylvinyl ether	ug/L	ND	10.0	07/02/13 14:24	
Benzene	ug/L	ND	1.0	07/02/13 14:24	
Bromodichloromethane	ug/L	ND	1.0	07/02/13 14:24	
Bromoform	ug/L	ND	1.0	07/02/13 14:24	
Bromomethane	ug/L	ND	5.0	07/02/13 14:24	
Carbon tetrachloride	ug/L	ND	1.0	07/02/13 14:24	
Chlorobenzene	ug/L	ND	1.0	07/02/13 14:24	
Chloroethane	ug/L	ND	1.0	07/02/13 14:24	
Chloroform	ug/L	ND	1.0	07/02/13 14:24	
Chloromethane	ug/L	ND	1.0	07/02/13 14:24	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/02/13 14:24	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/02/13 14:24	
Dibromochloromethane	ug/L	ND	1.0	07/02/13 14:24	
Ethylbenzene	ug/L	ND	1.0	07/02/13 14:24	
Methylene chloride	ug/L	ND	1.0	07/02/13 14:24	
Tetrachloroethene	ug/L	ND	1.0	07/02/13 14:24	
Toluene	ug/L	ND	1.0	07/02/13 14:24	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/02/13 14:24	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/02/13 14:24	
Trichloroethene	ug/L	ND	1.0	07/02/13 14:24	
Trichlorofluoromethane	ug/L	ND	1.0	07/02/13 14:24	
Vinyl chloride	ug/L	ND	1.0	07/02/13 14:24	
Xylene (Total)	ug/L	ND	3.0	07/02/13 14:24	
1,2-Dichloroethane-d4 (S)	%	101	80-120	07/02/13 14:24	
4-Bromofluorobenzene (S)	%	101	80-120	07/02/13 14:24	
Dibromofluoromethane (S)	%	100	80-120	07/02/13 14:24	
Toluene-d8 (S)	%	100	80-120	07/02/13 14:24	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL

Pace Project No.: 60148019

LABORATORY CONTROL SAMPLE: 1214669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.5	92	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	16.7	84	59-138	
1,1,2-Trichloroethane	ug/L	20	17.0	85	69-127	
1,1-Dichloroethane	ug/L	20	16.4	82	69-126	
1,1-Dichloroethene	ug/L	20	17.0	85	65-153	
1,2-Dichlorobenzene	ug/L	20	16.9	85	66-126	
1,2-Dichloroethane	ug/L	20	17.5	88	71-129	
1,2-Dichloropropane	ug/L	20	18.2	91	66-140	
1,3-Dichlorobenzene	ug/L	20	17.3	87	63-127	
1,4-Dichlorobenzene	ug/L	20	17.2	86	68-124	
2-Chloroethylvinyl ether	ug/L	20	21.3	106	33-159	
Benzene	ug/L	20	17.3	87	73-129	
Bromodichloromethane	ug/L	20	17.2	86	63-129	
Bromoform	ug/L	20	17.4	87	52-123	
Bromomethane	ug/L	20	23.4	117	10-160	
Carbon tetrachloride	ug/L	20	18.8	94	70-140	
Chlorobenzene	ug/L	20	17.6	88	68-127	
Chloroethane	ug/L	20	18.9	94	42-160	
Chloroform	ug/L	20	16.8	84	60-120	
Chloromethane	ug/L	20	14.6	73	10-160	
cis-1,2-Dichloroethene	ug/L	20	17.8	89	70-125	
cis-1,3-Dichloropropene	ug/L	20	17.4	87	66-132	
Dibromochloromethane	ug/L	20	18.3	92	63-134	
Ethylbenzene	ug/L	20	17.5	88	66-133	
Methylene chloride	ug/L	20	15.6	78	56-135	
Tetrachloroethene	ug/L	20	17.3	87	64-143	
Toluene	ug/L	20	17.6	88	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.8	84	67-149	
trans-1,3-Dichloropropene	ug/L	20	19.1	96	66-138	
Trichloroethene	ug/L	20	16.3	82	71-130	
Trichlorofluoromethane	ug/L	20	15.6	78	58-158	
Vinyl chloride	ug/L	20	15.3	77	41-160	
Xylene (Total)	ug/L	60	51.7	86	67-130	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Dibromofluoromethane (S)	%			98	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1214670

Parameter	Units	60147888001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	20	18.0	90	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	17.0	85	46-157	
1,1,2-Trichloroethane	ug/L	ND	20	16.7	84	52-150	
1,1-Dichloroethane	ug/L	ND	20	16.2	81	59-155	
1,1-Dichloroethene	ug/L	ND	20	16.7	83	14-160	
1,2-Dichlorobenzene	ug/L	ND	20	16.9	85	18-145	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL

Pace Project No.: 60148019

MATRIX SPIKE SAMPLE:		1214670						
Parameter	Units	60147888001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,2-Dichloroethane	ug/L	ND	20	17.0	85	49-155		
1,2-Dichloropropane	ug/L	ND	20	17.7	89	12-160		
1,3-Dichlorobenzene	ug/L	ND	20	17.7	89	59-146		
1,4-Dichlorobenzene	ug/L	ND	20	17.8	89	18-147		
2-Chloroethylvinyl ether	ug/L	ND	20	17.1	86	10-160		
Benzene	ug/L	ND	20	16.6	83	37-151		
Bromodichloromethane	ug/L	ND	20	17.1	85	35-155		
Bromoform	ug/L	ND	20	16.2	81	45-133		
Bromomethane	ug/L	ND	20	15.6	78	10-160		
Carbon tetrachloride	ug/L	ND	20	19.9	100	70-140		
Chlorobenzene	ug/L	ND	20	17.2	86	37-153		
Chloroethane	ug/L	ND	20	15.9	79	14-160		
Chloroform	ug/L	ND	20	16.8	84	51-138		
Chloromethane	ug/L	ND	20	6.5	32	10-160		
cis-1,2-Dichloroethene	ug/L	ND	20	18.1	90	19-160		
cis-1,3-Dichloropropene	ug/L	ND	20	17.4	87	10-160		
Dibromochloromethane	ug/L	ND	20	17.5	88	53-149		
Ethylbenzene	ug/L	ND	20	17.5	87	37-154		
Methylene chloride	ug/L	ND	20	14.1	71	15-156		
Tetrachloroethene	ug/L	ND	20	17.7	89	64-148		
Toluene	ug/L	ND	20	17.9	88	47-150		
trans-1,2-Dichloroethene	ug/L	ND	20	16.7	84	54-156		
trans-1,3-Dichloropropene	ug/L	ND	20	18.1	90	17-160		
Trichloroethene	ug/L	ND	20	16.0	80	71-157		
Trichlorofluoromethane	ug/L	ND	20	14.6	73	17-160		
Vinyl chloride	ug/L	ND	20	10.2	51	10-160		
Xylene (Total)	ug/L	ND	60	50.7	85	12-153		
1,2-Dichloroethane-d4 (S)	%				97	80-120		
4-Bromofluorobenzene (S)	%				100	80-120		
Dibromofluoromethane (S)	%				98	80-120		
Toluene-d8 (S)	%				101	80-120		
Preservation pH		7.0		6.0				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LANDFILL

Pace Project No.: 60148019

QC Batch: WET/42150

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60148019001

METHOD BLANK: 1214222

Matrix: Water

Associated Lab Samples: 60148019001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	07/06/13 07:52	

LABORATORY CONTROL SAMPLE: 1214223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	196	99	85-115	

SAMPLE DUPLICATE: 1214224

Parameter	Units	60148019001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	24100	24600	2	17	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LANDFILL

Pace Project No.: 60148019

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LANDFILL

Pace Project No.: 60148019

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60148019002	48-HOUR	EPA 624 Low	MSV/54684		
60148019001	48-HOUR	SM 5210B	WET/42150	SM 5210B	WET/42226

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60148019
60148019

Client Name: Barr / Bridgeton Landfill

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-112 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: c. 2

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: KE 7/1/13

Temperature should be above freezing to 6°C

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: [Signature]



PDC Laboratories, Inc. – St. Louis
3278 N. Highway 67 (Lindbergh)
Florissant, MO 63033
 www.pdclab.com

CHAIN OF CUSTODY RECORD
 Phone (314) 432-0550 or (314) 921-4488
 Fax (314) 432-4977

State where samples collected MO

(Instructions/Sample Acceptance Policy on Reverse)

ALL SHADED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

10048019

1	CLIENT <u>Bridgeton Landfill</u>	PROJECT NUMBER	P. O. NUMBER	MEANS SHIPPED	3	ANALYSIS REQUESTED						4 (FOR LAB USE ONLY)			
	ADDRESS <u>13570 St. Charles Rte Rd.</u>	PHONE NUMBER	FAX NUMBER	EMAIL ADDRESS		BOD	624	WCS						LOGIN # _____	
	CITY <u>Bridgeton, MO</u>	ZIP <u>63044</u>		SAMPLER <u>Bryan Schie</u>										MATRIX TYPES: WW-WASTEWATER DW-DRINKING WATER GW-GROUND WATER WWSL-SLUDGE NAS-SOLID LCHT-LEACHATE NAL-NON-AQUEOUS SOIL-SOILS	LOGGED BY: _____
	CONTACT PERSON <u>Bryan Schie</u>		SAMPLER'S SIGNATURE <u>[Signature]</u>												LAB PROJ. # _____
2	SAMPLE DESCRIPTION AS YOU WANT ON REPORT	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE	MATRIX TYPE	Bottle Count	REMARKS								
	<u>48-hour</u>	<u>6/29/13</u>	<u>1515</u>	<u>X</u>	<u>ww</u>	<u>3</u>	<u>1</u>	<u>2</u>	<u>(BPZU)</u>	<u>2</u>	<u>(DGGU)</u>	<u>all/wr</u>			

5	TURNAROUND TIME (RUSH TAT IS SUBJECT TO PDC LABS APPROVAL AND SURCHARGE) NORMAL (8-10 Bus. Days) RUSH (5 Bus. Days) Fastrak™ (3 Bus. Days) <u>1-2 Bus. Days</u> Same Day DATE DUE _____ RESULTS BY: <u>E-MAIL</u> FAX PHONE CALL PHONE/FAX# IF DIFFERENT FROM ABOVE	6	The sample temperature will be measured upon receipt at the lab. By initialing this area, you request that the lab notify you, before proceeding with analysis, if the sample temperature is outside of the range of 0,1-6,0°C. By not initialing this area, you allow the lab to proceed with analytical testing regardless of the sample temperature. _____
---	--	---	---

7	RELINQUISHED BY: (SIGNATURE) <u>[Signature]</u>	DATE <u>7/1/13</u>	TIME <u>0930</u>	RECEIVED BY: <u>BILL STORIE 412</u>	DATE <u>7/1/13</u>	TIME <u>13:45</u>	8	COMMENTS:(FOR LAB USE ONLY)
	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY:	DATE	TIME		SAMPLE TEMPERATURE UPON RECEIPT <u>5.2°C</u> CHILL PROCESS STARTED PRIOR TO RECEIPT <input checked="" type="checkbox"/> OR N SAMPLES(S) RECEIVED ON ICE <input checked="" type="checkbox"/> OR N PROPER BOTTLES RECEIVED IN GOOD CONDITION <input checked="" type="checkbox"/> OR N BOTTLES FILLED WITH ADEQUATE VOLUME <input checked="" type="checkbox"/> OR N SAMPLES RECEIVED WITHIN HOLD TIME(S) (EXCLUDES TYPICAL FIELD PARAMETERS) <input checked="" type="checkbox"/> OR N DATE AND TME TAKEN FROM SAMPLE BOTTLE _____
	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY:	DATE	TIME		
	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY:	DATE	TIME		

Page 14 of 14

July 08, 2013

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

RE: Project: BRIDGETON LF 258-MSD
Pace Project No.: 60148042

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on July 01, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148042

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 258-MSD

Pace Project No.: 60148042

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60148042001	258-MSD	Water	06/30/13 16:15	07/01/13 19:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148042

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60148042001	258-MSD	SM 5210B	JMC1	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148042

Sample: 258-MSD	Lab ID: 60148042001	Collected: 06/30/13 16:15	Received: 07/01/13 19:00	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	26300	mg/L	2.0	1	07/02/13 15:22	07/07/13 12:15		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148042

QC Batch: WET/42171

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60148042001

METHOD BLANK: 1214739

Matrix: Water

Associated Lab Samples: 60148042001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	07/07/13 12:13	

LABORATORY CONTROL SAMPLE: 1214740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	204	103	85-115	

SAMPLE DUPLICATE: 1214741

Parameter	Units	60148042001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	26300	26500	1	17	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148042

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148042

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60148042001	258-MSD	SM 5210B	WET/42171	SM 5210B	WET/42227

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60148042



Client Name: Barr

Courier: Fed Ex UPS USPS Client Commercial Pace Other CRC

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 22PIC

Thermometer Used: T-112 / 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

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: 1/31/13

Chain of Custody present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>861</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased):		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:

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: 1/31/13

July 09, 2013

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

RE: Project: BRIDGETON LF 258-MSD
Pace Project No.: 60148043

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on July 01, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

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

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Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60148043001	258-MSD	Water	06/30/13 16:15	07/01/13 19:00
60148043002	TRIP BLANK	Water	06/30/13 16:15	07/01/13 19:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60148043001	258-MSD	EPA 200.7	JGP	15
		EPA 200.7	TJT	15
		EPA 245.1	TDS	1
		EPA 245.1	NDJ	1
		EPA 625	JMT	59
		EPA 624 Low	JKL	38
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	LEM	1
		SM 4500-H+B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
		60148043002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

Sample: 258-MSD		Lab ID: 60148043001	Collected: 06/30/13 16:15	Received: 07/01/13 19:00	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	5720 ug/L		150	2	07/02/13 13:00	07/05/13 16:43	7429-90-5	
Antimony	44.3 ug/L		20.0	2	07/02/13 13:00	07/08/13 10:44	7440-36-0	
Arsenic	532 ug/L		20.0	2	07/02/13 13:00	07/08/13 10:44	7440-38-2	
Beryllium	ND ug/L		5.0	5	07/02/13 13:00	07/05/13 16:46	7440-41-7	D3
Cadmium	ND ug/L		10.0	2	07/02/13 13:00	07/08/13 10:44	7440-43-9	D3
Chromium	175 ug/L		10.0	2	07/02/13 13:00	07/05/13 16:43	7440-47-3	
Cobalt	55.1 ug/L		25.0	5	07/02/13 13:00	07/05/13 16:46	7440-48-4	
Copper	21.2 ug/L		20.0	2	07/02/13 13:00	07/08/13 10:44	7440-50-8	
Iron	644000 ug/L		100	2	07/02/13 13:00	07/05/13 16:43	7439-89-6	
Lead	136 ug/L		25.0	5	07/02/13 13:00	07/05/13 16:46	7439-92-1	
Nickel	140 ug/L		25.0	5	07/02/13 13:00	07/05/13 16:46	7440-02-0	
Selenium	ND ug/L		75.0	5	07/02/13 13:00	07/08/13 10:48	7782-49-2	D3
Silver	ND ug/L		14.0	2	07/02/13 13:00	07/05/13 16:43	7440-22-4	D3
Thallium	ND ug/L		100	5	07/02/13 13:00	07/08/13 10:48	7440-28-0	D3
Zinc	10800 ug/L		1000	20	07/02/13 13:00	07/05/13 16:34	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	3250 ug/L		150	2	07/02/13 13:00	07/05/13 10:06	7429-90-5	
Antimony, Dissolved	45.7 ug/L		20.0	2	07/02/13 13:00	07/05/13 10:06	7440-36-0	
Arsenic, Dissolved	588 ug/L		20.0	2	07/02/13 13:00	07/05/13 10:06	7440-38-2	
Beryllium, Dissolved	ND ug/L		2.0	2	07/02/13 13:00	07/05/13 10:06	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		10.0	2	07/02/13 13:00	07/05/13 10:06	7440-43-9	D3
Chromium, Dissolved	186 ug/L		25.0	5	07/02/13 13:00	07/05/13 10:09	7440-47-3	
Cobalt, Dissolved	50.3 ug/L		10.0	2	07/02/13 13:00	07/05/13 10:06	7440-48-4	
Copper, Dissolved	ND ug/L		20.0	2	07/02/13 13:00	07/05/13 10:06	7440-50-8	D3
Iron, Dissolved	582000 ug/L		100	2	07/02/13 13:00	07/05/13 10:06	7439-89-6	
Lead, Dissolved	50.3 ug/L		10.0	2	07/02/13 13:00	07/05/13 10:06	7439-92-1	
Nickel, Dissolved	124 ug/L		10.0	2	07/02/13 13:00	07/05/13 10:06	7440-02-0	
Selenium, Dissolved	121 ug/L		75.0	5	07/02/13 13:00	07/05/13 10:09	7782-49-2	
Silver, Dissolved	ND ug/L		14.0	2	07/02/13 13:00	07/05/13 10:06	7440-22-4	D3
Thallium, Dissolved	ND ug/L		100	5	07/02/13 13:00	07/05/13 10:09	7440-28-0	D3
Zinc, Dissolved	11100 ug/L		1000	20	07/02/13 13:00	07/05/13 10:15	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	0.55 ug/L		0.20	1	07/02/13 11:30	07/03/13 11:59	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	07/08/13 10:30	07/09/13 09:25	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		1000	20	07/05/13 00:00	07/08/13 15:26	83-32-9	
Acenaphthylene	ND ug/L		1000	20	07/05/13 00:00	07/08/13 15:26	208-96-8	
Anthracene	ND ug/L		1000	20	07/05/13 00:00	07/08/13 15:26	120-12-7	
Benzidine	ND ug/L		10000	20	07/05/13 00:00	07/08/13 15:26	92-87-5	
Benzo(a)anthracene	ND ug/L		1000	20	07/05/13 00:00	07/08/13 15:26	56-55-3	
Benzo(a)pyrene	ND ug/L		1000	20	07/05/13 00:00	07/08/13 15:26	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

Sample: 258-MSD		Lab ID: 60148043001	Collected: 06/30/13 16:15	Received: 07/01/13 19:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Benzo(b)fluoranthene	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	207-08-9	
4-Bromophenylphenyl ether	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	101-55-3	
Butylbenzylphthalate	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	59-50-7	
bis(2-Chloroethoxy)methane	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1200	20	07/05/13 00:00	07/08/13 15:26	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1200	20	07/05/13 00:00	07/08/13 15:26	39638-32-9	
2-Chloronaphthalene	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	91-58-7	
2-Chlorophenol	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	7005-72-3	
Chrysene	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	53-70-3	
3,3'-Dichlorobenzidine	ND	ug/L	4000	20	07/05/13 00:00	07/08/13 15:26	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	120-83-2	
Diethylphthalate	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	105-67-9	
Dimethylphthalate	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	131-11-3	
Di-n-butylphthalate	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	5000	20	07/05/13 00:00	07/08/13 15:26	534-52-1	
2,4-Dinitrophenol	ND	ug/L	10000	20	07/05/13 00:00	07/08/13 15:26	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	1200	20	07/05/13 00:00	07/08/13 15:26	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	606-20-2	
Di-n-octylphthalate	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	117-81-7	
Fluoranthene	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	206-44-0	
Fluorene	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	87-68-3	
Hexachlorobenzene	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	77-47-4	
Hexachloroethane	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	193-39-5	
Isophorone	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	78-59-1	
Naphthalene	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	91-20-3	
Nitrobenzene	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	98-95-3	
2-Nitrophenol	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	88-75-5	
4-Nitrophenol	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	86-30-6	
Pentachlorophenol	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	87-86-5	
Phenanthrene	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	85-01-8	
Phenol	11000	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	108-95-2	
Pyrene	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	1000	20	07/05/13 00:00	07/08/13 15:26	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

Sample: 258-MSD		Lab ID: 60148043001	Collected: 06/30/13 16:15	Received: 07/01/13 19:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Surrogates								
Nitrobenzene-d5 (S)	0 %		32-120	20	07/05/13 00:00	07/08/13 15:26	4165-60-0	S4
2-Fluorobiphenyl (S)	82 %		36-120	20	07/05/13 00:00	07/08/13 15:26	321-60-8	
Terphenyl-d14 (S)	0 %		44-120	20	07/05/13 00:00	07/08/13 15:26	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	20	07/05/13 00:00	07/08/13 15:26	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	20	07/05/13 00:00	07/08/13 15:26	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	20	07/05/13 00:00	07/08/13 15:26	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		07/02/13 18:17	71-43-2	
Bromodichloromethane	ND ug/L		200	200		07/02/13 18:17	75-27-4	
Bromoform	ND ug/L		200	200		07/02/13 18:17	75-25-2	
Bromomethane	ND ug/L		1000	200		07/02/13 18:17	74-83-9	
Carbon tetrachloride	ND ug/L		200	200		07/02/13 18:17	56-23-5	
Chlorobenzene	ND ug/L		200	200		07/02/13 18:17	108-90-7	
Chloroethane	ND ug/L		200	200		07/02/13 18:17	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		07/02/13 18:17	110-75-8	
Chloroform	ND ug/L		200	200		07/02/13 18:17	67-66-3	
Chloromethane	ND ug/L		200	200		07/02/13 18:17	74-87-3	
Dibromochloromethane	ND ug/L		200	200		07/02/13 18:17	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		07/02/13 18:17	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		07/02/13 18:17	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		07/02/13 18:17	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		07/02/13 18:17	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		07/02/13 18:17	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		07/02/13 18:17	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		07/02/13 18:17	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		07/02/13 18:17	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		07/02/13 18:17	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		07/02/13 18:17	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		07/02/13 18:17	10061-02-6	
Ethylbenzene	ND ug/L		200	200		07/02/13 18:17	100-41-4	
Methylene chloride	ND ug/L		200	200		07/02/13 18:17	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		07/02/13 18:17	79-34-5	
Tetrachloroethene	ND ug/L		200	200		07/02/13 18:17	127-18-4	
Toluene	ND ug/L		200	200		07/02/13 18:17	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		07/02/13 18:17	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		07/02/13 18:17	79-00-5	
Trichloroethene	ND ug/L		200	200		07/02/13 18:17	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		07/02/13 18:17	75-69-4	
Vinyl chloride	ND ug/L		200	200		07/02/13 18:17	75-01-4	
Xylene (Total)	ND ug/L		600	200		07/02/13 18:17	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98 %		80-120	200		07/02/13 18:17	1868-53-7	D3
4-Bromofluorobenzene (S)	103 %		80-120	200		07/02/13 18:17	460-00-4	
Toluene-d8 (S)	101 %		80-120	200		07/02/13 18:17	2037-26-5	
1,2-Dichloroethane-d4 (S)	103 %		80-120	200		07/02/13 18:17	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

Sample: 258-MSD		Lab ID: 60148043001	Collected: 06/30/13 16:15	Received: 07/01/13 19:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics	Analytical Method: EPA 624 Low							
Preservation pH	7.0		1.0	200		07/02/13 18:17		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	325	mg/L	5.0	1		07/02/13 14:39		
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	9.6	mg/L	5.0	1		07/08/13 06:50		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	82.0	mg/L	5.0	1		07/05/13 09:36		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.4	Std. Units	0.10	1		07/05/13 10:44		H6
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	572	mg/L	20.0	200		07/03/13 14:25	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	50000	mg/L	5000	500		07/08/13 08:09		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

Sample: TRIP BLANK		Lab ID: 60148043002	Collected: 06/30/13 16:15	Received: 07/01/13 19:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		1.0	1		07/02/13 18:39	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		07/02/13 18:39	75-27-4	
Bromoform	ND ug/L		1.0	1		07/02/13 18:39	75-25-2	
Bromomethane	ND ug/L		5.0	1		07/02/13 18:39	74-83-9	
Carbon tetrachloride	ND ug/L		1.0	1		07/02/13 18:39	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		07/02/13 18:39	108-90-7	
Chloroethane	ND ug/L		1.0	1		07/02/13 18:39	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		07/02/13 18:39	110-75-8	
Chloroform	ND ug/L		1.0	1		07/02/13 18:39	67-66-3	
Chloromethane	ND ug/L		1.0	1		07/02/13 18:39	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		07/02/13 18:39	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		07/02/13 18:39	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		07/02/13 18:39	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		07/02/13 18:39	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		07/02/13 18:39	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		07/02/13 18:39	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		07/02/13 18:39	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		07/02/13 18:39	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		07/02/13 18:39	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		07/02/13 18:39	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		07/02/13 18:39	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		07/02/13 18:39	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		07/02/13 18:39	100-41-4	
Methylene chloride	ND ug/L		1.0	1		07/02/13 18:39	75-09-2	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		07/02/13 18:39	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		07/02/13 18:39	127-18-4	
Toluene	ND ug/L		1.0	1		07/02/13 18:39	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		07/02/13 18:39	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		07/02/13 18:39	79-00-5	
Trichloroethene	ND ug/L		1.0	1		07/02/13 18:39	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		07/02/13 18:39	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		07/02/13 18:39	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		07/02/13 18:39	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97 %		80-120	1		07/02/13 18:39	1868-53-7	
4-Bromofluorobenzene (S)	98 %		80-120	1		07/02/13 18:39	460-00-4	
Toluene-d8 (S)	101 %		80-120	1		07/02/13 18:39	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	1		07/02/13 18:39	17060-07-0	
Preservation pH	6.0		1.0	1		07/02/13 18:39		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

QC Batch: MERP/7478

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60148043001

METHOD BLANK: 1214534

Matrix: Water

Associated Lab Samples: 60148043001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	07/03/13 11:32	

LABORATORY CONTROL SAMPLE: 1214535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.6	92	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1214536 1214537

Parameter	Units	60148025001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Mercury	ug/L	ND	5	4.6	5	4.7	92	93	70-130	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

QC Batch:	MERP/7483	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60148043001		

METHOD BLANK:	1216519	Matrix:	Water
Associated Lab Samples:	60148043001		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	07/08/13 15:31	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.8	95	85-115	

Parameter	60148080001		MSD		MS		MSD		% Rec Limits	Max		Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec		RPD	RPD	
Mercury, Dissolved	ug/L	ND	5	5	4.7	4.8	95	96	70-130	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

QC Batch: MPRP/23329 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60148043001

METHOD BLANK: 1214484 Matrix: Water

Associated Lab Samples: 60148043001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	07/05/13 15:27	
Antimony	ug/L	ND	10.0	07/08/13 10:29	
Arsenic	ug/L	ND	10.0	07/08/13 10:29	
Beryllium	ug/L	ND	1.0	07/05/13 15:27	
Cadmium	ug/L	ND	5.0	07/08/13 10:29	
Chromium	ug/L	ND	5.0	07/05/13 15:27	
Cobalt	ug/L	ND	5.0	07/05/13 15:27	
Copper	ug/L	ND	10.0	07/08/13 10:29	
Iron	ug/L	ND	50.0	07/05/13 15:27	
Lead	ug/L	ND	5.0	07/05/13 15:27	
Nickel	ug/L	ND	5.0	07/05/13 15:27	
Selenium	ug/L	ND	15.0	07/08/13 10:29	
Silver	ug/L	ND	7.0	07/05/13 15:27	
Thallium	ug/L	ND	20.0	07/08/13 10:29	
Zinc	ug/L	ND	50.0	07/05/13 15:27	

LABORATORY CONTROL SAMPLE: 1214485

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9600	96	85-115	
Antimony	ug/L	1000	1030	103	85-115	
Arsenic	ug/L	1000	991	99	85-115	
Beryllium	ug/L	1000	964	96	85-115	
Cadmium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	1000	971	97	85-115	
Cobalt	ug/L	1000	970	97	85-115	
Copper	ug/L	1000	999	100	85-115	
Iron	ug/L	10000	9620	96	85-115	
Lead	ug/L	1000	974	97	85-115	
Nickel	ug/L	1000	981	98	85-115	
Selenium	ug/L	1000	1030	103	85-115	
Silver	ug/L	500	478	96	85-115	
Thallium	ug/L	1000	1070	107	85-115	
Zinc	ug/L	1000	956	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1214486 1214487

Parameter	Units	60148025001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Aluminum	ug/L	830	10000	10000	10500	10600	97	98	70-130	1	8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

Parameter	Units	60148025001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Antimony	ug/L	ND	1000	1000	1030	1030	103	103	70-130	0	7			
Arsenic	ug/L	ND	1000	1000	1020	1020	102	102	70-130	0	10			
Beryllium	ug/L	0.69J	1000	1000	962	970	96	97	70-130	1	7			
Cadmium	ug/L	22.7	1000	1000	1040	1040	101	102	70-130	0	10			
Chromium	ug/L	1.8J	1000	1000	954	956	95	95	70-130	0	10			
Cobalt	ug/L	2.1J	1000	1000	959	961	96	96	70-130	0	6			
Copper	ug/L	200	1000	1000	1190	1200	99	100	70-130	0	11			
Iron	ug/L	8030	10000	10000	17500	17800	94	98	70-130	2	10			
Lead	ug/L	17.8	1000	1000	966	966	95	95	70-130	0	10			
Nickel	ug/L	5.0	1000	1000	974	977	97	97	70-130	0	10			
Selenium	ug/L	ND	1000	1000	1030	1030	103	103	70-130	0	10			
Silver	ug/L	ND	500	500	490	490	98	98	70-130	0	10			
Thallium	ug/L	ND	1000	1000	969	973	97	97	70-130	0	6			
Zinc	ug/L	4040	1000	1000	4980	5110	94	107	70-130	3	11			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

QC Batch: MPRP/23334

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60148043001

METHOD BLANK: 1214542

Matrix: Water

Associated Lab Samples: 60148043001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	07/05/13 09:50	
Antimony, Dissolved	ug/L	ND	10.0	07/05/13 09:50	
Arsenic, Dissolved	ug/L	ND	10.0	07/05/13 09:50	
Beryllium, Dissolved	ug/L	ND	1.0	07/05/13 09:50	
Cadmium, Dissolved	ug/L	ND	5.0	07/05/13 09:50	
Chromium, Dissolved	ug/L	ND	5.0	07/05/13 09:50	
Cobalt, Dissolved	ug/L	ND	5.0	07/05/13 09:50	
Copper, Dissolved	ug/L	ND	10.0	07/05/13 09:50	
Iron, Dissolved	ug/L	ND	50.0	07/05/13 09:50	
Lead, Dissolved	ug/L	ND	5.0	07/05/13 09:50	
Nickel, Dissolved	ug/L	ND	5.0	07/05/13 09:50	
Selenium, Dissolved	ug/L	ND	15.0	07/05/13 09:50	
Silver, Dissolved	ug/L	ND	7.0	07/05/13 09:50	
Thallium, Dissolved	ug/L	ND	20.0	07/05/13 09:50	
Zinc, Dissolved	ug/L	ND	50.0	07/05/13 09:50	

LABORATORY CONTROL SAMPLE: 1214543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10400	104	85-115	
Antimony, Dissolved	ug/L	1000	1010	101	85-115	
Arsenic, Dissolved	ug/L	1000	977	98	85-115	
Beryllium, Dissolved	ug/L	1000	993	99	85-115	
Cadmium, Dissolved	ug/L	1000	990	99	85-115	
Chromium, Dissolved	ug/L	1000	988	99	85-115	
Cobalt, Dissolved	ug/L	1000	1030	103	85-115	
Copper, Dissolved	ug/L	1000	1000	100	85-115	
Iron, Dissolved	ug/L	10000	9710	97	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	1010	101	85-115	
Silver, Dissolved	ug/L	500	482	96	85-115	
Thallium, Dissolved	ug/L	1000	1060	106	85-115	
Zinc, Dissolved	ug/L	1000	985	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1214544

1214545

Parameter	Units	60148061001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Aluminum, Dissolved	ug/L	ND	10000	10000	10300	10100	103	101	70-130	2	8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

Parameter	Units	60148061001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
Antimony, Dissolved	ug/L	ND	1000	1000	1010	1010	101	101	70-130	0	7				
Arsenic, Dissolved	ug/L	ND	1000	1000	1020	1020	102	102	70-130	0	10				
Beryllium, Dissolved	ug/L	ND	1000	1000	976	962	98	96	70-130	1	7				
Cadmium, Dissolved	ug/L	ND	1000	1000	1000	1000	100	100	70-130	0	10				
Chromium, Dissolved	ug/L	ND	1000	1000	980	977	98	98	70-130	0	10				
Cobalt, Dissolved	ug/L	ND	1000	1000	976	971	98	97	70-130	0	6				
Copper, Dissolved	ug/L	ND	1000	1000	1020	1020	101	101	70-130	0	11				
Iron, Dissolved	ug/L	ND	10000	10000	9680	9620	97	96	70-130	1	10				
Lead, Dissolved	ug/L	ND	1000	1000	954	951	95	95	70-130	0	10				
Nickel, Dissolved	ug/L	ND	1000	1000	975	972	97	97	70-130	0	10				
Selenium, Dissolved	ug/L	ND	1000	1000	1040	1040	104	104	70-130	0	10				
Silver, Dissolved	ug/L	ND	500	500	496	496	99	99	70-130	0	10				
Thallium, Dissolved	ug/L	ND	1000	1000	914	910	91	91	70-130	0	6				
Zinc, Dissolved	ug/L	ND	1000	1000	974	973	97	97	70-130	0	11				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

QC Batch: MSV/54684 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60148043001, 60148043002

METHOD BLANK: 1214668 Matrix: Water

Associated Lab Samples: 60148043001, 60148043002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	07/02/13 14:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/02/13 14:24	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/02/13 14:24	
1,1-Dichloroethane	ug/L	ND	1.0	07/02/13 14:24	
1,1-Dichloroethene	ug/L	ND	1.0	07/02/13 14:24	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/02/13 14:24	
1,2-Dichloroethane	ug/L	ND	1.0	07/02/13 14:24	
1,2-Dichloropropane	ug/L	ND	1.0	07/02/13 14:24	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/02/13 14:24	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/02/13 14:24	
2-Chloroethylvinyl ether	ug/L	ND	10.0	07/02/13 14:24	
Benzene	ug/L	ND	1.0	07/02/13 14:24	
Bromodichloromethane	ug/L	ND	1.0	07/02/13 14:24	
Bromoform	ug/L	ND	1.0	07/02/13 14:24	
Bromomethane	ug/L	ND	5.0	07/02/13 14:24	
Carbon tetrachloride	ug/L	ND	1.0	07/02/13 14:24	
Chlorobenzene	ug/L	ND	1.0	07/02/13 14:24	
Chloroethane	ug/L	ND	1.0	07/02/13 14:24	
Chloroform	ug/L	ND	1.0	07/02/13 14:24	
Chloromethane	ug/L	ND	1.0	07/02/13 14:24	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/02/13 14:24	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/02/13 14:24	
Dibromochloromethane	ug/L	ND	1.0	07/02/13 14:24	
Ethylbenzene	ug/L	ND	1.0	07/02/13 14:24	
Methylene chloride	ug/L	ND	1.0	07/02/13 14:24	
Tetrachloroethene	ug/L	ND	1.0	07/02/13 14:24	
Toluene	ug/L	ND	1.0	07/02/13 14:24	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/02/13 14:24	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/02/13 14:24	
Trichloroethene	ug/L	ND	1.0	07/02/13 14:24	
Trichlorofluoromethane	ug/L	ND	1.0	07/02/13 14:24	
Vinyl chloride	ug/L	ND	1.0	07/02/13 14:24	
Xylene (Total)	ug/L	ND	3.0	07/02/13 14:24	
1,2-Dichloroethane-d4 (S)	%	101	80-120	07/02/13 14:24	
4-Bromofluorobenzene (S)	%	101	80-120	07/02/13 14:24	
Dibromofluoromethane (S)	%	100	80-120	07/02/13 14:24	
Toluene-d8 (S)	%	100	80-120	07/02/13 14:24	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

LABORATORY CONTROL SAMPLE: 1214669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.5	92	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	16.7	84	59-138	
1,1,2-Trichloroethane	ug/L	20	17.0	85	69-127	
1,1-Dichloroethane	ug/L	20	16.4	82	69-126	
1,1-Dichloroethene	ug/L	20	17.0	85	65-153	
1,2-Dichlorobenzene	ug/L	20	16.9	85	66-126	
1,2-Dichloroethane	ug/L	20	17.5	88	71-129	
1,2-Dichloropropane	ug/L	20	18.2	91	66-140	
1,3-Dichlorobenzene	ug/L	20	17.3	87	63-127	
1,4-Dichlorobenzene	ug/L	20	17.2	86	68-124	
2-Chloroethylvinyl ether	ug/L	20	21.3	106	33-159	
Benzene	ug/L	20	17.3	87	73-129	
Bromodichloromethane	ug/L	20	17.2	86	63-129	
Bromoform	ug/L	20	17.4	87	52-123	
Bromomethane	ug/L	20	23.4	117	10-160	
Carbon tetrachloride	ug/L	20	18.8	94	70-140	
Chlorobenzene	ug/L	20	17.6	88	68-127	
Chloroethane	ug/L	20	18.9	94	42-160	
Chloroform	ug/L	20	16.8	84	60-120	
Chloromethane	ug/L	20	14.6	73	10-160	
cis-1,2-Dichloroethene	ug/L	20	17.8	89	70-125	
cis-1,3-Dichloropropene	ug/L	20	17.4	87	66-132	
Dibromochloromethane	ug/L	20	18.3	92	63-134	
Ethylbenzene	ug/L	20	17.5	88	66-133	
Methylene chloride	ug/L	20	15.6	78	56-135	
Tetrachloroethene	ug/L	20	17.3	87	64-143	
Toluene	ug/L	20	17.6	88	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.8	84	67-149	
trans-1,3-Dichloropropene	ug/L	20	19.1	96	66-138	
Trichloroethene	ug/L	20	16.3	82	71-130	
Trichlorofluoromethane	ug/L	20	15.6	78	58-158	
Vinyl chloride	ug/L	20	15.3	77	41-160	
Xylene (Total)	ug/L	60	51.7	86	67-130	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Dibromofluoromethane (S)	%			98	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1214670

Parameter	Units	60147888001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	20	18.0	90	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	17.0	85	46-157	
1,1,2-Trichloroethane	ug/L	ND	20	16.7	84	52-150	
1,1-Dichloroethane	ug/L	ND	20	16.2	81	59-155	
1,1-Dichloroethene	ug/L	ND	20	16.7	83	14-160	
1,2-Dichlorobenzene	ug/L	ND	20	16.9	85	18-145	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

MATRIX SPIKE SAMPLE:		1214670						
Parameter	Units	60147888001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,2-Dichloroethane	ug/L	ND	20	17.0	85	49-155		
1,2-Dichloropropane	ug/L	ND	20	17.7	89	12-160		
1,3-Dichlorobenzene	ug/L	ND	20	17.7	89	59-146		
1,4-Dichlorobenzene	ug/L	ND	20	17.8	89	18-147		
2-Chloroethylvinyl ether	ug/L	ND	20	17.1	86	10-160		
Benzene	ug/L	ND	20	16.6	83	37-151		
Bromodichloromethane	ug/L	ND	20	17.1	85	35-155		
Bromoform	ug/L	ND	20	16.2	81	45-133		
Bromomethane	ug/L	ND	20	15.6	78	10-160		
Carbon tetrachloride	ug/L	ND	20	19.9	100	70-140		
Chlorobenzene	ug/L	ND	20	17.2	86	37-153		
Chloroethane	ug/L	ND	20	15.9	79	14-160		
Chloroform	ug/L	ND	20	16.8	84	51-138		
Chloromethane	ug/L	ND	20	6.5	32	10-160		
cis-1,2-Dichloroethene	ug/L	ND	20	18.1	90	19-160		
cis-1,3-Dichloropropene	ug/L	ND	20	17.4	87	10-160		
Dibromochloromethane	ug/L	ND	20	17.5	88	53-149		
Ethylbenzene	ug/L	ND	20	17.5	87	37-154		
Methylene chloride	ug/L	ND	20	14.1	71	15-156		
Tetrachloroethene	ug/L	ND	20	17.7	89	64-148		
Toluene	ug/L	ND	20	17.9	88	47-150		
trans-1,2-Dichloroethene	ug/L	ND	20	16.7	84	54-156		
trans-1,3-Dichloropropene	ug/L	ND	20	18.1	90	17-160		
Trichloroethene	ug/L	ND	20	16.0	80	71-157		
Trichlorofluoromethane	ug/L	ND	20	14.6	73	17-160		
Vinyl chloride	ug/L	ND	20	10.2	51	10-160		
Xylene (Total)	ug/L	ND	60	50.7	85	12-153		
1,2-Dichloroethane-d4 (S)	%				97	80-120		
4-Bromofluorobenzene (S)	%				100	80-120		
Dibromofluoromethane (S)	%				98	80-120		
Toluene-d8 (S)	%				101	80-120		
Preservation pH			7.0	6.0				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD
Pace Project No.: 60148043

QC Batch: OEXT/39163 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60148043001

METHOD BLANK: 1215985 Matrix: Water
Associated Lab Samples: 60148043001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	07/08/13 14:44	
2,4,6-Trichlorophenol	ug/L	ND	5.0	07/08/13 14:44	
2,4-Dichlorophenol	ug/L	ND	5.0	07/08/13 14:44	
2,4-Dimethylphenol	ug/L	ND	5.0	07/08/13 14:44	
2,4-Dinitrophenol	ug/L	ND	50.0	07/08/13 14:44	
2,4-Dinitrotoluene	ug/L	ND	6.0	07/08/13 14:44	
2,6-Dinitrotoluene	ug/L	ND	5.0	07/08/13 14:44	
2-Chloronaphthalene	ug/L	ND	5.0	07/08/13 14:44	
2-Chlorophenol	ug/L	ND	5.0	07/08/13 14:44	
2-Nitrophenol	ug/L	ND	5.0	07/08/13 14:44	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	07/08/13 14:44	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	07/08/13 14:44	
4-Bromophenylphenyl ether	ug/L	ND	5.0	07/08/13 14:44	
4-Chloro-3-methylphenol	ug/L	ND	5.0	07/08/13 14:44	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	07/08/13 14:44	
4-Nitrophenol	ug/L	ND	5.0	07/08/13 14:44	
Acenaphthene	ug/L	ND	5.0	07/08/13 14:44	
Acenaphthylene	ug/L	ND	5.0	07/08/13 14:44	
Anthracene	ug/L	ND	5.0	07/08/13 14:44	
Benzidine	ug/L	ND	50.0	07/08/13 14:44	
Benzo(a)anthracene	ug/L	ND	5.0	07/08/13 14:44	
Benzo(a)pyrene	ug/L	ND	5.0	07/08/13 14:44	
Benzo(b)fluoranthene	ug/L	ND	5.0	07/08/13 14:44	
Benzo(g,h,i)perylene	ug/L	ND	5.0	07/08/13 14:44	
Benzo(k)fluoranthene	ug/L	ND	5.0	07/08/13 14:44	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	07/08/13 14:44	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	07/08/13 14:44	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	07/08/13 14:44	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	07/08/13 14:44	
Butylbenzylphthalate	ug/L	ND	5.0	07/08/13 14:44	
Chrysene	ug/L	ND	5.0	07/08/13 14:44	
Di-n-butylphthalate	ug/L	ND	5.0	07/08/13 14:44	
Di-n-octylphthalate	ug/L	ND	5.0	07/08/13 14:44	
Dibenz(a,h)anthracene	ug/L	ND	5.0	07/08/13 14:44	
Diethylphthalate	ug/L	ND	5.0	07/08/13 14:44	
Dimethylphthalate	ug/L	ND	5.0	07/08/13 14:44	
Fluoranthene	ug/L	ND	5.0	07/08/13 14:44	
Fluorene	ug/L	ND	5.0	07/08/13 14:44	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	07/08/13 14:44	
Hexachlorobenzene	ug/L	ND	5.0	07/08/13 14:44	
Hexachlorocyclopentadiene	ug/L	ND	5.0	07/08/13 14:44	
Hexachloroethane	ug/L	ND	5.0	07/08/13 14:44	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	07/08/13 14:44	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD

Project No.: 60148043

METHOD BLANK: 1215985

Matrix: Water

Associated Lab Samples: 60148043001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	07/08/13 14:44	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	07/08/13 14:44	
N-Nitrosodimethylamine	ug/L	ND	5.0	07/08/13 14:44	
N-Nitrosodiphenylamine	ug/L	ND	5.0	07/08/13 14:44	
Naphthalene	ug/L	ND	5.0	07/08/13 14:44	
Nitrobenzene	ug/L	ND	5.0	07/08/13 14:44	
Pentachlorophenol	ug/L	ND	5.0	07/08/13 14:44	
Phenanthrene	ug/L	ND	5.0	07/08/13 14:44	
Phenol	ug/L	ND	5.0	07/08/13 14:44	
Pyrene	ug/L	ND	5.0	07/08/13 14:44	
2,4,6-Tribromophenol (S)	%	79	39-119	07/08/13 14:44	
2-Fluorobiphenyl (S)	%	79	36-120	07/08/13 14:44	
2-Fluorophenol (S)	%	40	18-120	07/08/13 14:44	
Nitrobenzene-d5 (S)	%	75	32-120	07/08/13 14:44	
Phenol-d6 (S)	%	24	12-120	07/08/13 14:44	
Terphenyl-d14 (S)	%	85	44-120	07/08/13 14:44	

LABORATORY CONTROL SAMPLE: 1215986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	34.8	70	44-120	
2,4,6-Trichlorophenol	ug/L	50	37.6	75	48-120	
2,4-Dichlorophenol	ug/L	50	36.5	73	48-120	
2,4-Dimethylphenol	ug/L	50	34.9	70	37-119	
2,4-Dinitrophenol	ug/L	50	35.7J	71	15-153	
2,4-Dinitrotoluene	ug/L	50	42.2	84	54-120	
2,6-Dinitrotoluene	ug/L	50	41.8	84	52-120	
2-Chloronaphthalene	ug/L	50	38.0	76	60-118	
2-Chlorophenol	ug/L	50	34.9	70	44-120	
2-Nitrophenol	ug/L	50	36.0	72	43-120	
3,3'-Dichlorobenzidine	ug/L	50	39.3	79	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	42.8	86	31-147	
4-Bromophenylphenyl ether	ug/L	50	41.3	83	53-120	
4-Chloro-3-methylphenol	ug/L	50	37.8	76	50-120	
4-Chlorophenylphenyl ether	ug/L	50	40.2	80	54-120	
4-Nitrophenol	ug/L	50	15.1	30	10-120	
Acenaphthene	ug/L	50	39.1	78	51-120	
Acenaphthylene	ug/L	50	38.4	77	51-120	
Anthracene	ug/L	50	41.7	83	54-120	
Benzidine	ug/L	50	28.8J	58	1-124	
Benzo(a)anthracene	ug/L	50	42.5	85	54-120	
Benzo(a)pyrene	ug/L	50	41.9	84	54-120	
Benzo(b)fluoranthene	ug/L	50	42.6	85	57-120	
Benzo(g,h,i)perylene	ug/L	50	42.8	86	54-120	
Benzo(k)fluoranthene	ug/L	50	43.5	87	52-121	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

LABORATORY CONTROL SAMPLE: 1215986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	50	36.5	73	51-120	
bis(2-Chloroethyl) ether	ug/L	50	38.1	76	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	37.4	75	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	43.2	86	51-126	
Butylbenzylphthalate	ug/L	50	42.9	86	45-129	
Chrysene	ug/L	50	42.6	85	54-120	
Di-n-butylphthalate	ug/L	50	43.3	87	57-118	
Di-n-octylphthalate	ug/L	50	43.8	88	48-130	
Dibenz(a,h)anthracene	ug/L	50	43.9	88	56-119	
Diethylphthalate	ug/L	50	41.1	82	55-114	
Dimethylphthalate	ug/L	50	40.2	80	54-112	
Fluoranthene	ug/L	50	42.6	85	56-120	
Fluorene	ug/L	50	39.2	78	59-120	
Hexachloro-1,3-butadiene	ug/L	50	33.7	67	41-116	
Hexachlorobenzene	ug/L	50	41.9	84	53-120	
Hexachlorocyclopentadiene	ug/L	100	50.3	50	31-120	
Hexachloroethane	ug/L	50	34.4	69	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	42.8	86	55-120	
Isophorone	ug/L	50	38.4	77	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	38.8	78	47-120	
N-Nitrosodimethylamine	ug/L	50	22.4	45	28-120	
N-Nitrosodiphenylamine	ug/L	50	39.9	80	53-120	
Naphthalene	ug/L	50	35.7	71	48-120	
Nitrobenzene	ug/L	50	37.3	75	47-120	
Pentachlorophenol	ug/L	50	39.8	80	43-127	
Phenanthrene	ug/L	50	41.4	83	55-120	
Phenol	ug/L	50	13.8	28	15-112	
Pyrene	ug/L	50	42.5	85	55-115	
2,4,6-Tribromophenol (S)	%			83	39-119	
2-Fluorobiphenyl (S)	%			78	36-120	
2-Fluorophenol (S)	%			41	18-120	
Nitrobenzene-d5 (S)	%			74	32-120	
Phenol-d6 (S)	%			27	12-120	
Terphenyl-d14 (S)	%			88	44-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

QC Batch: WET/42172

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60148043001

METHOD BLANK: 1214872

Matrix: Water

Associated Lab Samples: 60148043001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	07/02/13 14:38	

LABORATORY CONTROL SAMPLE: 1214873

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: 1214879

Parameter	Units	60147834001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	42.1	41.2	96	78-114	

SAMPLE DUPLICATE: 1214882

Parameter	Units	60147945001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	2J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

QC Batch: WET/42228

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60148043001

METHOD BLANK: 1216409

Matrix: Water

Associated Lab Samples: 60148043001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	07/08/13 06:47	

LABORATORY CONTROL SAMPLE: 1216410

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

MATRIX SPIKE SAMPLE: 1216411

Parameter	Units	60147783001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	2.8J	22.2	21.0	82	64-132	

SAMPLE DUPLICATE: 1216413

Parameter	Units	60147660001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	2.7J		34	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

QC Batch: WET/42210

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60148043001

METHOD BLANK: 1216014

Matrix: Water

Associated Lab Samples: 60148043001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	07/05/13 09:35	

SAMPLE DUPLICATE: 1216015

Parameter	Units	60148186001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 1216016

Parameter	Units	60148067002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	6.0	ND		25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

QC Batch: WET/42207 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60148043001

SAMPLE DUPLICATE: 1215965

Parameter	Units	60148043001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.4	5.4	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD
Pace Project No.: 60148043

QC Batch: WETA/25326 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60148043001

METHOD BLANK: 1215071 Matrix: Water
Associated Lab Samples: 60148043001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	07/03/13 14:08	

LABORATORY CONTROL SAMPLE: 1215072

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

MATRIX SPIKE SAMPLE: 1215073

Parameter	Units	60147625001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.1	104	90-110	

MATRIX SPIKE SAMPLE: 1215074

Parameter	Units	60147625003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	2.1	104	90-110	

SAMPLE DUPLICATE: 1215075

Parameter	Units	60147635001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.21	0.22	4	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

QC Batch: WETA/25338 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60148043001

METHOD BLANK: 1215734 Matrix: Water
 Associated Lab Samples: 60148043001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	07/08/13 07:58	

LABORATORY CONTROL SAMPLE: 1215735

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: 1215736

Parameter	Units	60147615002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	2230	1000	3110	87	90-110	M1

MATRIX SPIKE SAMPLE: 1215738

Parameter	Units	60147744001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1640	1000	2530	90	90-110	

SAMPLE DUPLICATE: 1215737

Parameter	Units	60147682001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	ND	7.4J		25	

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QUALIFIERS

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: OEXT/39163

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

ANALYTE QUALIFIERS

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

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

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

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 258-MSD

Pace Project No.: 60148043

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60148043001	258-MSD	EPA 200.7	MPRP/23329	EPA 200.7	ICP/18375
60148043001	258-MSD	EPA 200.7	MPRP/23334	EPA 200.7	ICP/18376
60148043001	258-MSD	EPA 245.1	MERP/7478	EPA 245.1	MERC/7432
60148043001	258-MSD	EPA 245.1	MERP/7483	EPA 245.1	MERC/7441
60148043001	258-MSD	EPA 625	OEXT/39163	EPA 625	MSSV/12399
60148043001	258-MSD	EPA 624 Low	MSV/54684		
60148043002	TRIP BLANK	EPA 624 Low	MSV/54684		
60148043001	258-MSD	EPA 1664A	WET/42172		
60148043001	258-MSD	EPA 1664A	WET/42228		
60148043001	258-MSD	SM 2540D	WET/42210		
60148043001	258-MSD	SM 4500-H+B	WET/42207		
60148043001	258-MSD	EPA 350.1	WETA/25326		
60148043001	258-MSD	EPA 410.4	WETA/25338		

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Sample Condition Upon Receipt

WO#: 60148043



60148043

Client Name: Burr

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

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

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

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

Thermometer Used: T-112 / T-194 Type of Ice: Wet Blue None [] Samples received on ice, cooling process has begun.

Cooler Temperature: 3.4

Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: PGT PGT/2/13

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

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: [Signature] Date: 7/18/13

