

May 10, 2013

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

RE: Project: BRIDGETON LF
Pace Project No.: 60143880

Dear Ed Galbraith:

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

Pace Project No.: 60143880

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA Certification #: 2456.01

Arkansas Certification #: 12-019-0

Illinois Certification #: 002885

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-12-3

Utah Certification #: KS000212012-2

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF

Pace Project No.: 60143880

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60143880001	UNTREATED COMMINGLEDTCLP05/01	Water	05/01/13 21:10	05/03/13 08:35
60143880002	UNTREATED COMMINGLEDTOC05/01	Water	05/01/13 21:30	05/03/13 08:35
60143880003	UNTREATED COMMINGLEDSDLDS05/01	Water	05/01/13 21:45	05/03/13 08:35
60143880004	UNTREATED COMMINGLED S/VOA 9	Water	05/01/13 22:00	05/03/13 08:35
60143880005	UNTREATED COMMINGLED S/VOA 10	Water	05/01/13 22:20	05/03/13 08:35
60143880006	UNTREATED COMMINGLED S/VOA 11	Water	05/01/13 22:40	05/03/13 08:35
60143880007	UNTREATED COMMINGLED S/VOA 12	Water	05/01/13 23:00	05/03/13 08:35
60143880008	TRIP BLANK	Water	05/01/13 00:00	05/03/13 08:35

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF

Pace Project No.: 60143880

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60143880001	UNTREATED COMMINGLEDTCLP05/01	EPA 8260	RAB	14
60143880002	UNTREATED COMMINGLEDTOC05/01	EPA 9060	JML	5
60143880003	UNTREATED COMMINGLEDSDLDS05/01	SM 2540B	JML	1
60143880004	UNTREATED COMMINGLED S/VOA 9	EPA 8270	JMT	73
		EPA 5030B/8260	PRG	70
60143880005	UNTREATED COMMINGLED S/VOA 10	EPA 8270	JMT	73
		EPA 5030B/8260	PRG	70
60143880006	UNTREATED COMMINGLED S/VOA 11	EPA 8270	JMT	73
		EPA 5030B/8260	PRG	70
60143880007	UNTREATED COMMINGLED S/VOA 12	EPA 8270	JMT	73
		EPA 5030B/8260	PRG	70
60143880008	TRIP BLANK	EPA 5030B/8260	PRG	70

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID:** 60143880001 Collected: 05/01/13 21:10 Received: 05/03/13 08:35 Matrix: Water
COMMINGLEDTCCLP05/01

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP		Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 05/07/13 00:00						
Benzene	ND	ug/L	250	5		05/07/13 16:15	71-43-2	
2-Butanone (MEK)	12100	ug/L	5000	5		05/07/13 16:15	78-93-3	
Carbon tetrachloride	ND	ug/L	250	5		05/07/13 16:15	56-23-5	
Chlorobenzene	ND	ug/L	250	5		05/07/13 16:15	108-90-7	
Chloroform	ND	ug/L	1000	5		05/07/13 16:15	67-66-3	
1,2-Dichloroethane	ND	ug/L	250	5		05/07/13 16:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	250	5		05/07/13 16:15	75-35-4	
Tetrachloroethene	ND	ug/L	250	5		05/07/13 16:15	127-18-4	
Trichloroethene	ND	ug/L	250	5		05/07/13 16:15	79-01-6	
Vinyl chloride	ND	ug/L	500	5		05/07/13 16:15	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	100 %		80-120	5		05/07/13 16:15	17060-07-0	
Toluene-d8 (S)	100 %		80-120	5		05/07/13 16:15	2037-26-5	
4-Bromofluorobenzene (S)	102 %		80-120	5		05/07/13 16:15	460-00-4	
Dibromofluoromethane (S)	105 %		80-120	5		05/07/13 16:15	1868-53-7	

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID:** 60143880002 Collected: 05/01/13 21:30 Received: 05/03/13 08:35 Matrix: Water
COMMINGLEDTOC05/01

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon		Analytical Method: EPA 9060						
Mean Total Organic Carbon	13500	mg/L	1000	1000		05/09/13 17:38	7440-44-0	
Total Organic Carbon	13600	mg/L	1000	1000		05/09/13 17:38	7440-44-0	
Total Organic Carbon	13100	mg/L	1000	1000		05/09/13 17:38	7440-44-0	
Total Organic Carbon	14000	mg/L	1000	1000		05/09/13 17:38	7440-44-0	
Total Organic Carbon	13200	mg/L	1000	1000		05/09/13 17:38	7440-44-0	

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID:** 60143880003 Collected: 05/01/13 21:45 Received: 05/03/13 08:35 Matrix: Water
COMMINGLEDSDLDS05/01

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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2540B Total Solids Analytical Method: SM 2540B

Total Solids	35200 mg/L		5.0	1		05/08/13 15:50		
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REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID:** 60143880004 Collected: 05/01/13 22:00 Received: 05/03/13 08:35 Matrix: Water
COMMINGLED S/VOA 9

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	500	50	05/07/13 00:00	05/08/13 16:08	83-32-9	
Acenaphthylene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	208-96-8	
Anthracene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	120-12-7	
Benzo(a)anthracene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	56-55-3	
Benzo(a)pyrene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	207-08-9	
Benzoic acid	5320	ug/L	5000	100	05/07/13 00:00	05/09/13 14:29	65-85-0	
Benzyl alcohol	ND	ug/L	1000	50	05/07/13 00:00	05/08/13 16:08	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	101-55-3	
Butylbenzylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	85-68-7	
Carbazole	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1000	50	05/07/13 00:00	05/08/13 16:08	59-50-7	
4-Chloroaniline	ND	ug/L	1000	50	05/07/13 00:00	05/08/13 16:08	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	39638-32-9	
2-Chloronaphthalene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	91-58-7	
2-Chlorophenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	7005-72-3	
Chrysene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	53-70-3	
Dibenzofuran	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1000	50	05/07/13 00:00	05/08/13 16:08	91-94-1	L3
2,4-Dichlorophenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	120-83-2	
Diethylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	84-66-2	
2,4-Dimethylphenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	105-67-9	
Dimethylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	131-11-3	
Di-n-butylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:08	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:08	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	606-20-2	
Di-n-octylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	117-81-7	
Fluoranthene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	206-44-0	
Fluorene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	87-68-3	
Hexachlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	77-47-4	
Hexachloroethane	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	193-39-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID:** 60143880004 Collected: 05/01/13 22:00 Received: 05/03/13 08:35 Matrix: Water
COMMINGLED S/VOA 9

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	500	50	05/07/13 00:00	05/08/13 16:08	78-59-1	
2-Methylnaphthalene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	95-48-7	
3&4-Methylphenol(m&p Cresol)	1580	ug/L	500	50	05/07/13 00:00	05/08/13 16:08		
Naphthalene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	91-20-3	
2-Nitroaniline	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:08	88-74-4	
3-Nitroaniline	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:08	99-09-2	
4-Nitroaniline	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:08	100-01-6	
Nitrobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	98-95-3	
2-Nitrophenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	88-75-5	
4-Nitrophenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:08	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	86-30-6	
Pentachlorophenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:08	87-86-5	
Phenanthrene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	85-01-8	
Phenol	3300	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	108-95-2	
Pyrene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	129-00-0	
Pyridine	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:08	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:08	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0 %		10-159	50	05/07/13 00:00	05/08/13 16:08	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		15-149	50	05/07/13 00:00	05/08/13 16:08	321-60-8	S4
Terphenyl-d14 (S)	0 %		25-142	50	05/07/13 00:00	05/08/13 16:08	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	50	05/07/13 00:00	05/08/13 16:08	13127-88-3	S4
2-Fluorophenol (S)	0 %		16-120	50	05/07/13 00:00	05/08/13 16:08	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		37-120	50	05/07/13 00:00	05/08/13 16:08	118-79-6	S4

8260 MSV Analytical Method: EPA 5030B/8260

Acetone	82800	ug/L	2000	200		05/07/13 05:51	67-64-1	
Benzene	464	ug/L	200	200		05/07/13 05:51	71-43-2	
Bromobenzene	ND	ug/L	200	200		05/07/13 05:51	108-86-1	
Bromochloromethane	ND	ug/L	200	200		05/07/13 05:51	74-97-5	
Bromodichloromethane	ND	ug/L	200	200		05/07/13 05:51	75-27-4	
Bromoform	ND	ug/L	200	200		05/07/13 05:51	75-25-2	
Bromomethane	ND	ug/L	1000	200		05/07/13 05:51	74-83-9	
2-Butanone (MEK)	32200	ug/L	2000	200		05/07/13 05:51	78-93-3	
n-Butylbenzene	ND	ug/L	200	200		05/07/13 05:51	104-51-8	
sec-Butylbenzene	ND	ug/L	200	200		05/07/13 05:51	135-98-8	
tert-Butylbenzene	ND	ug/L	200	200		05/07/13 05:51	98-06-6	
Carbon disulfide	ND	ug/L	1000	200		05/07/13 05:51	75-15-0	
Carbon tetrachloride	ND	ug/L	200	200		05/07/13 05:51	56-23-5	
Chlorobenzene	ND	ug/L	200	200		05/07/13 05:51	108-90-7	
Chloroethane	ND	ug/L	200	200		05/07/13 05:51	75-00-3	
Chloroform	ND	ug/L	200	200		05/07/13 05:51	67-66-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID:** 60143880004 Collected: 05/01/13 22:00 Received: 05/03/13 08:35 Matrix: Water
COMMINGLED S/VOA 9

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Chloromethane	ND	ug/L	200	200		05/07/13 05:51	74-87-3	
2-Chlorotoluene	ND	ug/L	200	200		05/07/13 05:51	95-49-8	
4-Chlorotoluene	ND	ug/L	200	200		05/07/13 05:51	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	500	200		05/07/13 05:51	96-12-8	
Dibromochloromethane	ND	ug/L	200	200		05/07/13 05:51	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	200	200		05/07/13 05:51	106-93-4	
Dibromomethane	ND	ug/L	200	200		05/07/13 05:51	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200	200		05/07/13 05:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200	200		05/07/13 05:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	200	200		05/07/13 05:51	106-46-7	
Dichlorodifluoromethane	ND	ug/L	200	200		05/07/13 05:51	75-71-8	
1,1-Dichloroethane	ND	ug/L	200	200		05/07/13 05:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	200	200		05/07/13 05:51	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	200	200		05/07/13 05:51	540-59-0	
1,1-Dichloroethene	ND	ug/L	200	200		05/07/13 05:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200	200		05/07/13 05:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	200		05/07/13 05:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	200	200		05/07/13 05:51	78-87-5	
1,3-Dichloropropane	ND	ug/L	200	200		05/07/13 05:51	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	200		05/07/13 05:51	594-20-7	
1,1-Dichloropropene	ND	ug/L	200	200		05/07/13 05:51	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	200		05/07/13 05:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	200		05/07/13 05:51	10061-02-6	
Ethylbenzene	ND	ug/L	200	200		05/07/13 05:51	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	200		05/07/13 05:51	87-68-3	
2-Hexanone	ND	ug/L	2000	200		05/07/13 05:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	200	200		05/07/13 05:51	98-82-8	
p-Isopropyltoluene	238	ug/L	200	200		05/07/13 05:51	99-87-6	
Methylene chloride	ND	ug/L	200	200		05/07/13 05:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2000	200		05/07/13 05:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200	200		05/07/13 05:51	1634-04-4	
Naphthalene	ND	ug/L	2000	200		05/07/13 05:51	91-20-3	
n-Propylbenzene	ND	ug/L	200	200		05/07/13 05:51	103-65-1	
Styrene	ND	ug/L	200	200		05/07/13 05:51	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	200		05/07/13 05:51	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		05/07/13 05:51	79-34-5	
Tetrachloroethene	ND	ug/L	200	200		05/07/13 05:51	127-18-4	
Toluene	ND	ug/L	200	200		05/07/13 05:51	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200	200		05/07/13 05:51	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200	200		05/07/13 05:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200	200		05/07/13 05:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		05/07/13 05:51	79-00-5	
Trichloroethene	ND	ug/L	200	200		05/07/13 05:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	200	200		05/07/13 05:51	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	500	200		05/07/13 05:51	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	200	200		05/07/13 05:51	95-63-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID:** 6014388004 Collected: 05/01/13 22:00 Received: 05/03/13 08:35 Matrix: Water
COMMINGLED S/VOA 9

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		05/07/13 05:51	108-67-8	
Vinyl chloride	ND	ug/L	200	200		05/07/13 05:51	75-01-4	
Xylene (Total)	ND	ug/L	600	200		05/07/13 05:51	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	200		05/07/13 05:51	460-00-4	
Dibromofluoromethane (S)	105	%	80-120	200		05/07/13 05:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	80-120	200		05/07/13 05:51	17060-07-0	
Toluene-d8 (S)	98	%	80-120	200		05/07/13 05:51	2037-26-5	
Preservation pH	1.0		0.10	200		05/07/13 05:51		

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID:** 60143880005 Collected: 05/01/13 22:20 Received: 05/03/13 08:35 Matrix: Water
COMMINGLED S/VOA 10

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	500	50	05/07/13 00:00	05/08/13 16:28	83-32-9	
Acenaphthylene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	208-96-8	
Anthracene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	120-12-7	
Benzo(a)anthracene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	56-55-3	
Benzo(a)pyrene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	207-08-9	
Benzoic acid	4600	ug/L	2500	50	05/07/13 00:00	05/08/13 16:28	65-85-0	
Benzyl alcohol	ND	ug/L	1000	50	05/07/13 00:00	05/08/13 16:28	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	101-55-3	
Butylbenzylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	85-68-7	
Carbazole	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1000	50	05/07/13 00:00	05/08/13 16:28	59-50-7	
4-Chloroaniline	ND	ug/L	1000	50	05/07/13 00:00	05/08/13 16:28	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	39638-32-9	
2-Chloronaphthalene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	91-58-7	
2-Chlorophenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	7005-72-3	
Chrysene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	53-70-3	
Dibenzofuran	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1000	50	05/07/13 00:00	05/08/13 16:28	91-94-1	L3
2,4-Dichlorophenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	120-83-2	
Diethylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	84-66-2	
2,4-Dimethylphenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	105-67-9	
Dimethylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	131-11-3	
Di-n-butylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:28	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:28	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	606-20-2	
Di-n-octylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	117-81-7	
Fluoranthene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	206-44-0	
Fluorene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	87-68-3	
Hexachlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	77-47-4	
Hexachloroethane	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	193-39-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID:** 60143880005 Collected: 05/01/13 22:20 Received: 05/03/13 08:35 Matrix: Water
COMMINGLED S/VOA 10

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	500	50	05/07/13 00:00	05/08/13 16:28	78-59-1	
2-Methylnaphthalene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	95-48-7	
3&4-Methylphenol(m&p Cresol)	1350	ug/L	500	50	05/07/13 00:00	05/08/13 16:28		
Naphthalene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	91-20-3	
2-Nitroaniline	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:28	88-74-4	
3-Nitroaniline	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:28	99-09-2	
4-Nitroaniline	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:28	100-01-6	
Nitrobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	98-95-3	
2-Nitrophenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	88-75-5	
4-Nitrophenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:28	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	86-30-6	
Pentachlorophenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:28	87-86-5	
Phenanthrene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	85-01-8	
Phenol	3010	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	108-95-2	
Pyrene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	129-00-0	
Pyridine	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:28	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:28	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0 %		10-159	50	05/07/13 00:00	05/08/13 16:28	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		15-149	50	05/07/13 00:00	05/08/13 16:28	321-60-8	S4
Terphenyl-d14 (S)	0 %		25-142	50	05/07/13 00:00	05/08/13 16:28	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	50	05/07/13 00:00	05/08/13 16:28	13127-88-3	S4
2-Fluorophenol (S)	0 %		16-120	50	05/07/13 00:00	05/08/13 16:28	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		37-120	50	05/07/13 00:00	05/08/13 16:28	118-79-6	S4
8260 MSV		Analytical Method: EPA 5030B/8260						
Acetone	81200	ug/L	2000	200		05/07/13 06:05	67-64-1	
Benzene	445	ug/L	200	200		05/07/13 06:05	71-43-2	
Bromobenzene	ND	ug/L	200	200		05/07/13 06:05	108-86-1	
Bromochloromethane	ND	ug/L	200	200		05/07/13 06:05	74-97-5	
Bromodichloromethane	ND	ug/L	200	200		05/07/13 06:05	75-27-4	
Bromoform	ND	ug/L	200	200		05/07/13 06:05	75-25-2	
Bromomethane	ND	ug/L	1000	200		05/07/13 06:05	74-83-9	
2-Butanone (MEK)	31300	ug/L	2000	200		05/07/13 06:05	78-93-3	
n-Butylbenzene	ND	ug/L	200	200		05/07/13 06:05	104-51-8	
sec-Butylbenzene	ND	ug/L	200	200		05/07/13 06:05	135-98-8	
tert-Butylbenzene	ND	ug/L	200	200		05/07/13 06:05	98-06-6	
Carbon disulfide	ND	ug/L	1000	200		05/07/13 06:05	75-15-0	
Carbon tetrachloride	ND	ug/L	200	200		05/07/13 06:05	56-23-5	
Chlorobenzene	ND	ug/L	200	200		05/07/13 06:05	108-90-7	
Chloroethane	ND	ug/L	200	200		05/07/13 06:05	75-00-3	
Chloroform	ND	ug/L	200	200		05/07/13 06:05	67-66-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID:** 60143880005 Collected: 05/01/13 22:20 Received: 05/03/13 08:35 Matrix: Water
COMMINGLED S/VOA 10

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Chloromethane	ND	ug/L	200	200		05/07/13 06:05	74-87-3	
2-Chlorotoluene	ND	ug/L	200	200		05/07/13 06:05	95-49-8	
4-Chlorotoluene	ND	ug/L	200	200		05/07/13 06:05	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	500	200		05/07/13 06:05	96-12-8	
Dibromochloromethane	ND	ug/L	200	200		05/07/13 06:05	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	200	200		05/07/13 06:05	106-93-4	
Dibromomethane	ND	ug/L	200	200		05/07/13 06:05	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200	200		05/07/13 06:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200	200		05/07/13 06:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	200	200		05/07/13 06:05	106-46-7	
Dichlorodifluoromethane	ND	ug/L	200	200		05/07/13 06:05	75-71-8	
1,1-Dichloroethane	ND	ug/L	200	200		05/07/13 06:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	200	200		05/07/13 06:05	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	200	200		05/07/13 06:05	540-59-0	
1,1-Dichloroethene	ND	ug/L	200	200		05/07/13 06:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200	200		05/07/13 06:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	200		05/07/13 06:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	200	200		05/07/13 06:05	78-87-5	
1,3-Dichloropropane	ND	ug/L	200	200		05/07/13 06:05	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	200		05/07/13 06:05	594-20-7	
1,1-Dichloropropene	ND	ug/L	200	200		05/07/13 06:05	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	200		05/07/13 06:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	200		05/07/13 06:05	10061-02-6	
Ethylbenzene	ND	ug/L	200	200		05/07/13 06:05	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	200		05/07/13 06:05	87-68-3	
2-Hexanone	ND	ug/L	2000	200		05/07/13 06:05	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	200	200		05/07/13 06:05	98-82-8	
p-Isopropyltoluene	ND	ug/L	200	200		05/07/13 06:05	99-87-6	
Methylene chloride	ND	ug/L	200	200		05/07/13 06:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2000	200		05/07/13 06:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200	200		05/07/13 06:05	1634-04-4	
Naphthalene	ND	ug/L	2000	200		05/07/13 06:05	91-20-3	
n-Propylbenzene	ND	ug/L	200	200		05/07/13 06:05	103-65-1	
Styrene	ND	ug/L	200	200		05/07/13 06:05	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	200		05/07/13 06:05	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		05/07/13 06:05	79-34-5	
Tetrachloroethene	ND	ug/L	200	200		05/07/13 06:05	127-18-4	
Toluene	ND	ug/L	200	200		05/07/13 06:05	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200	200		05/07/13 06:05	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200	200		05/07/13 06:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200	200		05/07/13 06:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		05/07/13 06:05	79-00-5	
Trichloroethene	ND	ug/L	200	200		05/07/13 06:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	200	200		05/07/13 06:05	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	500	200		05/07/13 06:05	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	200	200		05/07/13 06:05	95-63-6	

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID:** 60143880005 Collected: 05/01/13 22:20 Received: 05/03/13 08:35 Matrix: Water
COMMINGLED S/VOA 10

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		05/07/13 06:05	108-67-8	
Vinyl chloride	ND	ug/L	200	200		05/07/13 06:05	75-01-4	
Xylene (Total)	ND	ug/L	600	200		05/07/13 06:05	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	200		05/07/13 06:05	460-00-4	
Dibromofluoromethane (S)	105	%	80-120	200		05/07/13 06:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	109	%	80-120	200		05/07/13 06:05	17060-07-0	
Toluene-d8 (S)	98	%	80-120	200		05/07/13 06:05	2037-26-5	
Preservation pH	1.0		0.10	200		05/07/13 06:05		

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID: 60143880006** Collected: 05/01/13 22:40 Received: 05/03/13 08:35 Matrix: Water
COMMINGLED S/VOA 11

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	500	50	05/07/13 00:00	05/08/13 16:49	83-32-9	
Acenaphthylene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	208-96-8	
Anthracene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	120-12-7	
Benzo(a)anthracene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	56-55-3	
Benzo(a)pyrene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	207-08-9	
Benzoic acid	3560	ug/L	2500	50	05/07/13 00:00	05/08/13 16:49	65-85-0	
Benzyl alcohol	ND	ug/L	1000	50	05/07/13 00:00	05/08/13 16:49	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	101-55-3	
Butylbenzylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	85-68-7	
Carbazole	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1000	50	05/07/13 00:00	05/08/13 16:49	59-50-7	
4-Chloroaniline	ND	ug/L	1000	50	05/07/13 00:00	05/08/13 16:49	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	39638-32-9	
2-Chloronaphthalene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	91-58-7	
2-Chlorophenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	7005-72-3	
Chrysene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	53-70-3	
Dibenzofuran	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1000	50	05/07/13 00:00	05/08/13 16:49	91-94-1	L3
2,4-Dichlorophenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	120-83-2	
Diethylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	84-66-2	
2,4-Dimethylphenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	105-67-9	
Dimethylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	131-11-3	
Di-n-butylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:49	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:49	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	606-20-2	
Di-n-octylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	117-81-7	
Fluoranthene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	206-44-0	
Fluorene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	87-68-3	
Hexachlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	77-47-4	
Hexachloroethane	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	193-39-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID:** 60143880006 Collected: 05/01/13 22:40 Received: 05/03/13 08:35 Matrix: Water
COMMINGLED S/VOA 11

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	500	50	05/07/13 00:00	05/08/13 16:49	78-59-1	
2-Methylnaphthalene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	95-48-7	
3&4-Methylphenol(m&p Cresol)	1010	ug/L	500	50	05/07/13 00:00	05/08/13 16:49		
Naphthalene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	91-20-3	
2-Nitroaniline	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:49	88-74-4	
3-Nitroaniline	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:49	99-09-2	
4-Nitroaniline	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:49	100-01-6	
Nitrobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	98-95-3	
2-Nitrophenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	88-75-5	
4-Nitrophenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:49	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	86-30-6	
Pentachlorophenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:49	87-86-5	
Phenanthrene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	85-01-8	
Phenol	2580	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	108-95-2	
Pyrene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	129-00-0	
Pyridine	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 16:49	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 16:49	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0 %		10-159	50	05/07/13 00:00	05/08/13 16:49	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		15-149	50	05/07/13 00:00	05/08/13 16:49	321-60-8	S4
Terphenyl-d14 (S)	0 %		25-142	50	05/07/13 00:00	05/08/13 16:49	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	50	05/07/13 00:00	05/08/13 16:49	13127-88-3	S4
2-Fluorophenol (S)	0 %		16-120	50	05/07/13 00:00	05/08/13 16:49	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		37-120	50	05/07/13 00:00	05/08/13 16:49	118-79-6	S4

8260 MSV Analytical Method: EPA 5030B/8260

Acetone	83600	ug/L	2000	200		05/07/13 06:20	67-64-1	
Benzene	495	ug/L	200	200		05/07/13 06:20	71-43-2	
Bromobenzene	ND	ug/L	200	200		05/07/13 06:20	108-86-1	
Bromochloromethane	ND	ug/L	200	200		05/07/13 06:20	74-97-5	
Bromodichloromethane	ND	ug/L	200	200		05/07/13 06:20	75-27-4	
Bromoform	ND	ug/L	200	200		05/07/13 06:20	75-25-2	
Bromomethane	ND	ug/L	1000	200		05/07/13 06:20	74-83-9	
2-Butanone (MEK)	32700	ug/L	2000	200		05/07/13 06:20	78-93-3	
n-Butylbenzene	ND	ug/L	200	200		05/07/13 06:20	104-51-8	
sec-Butylbenzene	ND	ug/L	200	200		05/07/13 06:20	135-98-8	
tert-Butylbenzene	ND	ug/L	200	200		05/07/13 06:20	98-06-6	
Carbon disulfide	ND	ug/L	1000	200		05/07/13 06:20	75-15-0	
Carbon tetrachloride	ND	ug/L	200	200		05/07/13 06:20	56-23-5	
Chlorobenzene	ND	ug/L	200	200		05/07/13 06:20	108-90-7	
Chloroethane	ND	ug/L	200	200		05/07/13 06:20	75-00-3	
Chloroform	ND	ug/L	200	200		05/07/13 06:20	67-66-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID:** 60143880006 Collected: 05/01/13 22:40 Received: 05/03/13 08:35 Matrix: Water
COMMINGLED S/VOA 11

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Chloromethane	ND	ug/L	200	200		05/07/13 06:20	74-87-3	
2-Chlorotoluene	ND	ug/L	200	200		05/07/13 06:20	95-49-8	
4-Chlorotoluene	ND	ug/L	200	200		05/07/13 06:20	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	500	200		05/07/13 06:20	96-12-8	
Dibromochloromethane	ND	ug/L	200	200		05/07/13 06:20	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	200	200		05/07/13 06:20	106-93-4	
Dibromomethane	ND	ug/L	200	200		05/07/13 06:20	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200	200		05/07/13 06:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200	200		05/07/13 06:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	200	200		05/07/13 06:20	106-46-7	
Dichlorodifluoromethane	ND	ug/L	200	200		05/07/13 06:20	75-71-8	
1,1-Dichloroethane	ND	ug/L	200	200		05/07/13 06:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	200	200		05/07/13 06:20	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	200	200		05/07/13 06:20	540-59-0	
1,1-Dichloroethene	ND	ug/L	200	200		05/07/13 06:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200	200		05/07/13 06:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	200		05/07/13 06:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	200	200		05/07/13 06:20	78-87-5	
1,3-Dichloropropane	ND	ug/L	200	200		05/07/13 06:20	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	200		05/07/13 06:20	594-20-7	
1,1-Dichloropropene	ND	ug/L	200	200		05/07/13 06:20	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	200		05/07/13 06:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	200		05/07/13 06:20	10061-02-6	
Ethylbenzene	ND	ug/L	200	200		05/07/13 06:20	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	200		05/07/13 06:20	87-68-3	
2-Hexanone	ND	ug/L	2000	200		05/07/13 06:20	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	200	200		05/07/13 06:20	98-82-8	
p-Isopropyltoluene	ND	ug/L	200	200		05/07/13 06:20	99-87-6	
Methylene chloride	ND	ug/L	200	200		05/07/13 06:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2000	200		05/07/13 06:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200	200		05/07/13 06:20	1634-04-4	
Naphthalene	ND	ug/L	2000	200		05/07/13 06:20	91-20-3	
n-Propylbenzene	ND	ug/L	200	200		05/07/13 06:20	103-65-1	
Styrene	ND	ug/L	200	200		05/07/13 06:20	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	200		05/07/13 06:20	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		05/07/13 06:20	79-34-5	
Tetrachloroethene	ND	ug/L	200	200		05/07/13 06:20	127-18-4	
Toluene	ND	ug/L	200	200		05/07/13 06:20	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200	200		05/07/13 06:20	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200	200		05/07/13 06:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200	200		05/07/13 06:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		05/07/13 06:20	79-00-5	
Trichloroethene	ND	ug/L	200	200		05/07/13 06:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	200	200		05/07/13 06:20	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	500	200		05/07/13 06:20	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	200	200		05/07/13 06:20	95-63-6	

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID:** 60143880006 Collected: 05/01/13 22:40 Received: 05/03/13 08:35 Matrix: Water
COMMINGLED S/VOA 11

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		05/07/13 06:20	108-67-8	
Vinyl chloride	ND	ug/L	200	200		05/07/13 06:20	75-01-4	
Xylene (Total)	ND	ug/L	600	200		05/07/13 06:20	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	97	%	80-120	200		05/07/13 06:20	460-00-4	
Dibromofluoromethane (S)	104	%	80-120	200		05/07/13 06:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	80-120	200		05/07/13 06:20	17060-07-0	
Toluene-d8 (S)	100	%	80-120	200		05/07/13 06:20	2037-26-5	
Preservation pH	1.0		0.10	200		05/07/13 06:20		

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID:** 60143880007 Collected: 05/01/13 23:00 Received: 05/03/13 08:35 Matrix: Water
COMMINGLED S/VOA 12

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	500	50	05/07/13 00:00	05/08/13 17:10	83-32-9	
Acenaphthylene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	208-96-8	
Anthracene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	120-12-7	
Benzo(a)anthracene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	56-55-3	
Benzo(a)pyrene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	207-08-9	
Benzoic acid	2990	ug/L	2500	50	05/07/13 00:00	05/08/13 17:10	65-85-0	
Benzyl alcohol	1630	ug/L	1000	50	05/07/13 00:00	05/08/13 17:10	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	101-55-3	
Butylbenzylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	85-68-7	
Carbazole	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1000	50	05/07/13 00:00	05/08/13 17:10	59-50-7	
4-Chloroaniline	ND	ug/L	1000	50	05/07/13 00:00	05/08/13 17:10	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	39638-32-9	
2-Chloronaphthalene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	91-58-7	
2-Chlorophenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	7005-72-3	
Chrysene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	53-70-3	
Dibenzofuran	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1000	50	05/07/13 00:00	05/08/13 17:10	91-94-1	L3
2,4-Dichlorophenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	120-83-2	
Diethylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	84-66-2	
2,4-Dimethylphenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	105-67-9	
Dimethylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	131-11-3	
Di-n-butylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 17:10	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 17:10	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	606-20-2	
Di-n-octylphthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	117-81-7	
Fluoranthene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	206-44-0	
Fluorene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	87-68-3	
Hexachlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	77-47-4	
Hexachloroethane	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	193-39-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID:** 60143880007 Collected: 05/01/13 23:00 Received: 05/03/13 08:35 Matrix: Water
COMMINGLED S/VOA 12

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	500	50	05/07/13 00:00	05/08/13 17:10	78-59-1	
2-Methylnaphthalene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	95-48-7	
3&4-Methylphenol(m&p Cresol)	2580	ug/L	500	50	05/07/13 00:00	05/08/13 17:10		
Naphthalene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	91-20-3	
2-Nitroaniline	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 17:10	88-74-4	
3-Nitroaniline	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 17:10	99-09-2	
4-Nitroaniline	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 17:10	100-01-6	
Nitrobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	98-95-3	
2-Nitrophenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	88-75-5	
4-Nitrophenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 17:10	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	86-30-6	
Pentachlorophenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 17:10	87-86-5	
Phenanthrene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	85-01-8	
Phenol	5190	ug/L	1000	100	05/07/13 00:00	05/09/13 10:55	108-95-2	
Pyrene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	129-00-0	
Pyridine	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2500	50	05/07/13 00:00	05/08/13 17:10	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	500	50	05/07/13 00:00	05/08/13 17:10	88-06-2	
Surrogates								
Nitrobenzene-d5 (S)	0 %		10-159	50	05/07/13 00:00	05/08/13 17:10	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		15-149	50	05/07/13 00:00	05/08/13 17:10	321-60-8	S4
Terphenyl-d14 (S)	0 %		25-142	50	05/07/13 00:00	05/08/13 17:10	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	50	05/07/13 00:00	05/08/13 17:10	13127-88-3	S4
2-Fluorophenol (S)	0 %		16-120	50	05/07/13 00:00	05/08/13 17:10	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		37-120	50	05/07/13 00:00	05/08/13 17:10	118-79-6	S4

8260 MSV Analytical Method: EPA 5030B/8260

Acetone	82000	ug/L	2000	200		05/07/13 06:35	67-64-1	
Benzene	480	ug/L	200	200		05/07/13 06:35	71-43-2	
Bromobenzene	ND	ug/L	200	200		05/07/13 06:35	108-86-1	
Bromochloromethane	ND	ug/L	200	200		05/07/13 06:35	74-97-5	
Bromodichloromethane	ND	ug/L	200	200		05/07/13 06:35	75-27-4	
Bromoform	ND	ug/L	200	200		05/07/13 06:35	75-25-2	
Bromomethane	ND	ug/L	1000	200		05/07/13 06:35	74-83-9	
2-Butanone (MEK)	32000	ug/L	2000	200		05/07/13 06:35	78-93-3	
n-Butylbenzene	ND	ug/L	200	200		05/07/13 06:35	104-51-8	
sec-Butylbenzene	ND	ug/L	200	200		05/07/13 06:35	135-98-8	
tert-Butylbenzene	ND	ug/L	200	200		05/07/13 06:35	98-06-6	
Carbon disulfide	ND	ug/L	1000	200		05/07/13 06:35	75-15-0	
Carbon tetrachloride	ND	ug/L	200	200		05/07/13 06:35	56-23-5	
Chlorobenzene	ND	ug/L	200	200		05/07/13 06:35	108-90-7	
Chloroethane	ND	ug/L	200	200		05/07/13 06:35	75-00-3	
Chloroform	ND	ug/L	200	200		05/07/13 06:35	67-66-3	

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID:** 60143880007 Collected: 05/01/13 23:00 Received: 05/03/13 08:35 Matrix: Water
COMMINGLED S/VOA 12

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 5030B/8260						
Chloromethane	ND	ug/L	200	200		05/07/13 06:35	74-87-3	
2-Chlorotoluene	ND	ug/L	200	200		05/07/13 06:35	95-49-8	
4-Chlorotoluene	ND	ug/L	200	200		05/07/13 06:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	500	200		05/07/13 06:35	96-12-8	
Dibromochloromethane	ND	ug/L	200	200		05/07/13 06:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	200	200		05/07/13 06:35	106-93-4	
Dibromomethane	ND	ug/L	200	200		05/07/13 06:35	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200	200		05/07/13 06:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200	200		05/07/13 06:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	200	200		05/07/13 06:35	106-46-7	
Dichlorodifluoromethane	ND	ug/L	200	200		05/07/13 06:35	75-71-8	
1,1-Dichloroethane	ND	ug/L	200	200		05/07/13 06:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	200	200		05/07/13 06:35	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	200	200		05/07/13 06:35	540-59-0	
1,1-Dichloroethene	ND	ug/L	200	200		05/07/13 06:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200	200		05/07/13 06:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200	200		05/07/13 06:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	200	200		05/07/13 06:35	78-87-5	
1,3-Dichloropropane	ND	ug/L	200	200		05/07/13 06:35	142-28-9	
2,2-Dichloropropane	ND	ug/L	200	200		05/07/13 06:35	594-20-7	
1,1-Dichloropropene	ND	ug/L	200	200		05/07/13 06:35	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200	200		05/07/13 06:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200	200		05/07/13 06:35	10061-02-6	
Ethylbenzene	ND	ug/L	200	200		05/07/13 06:35	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200	200		05/07/13 06:35	87-68-3	
2-Hexanone	ND	ug/L	2000	200		05/07/13 06:35	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	200	200		05/07/13 06:35	98-82-8	
p-Isopropyltoluene	ND	ug/L	200	200		05/07/13 06:35	99-87-6	
Methylene chloride	ND	ug/L	200	200		05/07/13 06:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2000	200		05/07/13 06:35	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200	200		05/07/13 06:35	1634-04-4	
Naphthalene	ND	ug/L	2000	200		05/07/13 06:35	91-20-3	
n-Propylbenzene	ND	ug/L	200	200		05/07/13 06:35	103-65-1	
Styrene	ND	ug/L	200	200		05/07/13 06:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200	200		05/07/13 06:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200	200		05/07/13 06:35	79-34-5	
Tetrachloroethene	ND	ug/L	200	200		05/07/13 06:35	127-18-4	
Toluene	ND	ug/L	200	200		05/07/13 06:35	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200	200		05/07/13 06:35	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200	200		05/07/13 06:35	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200	200		05/07/13 06:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200	200		05/07/13 06:35	79-00-5	
Trichloroethene	ND	ug/L	200	200		05/07/13 06:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	200	200		05/07/13 06:35	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	500	200		05/07/13 06:35	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	200	200		05/07/13 06:35	95-63-6	

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: UNTREATED **Lab ID:** 6014388007 Collected: 05/01/13 23:00 Received: 05/03/13 08:35 Matrix: Water
COMMINGLED S/VOA 12

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		05/07/13 06:35	108-67-8	
Vinyl chloride	ND	ug/L	200	200		05/07/13 06:35	75-01-4	
Xylene (Total)	ND	ug/L	600	200		05/07/13 06:35	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98	%	80-120	200		05/07/13 06:35	460-00-4	
Dibromofluoromethane (S)	106	%	80-120	200		05/07/13 06:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	110	%	80-120	200		05/07/13 06:35	17060-07-0	
Toluene-d8 (S)	99	%	80-120	200		05/07/13 06:35	2037-26-5	
Preservation pH	1.0		0.10	200		05/07/13 06:35		

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: TRIP BLANK	Lab ID: 60143880008	Collected: 05/01/13 00:00	Received: 05/03/13 08:35	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		05/07/13 02:29	67-64-1	
Benzene	ND ug/L		1.0	1		05/07/13 02:29	71-43-2	
Bromobenzene	ND ug/L		1.0	1		05/07/13 02:29	108-86-1	
Bromochloromethane	ND ug/L		1.0	1		05/07/13 02:29	74-97-5	
Bromodichloromethane	ND ug/L		1.0	1		05/07/13 02:29	75-27-4	
Bromoform	ND ug/L		1.0	1		05/07/13 02:29	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/07/13 02:29	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		05/07/13 02:29	78-93-3	
n-Butylbenzene	ND ug/L		1.0	1		05/07/13 02:29	104-51-8	
sec-Butylbenzene	ND ug/L		1.0	1		05/07/13 02:29	135-98-8	
tert-Butylbenzene	ND ug/L		1.0	1		05/07/13 02:29	98-06-6	
Carbon disulfide	ND ug/L		5.0	1		05/07/13 02:29	75-15-0	
Carbon tetrachloride	ND ug/L		1.0	1		05/07/13 02:29	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/07/13 02:29	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/07/13 02:29	75-00-3	
Chloroform	ND ug/L		1.0	1		05/07/13 02:29	67-66-3	
Chloromethane	ND ug/L		1.0	1		05/07/13 02:29	74-87-3	
2-Chlorotoluene	ND ug/L		1.0	1		05/07/13 02:29	95-49-8	
4-Chlorotoluene	ND ug/L		1.0	1		05/07/13 02:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND ug/L		2.5	1		05/07/13 02:29	96-12-8	
Dibromochloromethane	ND ug/L		1.0	1		05/07/13 02:29	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		1.0	1		05/07/13 02:29	106-93-4	
Dibromomethane	ND ug/L		1.0	1		05/07/13 02:29	74-95-3	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/07/13 02:29	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/07/13 02:29	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/07/13 02:29	106-46-7	
Dichlorodifluoromethane	ND ug/L		1.0	1		05/07/13 02:29	75-71-8	
1,1-Dichloroethane	ND ug/L		1.0	1		05/07/13 02:29	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/07/13 02:29	107-06-2	
1,2-Dichloroethene (Total)	ND ug/L		1.0	1		05/07/13 02:29	540-59-0	
1,1-Dichloroethene	ND ug/L		1.0	1		05/07/13 02:29	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/07/13 02:29	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/07/13 02:29	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		05/07/13 02:29	78-87-5	
1,3-Dichloropropane	ND ug/L		1.0	1		05/07/13 02:29	142-28-9	
2,2-Dichloropropane	ND ug/L		1.0	1		05/07/13 02:29	594-20-7	
1,1-Dichloropropene	ND ug/L		1.0	1		05/07/13 02:29	563-58-6	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		05/07/13 02:29	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		05/07/13 02:29	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		05/07/13 02:29	100-41-4	
Hexachloro-1,3-butadiene	ND ug/L		1.0	1		05/07/13 02:29	87-68-3	
2-Hexanone	ND ug/L		10.0	1		05/07/13 02:29	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		1.0	1		05/07/13 02:29	98-82-8	
p-Isopropyltoluene	ND ug/L		1.0	1		05/07/13 02:29	99-87-6	
Methylene chloride	ND ug/L		1.0	1		05/07/13 02:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		05/07/13 02:29	108-10-1	
Methyl-tert-butyl ether	ND ug/L		1.0	1		05/07/13 02:29	1634-04-4	

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ANALYTICAL RESULTS

Project: BRIDGETON LF

Pace Project No.: 60143880

Sample: TRIP BLANK		Lab ID: 60143880008	Collected: 05/01/13 00:00	Received: 05/03/13 08:35	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		05/07/13 02:29	91-20-3	
n-Propylbenzene	ND ug/L		1.0	1		05/07/13 02:29	103-65-1	
Styrene	ND ug/L		1.0	1		05/07/13 02:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		05/07/13 02:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/07/13 02:29	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/07/13 02:29	127-18-4	
Toluene	ND ug/L		1.0	1		05/07/13 02:29	108-88-3	
1,2,3-Trichlorobenzene	ND ug/L		1.0	1		05/07/13 02:29	87-61-6	
1,2,4-Trichlorobenzene	ND ug/L		1.0	1		05/07/13 02:29	120-82-1	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/07/13 02:29	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/07/13 02:29	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/07/13 02:29	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/07/13 02:29	75-69-4	
1,2,3-Trichloropropane	ND ug/L		2.5	1		05/07/13 02:29	96-18-4	
1,2,4-Trimethylbenzene	ND ug/L		1.0	1		05/07/13 02:29	95-63-6	
1,3,5-Trimethylbenzene	ND ug/L		1.0	1		05/07/13 02:29	108-67-8	
Vinyl chloride	ND ug/L		1.0	1		05/07/13 02:29	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/07/13 02:29	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	98 %		80-120	1		05/07/13 02:29	460-00-4	
Dibromofluoromethane (S)	105 %		80-120	1		05/07/13 02:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	109 %		80-120	1		05/07/13 02:29	17060-07-0	
Toluene-d8 (S)	97 %		80-120	1		05/07/13 02:29	2037-26-5	
Preservation pH	1.0		0.10	1		05/07/13 02:29		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF
Pace Project No.: 60143880

QC Batch: MSV/53450 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 60143880001

METHOD BLANK: 1182304 Matrix: Water
Associated Lab Samples: 60143880001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	05/07/13 15:29	
1,2-Dichloroethane	ug/L	ND	50.0	05/07/13 15:29	
2-Butanone (MEK)	ug/L	ND	1000	05/07/13 15:29	
Benzene	ug/L	ND	50.0	05/07/13 15:29	
Carbon tetrachloride	ug/L	ND	50.0	05/07/13 15:29	
Chlorobenzene	ug/L	ND	50.0	05/07/13 15:29	
Chloroform	ug/L	ND	200	05/07/13 15:29	
Tetrachloroethene	ug/L	ND	50.0	05/07/13 15:29	
Trichloroethene	ug/L	ND	50.0	05/07/13 15:29	
Vinyl chloride	ug/L	ND	100	05/07/13 15:29	
1,2-Dichloroethane-d4 (S)	%	100	80-120	05/07/13 15:29	
4-Bromofluorobenzene (S)	%	100	80-120	05/07/13 15:29	
Dibromofluoromethane (S)	%	100	80-120	05/07/13 15:29	
Toluene-d8 (S)	%	100	80-120	05/07/13 15:29	

LABORATORY CONTROL SAMPLE: 1182305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	1000	1070	107	70-127	
1,2-Dichloroethane	ug/L	1000	972	97	72-122	
2-Butanone (MEK)	ug/L	5000	5200	104	69-124	
Benzene	ug/L	1000	1010	101	73-122	
Carbon tetrachloride	ug/L	1000	1240	124	73-125	
Chlorobenzene	ug/L	1000	995	99	80-120	
Chloroform	ug/L	1000	1030	103	76-120	
Tetrachloroethene	ug/L	1000	1100	110	79-122	
Trichloroethene	ug/L	1000	1050	105	76-120	
Vinyl chloride	ug/L	1000	915	92	57-140	
1,2-Dichloroethane-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Dibromofluoromethane (S)	%			105	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1182306

Parameter	Units	60143822001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	1000	972	97	66-142	
1,2-Dichloroethane	ug/L	ND	1000	1010	101	53-144	
2-Butanone (MEK)	ug/L	ND	5000	5440	108	54-127	
Benzene	ug/L	ND	1000	984	98	48-150	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF

Pace Project No.: 60143880

MATRIX SPIKE SAMPLE:		1182306					
Parameter	Units	60143822001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	ND	1000	1130	113	68-145	
Chlorobenzene	ug/L	ND	1000	996	100	68-131	
Chloroform	ug/L	ND	1000	1020	102	69-126	
Tetrachloroethene	ug/L	ND	1000	1010	101	66-139	
Trichloroethene	ug/L	ND	1000	974	97	67-130	
Vinyl chloride	ug/L	ND	1000	812	81	47-159	
1,2-Dichloroethane-d4 (S)	%				100	80-120	
4-Bromofluorobenzene (S)	%				101	80-120	
Dibromofluoromethane (S)	%				107	80-120	
Toluene-d8 (S)	%				100	80-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF

Pace Project No.: 60143880

QC Batch: MSV/53411 Analysis Method: EPA 5030B/8260
 QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
 Associated Lab Samples: 60143880004, 60143880005, 60143880006, 60143880007, 60143880008

METHOD BLANK: 1181724 Matrix: Water

Associated Lab Samples: 60143880004, 60143880005, 60143880006, 60143880007, 60143880008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/07/13 02:00	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/07/13 02:00	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/07/13 02:00	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/07/13 02:00	
1,1-Dichloroethane	ug/L	ND	1.0	05/07/13 02:00	
1,1-Dichloroethene	ug/L	ND	1.0	05/07/13 02:00	
1,1-Dichloropropene	ug/L	ND	1.0	05/07/13 02:00	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/07/13 02:00	
1,2,3-Trichloropropane	ug/L	ND	2.5	05/07/13 02:00	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/07/13 02:00	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/07/13 02:00	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	05/07/13 02:00	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/07/13 02:00	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/07/13 02:00	
1,2-Dichloroethane	ug/L	ND	1.0	05/07/13 02:00	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	05/07/13 02:00	
1,2-Dichloropropane	ug/L	ND	1.0	05/07/13 02:00	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/07/13 02:00	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/07/13 02:00	
1,3-Dichloropropane	ug/L	ND	1.0	05/07/13 02:00	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/07/13 02:00	
2,2-Dichloropropane	ug/L	ND	1.0	05/07/13 02:00	
2-Butanone (MEK)	ug/L	ND	10.0	05/07/13 02:00	
2-Chlorotoluene	ug/L	ND	1.0	05/07/13 02:00	
2-Hexanone	ug/L	ND	10.0	05/07/13 02:00	
4-Chlorotoluene	ug/L	ND	1.0	05/07/13 02:00	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/07/13 02:00	
Acetone	ug/L	ND	10.0	05/07/13 02:00	
Benzene	ug/L	ND	1.0	05/07/13 02:00	
Bromobenzene	ug/L	ND	1.0	05/07/13 02:00	
Bromochloromethane	ug/L	ND	1.0	05/07/13 02:00	
Bromodichloromethane	ug/L	ND	1.0	05/07/13 02:00	
Bromoform	ug/L	ND	1.0	05/07/13 02:00	
Bromomethane	ug/L	ND	5.0	05/07/13 02:00	
Carbon disulfide	ug/L	ND	5.0	05/07/13 02:00	
Carbon tetrachloride	ug/L	ND	1.0	05/07/13 02:00	
Chlorobenzene	ug/L	ND	1.0	05/07/13 02:00	
Chloroethane	ug/L	ND	1.0	05/07/13 02:00	
Chloroform	ug/L	ND	1.0	05/07/13 02:00	
Chloromethane	ug/L	ND	1.0	05/07/13 02:00	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/07/13 02:00	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/07/13 02:00	
Dibromochloromethane	ug/L	ND	1.0	05/07/13 02:00	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF

Pace Project No.: 60143880

METHOD BLANK: 1181724

Matrix: Water

Associated Lab Samples: 60143880004, 60143880005, 60143880006, 60143880007, 60143880008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	05/07/13 02:00	
Dichlorodifluoromethane	ug/L	ND	1.0	05/07/13 02:00	
Ethylbenzene	ug/L	ND	1.0	05/07/13 02:00	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/07/13 02:00	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/07/13 02:00	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/07/13 02:00	
Methylene chloride	ug/L	ND	1.0	05/07/13 02:00	
n-Butylbenzene	ug/L	ND	1.0	05/07/13 02:00	
n-Propylbenzene	ug/L	ND	1.0	05/07/13 02:00	
Naphthalene	ug/L	ND	10.0	05/07/13 02:00	
p-Isopropyltoluene	ug/L	ND	1.0	05/07/13 02:00	
sec-Butylbenzene	ug/L	ND	1.0	05/07/13 02:00	
Styrene	ug/L	ND	1.0	05/07/13 02:00	
tert-Butylbenzene	ug/L	ND	1.0	05/07/13 02:00	
Tetrachloroethene	ug/L	ND	1.0	05/07/13 02:00	
Toluene	ug/L	ND	1.0	05/07/13 02:00	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/07/13 02:00	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/07/13 02:00	
Trichloroethene	ug/L	ND	1.0	05/07/13 02:00	
Trichlorofluoromethane	ug/L	ND	1.0	05/07/13 02:00	
Vinyl chloride	ug/L	ND	1.0	05/07/13 02:00	
Xylene (Total)	ug/L	ND	3.0	05/07/13 02:00	
1,2-Dichloroethane-d4 (S)	%	109	80-120	05/07/13 02:00	
4-Bromofluorobenzene (S)	%	99	80-120	05/07/13 02:00	
Dibromofluoromethane (S)	%	101	80-120	05/07/13 02:00	
Toluene-d8 (S)	%	100	80-120	05/07/13 02:00	

LABORATORY CONTROL SAMPLE: 1181725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.7	103	79-121	
1,1,1-Trichloroethane	ug/L	20	20.9	104	75-124	
1,1,2,2-Tetrachloroethane	ug/L	20	20.2	101	73-120	
1,1,2-Trichloroethane	ug/L	20	20.2	101	76-120	
1,1-Dichloroethane	ug/L	20	18.8	94	73-120	
1,1-Dichloroethene	ug/L	20	21.3	107	70-127	
1,1-Dichloropropene	ug/L	20	20.0	100	79-124	
1,2,3-Trichlorobenzene	ug/L	20	21.5	108	68-130	
1,2,3-Trichloropropane	ug/L	20	20.8	104	72-124	
1,2,4-Trichlorobenzene	ug/L	20	21.2	106	73-125	
1,2,4-Trimethylbenzene	ug/L	20	19.4	97	76-120	
1,2-Dibromo-3-chloropropane	ug/L	20	22.4	112	68-126	
1,2-Dibromoethane (EDB)	ug/L	20	22.7	114	79-121	
1,2-Dichlorobenzene	ug/L	20	20.6	103	79-120	
1,2-Dichloroethane	ug/L	20	22.4	112	72-122	

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QUALITY CONTROL DATA

Project: BRIDGETON LF

Pace Project No.: 60143880

LABORATORY CONTROL SAMPLE: 1181725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	39.8	99	77-120	
1,2-Dichloropropane	ug/L	20	20.5	102	77-120	
1,3,5-Trimethylbenzene	ug/L	20	19.5	98	75-120	
1,3-Dichlorobenzene	ug/L	20	19.1	96	80-120	
1,3-Dichloropropane	ug/L	20	20.7	104	76-120	
1,4-Dichlorobenzene	ug/L	20	19.8	99	80-120	
2,2-Dichloropropane	ug/L	20	16.6	83	52-135	
2-Butanone (MEK)	ug/L	100	113	113	69-124	
2-Chlorotoluene	ug/L	20	18.6	93	78-120	
2-Hexanone	ug/L	100	111	111	70-125	
4-Chlorotoluene	ug/L	20	19.0	95	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	114	114	72-123	
Acetone	ug/L	100	109	109	60-126	
Benzene	ug/L	20	19.8	99	73-122	
Bromobenzene	ug/L	20	20.2	101	79-120	
Bromochloromethane	ug/L	20	22.6	113	76-125	
Bromodichloromethane	ug/L	20	20.9	105	73-120	
Bromoform	ug/L	20	19.7	98	74-120	
Bromomethane	ug/L	20	14.8	74	40-146	
Carbon disulfide	ug/L	20	17.8	89	62-125	
Carbon tetrachloride	ug/L	20	20.5	102	73-125	
Chlorobenzene	ug/L	20	19.5	98	80-120	
Chloroethane	ug/L	20	20.2	101	56-159	
Chloroform	ug/L	20	20.0	100	76-120	
Chloromethane	ug/L	20	15.3	77	40-148	
cis-1,2-Dichloroethene	ug/L	20	20.0	100	69-120	
cis-1,3-Dichloropropene	ug/L	20	19.5	98	76-120	
Dibromochloromethane	ug/L	20	20.9	104	79-121	
Dibromomethane	ug/L	20	22.2	111	77-120	
Dichlorodifluoromethane	ug/L	20	15.1	75	40-141	
Ethylbenzene	ug/L	20	19.8	99	76-123	
Hexachloro-1,3-butadiene	ug/L	20	20.3	101	69-125	
Isopropylbenzene (Cumene)	ug/L	20	21.7	109	80-130	
Methyl-tert-butyl ether	ug/L	20	22.9	114	67-128	
Methylene chloride	ug/L	20	20.3	102	71-123	
n-Butylbenzene	ug/L	20	19.6	98	77-124	
n-Propylbenzene	ug/L	20	19.5	97	78-120	
Naphthalene	ug/L	20	21.2	106	64-127	
p-Isopropyltoluene	ug/L	20	19.5	97	78-120	
sec-Butylbenzene	ug/L	20	19.5	97	77-122	
Styrene	ug/L	20	20.1	100	79-120	
tert-Butylbenzene	ug/L	20	19.5	97	76-123	
Tetrachloroethene	ug/L	20	19.7	98	79-122	
Toluene	ug/L	20	19.4	97	76-122	
trans-1,2-Dichloroethene	ug/L	20	19.8	99	78-126	
trans-1,3-Dichloropropene	ug/L	20	21.9	109	79-124	
Trichloroethene	ug/L	20	19.6	98	76-120	
Trichlorofluoromethane	ug/L	20	19.9	100	69-133	

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QUALITY CONTROL DATA

Project: BRIDGETON LF

Pace Project No.: 60143880

LABORATORY CONTROL SAMPLE: 1181725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	17.6	88	57-140	
Xylene (Total)	ug/L	60	60.6	101	76-122	
1,2-Dichloroethane-d4 (S)	%			111	80-120	
4-Bromofluorobenzene (S)	%			97	80-120	
Dibromofluoromethane (S)	%			107	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1181726 1181727

Parameter	60143442006		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.4	19.7	97	99	70-127	2	20	
1,1,1-Trichloroethane	ug/L	ND	20	20	20.9	20.9	105	105	72-139	0	22	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.5	19.1	97	96	63-126	2	20	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.5	18.8	92	94	70-121	2	24	
1,1-Dichloroethane	ug/L	ND	20	20	18.9	18.6	94	93	68-125	2	20	
1,1-Dichloroethene	ug/L	ND	20	20	21.1	22.0	105	110	66-142	5	22	
1,1-Dichloropropene	ug/L	ND	20	20	20.7	21.0	103	105	70-144	2	20	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20.2	20.6	101	103	56-133	2	35	
1,2,3-Trichloropropane	ug/L	ND	20	20	18.0	18.7	90	94	66-123	4	20	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.7	20.0	99	100	60-129	2	26	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	18.7	18.1	93	91	51-138	3	25	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	18.7	20.8	94	104	58-130	10	26	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.8	20.0	104	100	56-138	4	28	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.4	19.2	97	96	69-123	1	20	
1,2-Dichloroethane	ug/L	ND	20	20	21.2	20.9	106	105	53-144	1	27	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	39.5	39.3	99	98	67-137	1	20	
1,2-Dichloropropane	ug/L	ND	20	20	19.4	19.8	97	99	72-126	2	20	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.0	18.7	95	94	51-138	2	25	
1,3-Dichlorobenzene	ug/L	ND	20	20	18.6	17.9	93	90	67-123	4	22	
1,3-Dichloropropane	ug/L	ND	20	20	19.3	19.2	97	96	70-120	1	20	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.9	18.6	94	93	68-125	1	22	
2,2-Dichloropropane	ug/L	ND	20	20	14.2	14.3	71	71	40-150	0	20	
2-Butanone (MEK)	ug/L	ND	100	100	102	104	102	104	54-127	2	20	
2-Chlorotoluene	ug/L	ND	20	20	18.4	18.1	92	91	68-123	2	20	
2-Hexanone	ug/L	ND	100	100	102	102	102	102	55-127	0	20	
4-Chlorotoluene	ug/L	ND	20	20	18.7	18.8	94	94	70-124	0	21	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	102	105	102	105	61-127	3	20	
Acetone	ug/L	29.3	100	100	126	135	97	106	40-139	7	24	
Benzene	ug/L	ND	20	20	19.1	19.4	96	97	48-150	1	31	
Bromobenzene	ug/L	ND	20	20	19.5	18.9	98	95	68-126	3	20	
Bromochloromethane	ug/L	ND	20	20	21.1	20.7	106	103	71-130	2	20	
Bromodichloromethane	ug/L	ND	20	20	19.8	19.3	99	96	66-123	3	20	
Bromoform	ug/L	ND	20	20	18.0	18.6	88	91	64-122	3	21	
Bromomethane	ug/L	ND	20	20	17.0	19.0	85	95	40-146	11	37	
Carbon disulfide	ug/L	ND	20	20	19.8	20.6	93	97	57-137	4	22	
Carbon tetrachloride	ug/L	ND	20	20	20.8	20.8	104	104	68-145	0	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF

Pace Project No.: 60143880

Parameter	60143442006		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec							
Chlorobenzene	ug/L	ND	20	20	18.9	19.5	95	97	68-131	3	22				
Chloroethane	ug/L	ND	20	20	20.9	20.2	104	101	49-160	3	24				
Chloroform	ug/L	ND	20	20	18.9	19.7	95	99	69-126	4	20				
Chloromethane	ug/L	ND	20	20	18.1	18.8	90	94	40-148	4	24				
cis-1,2-Dichloroethene	ug/L		20	20	19.9	19.8	100	99	63-127	1	20				
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.2	18.7	91	93	65-121	3	20				
Dibromochloromethane	ug/L	ND	20	20	19.6	19.3	98	96	70-125	2	20				
Dibromomethane	ug/L	ND	20	20	21.4	20.2	107	101	68-125	6	20				
Dichlorodifluoromethane	ug/L	ND	20	20	16.8	16.4	84	82	40-143	2	25				
Ethylbenzene	ug/L	ND	20	20	19.2	19.1	96	96	50-147	0	31				
Hexachloro-1,3-butadiene	ug/L	ND	20	20	20.0	19.7	100	98	56-137	2	27				
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.5	20.9	108	105	75-143	3	20				
Methyl-tert-butyl ether	ug/L	ND	20	20	21.3	21.8	106	109	46-143	2	29				
Methylene chloride	ug/L	ND	20	20	18.8	18.6	94	93	67-128	1	20				
n-Butylbenzene	ug/L	ND	20	20	19.7	19.2	99	96	61-137	3	21				
n-Propylbenzene	ug/L	ND	20	20	19.7	19.1	99	95	63-132	3	20				
Naphthalene	ug/L	ND	20	20	20.0	20.5	100	102	40-140	2	33				
p-Isopropyltoluene	ug/L	ND	20	20	19.2	18.8	96	94	65-132	2	20				
sec-Butylbenzene	ug/L	ND	20	20	19.2	19.2	96	96	67-134	0	20				
Styrene	ug/L	ND	20	20	19.2	19.1	96	95	58-133	0	21				
tert-Butylbenzene	ug/L	ND	20	20	19.3	18.9	97	94	70-132	2	21				
Tetrachloroethene	ug/L	ND	20	20	19.8	20.0	99	100	66-139	1	20				
Toluene	ug/L	ND	20	20	19.0	19.5	95	97	51-147	2	32				
trans-1,2-Dichloroethene	ug/L		20	20	19.6	19.5	98	98	73-142	0	20				
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.5	19.5	98	98	68-126	0	20				
Trichloroethene	ug/L	ND	20	20	18.4	19.0	92	95	67-130	3	20				
Trichlorofluoromethane	ug/L	ND	20	20	20.5	20.8	102	104	63-150	2	21				
Vinyl chloride	ug/L	ND	20	20	19.1	19.0	95	95	47-159	0	20				
Xylene (Total)	ug/L	ND	60	60	58.0	57.5	97	96	49-145	1	31				
1,2-Dichloroethane-d4 (S)	%						106	113	80-120						
4-Bromofluorobenzene (S)	%						97	98	80-120						
Dibromofluoromethane (S)	%						104	105	80-120						
Toluene-d8 (S)	%						98	99	80-120						
Preservation pH		1.0			1.0	1.0							0		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF

Pace Project No.: 60143880

QC Batch: OEXT/38261

Analysis Method: EPA 8270

QC Batch Method: EPA 3510

Analysis Description: 8270 Water MSSV

Associated Lab Samples: 60143880004, 60143880005, 60143880006, 60143880007

METHOD BLANK: 1181961

Matrix: Water

Associated Lab Samples: 60143880004, 60143880005, 60143880006, 60143880007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	05/08/13 13:43	
1,2-Dichlorobenzene	ug/L	ND	10.0	05/08/13 13:43	
1,3-Dichlorobenzene	ug/L	ND	10.0	05/08/13 13:43	
1,4-Dichlorobenzene	ug/L	ND	10.0	05/08/13 13:43	
2,4,5-Trichlorophenol	ug/L	ND	50.0	05/08/13 13:43	
2,4,6-Trichlorophenol	ug/L	ND	10.0	05/08/13 13:43	
2,4-Dichlorophenol	ug/L	ND	10.0	05/08/13 13:43	
2,4-Dimethylphenol	ug/L	ND	10.0	05/08/13 13:43	
2,4-Dinitrophenol	ug/L	ND	50.0	05/08/13 13:43	
2,4-Dinitrotoluene	ug/L	ND	10.0	05/08/13 13:43	
2,6-Dinitrotoluene	ug/L	ND	10.0	05/08/13 13:43	
2-Chloronaphthalene	ug/L	ND	10.0	05/08/13 13:43	
2-Chlorophenol	ug/L	ND	10.0	05/08/13 13:43	
2-Methylnaphthalene	ug/L	ND	10.0	05/08/13 13:43	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	05/08/13 13:43	
2-Nitroaniline	ug/L	ND	50.0	05/08/13 13:43	
2-Nitrophenol	ug/L	ND	10.0	05/08/13 13:43	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	05/08/13 13:43	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	05/08/13 13:43	
3-Nitroaniline	ug/L	ND	50.0	05/08/13 13:43	
4,6-Dinitro-2-methylphenol	ug/L	ND	50.0	05/08/13 13:43	
4-Bromophenylphenyl ether	ug/L	ND	10.0	05/08/13 13:43	
4-Chloro-3-methylphenol	ug/L	ND	20.0	05/08/13 13:43	
4-Chloroaniline	ug/L	ND	20.0	05/08/13 13:43	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	05/08/13 13:43	
4-Nitroaniline	ug/L	ND	50.0	05/08/13 13:43	
4-Nitrophenol	ug/L	ND	50.0	05/08/13 13:43	
Acenaphthene	ug/L	ND	10.0	05/08/13 13:43	
Acenaphthylene	ug/L	ND	10.0	05/08/13 13:43	
Anthracene	ug/L	ND	10.0	05/08/13 13:43	
Benzo(a)anthracene	ug/L	ND	10.0	05/08/13 13:43	
Benzo(a)pyrene	ug/L	ND	10.0	05/08/13 13:43	
Benzo(b)fluoranthene	ug/L	ND	10.0	05/08/13 13:43	
Benzo(g,h,i)perylene	ug/L	ND	10.0	05/08/13 13:43	
Benzo(k)fluoranthene	ug/L	ND	10.0	05/08/13 13:43	
Benzoic acid	ug/L	ND	50.0	05/08/13 13:43	
Benzyl alcohol	ug/L	ND	20.0	05/08/13 13:43	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	05/08/13 13:43	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	05/08/13 13:43	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	05/08/13 13:43	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	05/08/13 13:43	
Butylbenzylphthalate	ug/L	ND	10.0	05/08/13 13:43	
Carbazole	ug/L	ND	10.0	05/08/13 13:43	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF

Pace Project No.: 60143880

METHOD BLANK: 1181961

Matrix: Water

Associated Lab Samples: 60143880004, 60143880005, 60143880006, 60143880007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chrysene	ug/L	ND	10.0	05/08/13 13:43	
Di-n-butylphthalate	ug/L	ND	10.0	05/08/13 13:43	
Di-n-octylphthalate	ug/L	ND	10.0	05/08/13 13:43	
Dibenz(a,h)anthracene	ug/L	ND	10.0	05/08/13 13:43	
Dibenzofuran	ug/L	ND	10.0	05/08/13 13:43	
Diethylphthalate	ug/L	ND	10.0	05/08/13 13:43	
Dimethylphthalate	ug/L	ND	10.0	05/08/13 13:43	
Fluoranthene	ug/L	ND	10.0	05/08/13 13:43	
Fluorene	ug/L	ND	10.0	05/08/13 13:43	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	05/08/13 13:43	
Hexachlorobenzene	ug/L	ND	10.0	05/08/13 13:43	
Hexachlorocyclopentadiene	ug/L	ND	10.0	05/08/13 13:43	
Hexachloroethane	ug/L	ND	10.0	05/08/13 13:43	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	05/08/13 13:43	
Isophorone	ug/L	ND	10.0	05/08/13 13:43	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	05/08/13 13:43	
N-Nitrosodiphenylamine	ug/L	ND	10.0	05/08/13 13:43	
Naphthalene	ug/L	ND	10.0	05/08/13 13:43	
Nitrobenzene	ug/L	ND	10.0	05/08/13 13:43	
Pentachlorophenol	ug/L	ND	50.0	05/08/13 13:43	
Phenanthrene	ug/L	ND	10.0	05/08/13 13:43	
Phenol	ug/L	ND	10.0	05/08/13 13:43	
Pyrene	ug/L	ND	10.0	05/08/13 13:43	
Pyridine	ug/L	ND	10.0	05/08/13 13:43	
2,4,6-Tribromophenol (S)	%	77	37-120	05/08/13 13:43	
2-Fluorobiphenyl (S)	%	82	15-149	05/08/13 13:43	
2-Fluorophenol (S)	%	41	16-120	05/08/13 13:43	
Nitrobenzene-d5 (S)	%	79	10-159	05/08/13 13:43	
Phenol-d6 (S)	%	25	12-120	05/08/13 13:43	
Terphenyl-d14 (S)	%	96	25-142	05/08/13 13:43	

LABORATORY CONTROL SAMPLE: 1181962

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	39.2	78	45-120	
1,2-Dichlorobenzene	ug/L	50	39.6	79	43-120	
1,3-Dichlorobenzene	ug/L	50	38.9	78	42-120	
1,4-Dichlorobenzene	ug/L	50	39.3	79	42-120	
2,4,5-Trichlorophenol	ug/L	50	41.2J	82	52-120	
2,4,6-Trichlorophenol	ug/L	50	41.7	83	52-120	
2,4-Dichlorophenol	ug/L	50	39.6	79	50-120	
2,4-Dimethylphenol	ug/L	50	36.2	72	37-120	
2,4-Dinitrophenol	ug/L	50	47.8J	96	37-138	
2,4-Dinitrotoluene	ug/L	50	46.9	94	59-120	
2,6-Dinitrotoluene	ug/L	50	46.2	92	58-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF

Pace Project No.: 60143880

LABORATORY CONTROL SAMPLE: 1181962

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloronaphthalene	ug/L	50	41.3	83	51-120	
2-Chlorophenol	ug/L	50	37.1	74	46-120	
2-Methylnaphthalene	ug/L	50	40.9	82	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	32.0	64	38-120	
2-Nitroaniline	ug/L	50	43.7J	87	54-120	
2-Nitrophenol	ug/L	50	43.0	86	48-120	
3&4-Methylphenol(m&p Cresol)	ug/L	50	29.0	58	33-120	
3,3'-Dichlorobenzidine	ug/L	50	115	229	16-160	L0
3-Nitroaniline	ug/L	50	62.8	126	55-152	
4,6-Dinitro-2-methylphenol	ug/L	50	38.9J	78	50-122	
4-Bromophenylphenyl ether	ug/L	50	43.7	87	58-120	
4-Chloro-3-methylphenol	ug/L	50	39.9	80	52-120	
4-Chloroaniline	ug/L	50	62.2	124	27-160	
4-Chlorophenylphenyl ether	ug/L	50	43.1	86	57-120	
4-Nitroaniline	ug/L	50	46.5J	93	55-152	
4-Nitrophenol	ug/L	50	15.3J	31	10-120	
Acenaphthene	ug/L	50	42.2	84	54-120	
Acenaphthylene	ug/L	50	42.6	85	54-120	
Anthracene	ug/L	50	45.4	91	59-120	
Benzo(a)anthracene	ug/L	50	47.5	95	59-120	
Benzo(a)pyrene	ug/L	50	49.5	99	57-120	
Benzo(b)fluoranthene	ug/L	50	48.8	98	58-120	
Benzo(g,h,i)perylene	ug/L	50	49.2	98	59-120	
Benzo(k)fluoranthene	ug/L	50	50.5	101	59-120	
Benzoic acid	ug/L	50	ND	16	10-120	
Benzyl alcohol	ug/L	50	29.6	59	45-120	
bis(2-Chloroethoxy)methane	ug/L	50	41.3	83	53-120	
bis(2-Chloroethyl) ether	ug/L	50	41.2	82	50-120	
bis(2-Chloroisopropyl) ether	ug/L	50	41.8	84	47-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	48.8	98	58-120	
Butylbenzylphthalate	ug/L	50	46.3	93	55-120	
Carbazole	ug/L	50	45.8	92	61-120	
Chrysene	ug/L	50	46.6	93	60-120	
Di-n-butylphthalate	ug/L	50	47.6	95	60-120	
Di-n-octylphthalate	ug/L	50	44.9	90	54-122	
Dibenz(a,h)anthracene	ug/L	50	49.0	98	59-120	
Dibenzofuran	ug/L	50	42.8	86	56-120	
Diethylphthalate	ug/L	50	44.0	88	58-120	
Dimethylphthalate	ug/L	50	44.3	89	58-120	
Fluoranthene	ug/L	50	48.0	96	59-120	
Fluorene	ug/L	50	43.8	88	57-120	
Hexachloro-1,3-butadiene	ug/L	50	39.3	79	42-120	
Hexachlorobenzene	ug/L	50	45.0	90	58-120	
Hexachlorocyclopentadiene	ug/L	100	64.9	65	29-120	
Hexachloroethane	ug/L	50	38.2	76	39-120	
Indeno(1,2,3-cd)pyrene	ug/L	50	46.1	92	58-120	
Isophorone	ug/L	50	42.2	84	52-120	
N-Nitroso-di-n-propylamine	ug/L	50	41.7	83	48-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF

Pace Project No.: 60143880

LABORATORY CONTROL SAMPLE: 1181962

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
N-Nitrosodiphenylamine	ug/L	50	42.9	86	56-120	
Naphthalene	ug/L	50	40.5	81	49-120	
Nitrobenzene	ug/L	50	41.9	84	47-120	
Pentachlorophenol	ug/L	50	43.2J	86	45-120	
Phenanthrene	ug/L	50	44.5	89	60-120	
Phenol	ug/L	50	13.9	28	15-120	
Pyrene	ug/L	50	47.3	95	59-120	
Pyridine	ug/L	50	16.8	34	10-120	
2,4,6-Tribromophenol (S)	%			98	37-120	
2-Fluorobiphenyl (S)	%			85	15-149	
2-Fluorophenol (S)	%			43	16-120	
Nitrobenzene-d5 (S)	%			83	10-159	
Phenol-d6 (S)	%			27	12-120	
Terphenyl-d14 (S)	%			94	25-142	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF

Pace Project No.: 60143880

QC Batch: WET/41160

Analysis Method: SM 2540B

QC Batch Method: SM 2540B

Analysis Description: 2540B Total Solids

Associated Lab Samples: 60143880003

METHOD BLANK: 1183185

Matrix: Water

Associated Lab Samples: 60143880003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	5.0	05/08/13 15:50	

LABORATORY CONTROL SAMPLE: 1183186

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	1000	979	98	80-120	

SAMPLE DUPLICATE: 1183187

Parameter	Units	60144016001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	17800	17900	1	10	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF
Pace Project No.: 60143880

QC Batch: WETA/24600 Analysis Method: EPA 9060
QC Batch Method: EPA 9060 Analysis Description: 9060 TOC
Associated Lab Samples: 60143880002

METHOD BLANK: 1183450 Matrix: Water
Associated Lab Samples: 60143880002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	ND	1.0	05/09/13 15:15	
Total Organic Carbon	mg/L	ND	1.0	05/09/13 15:15	
Total Organic Carbon	mg/L	ND	1.0	05/09/13 15:15	
Total Organic Carbon	mg/L	ND	1.0	05/09/13 15:15	
Total Organic Carbon	mg/L	ND	1.0	05/09/13 15:15	

LABORATORY CONTROL SAMPLE: 1183451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	5	4.5	91		
Total Organic Carbon	mg/L	5	4.4	88	84-120	
Total Organic Carbon	mg/L	5	4.7	93	84-120	
Total Organic Carbon	mg/L	5	4.4	89	84-120	
Total Organic Carbon	mg/L	5	4.6	93	84-120	

MATRIX SPIKE SAMPLE: 1184949

Parameter	Units	60143880002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	13500	5000	18800	106		
Total Organic Carbon	mg/L	13600	5000	18700	102	59-144	
Total Organic Carbon	mg/L	14000	5000	18900	98	59-144	
Total Organic Carbon	mg/L	13200	5000	18800	112	59-144	
Total Organic Carbon	mg/L	13100	5000	18600	110	59-144	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF

Pace Project No.: 60143880

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/38261

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

ANALYTE QUALIFIERS

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

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: BRIDGETON LF
Pace Project No.: 60143880

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60143880004	UNTREATED COMMINGLED S/VOA 9	EPA 3510	OEXT/38261	EPA 8270	MSSV/12094
60143880005	UNTREATED COMMINGLED S/VOA 10	EPA 3510	OEXT/38261	EPA 8270	MSSV/12094
60143880006	UNTREATED COMMINGLED S/VOA 11	EPA 3510	OEXT/38261	EPA 8270	MSSV/12094
60143880007	UNTREATED COMMINGLED S/VOA 12	EPA 3510	OEXT/38261	EPA 8270	MSSV/12094
60143880001	UNTREATED COMMINGLEDTCLP05/01	EPA 8260	MSV/53450		
60143880004	UNTREATED COMMINGLED S/VOA 9	EPA 5030B/8260	MSV/53411		
60143880005	UNTREATED COMMINGLED S/VOA 10	EPA 5030B/8260	MSV/53411		
60143880006	UNTREATED COMMINGLED S/VOA 11	EPA 5030B/8260	MSV/53411		
60143880007	UNTREATED COMMINGLED S/VOA 12	EPA 5030B/8260	MSV/53411		
60143880008	TRIP BLANK	EPA 5030B/8260	MSV/53411		
60143880003	UNTREATED COMMINGLED SLDS05/01	SM 2540B	WET/41160		
60143880002	UNTREATED COMMINGLED TOC05/01	EPA 9060	WETA/24600		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60143880



Client Name: Bridgeton

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 803042944435 Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other 2PIC

Thermometer Used: T-112 / T-194

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

Cooler Temperature: 4.0

Date and initials of person examining contents: MS-3-13

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 3-13



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1
1635575

Section A Required Client Information: Company: Bridgeton L.F., Address: 13570 St. Charles Rock Rd., Email To: cgalbraith@barr.com, Requested Due Date/TAT: 5 Day 5/3/13

Section B Required Project Information: Report To: Ed Galbraith, Copy To: Scott C. Fedak, Project Name: - - - -, Project Number: - - - -

Section C Invoice Information: Attention: - - - -, Company Name: Bridgeton L.F., Address: 13570 St. Charles Rock Rd., Site Location STATE: MO

REGULATORY AGENCY: NPDES, GROUND WATER, DRINKING WATER, UST, RCRA, OTHER

Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / . -), Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

Table with columns: COLLECTED (COMPOSITE START, COMPOSITE END/GRAB), SAMPLE TEMP AT COLLECTION, # OF CONTAINERS

Table with columns: Preservatives (Unpreserved, H2SO4, HNO3, HCl, NaOH, Na2S2O3, Methanol, Other)

Table with columns: Requested Analysis Filtered (Y/N) for parameters like TOC, VOCs, etc.

Residual Chlorine (Y/N), Pace Project No./ Lab I.D. (e.g., 3D094H WGF4 C01)

Table with columns: ADDITIONAL COMMENTS, RELINQUISHED BY / AFFILIATION, DATE, TIME, ACCEPTED BY / AFFILIATION, DATE, TIME, SAMPLE CONDITIONS

Page 42 of 42, ORIGINAL

SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: Scott C. Fedak, SIGNATURE of SAMPLER: Scott C. Fedak, DATE Signed (MM/DD/YYYY): 05/02/2013

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

May 16, 2013

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

RE: Project: BRIDGETON LF 94-MSD
Pace Project No.: 60144068

Dear Ed Galbraith:

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

Amended report revised 05/16/13 to include total Xylene for the associated method blank and laboratory control sample for method EPA 624.

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 94-MSD

Pace Project No.: 60144068

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA Certification #: 2456.01

Arkansas Certification #: 12-019-0

Illinois Certification #: 002885

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-12-3

Utah Certification #: KS000212012-2

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60144068001	BATCH 94-MSD	Water	05/07/13 08:00	05/08/13 08:30
60144068002	TRIP BLANK	Water	05/07/13 08:00	05/08/13 08:30

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60144068001	BATCH 94-MSD	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	JKL	38
		EPA 1664A	JMC1	1
		SM 2540D	RAS	1
		SM 4500-H+B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
60144068002	TRIP BLANK	EPA 624 Low	JKL	38

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PROJECT NARRATIVE

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Method: EPA 200.7

Description: 200.7 Metals, Total

Client: Barr Engineering Company

Date: May 16, 2013

General Information:

1 sample was analyzed for EPA 200.7. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Additional Comments:

Analyte Comments:

QC Batch: MPRP/22634

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

- BATCH 94-MSD (Lab ID: 60144068001)
 - Silver
 - Beryllium
 - Cadmium
 - Selenium
 - Thallium

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PROJECT NARRATIVE

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Method: EPA 200.7

Description: 200.7 Metals, Dissolved (LF)

Client: Barr Engineering Company

Date: May 16, 2013

General Information:

1 sample was analyzed for EPA 200.7. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 200.7 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

Analyte Comments:

QC Batch: MPRP/22638

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

- BATCH 94-MSD (Lab ID: 60144068001)
 - Silver, Dissolved
 - Beryllium, Dissolved
 - Cadmium, Dissolved
 - Copper, Dissolved
 - Selenium, Dissolved
 - Thallium, Dissolved

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PROJECT NARRATIVE

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Method: EPA 245.1

Description: 245.1 Mercury

Client: Barr Engineering Company

Date: May 16, 2013

General Information:

1 sample was analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Method: EPA 245.1

Description: 245.1 Mercury, Dissolved (LF)

Client: Barr Engineering Company

Date: May 16, 2013

General Information:

1 sample was analyzed for EPA 245.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 245.1 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

QC Batch: MERP/7337

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60144207001

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

- MS (Lab ID: 1186567)
 - Mercury, Dissolved
- MSD (Lab ID: 1186568)
 - Mercury, Dissolved

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Method: EPA 625

Description: 625 MSSV

Client: Barr Engineering Company

Date: May 16, 2013

General Information:

1 sample was analyzed for EPA 625. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 625 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

QC Batch: OEXT/38327

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

- BATCH 94-MSD (Lab ID: 60144068001)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorobiphenyl (S)
 - 2-Fluorophenol (S)
 - Nitrobenzene-d5 (S)
 - Phenol-d6 (S)
 - Terphenyl-d14 (S)

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: OEXT/38327

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

- LCS (Lab ID: 1184921)
 - 3,3'-Dichlorobenzidine

Matrix Spikes:

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

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PROJECT NARRATIVE

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Method: EPA 625

Description: 625 MSSV

Client: Barr Engineering Company

Date: May 16, 2013

Additional Comments:

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PROJECT NARRATIVE

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Method: EPA 624 Low

Description: 624 Volatile Organics

Client: Barr Engineering Company

Date: May 16, 2013

General Information:

2 samples were analyzed for EPA 624 Low. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Additional Comments:

Analyte Comments:

QC Batch: MSV/53500

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

- BATCH 94-MSD (Lab ID: 60144068001)
 - Dibromofluoromethane (S)

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PROJECT NARRATIVE

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Method: EPA 1664A

Description: HEM, Oil and Grease

Client: Barr Engineering Company

Date: May 16, 2013

General Information:

1 sample was analyzed for EPA 1664A. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

QC Batch: WET/41175

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60144056001

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

- MS (Lab ID: 1183527)
- Oil and Grease

Duplicate Sample:

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

Additional Comments:

Analyte Comments:

QC Batch: WET/41175

1e: The analyst noted that the sample and MS did not respond the same during the hexane extraction.

- MS (Lab ID: 1183527)
- Oil and Grease

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PROJECT NARRATIVE

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: Barr Engineering Company

Date: May 16, 2013

General Information:

1 sample was analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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PROJECT NARRATIVE

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Method: SM 4500-H+B

Description: 4500H+ pH, Electrometric

Client: Barr Engineering Company

Date: May 16, 2013

General Information:

1 sample was analyzed for SM 4500-H+B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

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

- BATCH 94-MSD (Lab ID: 60144068001)

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Method: EPA 350.1

Description: 350.1 Ammonia

Client: Barr Engineering Company

Date: May 16, 2013

General Information:

1 sample was analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

QC Batch: WETA/24624

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60143975001,60144200001

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

- MS (Lab ID: 1184238)
 - Nitrogen, Ammonia
- MS (Lab ID: 1184240)
 - Nitrogen, Ammonia

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Method: EPA 410.4

Description: 410.4 COD

Client: Barr Engineering Company

Date: May 16, 2013

General Information:

1 sample was analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Sample: BATCH 94-MSD		Lab ID: 60144068001	Collected: 05/07/13 08:00	Received: 05/08/13 08:30	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	6310 ug/L		150	2	05/10/13 16:45	05/13/13 14:15	7429-90-5	
Antimony	37.3 ug/L		20.0	2	05/10/13 16:45	05/13/13 14:15	7440-36-0	
Arsenic	584 ug/L		20.0	2	05/10/13 16:45	05/13/13 14:15	7440-38-2	
Beryllium	ND ug/L		2.0	2	05/10/13 16:45	05/13/13 14:15	7440-41-7	D3
Cadmium	ND ug/L		10.0	2	05/10/13 16:45	05/13/13 14:15	7440-43-9	D3
Chromium	194 ug/L		10.0	2	05/10/13 16:45	05/13/13 14:15	7440-47-3	
Cobalt	28.1 ug/L		10.0	2	05/10/13 16:45	05/13/13 14:15	7440-48-4	
Copper	20.6 ug/L		20.0	2	05/10/13 16:45	05/13/13 14:15	7440-50-8	
Iron	619000 ug/L		100	2	05/10/13 16:45	05/13/13 14:15	7439-89-6	
Lead	151 ug/L		10.0	2	05/10/13 16:45	05/13/13 14:15	7439-92-1	
Nickel	82.7 ug/L		10.0	2	05/10/13 16:45	05/13/13 14:15	7440-02-0	
Selenium	ND ug/L		30.0	2	05/10/13 16:45	05/13/13 14:15	7782-49-2	D3
Silver	ND ug/L		14.0	2	05/10/13 16:45	05/13/13 14:15	7440-22-4	D3
Thallium	ND ug/L		40.0	2	05/10/13 16:45	05/13/13 14:15	7440-28-0	D3
Zinc	10200 ug/L		100	2	05/10/13 16:45	05/13/13 14:15	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	2750 ug/L		150	2	05/13/13 10:15	05/13/13 15:45	7429-90-5	
Antimony, Dissolved	28.6 ug/L		20.0	2	05/13/13 10:15	05/13/13 15:45	7440-36-0	
Arsenic, Dissolved	488 ug/L		20.0	2	05/13/13 10:15	05/13/13 15:45	7440-38-2	
Beryllium, Dissolved	ND ug/L		2.0	2	05/13/13 10:15	05/13/13 15:45	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		10.0	2	05/13/13 10:15	05/13/13 15:45	7440-43-9	D3
Chromium, Dissolved	161 ug/L		10.0	2	05/13/13 10:15	05/13/13 15:45	7440-47-3	
Cobalt, Dissolved	20.2 ug/L		10.0	2	05/13/13 10:15	05/13/13 15:45	7440-48-4	
Copper, Dissolved	ND ug/L		20.0	2	05/13/13 10:15	05/13/13 15:45	7440-50-8	D3
Iron, Dissolved	410000 ug/L		100	2	05/13/13 10:15	05/13/13 15:45	7439-89-6	
Lead, Dissolved	81.1 ug/L		10.0	2	05/13/13 10:15	05/13/13 15:45	7439-92-1	
Nickel, Dissolved	66.1 ug/L		10.0	2	05/13/13 10:15	05/13/13 15:45	7440-02-0	
Selenium, Dissolved	ND ug/L		30.0	2	05/13/13 10:15	05/13/13 15:45	7782-49-2	D3
Silver, Dissolved	ND ug/L		14.0	2	05/13/13 10:15	05/13/13 15:45	7440-22-4	D3
Thallium, Dissolved	ND ug/L		40.0	2	05/13/13 10:15	05/13/13 15:45	7440-28-0	D3
Zinc, Dissolved	8670 ug/L		100	2	05/13/13 10:15	05/13/13 15:45	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	5.3 ug/L		0.20	1	05/10/13 11:10	05/10/13 14:18	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	05/14/13 09:25	05/14/13 12:34	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	83-32-9	
Acenaphthylene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	208-96-8	
Anthracene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	120-12-7	
Benzidine	ND ug/L		500	10	05/10/13 00:00	05/13/13 13:14	92-87-5	
Benzo(a)anthracene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	56-55-3	
Benzo(a)pyrene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Sample: BATCH 94-MSD		Lab ID: 60144068001	Collected: 05/07/13 08:00	Received: 05/08/13 08:30	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		50.0	10	05/10/13 00:00	05/13/13 13:14	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	191-24-2	
Benzo(k)fluoranthene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	207-08-9	
4-Bromophenylphenyl ether	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	101-55-3	
Butylbenzylphthalate	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	85-68-7	
4-Chloro-3-methylphenol	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	59-50-7	
bis(2-Chloroethoxy)methane	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		60.0	10	05/10/13 00:00	05/13/13 13:14	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		60.0	10	05/10/13 00:00	05/13/13 13:14	39638-32-9	
2-Chloronaphthalene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	91-58-7	
2-Chlorophenol	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	7005-72-3	
Chrysene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	53-70-3	
3,3'-Dichlorobenzidine	ND ug/L		200	10	05/10/13 00:00	05/13/13 13:14	91-94-1	L3
2,4-Dichlorophenol	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	120-83-2	
Diethylphthalate	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	84-66-2	
2,4-Dimethylphenol	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	105-67-9	
Dimethylphthalate	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	131-11-3	
Di-n-butylphthalate	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		250	10	05/10/13 00:00	05/13/13 13:14	534-52-1	
2,4-Dinitrophenol	ND ug/L		500	10	05/10/13 00:00	05/13/13 13:14	51-28-5	
2,4-Dinitrotoluene	ND ug/L		60.0	10	05/10/13 00:00	05/13/13 13:14	121-14-2	
2,6-Dinitrotoluene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	606-20-2	
Di-n-octylphthalate	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	117-81-7	
Fluoranthene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	206-44-0	
Fluorene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	87-68-3	
Hexachlorobenzene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	77-47-4	
Hexachloroethane	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	193-39-5	
Isophorone	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	78-59-1	
Naphthalene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	91-20-3	
Nitrobenzene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	98-95-3	
2-Nitrophenol	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	88-75-5	
4-Nitrophenol	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	100-02-7	
N-Nitrosodimethylamine	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	86-30-6	
Pentachlorophenol	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	87-86-5	
Phenanthrene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	85-01-8	
Phenol	815 ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	108-95-2	
Pyrene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:14	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Sample: BATCH 94-MSD **Lab ID: 60144068001** Collected: 05/07/13 08:00 Received: 05/08/13 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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625 MSSV

Analytical Method: EPA 625 Preparation Method: EPA 625

Surrogates

Nitrobenzene-d5 (S)	0 %		32-120	10	05/10/13 00:00	05/13/13 13:14	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	10	05/10/13 00:00	05/13/13 13:14	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	10	05/10/13 00:00	05/13/13 13:14	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	10	05/10/13 00:00	05/13/13 13:14	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	10	05/10/13 00:00	05/13/13 13:14	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	10	05/10/13 00:00	05/13/13 13:14	118-79-6	S4

624 Volatile Organics

Analytical Method: EPA 624 Low

Benzene	ND ug/L		200	200		05/09/13 17:40	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/09/13 17:40	75-27-4	
Bromoform	ND ug/L		200	200		05/09/13 17:40	75-25-2	
Bromomethane	ND ug/L		1000	200		05/09/13 17:40	74-83-9	
Carbon tetrachloride	ND ug/L		200	200		05/09/13 17:40	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/09/13 17:40	108-90-7	
Chloroethane	ND ug/L		200	200		05/09/13 17:40	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/09/13 17:40	110-75-8	
Chloroform	ND ug/L		200	200		05/09/13 17:40	67-66-3	
Chloromethane	ND ug/L		200	200		05/09/13 17:40	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/09/13 17:40	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/09/13 17:40	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/09/13 17:40	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/09/13 17:40	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/09/13 17:40	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/09/13 17:40	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/09/13 17:40	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/09/13 17:40	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/09/13 17:40	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/09/13 17:40	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/09/13 17:40	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/09/13 17:40	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/09/13 17:40	100-41-4	
Methylene chloride	ND ug/L		200	200		05/09/13 17:40	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/09/13 17:40	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/09/13 17:40	127-18-4	
Toluene	ND ug/L		200	200		05/09/13 17:40	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/09/13 17:40	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/09/13 17:40	79-00-5	
Trichloroethene	ND ug/L		200	200		05/09/13 17:40	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/09/13 17:40	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/09/13 17:40	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/09/13 17:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101 %		80-120	200		05/09/13 17:40	1868-53-7	D3
4-Bromofluorobenzene (S)	103 %		80-120	200		05/09/13 17:40	460-00-4	
Toluene-d8 (S)	100 %		80-120	200		05/09/13 17:40	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	200		05/09/13 17:40	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Sample: BATCH 94-MSD		Lab ID: 60144068001	Collected: 05/07/13 08:00	Received: 05/08/13 08:30	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		05/09/13 17:40		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	240	mg/L	5.0	1		05/09/13 08:56		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	ND	mg/L	5.0	1		05/09/13 10:17		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.7	Std. Units	0.10	1		05/09/13 09:00		H6
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	580	mg/L	20.0	1		05/10/13 11:44	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	40100	mg/L	5000	500		05/14/13 15:00		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Sample: TRIP BLANK	Lab ID: 60144068002	Collected: 05/07/13 08:00	Received: 05/08/13 08:30	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		05/09/13 16:58	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		05/09/13 16:58	75-27-4	
Bromoform	ND ug/L		1.0	1		05/09/13 16:58	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/09/13 16:58	74-83-9	
Carbon tetrachloride	ND ug/L		1.0	1		05/09/13 16:58	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/09/13 16:58	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/09/13 16:58	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		05/09/13 16:58	110-75-8	
Chloroform	ND ug/L		1.0	1		05/09/13 16:58	67-66-3	
Chloromethane	ND ug/L		1.0	1		05/09/13 16:58	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		05/09/13 16:58	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/09/13 16:58	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/09/13 16:58	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/09/13 16:58	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		05/09/13 16:58	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/09/13 16:58	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/09/13 16:58	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/09/13 16:58	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/09/13 16:58	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		05/09/13 16:58	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		05/09/13 16:58	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		05/09/13 16:58	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		05/09/13 16:58	100-41-4	
Methylene chloride	ND ug/L		1.0	1		05/09/13 16:58	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/09/13 16:58	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/09/13 16:58	127-18-4	
Toluene	ND ug/L		1.0	1		05/09/13 16:58	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/09/13 16:58	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/09/13 16:58	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/09/13 16:58	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/09/13 16:58	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		05/09/13 16:58	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/09/13 16:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98 %		80-120	1		05/09/13 16:58	1868-53-7	
4-Bromofluorobenzene (S)	99 %		80-120	1		05/09/13 16:58	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		05/09/13 16:58	2037-26-5	
1,2-Dichloroethane-d4 (S)	99 %		80-120	1		05/09/13 16:58	17060-07-0	
Preservation pH	7.0		1.0	1		05/09/13 16:58		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

QC Batch: MERP/7327

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury

Associated Lab Samples: 60144068001

METHOD BLANK: 1183686

Matrix: Water

Associated Lab Samples: 60144068001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/10/13 13:58	

LABORATORY CONTROL SAMPLE: 1183687

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1183688

1183689

Parameter	Units	60143961002 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Mercury	ug/L	ND	5	5	4.7	4.8	92	93	70-130	1	20	

MATRIX SPIKE SAMPLE: 1183690

Parameter	Units	60144066001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.7	94	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

QC Batch: MERP/7337

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60144068001

METHOD BLANK: 1186565

Matrix: Water

Associated Lab Samples: 60144068001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/14/13 12:30	

LABORATORY CONTROL SAMPLE: 1186566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.2	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1186567

1186568

Parameter	Units	60144207001 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	2.6	2.6	52	52	70-130	1	20	M1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

QC Batch: MPRP/22634 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60144068001

METHOD BLANK: 1185358 Matrix: Water

Associated Lab Samples: 60144068001

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

LABORATORY CONTROL SAMPLE: 1185359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	85-115	
Antimony	ug/L	1000	1040	104	85-115	
Arsenic	ug/L	1000	999	100	85-115	
Beryllium	ug/L	1000	1030	103	85-115	
Cadmium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	1000	999	100	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	1010	101	85-115	
Iron	ug/L	10000	10200	102	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1050	105	85-115	
Selenium	ug/L	1000	1020	102	85-115	
Silver	ug/L	500	513	103	85-115	
Thallium	ug/L	1000	1070	107	85-115	
Zinc	ug/L	1000	1020	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1185360 1185361

Parameter	Units	60144275001 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	10600	10600	105	105	70-130	0	8

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

Parameter	Units	60144275001		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	1060	1080	106	108	70-130	2	7			
Arsenic	ug/L	ND	1000	1000	1020	1040	102	103	70-130	2	10			
Beryllium	ug/L	ND	1000	1000	1020	1020	102	102	70-130	0	7			
Cadmium	ug/L	ND	1000	1000	1020	1020	102	102	70-130	1	10			
Chromium	ug/L	ND	1000	1000	974	974	97	97	70-130	0	10			
Cobalt	ug/L	ND	1000	1000	1000	1010	100	101	70-130	1	6			
Copper	ug/L	ND	1000	1000	1030	1030	102	102	70-130	0	11			
Iron	ug/L	158	10000	10000	10000	10000	99	99	70-130	0	10			
Lead	ug/L	ND	1000	1000	1010	1020	101	102	70-130	1	10			
Nickel	ug/L	ND	1000	1000	1010	1020	101	102	70-130	1	10			
Selenium	ug/L	ND	1000	1000	1040	1050	104	105	70-130	1	10			
Silver	ug/L	ND	500	500	508	512	101	102	70-130	1	10			
Thallium	ug/L	ND	1000	1000	1020	1030	102	103	70-130	1	6			
Zinc	ug/L	ND	1000	1000	994	993	98	98	70-130	0	11			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 94-MSD
Pace Project No.: 60144068

QC Batch: MPRP/22638 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60144068001

METHOD BLANK: 1186167 Matrix: Water
Associated Lab Samples: 60144068001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	05/13/13 15:41	
Antimony, Dissolved	ug/L	ND	10.0	05/13/13 15:41	
Arsenic, Dissolved	ug/L	ND	10.0	05/13/13 15:41	
Beryllium, Dissolved	ug/L	ND	1.0	05/13/13 15:41	
Cadmium, Dissolved	ug/L	ND	5.0	05/13/13 15:41	
Chromium, Dissolved	ug/L	ND	5.0	05/13/13 15:41	
Cobalt, Dissolved	ug/L	ND	5.0	05/13/13 15:41	
Copper, Dissolved	ug/L	ND	10.0	05/13/13 15:41	
Iron, Dissolved	ug/L	ND	50.0	05/13/13 15:41	
Lead, Dissolved	ug/L	ND	5.0	05/13/13 15:41	
Nickel, Dissolved	ug/L	ND	5.0	05/13/13 15:41	
Selenium, Dissolved	ug/L	ND	15.0	05/13/13 15:41	
Silver, Dissolved	ug/L	ND	7.0	05/13/13 15:41	
Thallium, Dissolved	ug/L	ND	20.0	05/13/13 15:41	
Zinc, Dissolved	ug/L	ND	50.0	05/13/13 15:41	

LABORATORY CONTROL SAMPLE: 1186168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10600	106	85-115	
Antimony, Dissolved	ug/L	1000	1070	107	85-115	
Arsenic, Dissolved	ug/L	1000	1010	101	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	954	95	85-115	
Cobalt, Dissolved	ug/L	1000	1030	103	85-115	
Copper, Dissolved	ug/L	1000	1030	103	85-115	
Iron, Dissolved	ug/L	10000	9600	96	85-115	
Lead, Dissolved	ug/L	1000	1040	104	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1040	104	85-115	
Silver, Dissolved	ug/L	500	510	102	85-115	
Thallium, Dissolved	ug/L	1000	1080	108	85-115	
Zinc, Dissolved	ug/L	1000	990	99	85-115	

SAMPLE DUPLICATE: 1186173

Parameter	Units	60144068001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum, Dissolved	ug/L	2750	2790	2	20	
Antimony, Dissolved	ug/L	28.6	32.3	12	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

SAMPLE DUPLICATE: 1186173

Parameter	Units	60144068001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic, Dissolved	ug/L	488	494	1	20	
Beryllium, Dissolved	ug/L	ND	ND		20	
Cadmium, Dissolved	ug/L	ND	ND		20	
Chromium, Dissolved	ug/L	161	161	0	20	
Cobalt, Dissolved	ug/L	20.2	20.7	3	20	
Copper, Dissolved	ug/L	ND	22.6		20	
Iron, Dissolved	ug/L	410000	420000	3	20	
Lead, Dissolved	ug/L	81.1	85.9	6	20	
Nickel, Dissolved	ug/L	66.1	66.5	1	20	
Selenium, Dissolved	ug/L	ND	ND		20	
Silver, Dissolved	ug/L	ND	7.2J		20	
Thallium, Dissolved	ug/L	ND	ND		20	
Zinc, Dissolved	ug/L	8670	8760	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

QC Batch: MSV/53500 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60144068001, 60144068002

METHOD BLANK: 1183666 Matrix: Water

Associated Lab Samples: 60144068001, 60144068002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/09/13 14:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/09/13 14:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/09/13 14:29	
1,1-Dichloroethane	ug/L	ND	1.0	05/09/13 14:29	
1,1-Dichloroethene	ug/L	ND	1.0	05/09/13 14:29	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/09/13 14:29	
1,2-Dichloroethane	ug/L	ND	1.0	05/09/13 14:29	
1,2-Dichloropropane	ug/L	ND	1.0	05/09/13 14:29	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/09/13 14:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/09/13 14:29	
2-Chloroethylvinyl ether	ug/L	ND	10.0	05/09/13 14:29	
Benzene	ug/L	ND	1.0	05/09/13 14:29	
Bromodichloromethane	ug/L	ND	1.0	05/09/13 14:29	
Bromoform	ug/L	ND	1.0	05/09/13 14:29	
Bromomethane	ug/L	ND	5.0	05/09/13 14:29	
Carbon tetrachloride	ug/L	ND	1.0	05/09/13 14:29	
Chlorobenzene	ug/L	ND	1.0	05/09/13 14:29	
Chloroethane	ug/L	ND	1.0	05/09/13 14:29	
Chloroform	ug/L	ND	1.0	05/09/13 14:29	
Chloromethane	ug/L	ND	1.0	05/09/13 14:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/09/13 14:29	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/09/13 14:29	
Dibromochloromethane	ug/L	ND	1.0	05/09/13 14:29	
Ethylbenzene	ug/L	ND	1.0	05/09/13 14:29	
Methylene chloride	ug/L	ND	1.0	05/09/13 14:29	
Tetrachloroethene	ug/L	ND	1.0	05/09/13 14:29	
Toluene	ug/L	ND	1.0	05/09/13 14:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/09/13 14:29	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/09/13 14:29	
Trichloroethene	ug/L	ND	1.0	05/09/13 14:29	
Trichlorofluoromethane	ug/L	ND	1.0	05/09/13 14:29	
Vinyl chloride	ug/L	ND	1.0	05/09/13 14:29	
Xylene (Total)	ug/L	ND	3.0	05/09/13 14:29	
1,2-Dichloroethane-d4 (S)	%	99	80-120	05/09/13 14:29	
4-Bromofluorobenzene (S)	%	99	80-120	05/09/13 14:29	
Dibromofluoromethane (S)	%	101	80-120	05/09/13 14:29	
Toluene-d8 (S)	%	101	80-120	05/09/13 14:29	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

LABORATORY CONTROL SAMPLE: 1183667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.0	110	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	20.0	100	59-138	
1,1,2-Trichloroethane	ug/L	20	18.7	93	69-127	
1,1-Dichloroethane	ug/L	20	18.7	94	69-126	
1,1-Dichloroethene	ug/L	20	20.3	101	65-153	
1,2-Dichlorobenzene	ug/L	20	21.6	108	66-126	
1,2-Dichloroethane	ug/L	20	20.1	100	71-129	
1,2-Dichloropropane	ug/L	20	20.7	103	66-140	
1,3-Dichlorobenzene	ug/L	20	21.0	105	63-127	
1,4-Dichlorobenzene	ug/L	20	20.7	104	68-124	
2-Chloroethylvinyl ether	ug/L	20	23.1	116	33-159	
Benzene	ug/L	20	20.4	102	73-129	
Bromodichloromethane	ug/L	20	20.4	102	63-129	
Bromoform	ug/L	20	17.6	88	52-123	
Bromomethane	ug/L	20	18.5	93	10-160	
Carbon tetrachloride	ug/L	20	21.9	110	70-140	
Chlorobenzene	ug/L	20	20.7	103	68-127	
Chloroethane	ug/L	20	17.9	89	42-160	
Chloroform	ug/L	20	20.3	102	60-120	
Chloromethane	ug/L	20	13.2	66	10-160	
cis-1,2-Dichloroethene	ug/L	20	20.7	104	70-125	
cis-1,3-Dichloropropene	ug/L	20	20.8	104	66-132	
Dibromochloromethane	ug/L	20	21.7	108	63-134	
Ethylbenzene	ug/L	20	21.2	106	66-133	
Methylene chloride	ug/L	20	16.7	84	56-135	
Tetrachloroethene	ug/L	20	21.4	107	64-143	
Toluene	ug/L	20	20.9	104	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.4	97	67-149	
trans-1,3-Dichloropropene	ug/L	20	21.4	107	66-138	
Trichloroethene	ug/L	20	20.2	101	71-130	
Trichlorofluoromethane	ug/L	20	17.9	90	58-158	
Vinyl chloride	ug/L	20	17.3	86	41-160	
Xylene (Total)	ug/L	60	63.3	106	67-130	
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Dibromofluoromethane (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1183668

Parameter	Units	60144068001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3830	96	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3510	88	46-157	
1,1,2-Trichloroethane	ug/L	ND	4000	3360	84	52-150	
1,1-Dichloroethane	ug/L	ND	4000	3210	80	59-155	
1,1-Dichloroethene	ug/L	ND	4000	3560	89	14-160	
1,2-Dichlorobenzene	ug/L	ND	4000	3730	93	18-145	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

MATRIX SPIKE SAMPLE:		1183668		60144068001		Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits		
1,2-Dichloroethane	ug/L	ND	4000	3620	90	3620	90	49-155		
1,2-Dichloropropane	ug/L	ND	4000	3660	91	3660	91	12-160		
1,3-Dichlorobenzene	ug/L	ND	4000	3590	90	3590	90	59-146		
1,4-Dichlorobenzene	ug/L	ND	4000	3620	90	3620	90	18-147		
2-Chloroethylvinyl ether	ug/L	ND	4000	5340	134	5340	134	10-160		
Benzene	ug/L	ND	4000	3610	90	3610	90	37-151		
Bromodichloromethane	ug/L	ND	4000	3560	89	3560	89	35-155		
Bromoform	ug/L	ND	4000	3040	75	3040	75	45-133		
Bromomethane	ug/L	ND	4000	1240	31	1240	31	10-160		
Carbon tetrachloride	ug/L	ND	4000	3760	94	3760	94	70-140		
Chlorobenzene	ug/L	ND	4000	3580	90	3580	90	37-153		
Chloroethane	ug/L	ND	4000	3020	76	3020	76	14-160		
Chloroform	ug/L	ND	4000	3610	90	3610	90	51-138		
Chloromethane	ug/L	ND	4000	2380	60	2380	60	10-160		
cis-1,2-Dichloroethene	ug/L	ND	4000	3530	88	3530	88	19-160		
cis-1,3-Dichloropropene	ug/L	ND	4000	3610	90	3610	90	10-160		
Dibromochloromethane	ug/L	ND	4000	3690	92	3690	92	53-149		
Ethylbenzene	ug/L	ND	4000	3740	93	3740	93	37-154		
Methylene chloride	ug/L	ND	4000	2790	70	2790	70	15-156		
Tetrachloroethene	ug/L	ND	4000	3720	93	3720	93	64-148		
Toluene	ug/L	ND	4000	3680	92	3680	92	47-150		
trans-1,2-Dichloroethene	ug/L	ND	4000	3320	83	3320	83	54-156		
trans-1,3-Dichloropropene	ug/L	ND	4000	3770	94	3770	94	17-160		
Trichloroethene	ug/L	ND	4000	3580	89	3580	89	71-157		
Trichlorofluoromethane	ug/L	ND	4000	3050	76	3050	76	17-160		
Vinyl chloride	ug/L	ND	4000	2750	69	2750	69	10-160		
Xylene (Total)	ug/L	ND	12000	11100	92	11100	92	12-153		
1,2-Dichloroethane-d4 (S)	%						103	80-120		
4-Bromofluorobenzene (S)	%						104	80-120		
Dibromofluoromethane (S)	%						101	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 94-MSD
Pace Project No.: 60144068

QC Batch: OEXT/38327 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60144068001

METHOD BLANK: 1184920 Matrix: Water
Associated Lab Samples: 60144068001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/13/13 12:33	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/13/13 12:33	
2,4-Dichlorophenol	ug/L	ND	5.0	05/13/13 12:33	
2,4-Dimethylphenol	ug/L	ND	5.0	05/13/13 12:33	
2,4-Dinitrophenol	ug/L	ND	50.0	05/13/13 12:33	
2,4-Dinitrotoluene	ug/L	ND	6.0	05/13/13 12:33	
2,6-Dinitrotoluene	ug/L	ND	5.0	05/13/13 12:33	
2-Chloronaphthalene	ug/L	ND	5.0	05/13/13 12:33	
2-Chlorophenol	ug/L	ND	5.0	05/13/13 12:33	
2-Nitrophenol	ug/L	ND	5.0	05/13/13 12:33	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	05/13/13 12:33	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/13/13 12:33	
4-Bromophenylphenyl ether	ug/L	ND	5.0	05/13/13 12:33	
4-Chloro-3-methylphenol	ug/L	ND	5.0	05/13/13 12:33	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	05/13/13 12:33	
4-Nitrophenol	ug/L	ND	5.0	05/13/13 12:33	
Acenaphthene	ug/L	ND	5.0	05/13/13 12:33	
Acenaphthylene	ug/L	ND	5.0	05/13/13 12:33	
Anthracene	ug/L	ND	5.0	05/13/13 12:33	
Benzidine	ug/L	ND	50.0	05/13/13 12:33	
Benzo(a)anthracene	ug/L	ND	5.0	05/13/13 12:33	
Benzo(a)pyrene	ug/L	ND	5.0	05/13/13 12:33	
Benzo(b)fluoranthene	ug/L	ND	5.0	05/13/13 12:33	
Benzo(g,h,i)perylene	ug/L	ND	5.0	05/13/13 12:33	
Benzo(k)fluoranthene	ug/L	ND	5.0	05/13/13 12:33	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	05/13/13 12:33	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	05/13/13 12:33	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	05/13/13 12:33	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	05/13/13 12:33	
Butylbenzylphthalate	ug/L	ND	5.0	05/13/13 12:33	
Chrysene	ug/L	ND	5.0	05/13/13 12:33	
Di-n-butylphthalate	ug/L	ND	5.0	05/13/13 12:33	
Di-n-octylphthalate	ug/L	ND	5.0	05/13/13 12:33	
Dibenz(a,h)anthracene	ug/L	ND	5.0	05/13/13 12:33	
Diethylphthalate	ug/L	ND	5.0	05/13/13 12:33	
Dimethylphthalate	ug/L	ND	5.0	05/13/13 12:33	
Fluoranthene	ug/L	ND	5.0	05/13/13 12:33	
Fluorene	ug/L	ND	5.0	05/13/13 12:33	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/13/13 12:33	
Hexachlorobenzene	ug/L	ND	5.0	05/13/13 12:33	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/13/13 12:33	
Hexachloroethane	ug/L	ND	5.0	05/13/13 12:33	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	05/13/13 12:33	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 94-MSD

Project No.: 60144068

METHOD BLANK: 1184920

Matrix: Water

Associated Lab Samples: 60144068001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	05/13/13 12:33	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	05/13/13 12:33	
N-Nitrosodimethylamine	ug/L	ND	5.0	05/13/13 12:33	
N-Nitrosodiphenylamine	ug/L	ND	5.0	05/13/13 12:33	
Naphthalene	ug/L	ND	5.0	05/13/13 12:33	
Nitrobenzene	ug/L	ND	5.0	05/13/13 12:33	
Pentachlorophenol	ug/L	ND	5.0	05/13/13 12:33	
Phenanthrene	ug/L	ND	5.0	05/13/13 12:33	
Phenol	ug/L	ND	5.0	05/13/13 12:33	
Pyrene	ug/L	ND	5.0	05/13/13 12:33	
2,4,6-Tribromophenol (S)	%	72	39-119	05/13/13 12:33	
2-Fluorobiphenyl (S)	%	60	36-120	05/13/13 12:33	
2-Fluorophenol (S)	%	30	18-120	05/13/13 12:33	
Nitrobenzene-d5 (S)	%	64	32-120	05/13/13 12:33	
Phenol-d6 (S)	%	19	12-120	05/13/13 12:33	
Terphenyl-d14 (S)	%	72	44-120	05/13/13 12:33	

LABORATORY CONTROL SAMPLE: 1184921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	30.4	61	44-120	
2,4,6-Trichlorophenol	ug/L	50	34.6	69	48-120	
2,4-Dichlorophenol	ug/L	50	32.1	64	48-120	
2,4-Dimethylphenol	ug/L	50	28.1	56	37-119	
2,4-Dinitrophenol	ug/L	50	46.7J	93	15-153	
2,4-Dinitrotoluene	ug/L	50	40.6	81	54-120	
2,6-Dinitrotoluene	ug/L	50	38.2	76	52-120	
2-Chloronaphthalene	ug/L	50	31.5	63	60-118	
2-Chlorophenol	ug/L	50	29.5	59	44-120	
2-Nitrophenol	ug/L	50	40.1	80	43-120	
3,3'-Dichlorobenzidine	ug/L	50	92.4	185	23-160	LO
4,6-Dinitro-2-methylphenol	ug/L	50	49.0	98	31-147	
4-Bromophenylphenyl ether	ug/L	50	33.8	68	53-120	
4-Chloro-3-methylphenol	ug/L	50	31.7	63	50-120	
4-Chlorophenylphenyl ether	ug/L	50	32.0	64	54-120	
4-Nitrophenol	ug/L	50	11.0	22	10-120	
Acenaphthene	ug/L	50	31.9	64	51-120	
Acenaphthylene	ug/L	50	31.0	62	51-120	
Anthracene	ug/L	50	33.0	66	54-120	
Benzidine	ug/L	50	24.4J	49	1-124	
Benzo(a)anthracene	ug/L	50	35.1	70	54-120	
Benzo(a)pyrene	ug/L	50	30.0	60	54-120	
Benzo(b)fluoranthene	ug/L	50	36.3	73	57-120	
Benzo(g,h,i)perylene	ug/L	50	35.3	71	54-120	
Benzo(k)fluoranthene	ug/L	50	31.7	63	52-121	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

LABORATORY CONTROL SAMPLE: 1184921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	50	30.9	62	51-120	
bis(2-Chloroethyl) ether	ug/L	50	31.3	63	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	32.5	65	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	42.3	85	51-126	
Butylbenzylphthalate	ug/L	50	42.3	85	45-129	
Chrysene	ug/L	50	34.5	69	54-120	
Di-n-butylphthalate	ug/L	50	37.9	76	57-118	
Di-n-octylphthalate	ug/L	50	45.7	91	48-130	
Dibenz(a,h)anthracene	ug/L	50	37.8	76	56-119	
Diethylphthalate	ug/L	50	33.7	67	55-114	
Dimethylphthalate	ug/L	50	33.1	66	54-112	
Fluoranthene	ug/L	50	34.9	70	56-120	
Fluorene	ug/L	50	32.9	66	59-120	
Hexachloro-1,3-butadiene	ug/L	50	29.6	59	41-116	
Hexachlorobenzene	ug/L	50	33.9	68	53-120	
Hexachlorocyclopentadiene	ug/L	100	32.9	33	31-120	
Hexachloroethane	ug/L	50	30.2	60	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	35.7	71	55-120	
Isophorone	ug/L	50	31.1	62	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	31.6	63	47-120	
N-Nitrosodimethylamine	ug/L	50	17.8	36	28-120	
N-Nitrosodiphenylamine	ug/L	50	31.2	62	53-120	
Naphthalene	ug/L	50	31.6	63	48-120	
Nitrobenzene	ug/L	50	32.4	65	47-120	
Pentachlorophenol	ug/L	50	41.5	83	43-127	
Phenanthrene	ug/L	50	33.3	67	55-120	
Phenol	ug/L	50	9.9	20	15-112	
Pyrene	ug/L	50	36.1	72	55-115	
2,4,6-Tribromophenol (S)	%			82	39-119	
2-Fluorobiphenyl (S)	%			62	36-120	
2-Fluorophenol (S)	%			31	18-120	
Nitrobenzene-d5 (S)	%			66	32-120	M4
Phenol-d6 (S)	%			20	12-120	
Terphenyl-d14 (S)	%			74	44-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

QC Batch:	WET/41175	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60144068001		

METHOD BLANK: 1183525 Matrix: Water

Associated Lab Samples: 60144068001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	05/09/13 08:55	

LABORATORY CONTROL SAMPLE: 1183526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.3	98	78-114	

MATRIX SPIKE SAMPLE: 1183527

Parameter	Units	60144056001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	758	42.1	696	-147	78-114	1e,M1

SAMPLE DUPLICATE: 1183528

Parameter	Units	60144068001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	240	237	1	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

QC Batch: WET/41173

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60144068001

METHOD BLANK: 1183507

Matrix: Water

Associated Lab Samples: 60144068001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/09/13 10:11	

SAMPLE DUPLICATE: 1183508

Parameter	Units	60144082001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	9.0	7.0	25	25	

SAMPLE DUPLICATE: 1183509

Parameter	Units	60144138002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	8.0	9.0	12	25	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

QC Batch: WET/41165 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60144068001

SAMPLE DUPLICATE: 1183255

Parameter	Units	60144045001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.3	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 94-MSD
Pace Project No.: 60144068

QC Batch: WETA/24624 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60144068001

METHOD BLANK: 1184236 Matrix: Water
Associated Lab Samples: 60144068001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/10/13 10:32	

LABORATORY CONTROL SAMPLE: 1184237

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

MATRIX SPIKE SAMPLE: 1184238

Parameter	Units	60143975001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.40	2	2.0	78	90-110	M1

MATRIX SPIKE SAMPLE: 1184240

Parameter	Units	60144200001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	6.2	4	9.3	78	90-110	M1

SAMPLE DUPLICATE: 1184239

Parameter	Units	60144016003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	731	759	4	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

QC Batch:	WETA/24668	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60144068001		

METHOD BLANK: 1186399 Matrix: Water

Associated Lab Samples: 60144068001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/14/13 14:58	

LABORATORY CONTROL SAMPLE: 1186400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	47.2	94	90-110	

MATRIX SPIKE SAMPLE: 1186401

Parameter	Units	60144068001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	40100	25000	62700	91	90-110	

SAMPLE DUPLICATE: 1186402

Parameter	Units	60144204001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	49200	48500	1	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144068

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- 1e The analyst noted that the sample and MS did not respond the same during the hexane extraction.
- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- H6 Analysis initiated outside of the 15 minute EPA recommended holding time.
- L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- M4 A matrix spike/matrix spike duplicate was not performed for this batch due to sample dilution.
- 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 94-MSD

Pace Project No.: 60144068

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60144068001	BATCH 94-MSD	EPA 200.7	MPRP/22634	EPA 200.7	ICP/17942
60144068001	BATCH 94-MSD	EPA 200.7	MPRP/22638	EPA 200.7	ICP/17943
60144068001	BATCH 94-MSD	EPA 245.1	MERP/7327	EPA 245.1	MERC/7287
60144068001	BATCH 94-MSD	EPA 245.1	MERP/7337	EPA 245.1	MERC/7293
60144068001	BATCH 94-MSD	EPA 625	OEXT/38327	EPA 625	MSSV/12107
60144068001	BATCH 94-MSD	EPA 624 Low	MSV/53500		
60144068002	TRIP BLANK	EPA 624 Low	MSV/53500		
60144068001	BATCH 94-MSD	EPA 1664A	WET/41175		
60144068001	BATCH 94-MSD	SM 2540D	WET/41173		
60144068001	BATCH 94-MSD	SM 4500-H+B	WET/41165		
60144068001	BATCH 94-MSD	EPA 350.1	WETA/24624		
60144068001	BATCH 94-MSD	EPA 410.4	WETA/24668		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60144068

60144068

Client Name: Barr Eng.

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 0030 4294 4159 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: Wed Blue None Samples received on ice, cooling process has begun.
 Cooler Temperature: 4.0 (circle one)

Optional
Proj Due Date:
Proj Name:

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JB 8/8/13 935

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 checked="" 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	13.
Includes date/time/ID/analyses Matrix: <u>water</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>BP3N + BP3S</u> <u>not able to be preserved.</u> <u>added 25 ml HNO3 to (BP3N) no change in pH.</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, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>JB</u> Lot # of added preservative: <u>13094</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>61962</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: 8/8/13



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: BARR ENGINEERING		Report To: ED GALBRAITH		Attention:	
Address: 13570 St. Charles Rock Rd		Copy To: SCOTT C. Fedak		Company Name: REPUBLIC SERVICES	
Email To: egalbraith@barr.com		Purchase Order No:		REGULATORY AGENCY	
Phone:		Project Name: BRIDGETON LANDFILL		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER <u>MSO</u>	
Requested Due Date/TAT: 5 Days		Project Number:		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	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.				
					DATE	TIME	DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	BOD-SM 5210B-SCF			COD 410	pH SM 4500H+B	LF Dis. Metals 200.7/245 Z	total Metals 200.7/245*
1	BATCH 94-MSO		WT G	G	5/7/13	0830	5/7/13	0840	15	1														01	*Metals list:	
2	Trip Blank		WT G	G	--	--	--	--	2																02	Al, Sb, As, Be, Cd, Cr, Co, Cu, Fe, Pb, Ni, Se, Ag, TI, Zn and Mercury
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
SITE CONTACT: BILL ABERNATHY 314-502-1299	Scott C. Fedak / Recar	5/7/13	1930	[Signature]	5/8/13	030	4.0
SITE ADDRESS: BRIDGETON LF							
13570 ST CHARLES ROCK RD							
BRIDGETON MO 63044							

*Note: please provide BOD analysis on a separate report, so it does not hold up a final report for the other analysis	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: [Signature]						
			DATE Signed (MM/DD/YY): 05/07/13				

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

TB-2, TANK 4

May 14, 2013

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

RE: Project: BRIDGETON LF 94-MSD
Pace Project No.: 60144069

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 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 94-MSD

Pace Project No.: 60144069

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA Certification #: 2456.01

Arkansas Certification #: 12-019-0

Illinois Certification #: 002885

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-12-3

Utah Certification #: KS000212012-2

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144069

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60144069001	BATCH 94-MSD	Water	05/07/13 08:00	05/08/13 08:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144069

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60144069001	BATCH 94-MSD	SM 5210B	NDL	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144069

Sample: BATCH 94-MSD	Lab ID: 60144069001	Collected: 05/07/13 08:00	Received: 05/08/13 08:30	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	22900	mg/L	2.0	1	05/08/13 14:20	05/13/13 14:31		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144069

QC Batch: WET/41154

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60144069001

METHOD BLANK: 1182981

Matrix: Water

Associated Lab Samples: 60144069001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/13/13 14:15	

LABORATORY CONTROL SAMPLE: 1182982

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	192	97	85-115	

SAMPLE DUPLICATE: 1182983

Parameter	Units	60144074002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	ND		17	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 94-MSD

Pace Project No.: 60144069

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 94-MSD

Pace Project No.: 60144069

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60144069001	BATCH 94-MSD	SM 5210B	WET/41154	SM 5210B	WET/41242

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60144069



Client Name: Barr Eng.

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 8030 4294 4159 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: Water Blue None Samples received on ice, cooling process has begun. (circle one)

Cooler Temperature: 4.0

Date and initials of person examining contents: JB AB/S 935

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 checked="" 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>water</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>BP3N + BP3S</u> <u>not able to be preserved.</u> <u>added 25 ml HNO3 to (BP3N) no change in pH.</u>
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>JB</u> Lot # of added preservative <u>13094</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>covered</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
		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: 9/13

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1
1635576

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: <u>Bridgeton L.F.</u>		Report To: <u>Ed Galbraith</u>		Attention:	
Address: <u>1357th St. Charles Rock Rd.</u>		Copy To: <u>Scott C. Fedak</u>		Company Name: <u>Republic Services</u>	
Email To: <u>egalbraith@bar.com</u>		Purchase Order No.:		Address:	
Phone: / Fax:		Project Name: <u>Bridgeton Landfill</u>		Pace Quote Reference: <u>130406-7588</u>	
Requested Due Date/TAT: <u>5 Days</u>		Project Number:		Pace Project Manager: <u>Angie Brown</u>	
				Pace Profile #: <u>6787 Line 2</u>	

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 checked="" type="checkbox"/> OTHER <u>MSD</u>
Site Location	STATE: <u>MO</u>	

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Codes MATRIX / CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ Analysis Test ↓ <u>POD (.5M 50108)</u>	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														
					DATE	TIME	DATE	TIME																								
1	BATCH 94 - MSD		WW	G	--	--	5/7/13	0800	1	1																						
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
TD-2, TANK 4	Scott C. Fedak	5/7/13	1930	[Signature] Pace	5/8/13	0800	4.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE	Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	PRINT Name of SAMPLER: <u>Scott C. Fedak</u>			
SIGNATURE of SAMPLER: <u>Scott C. Fedak</u>	DATE Signed (MM/DD/YY): <u>05/07/13</u>			

Page 10 of 10

ORIGINAL

May 15, 2013

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

RE: Project: BRIDGETON LF 98-MSD
Pace Project No.: 60144202

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 09, 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 98-MSD

Pace Project No.: 60144202

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA Certification #: 2456.01

Arkansas Certification #: 12-019-0

Illinois Certification #: 002885

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-12-3

Utah Certification #: KS000212012-2

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144202

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60144202001	98-MSD	Water	05/08/13 07:41	05/09/13 03:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144202

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60144202001	98-MSD	SM 5210B	NDL	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144202

Sample: 98-MSD	Lab ID: 60144202001	Collected: 05/08/13 07:41	Received: 05/09/13 03:00	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	38400	mg/L	2.0	1	05/09/13 15:51	05/14/13 13:29		B1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144202

QC Batch: WET/41184

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60144202001

METHOD BLANK: 1183902

Matrix: Water

Associated Lab Samples: 60144202001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/14/13 13:10	

LABORATORY CONTROL SAMPLE: 1183903

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

SAMPLE DUPLICATE: 1183904

Parameter	Units	60144196001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	375	421	12	17	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144202

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

B1 Less than 1.0 mg/L DO remained for all dilutions set. The reported value is an estimated greater than value and is calculated for the dilution using the least amount of sample.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144202

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60144202001	98-MSD	SM 5210B	WET/41184	SM 5210B	WET/41260

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60144202



60144202

Client Name: Barr Engineering

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

Thermometer Used: T-112 / T-194

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

Cooler Temperature: 3.2

Date and initials of person examining contents: 5/19/13

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>BOO, ph</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>Samples are very dark in color and heavy odor</u>
Includes date/time/ID/analyses Matrix: <u>OT</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>add 2.5ml to HNO3 & H2SO4 initial ph 7.0, final ph 4.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input 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 <u>130941-4203 N/A - 42604</u>
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:

Date: 5/19/13

May 17, 2013

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

RE: Project: BRIDGETON LF 98-MSD
Pace Project No.: 60144204

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 09, 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 05/17/13 to include total Xylene for the associated method blank and laboratory control sample for method EPA 624.

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 98-MSD

Pace Project No.: 60144204

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA Certification #: 2456.01

Arkansas Certification #: 12-019-0

Illinois Certification #: 002885

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-12-3

Utah Certification #: KS000212012-2

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60144204001	98-MSD	Water	05/08/13 07:41	05/09/13 03:00
60144204002	TRIP BLANK	Water	05/08/13 00:00	05/09/13 03:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60144204001	98-MSD	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	JKL	38
		EPA 1664A	JMC1	1
		SM 2540D	RAS	1
		SM 4500-H+B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
60144204002	TRIP BLANK	EPA 624 Low	JKL	38

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

Sample: 98-MSD	Lab ID: 60144204001	Collected: 05/08/13 07:41	Received: 05/09/13 03:00	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	6920 ug/L		150	2	05/10/13 16:45	05/13/13 14:17	7429-90-5	
Antimony	43.7 ug/L		20.0	2	05/10/13 16:45	05/13/13 14:17	7440-36-0	
Arsenic	637 ug/L		20.0	2	05/10/13 16:45	05/13/13 14:17	7440-38-2	
Beryllium	ND ug/L		2.0	2	05/10/13 16:45	05/13/13 14:17	7440-41-7	D3
Cadmium	ND ug/L		10.0	2	05/10/13 16:45	05/13/13 14:17	7440-43-9	D3
Chromium	222 ug/L		10.0	2	05/10/13 16:45	05/13/13 14:17	7440-47-3	
Cobalt	29.7 ug/L		10.0	2	05/10/13 16:45	05/13/13 14:17	7440-48-4	
Copper	20.3 ug/L		20.0	2	05/10/13 16:45	05/13/13 14:17	7440-50-8	
Iron	765000 ug/L		100	2	05/10/13 16:45	05/13/13 14:17	7439-89-6	
Lead	176 ug/L		10.0	2	05/10/13 16:45	05/13/13 14:17	7439-92-1	
Nickel	92.0 ug/L		10.0	2	05/10/13 16:45	05/13/13 14:17	7440-02-0	
Selenium	ND ug/L		30.0	2	05/10/13 16:45	05/13/13 14:17	7782-49-2	D3
Silver	ND ug/L		14.0	2	05/10/13 16:45	05/13/13 14:17	7440-22-4	D3
Thallium	ND ug/L		40.0	2	05/10/13 16:45	05/13/13 14:17	7440-28-0	D3
Zinc	14200 ug/L		100	2	05/10/13 16:45	05/13/13 14:17	7440-66-6	
200.7 Metals, Dissolved (LF) Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum, Dissolved	3720 ug/L		214	2	05/13/13 10:15	05/13/13 15:50	7429-90-5	
Antimony, Dissolved	38.3 ug/L		28.6	2	05/13/13 10:15	05/13/13 15:50	7440-36-0	
Arsenic, Dissolved	511 ug/L		28.6	2	05/13/13 10:15	05/13/13 15:50	7440-38-2	
Beryllium, Dissolved	ND ug/L		2.9	2	05/13/13 10:15	05/13/13 15:50	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		14.3	2	05/13/13 10:15	05/13/13 15:50	7440-43-9	D3
Chromium, Dissolved	187 ug/L		14.3	2	05/13/13 10:15	05/13/13 15:50	7440-47-3	
Cobalt, Dissolved	19.9 ug/L		14.3	2	05/13/13 10:15	05/13/13 15:50	7440-48-4	
Copper, Dissolved	29.4 ug/L		28.6	2	05/13/13 10:15	05/13/13 15:50	7440-50-8	D9
Iron, Dissolved	520000 ug/L		143	2	05/13/13 10:15	05/13/13 15:50	7439-89-6	
Lead, Dissolved	70.8 ug/L		14.3	2	05/13/13 10:15	05/13/13 15:50	7439-92-1	
Nickel, Dissolved	80.2 ug/L		14.3	2	05/13/13 10:15	05/13/13 15:50	7440-02-0	
Selenium, Dissolved	ND ug/L		42.9	2	05/13/13 10:15	05/13/13 15:50	7782-49-2	D3
Silver, Dissolved	ND ug/L		20.0	2	05/13/13 10:15	05/13/13 15:50	7440-22-4	D3
Thallium, Dissolved	ND ug/L		57.1	2	05/13/13 10:15	05/13/13 15:50	7440-28-0	D3
Zinc, Dissolved	12900 ug/L		143	2	05/13/13 10:15	05/13/13 15:50	7440-66-6	
245.1 Mercury Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	17.4 ug/L		0.40	2	05/10/13 11:10	05/13/13 15:06	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	05/14/13 09:25	05/14/13 12:36	7439-97-6	
625 MSSV Analytical Method: EPA 625 Preparation Method: EPA 625								
Acenaphthene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:35	83-32-9	
Acenaphthylene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:35	208-96-8	
Anthracene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:35	120-12-7	
Benzidine	ND ug/L		500	10	05/10/13 00:00	05/13/13 13:35	92-87-5	
Benzo(a)anthracene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:35	56-55-3	
Benzo(a)pyrene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:35	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

Sample: 98-MSD		Lab ID: 60144204001	Collected: 05/08/13 07:41	Received: 05/09/13 03:00	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	50.0	10	05/10/13 00:00	05/13/13 13:35	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	207-08-9	
4-Bromophenylphenyl ether	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	101-55-3	
Butylbenzylphthalate	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	59-50-7	
bis(2-Chloroethoxy)methane	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	60.0	10	05/10/13 00:00	05/13/13 13:35	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	60.0	10	05/10/13 00:00	05/13/13 13:35	39638-32-9	
2-Chloronaphthalene	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	91-58-7	
2-Chlorophenol	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	7005-72-3	
Chrysene	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	53-70-3	
3,3'-Dichlorobenzidine	ND	ug/L	200	10	05/10/13 00:00	05/13/13 13:35	91-94-1	L3
2,4-Dichlorophenol	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	120-83-2	
Diethylphthalate	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	84-66-2	
2,4-Dimethylphenol	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	105-67-9	
Dimethylphthalate	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	131-11-3	
Di-n-butylphthalate	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	250	10	05/10/13 00:00	05/13/13 13:35	534-52-1	
2,4-Dinitrophenol	ND	ug/L	500	10	05/10/13 00:00	05/13/13 13:35	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	60.0	10	05/10/13 00:00	05/13/13 13:35	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	606-20-2	
Di-n-octylphthalate	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	117-81-7	
Fluoranthene	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	206-44-0	
Fluorene	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	87-68-3	
Hexachlorobenzene	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	77-47-4	
Hexachloroethane	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	193-39-5	
Isophorone	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	78-59-1	
Naphthalene	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	91-20-3	
Nitrobenzene	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	98-95-3	
2-Nitrophenol	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	86-30-6	
Pentachlorophenol	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	87-86-5	
Phenanthrene	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	85-01-8	
Phenol	2930	ug/L	500	100	05/10/13 00:00	05/14/13 01:29	108-95-2	
Pyrene	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	50.0	10	05/10/13 00:00	05/13/13 13:35	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

Sample: 98-MSD	Lab ID: 60144204001	Collected: 05/08/13 07:41	Received: 05/09/13 03:00	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	10	05/10/13 00:00	05/13/13 13:35	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	10	05/10/13 00:00	05/13/13 13:35	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	10	05/10/13 00:00	05/13/13 13:35	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	10	05/10/13 00:00	05/13/13 13:35	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	10	05/10/13 00:00	05/13/13 13:35	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	10	05/10/13 00:00	05/13/13 13:35	118-79-6	S4

624 Volatile Organics

Analytical Method: EPA 624 Low

Benzene	ND ug/L		200	200		05/09/13 18:01	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/09/13 18:01	75-27-4	
Bromoform	ND ug/L		200	200		05/09/13 18:01	75-25-2	
Bromomethane	ND ug/L		1000	200		05/09/13 18:01	74-83-9	
Carbon tetrachloride	ND ug/L		200	200		05/09/13 18:01	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/09/13 18:01	108-90-7	
Chloroethane	ND ug/L		200	200		05/09/13 18:01	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/09/13 18:01	110-75-8	
Chloroform	ND ug/L		200	200		05/09/13 18:01	67-66-3	
Chloromethane	ND ug/L		200	200		05/09/13 18:01	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/09/13 18:01	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/09/13 18:01	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/09/13 18:01	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/09/13 18:01	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/09/13 18:01	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/09/13 18:01	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/09/13 18:01	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/09/13 18:01	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/09/13 18:01	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/09/13 18:01	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/09/13 18:01	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/09/13 18:01	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/09/13 18:01	100-41-4	
Methylene chloride	ND ug/L		200	200		05/09/13 18:01	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/09/13 18:01	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/09/13 18:01	127-18-4	
Toluene	ND ug/L		200	200		05/09/13 18:01	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/09/13 18:01	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/09/13 18:01	79-00-5	
Trichloroethene	ND ug/L		200	200		05/09/13 18:01	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/09/13 18:01	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/09/13 18:01	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/09/13 18:01	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101 %		80-120	200		05/09/13 18:01	1868-53-7	D3
4-Bromofluorobenzene (S)	99 %		80-120	200		05/09/13 18:01	460-00-4	
Toluene-d8 (S)	99 %		80-120	200		05/09/13 18:01	2037-26-5	
1,2-Dichloroethane-d4 (S)	105 %		80-120	200		05/09/13 18:01	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

Sample: 98-MSD		Lab ID: 60144204001	Collected: 05/08/13 07:41	Received: 05/09/13 03:00	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		05/09/13 18:01		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	451	mg/L	5.0	1		05/09/13 12:36		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	775	mg/L	5.0	1		05/13/13 08:35		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.4	Std. Units	0.10	1		05/10/13 09:30		H6
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	614	mg/L	20.0	1		05/10/13 11:03	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	49200	mg/L	5000	500		05/14/13 15:01		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

Sample: TRIP BLANK	Lab ID: 60144204002	Collected: 05/08/13 00:00	Received: 05/09/13 03:00	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		05/09/13 17:19	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		05/09/13 17:19	75-27-4	
Bromoform	ND ug/L		1.0	1		05/09/13 17:19	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/09/13 17:19	74-83-9	
Carbon tetrachloride	ND ug/L		1.0	1		05/09/13 17:19	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/09/13 17:19	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/09/13 17:19	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		05/09/13 17:19	110-75-8	
Chloroform	ND ug/L		1.0	1		05/09/13 17:19	67-66-3	
Chloromethane	ND ug/L		1.0	1		05/09/13 17:19	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		05/09/13 17:19	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/09/13 17:19	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/09/13 17:19	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/09/13 17:19	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		05/09/13 17:19	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/09/13 17:19	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/09/13 17:19	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/09/13 17:19	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/09/13 17:19	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		05/09/13 17:19	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		05/09/13 17:19	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		05/09/13 17:19	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		05/09/13 17:19	100-41-4	
Methylene chloride	ND ug/L		1.0	1		05/09/13 17:19	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/09/13 17:19	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/09/13 17:19	127-18-4	
Toluene	ND ug/L		1.0	1		05/09/13 17:19	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/09/13 17:19	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/09/13 17:19	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/09/13 17:19	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/09/13 17:19	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		05/09/13 17:19	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/09/13 17:19	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101 %		80-120	1		05/09/13 17:19	1868-53-7	
4-Bromofluorobenzene (S)	98 %		80-120	1		05/09/13 17:19	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		05/09/13 17:19	2037-26-5	
1,2-Dichloroethane-d4 (S)	99 %		80-120	1		05/09/13 17:19	17060-07-0	
Preservation pH	7.0		1.0	1		05/09/13 17:19		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

QC Batch: MERP/7327 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
 Associated Lab Samples: 60144204001

METHOD BLANK: 1183686 Matrix: Water

Associated Lab Samples: 60144204001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/10/13 13:58	

LABORATORY CONTROL SAMPLE: 1183687

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1183688 1183689

Parameter	Units	60143961002 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Mercury	ug/L	ND	5	5	4.7	4.8	92	93	70-130	1	20	

MATRIX SPIKE SAMPLE: 1183690

Parameter	Units	60144066001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.7	94	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

QC Batch:	MERP/7337	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60144204001		

METHOD BLANK: 1186565 Matrix: Water
Associated Lab Samples: 60144204001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/14/13 12:30	

LABORATORY CONTROL SAMPLE: 1186566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.2	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1186567 1186568

Parameter	Units	60144207001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	2.6	2.6	52	52	70-130	1	20	M1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

QC Batch: MPRP/22634 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60144204001

METHOD BLANK: 1185358 Matrix: Water

Associated Lab Samples: 60144204001

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

LABORATORY CONTROL SAMPLE: 1185359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	85-115	
Antimony	ug/L	1000	1040	104	85-115	
Arsenic	ug/L	1000	999	100	85-115	
Beryllium	ug/L	1000	1030	103	85-115	
Cadmium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	1000	999	100	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	1010	101	85-115	
Iron	ug/L	10000	10200	102	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1050	105	85-115	
Selenium	ug/L	1000	1020	102	85-115	
Silver	ug/L	500	513	103	85-115	
Thallium	ug/L	1000	1070	107	85-115	
Zinc	ug/L	1000	1020	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1185360 1185361

Parameter	Units	60144275001 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	10600	10600	105	105	70-130	0	8

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

Parameter	Units	60144275001		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	1060	1080	106	108	70-130	2	7				
Arsenic	ug/L	ND	1000	1000	1020	1040	102	103	70-130	2	10				
Beryllium	ug/L	ND	1000	1000	1020	1020	102	102	70-130	0	7				
Cadmium	ug/L	ND	1000	1000	1020	1020	102	102	70-130	1	10				
Chromium	ug/L	ND	1000	1000	974	974	97	97	70-130	0	10				
Cobalt	ug/L	ND	1000	1000	1000	1010	100	101	70-130	1	6				
Copper	ug/L	ND	1000	1000	1030	1030	102	102	70-130	0	11				
Iron	ug/L	158	10000	10000	10000	10000	99	99	70-130	0	10				
Lead	ug/L	ND	1000	1000	1010	1020	101	102	70-130	1	10				
Nickel	ug/L	ND	1000	1000	1010	1020	101	102	70-130	1	10				
Selenium	ug/L	ND	1000	1000	1040	1050	104	105	70-130	1	10				
Silver	ug/L	ND	500	500	508	512	101	102	70-130	1	10				
Thallium	ug/L	ND	1000	1000	1020	1030	102	103	70-130	1	6				
Zinc	ug/L	ND	1000	1000	994	993	98	98	70-130	0	11				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

QC Batch:	MPRP/22638	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60144204001		

METHOD BLANK: 1186167 Matrix: Water

Associated Lab Samples: 60144204001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	05/13/13 15:41	
Antimony, Dissolved	ug/L	ND	10.0	05/13/13 15:41	
Arsenic, Dissolved	ug/L	ND	10.0	05/13/13 15:41	
Beryllium, Dissolved	ug/L	ND	1.0	05/13/13 15:41	
Cadmium, Dissolved	ug/L	ND	5.0	05/13/13 15:41	
Chromium, Dissolved	ug/L	ND	5.0	05/13/13 15:41	
Cobalt, Dissolved	ug/L	ND	5.0	05/13/13 15:41	
Copper, Dissolved	ug/L	ND	10.0	05/13/13 15:41	
Iron, Dissolved	ug/L	ND	50.0	05/13/13 15:41	
Lead, Dissolved	ug/L	ND	5.0	05/13/13 15:41	
Nickel, Dissolved	ug/L	ND	5.0	05/13/13 15:41	
Selenium, Dissolved	ug/L	ND	15.0	05/13/13 15:41	
Silver, Dissolved	ug/L	ND	7.0	05/13/13 15:41	
Thallium, Dissolved	ug/L	ND	20.0	05/13/13 15:41	
Zinc, Dissolved	ug/L	ND	50.0	05/13/13 15:41	

LABORATORY CONTROL SAMPLE: 1186168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10600	106	85-115	
Antimony, Dissolved	ug/L	1000	1070	107	85-115	
Arsenic, Dissolved	ug/L	1000	1010	101	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	954	95	85-115	
Cobalt, Dissolved	ug/L	1000	1030	103	85-115	
Copper, Dissolved	ug/L	1000	1030	103	85-115	
Iron, Dissolved	ug/L	10000	9600	96	85-115	
Lead, Dissolved	ug/L	1000	1040	104	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1040	104	85-115	
Silver, Dissolved	ug/L	500	510	102	85-115	
Thallium, Dissolved	ug/L	1000	1080	108	85-115	
Zinc, Dissolved	ug/L	1000	990	99	85-115	

SAMPLE DUPLICATE: 1186173

Parameter	Units	60144068001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum, Dissolved	ug/L	2750	2790	2	20	
Antimony, Dissolved	ug/L	28.6	32.3	12	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

SAMPLE DUPLICATE: 1186173

Parameter	Units	60144068001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic, Dissolved	ug/L	488	494	1	20	
Beryllium, Dissolved	ug/L	ND	ND		20	
Cadmium, Dissolved	ug/L	ND	ND		20	
Chromium, Dissolved	ug/L	161	161	0	20	
Cobalt, Dissolved	ug/L	20.2	20.7	3	20	
Copper, Dissolved	ug/L	ND	22.6		20	
Iron, Dissolved	ug/L	410000	420000	3	20	
Lead, Dissolved	ug/L	81.1	85.9	6	20	
Nickel, Dissolved	ug/L	66.1	66.5	1	20	
Selenium, Dissolved	ug/L	ND	ND		20	
Silver, Dissolved	ug/L	ND	7.2J		20	
Thallium, Dissolved	ug/L	ND	ND		20	
Zinc, Dissolved	ug/L	8670	8760	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

QC Batch: MSV/53500 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60144204001, 60144204002

METHOD BLANK: 1183666 Matrix: Water

Associated Lab Samples: 60144204001, 60144204002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/09/13 14:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/09/13 14:29	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/09/13 14:29	
1,1-Dichloroethane	ug/L	ND	1.0	05/09/13 14:29	
1,1-Dichloroethene	ug/L	ND	1.0	05/09/13 14:29	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/09/13 14:29	
1,2-Dichloroethane	ug/L	ND	1.0	05/09/13 14:29	
1,2-Dichloropropane	ug/L	ND	1.0	05/09/13 14:29	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/09/13 14:29	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/09/13 14:29	
2-Chloroethylvinyl ether	ug/L	ND	10.0	05/09/13 14:29	
Benzene	ug/L	ND	1.0	05/09/13 14:29	
Bromodichloromethane	ug/L	ND	1.0	05/09/13 14:29	
Bromoform	ug/L	ND	1.0	05/09/13 14:29	
Bromomethane	ug/L	ND	5.0	05/09/13 14:29	
Carbon tetrachloride	ug/L	ND	1.0	05/09/13 14:29	
Chlorobenzene	ug/L	ND	1.0	05/09/13 14:29	
Chloroethane	ug/L	ND	1.0	05/09/13 14:29	
Chloroform	ug/L	ND	1.0	05/09/13 14:29	
Chloromethane	ug/L	ND	1.0	05/09/13 14:29	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/09/13 14:29	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/09/13 14:29	
Dibromochloromethane	ug/L	ND	1.0	05/09/13 14:29	
Ethylbenzene	ug/L	ND	1.0	05/09/13 14:29	
Methylene chloride	ug/L	ND	1.0	05/09/13 14:29	
Tetrachloroethene	ug/L	ND	1.0	05/09/13 14:29	
Toluene	ug/L	ND	1.0	05/09/13 14:29	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/09/13 14:29	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/09/13 14:29	
Trichloroethene	ug/L	ND	1.0	05/09/13 14:29	
Trichlorofluoromethane	ug/L	ND	1.0	05/09/13 14:29	
Vinyl chloride	ug/L	ND	1.0	05/09/13 14:29	
Xylene (Total)	ug/L	ND	3.0	05/09/13 14:29	
1,2-Dichloroethane-d4 (S)	%	99	80-120	05/09/13 14:29	
4-Bromofluorobenzene (S)	%	99	80-120	05/09/13 14:29	
Dibromofluoromethane (S)	%	101	80-120	05/09/13 14:29	
Toluene-d8 (S)	%	101	80-120	05/09/13 14:29	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

LABORATORY CONTROL SAMPLE: 1183667

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.0	110	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	20.0	100	59-138	
1,1,2-Trichloroethane	ug/L	20	18.7	93	69-127	
1,1-Dichloroethane	ug/L	20	18.7	94	69-126	
1,1-Dichloroethene	ug/L	20	20.3	101	65-153	
1,2-Dichlorobenzene	ug/L	20	21.6	108	66-126	
1,2-Dichloroethane	ug/L	20	20.1	100	71-129	
1,2-Dichloropropane	ug/L	20	20.7	103	66-140	
1,3-Dichlorobenzene	ug/L	20	21.0	105	63-127	
1,4-Dichlorobenzene	ug/L	20	20.7	104	68-124	
2-Chloroethylvinyl ether	ug/L	20	23.1	116	33-159	
Benzene	ug/L	20	20.4	102	73-129	
Bromodichloromethane	ug/L	20	20.4	102	63-129	
Bromoform	ug/L	20	17.6	88	52-123	
Bromomethane	ug/L	20	18.5	93	10-160	
Carbon tetrachloride	ug/L	20	21.9	110	70-140	
Chlorobenzene	ug/L	20	20.7	103	68-127	
Chloroethane	ug/L	20	17.9	89	42-160	
Chloroform	ug/L	20	20.3	102	60-120	
Chloromethane	ug/L	20	13.2	66	10-160	
cis-1,2-Dichloroethene	ug/L	20	20.7	104	70-125	
cis-1,3-Dichloropropene	ug/L	20	20.8	104	66-132	
Dibromochloromethane	ug/L	20	21.7	108	63-134	
Ethylbenzene	ug/L	20	21.2	106	66-133	
Methylene chloride	ug/L	20	16.7	84	56-135	
Tetrachloroethene	ug/L	20	21.4	107	64-143	
Toluene	ug/L	20	20.9	104	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.4	97	67-149	
trans-1,3-Dichloropropene	ug/L	20	21.4	107	66-138	
Trichloroethene	ug/L	20	20.2	101	71-130	
Trichlorofluoromethane	ug/L	20	17.9	90	58-158	
Vinyl chloride	ug/L	20	17.3	86	41-160	
Xylene (Total)	ug/L	60	63.3	106	67-130	
1,2-Dichloroethane-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Dibromofluoromethane (S)	%			100	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1183668

Parameter	Units	60144068001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	3830	96	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	3510	88	46-157	
1,1,2-Trichloroethane	ug/L	ND	4000	3360	84	52-150	
1,1-Dichloroethane	ug/L	ND	4000	3210	80	59-155	
1,1-Dichloroethene	ug/L	ND	4000	3560	89	14-160	
1,2-Dichlorobenzene	ug/L	ND	4000	3730	93	18-145	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

MATRIX SPIKE SAMPLE:		1183668		60144068001		Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits		
1,2-Dichloroethane	ug/L	ND	4000	3620	90	3620	90	49-155		
1,2-Dichloropropane	ug/L	ND	4000	3660	91	3660	91	12-160		
1,3-Dichlorobenzene	ug/L	ND	4000	3590	90	3590	90	59-146		
1,4-Dichlorobenzene	ug/L	ND	4000	3620	90	3620	90	18-147		
2-Chloroethylvinyl ether	ug/L	ND	4000	5340	134	5340	134	10-160		
Benzene	ug/L	ND	4000	3610	90	3610	90	37-151		
Bromodichloromethane	ug/L	ND	4000	3560	89	3560	89	35-155		
Bromoform	ug/L	ND	4000	3040	75	3040	75	45-133		
Bromomethane	ug/L	ND	4000	1240	31	1240	31	10-160		
Carbon tetrachloride	ug/L	ND	4000	3760	94	3760	94	70-140		
Chlorobenzene	ug/L	ND	4000	3580	90	3580	90	37-153		
Chloroethane	ug/L	ND	4000	3020	76	3020	76	14-160		
Chloroform	ug/L	ND	4000	3610	90	3610	90	51-138		
Chloromethane	ug/L	ND	4000	2380	60	2380	60	10-160		
cis-1,2-Dichloroethene	ug/L	ND	4000	3530	88	3530	88	19-160		
cis-1,3-Dichloropropene	ug/L	ND	4000	3610	90	3610	90	10-160		
Dibromochloromethane	ug/L	ND	4000	3690	92	3690	92	53-149		
Ethylbenzene	ug/L	ND	4000	3740	93	3740	93	37-154		
Methylene chloride	ug/L	ND	4000	2790	70	2790	70	15-156		
Tetrachloroethene	ug/L	ND	4000	3720	93	3720	93	64-148		
Toluene	ug/L	ND	4000	3680	92	3680	92	47-150		
trans-1,2-Dichloroethene	ug/L	ND	4000	3320	83	3320	83	54-156		
trans-1,3-Dichloropropene	ug/L	ND	4000	3770	94	3770	94	17-160		
Trichloroethene	ug/L	ND	4000	3580	89	3580	89	71-157		
Trichlorofluoromethane	ug/L	ND	4000	3050	76	3050	76	17-160		
Vinyl chloride	ug/L	ND	4000	2750	69	2750	69	10-160		
Xylene (Total)	ug/L	ND	12000	11100	92	11100	92	12-153		
1,2-Dichloroethane-d4 (S)	%						103	80-120		
4-Bromofluorobenzene (S)	%						104	80-120		
Dibromofluoromethane (S)	%						101	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 98-MSD

Pace Project No.: 60144204

QC Batch: OEXT/38327

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60144204001

METHOD BLANK: 1184920

Matrix: Water

Associated Lab Samples: 60144204001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/13/13 12:33	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/13/13 12:33	
2,4-Dichlorophenol	ug/L	ND	5.0	05/13/13 12:33	
2,4-Dimethylphenol	ug/L	ND	5.0	05/13/13 12:33	
2,4-Dinitrophenol	ug/L	ND	50.0	05/13/13 12:33	
2,4-Dinitrotoluene	ug/L	ND	6.0	05/13/13 12:33	
2,6-Dinitrotoluene	ug/L	ND	5.0	05/13/13 12:33	
2-Chloronaphthalene	ug/L	ND	5.0	05/13/13 12:33	
2-Chlorophenol	ug/L	ND	5.0	05/13/13 12:33	
2-Nitrophenol	ug/L	ND	5.0	05/13/13 12:33	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	05/13/13 12:33	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/13/13 12:33	
4-Bromophenylphenyl ether	ug/L	ND	5.0	05/13/13 12:33	
4-Chloro-3-methylphenol	ug/L	ND	5.0	05/13/13 12:33	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	05/13/13 12:33	
4-Nitrophenol	ug/L	ND	5.0	05/13/13 12:33	
Acenaphthene	ug/L	ND	5.0	05/13/13 12:33	
Acenaphthylene	ug/L	ND	5.0	05/13/13 12:33	
Anthracene	ug/L	ND	5.0	05/13/13 12:33	
Benzidine	ug/L	ND	50.0	05/13/13 12:33	
Benzo(a)anthracene	ug/L	ND	5.0	05/13/13 12:33	
Benzo(a)pyrene	ug/L	ND	5.0	05/13/13 12:33	
Benzo(b)fluoranthene	ug/L	ND	5.0	05/13/13 12:33	
Benzo(g,h,i)perylene	ug/L	ND	5.0	05/13/13 12:33	
Benzo(k)fluoranthene	ug/L	ND	5.0	05/13/13 12:33	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	05/13/13 12:33	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	05/13/13 12:33	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	05/13/13 12:33	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	05/13/13 12:33	
Butylbenzylphthalate	ug/L	ND	5.0	05/13/13 12:33	
Chrysene	ug/L	ND	5.0	05/13/13 12:33	
Di-n-butylphthalate	ug/L	ND	5.0	05/13/13 12:33	
Di-n-octylphthalate	ug/L	ND	5.0	05/13/13 12:33	
Dibenz(a,h)anthracene	ug/L	ND	5.0	05/13/13 12:33	
Diethylphthalate	ug/L	ND	5.0	05/13/13 12:33	
Dimethylphthalate	ug/L	ND	5.0	05/13/13 12:33	
Fluoranthene	ug/L	ND	5.0	05/13/13 12:33	
Fluorene	ug/L	ND	5.0	05/13/13 12:33	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/13/13 12:33	
Hexachlorobenzene	ug/L	ND	5.0	05/13/13 12:33	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/13/13 12:33	
Hexachloroethane	ug/L	ND	5.0	05/13/13 12:33	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	05/13/13 12:33	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 98-MSD

Project No.: 60144204

METHOD BLANK: 1184920

Matrix: Water

Associated Lab Samples: 60144204001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	05/13/13 12:33	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	05/13/13 12:33	
N-Nitrosodimethylamine	ug/L	ND	5.0	05/13/13 12:33	
N-Nitrosodiphenylamine	ug/L	ND	5.0	05/13/13 12:33	
Naphthalene	ug/L	ND	5.0	05/13/13 12:33	
Nitrobenzene	ug/L	ND	5.0	05/13/13 12:33	
Pentachlorophenol	ug/L	ND	5.0	05/13/13 12:33	
Phenanthrene	ug/L	ND	5.0	05/13/13 12:33	
Phenol	ug/L	ND	5.0	05/13/13 12:33	
Pyrene	ug/L	ND	5.0	05/13/13 12:33	
2,4,6-Tribromophenol (S)	%	72	39-119	05/13/13 12:33	
2-Fluorobiphenyl (S)	%	60	36-120	05/13/13 12:33	
2-Fluorophenol (S)	%	30	18-120	05/13/13 12:33	
Nitrobenzene-d5 (S)	%	64	32-120	05/13/13 12:33	
Phenol-d6 (S)	%	19	12-120	05/13/13 12:33	
Terphenyl-d14 (S)	%	72	44-120	05/13/13 12:33	

LABORATORY CONTROL SAMPLE: 1184921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	30.4	61	44-120	
2,4,6-Trichlorophenol	ug/L	50	34.6	69	48-120	
2,4-Dichlorophenol	ug/L	50	32.1	64	48-120	
2,4-Dimethylphenol	ug/L	50	28.1	56	37-119	
2,4-Dinitrophenol	ug/L	50	46.7J	93	15-153	
2,4-Dinitrotoluene	ug/L	50	40.6	81	54-120	
2,6-Dinitrotoluene	ug/L	50	38.2	76	52-120	
2-Chloronaphthalene	ug/L	50	31.5	63	60-118	
2-Chlorophenol	ug/L	50	29.5	59	44-120	
2-Nitrophenol	ug/L	50	40.1	80	43-120	
3,3'-Dichlorobenzidine	ug/L	50	92.4	185	23-160	LO
4,6-Dinitro-2-methylphenol	ug/L	50	49.0	98	31-147	
4-Bromophenylphenyl ether	ug/L	50	33.8	68	53-120	
4-Chloro-3-methylphenol	ug/L	50	31.7	63	50-120	
4-Chlorophenylphenyl ether	ug/L	50	32.0	64	54-120	
4-Nitrophenol	ug/L	50	11.0	22	10-120	
Acenaphthene	ug/L	50	31.9	64	51-120	
Acenaphthylene	ug/L	50	31.0	62	51-120	
Anthracene	ug/L	50	33.0	66	54-120	
Benzidine	ug/L	50	24.4J	49	1-124	
Benzo(a)anthracene	ug/L	50	35.1	70	54-120	
Benzo(a)pyrene	ug/L	50	30.0	60	54-120	
Benzo(b)fluoranthene	ug/L	50	36.3	73	57-120	
Benzo(g,h,i)perylene	ug/L	50	35.3	71	54-120	
Benzo(k)fluoranthene	ug/L	50	31.7	63	52-121	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

LABORATORY CONTROL SAMPLE: 1184921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	50	30.9	62	51-120	
bis(2-Chloroethyl) ether	ug/L	50	31.3	63	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	32.5	65	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	42.3	85	51-126	
Butylbenzylphthalate	ug/L	50	42.3	85	45-129	
Chrysene	ug/L	50	34.5	69	54-120	
Di-n-butylphthalate	ug/L	50	37.9	76	57-118	
Di-n-octylphthalate	ug/L	50	45.7	91	48-130	
Dibenz(a,h)anthracene	ug/L	50	37.8	76	56-119	
Diethylphthalate	ug/L	50	33.7	67	55-114	
Dimethylphthalate	ug/L	50	33.1	66	54-112	
Fluoranthene	ug/L	50	34.9	70	56-120	
Fluorene	ug/L	50	32.9	66	59-120	
Hexachloro-1,3-butadiene	ug/L	50	29.6	59	41-116	
Hexachlorobenzene	ug/L	50	33.9	68	53-120	
Hexachlorocyclopentadiene	ug/L	100	32.9	33	31-120	
Hexachloroethane	ug/L	50	30.2	60	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	35.7	71	55-120	
Isophorone	ug/L	50	31.1	62	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	31.6	63	47-120	
N-Nitrosodimethylamine	ug/L	50	17.8	36	28-120	
N-Nitrosodiphenylamine	ug/L	50	31.2	62	53-120	
Naphthalene	ug/L	50	31.6	63	48-120	
Nitrobenzene	ug/L	50	32.4	65	47-120	
Pentachlorophenol	ug/L	50	41.5	83	43-127	
Phenanthrene	ug/L	50	33.3	67	55-120	
Phenol	ug/L	50	9.9	20	15-112	
Pyrene	ug/L	50	36.1	72	55-115	
2,4,6-Tribromophenol (S)	%			82	39-119	
2-Fluorobiphenyl (S)	%			62	36-120	
2-Fluorophenol (S)	%			31	18-120	
Nitrobenzene-d5 (S)	%			66	32-120	M4
Phenol-d6 (S)	%			20	12-120	
Terphenyl-d14 (S)	%			74	44-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

QC Batch: WET/41180

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60144204001

METHOD BLANK: 1183845

Matrix: Water

Associated Lab Samples: 60144204001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	05/09/13 12:34	

LABORATORY CONTROL SAMPLE: 1183846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	41.4	103	78-114	

MATRIX SPIKE SAMPLE: 1183847

Parameter	Units	60144147001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40.8	45.5	76.0	78	78-114	

SAMPLE DUPLICATE: 1183848

Parameter	Units	60144156002 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 98-MSD

Pace Project No.: 60144204

QC Batch: WET/41222

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60144204001

METHOD BLANK: 1186091

Matrix: Water

Associated Lab Samples: 60144204001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/13/13 08:32	

SAMPLE DUPLICATE: 1186092

Parameter	Units	60144266001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	12.0	12.0	0	25	

SAMPLE DUPLICATE: 1186093

Parameter	Units	60144265002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	12.0	10.0	18	25	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

QC Batch: WET/41194 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60144204001

SAMPLE DUPLICATE: 1184317

Parameter	Units	60144179001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.1	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 98-MSD
Pace Project No.: 60144204

QC Batch: WETA/24624 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60144204001

METHOD BLANK: 1184236 Matrix: Water
Associated Lab Samples: 60144204001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/10/13 10:32	

LABORATORY CONTROL SAMPLE: 1184237

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

MATRIX SPIKE SAMPLE: 1184238

Parameter	Units	60143975001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.40	2	2.0	78	90-110	M1

MATRIX SPIKE SAMPLE: 1184240

Parameter	Units	60144200001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	6.2	4	9.3	78	90-110	M1

SAMPLE DUPLICATE: 1184239

Parameter	Units	60144016003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	731	759	4	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

QC Batch:	WETA/24668	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60144204001		

METHOD BLANK: 1186399 Matrix: Water
Associated Lab Samples: 60144204001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/14/13 14:58	

LABORATORY CONTROL SAMPLE: 1186400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	47.2	94	90-110	

MATRIX SPIKE SAMPLE: 1186401

Parameter	Units	60144068001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	40100	25000	62700	91	90-110	

SAMPLE DUPLICATE: 1186402

Parameter	Units	60144204001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	49200	48500	1	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 98-MSD

Pace Project No.: 60144204

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.
- D9 Dissolved result is greater than the total. Data is within laboratory control limits.
- H6 Analysis initiated outside of the 15 minute EPA recommended holding time.
- L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- 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.
- M4 A matrix spike/matrix spike duplicate was not performed for this batch due to sample dilution.
- 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 98-MSD

Pace Project No.: 60144204

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60144204001	98-MSD	EPA 200.7	MPRP/22634	EPA 200.7	ICP/17942
60144204001	98-MSD	EPA 200.7	MPRP/22638	EPA 200.7	ICP/17943
60144204001	98-MSD	EPA 245.1	MERP/7327	EPA 245.1	MERC/7287
60144204001	98-MSD	EPA 245.1	MERP/7337	EPA 245.1	MERC/7293
60144204001	98-MSD	EPA 625	OEXT/38327	EPA 625	MSSV/12107
60144204001	98-MSD	EPA 624 Low	MSV/53500		
60144204002	TRIP BLANK	EPA 624 Low	MSV/53500		
60144204001	98-MSD	EPA 1664A	WET/41180		
60144204001	98-MSD	SM 2540D	WET/41222		
60144204001	98-MSD	SM 4500-H+B	WET/41194		
60144204001	98-MSD	EPA 350.1	WETA/24624		
60144204001	98-MSD	EPA 410.4	WETA/24668		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60144204



Client Name: Barr Engineering

Courier: Fed Ex UPS USPS Client Commercial Pace Other Xroads

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

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

Cooler Temperature: 3.2

Date and initials of person examining contents: 5/9/13

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 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, ph</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>Samples are very dark in color and heavy odor</u>
Includes date/time/ID/analyses Matrix: <u>OT</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>add 2.5ml to HNO3 + H2SO4 initial ph 7.0, final ph 4.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed Lot # of added preservative <u>130941-4605 N/A - 42504</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>covered</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	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: 5/10/13

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A

Required Client Information:

Section B

Required Project Information:

Section C

Invoice Information:

Company: BARR ENGINEERING	Report To: ED GALBRAITH	Attention:	REGULATORY AGENCY		
Address:	Copy To:	Company Name:	<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER		
Email To:	Purchase Order No.:	Pace Quote Reference: 130426_7588	Site Location		
Phone: Fax:	Project Name: BRIDGETON LANDFILL	Pace Project Manager: Angie Brown 913-563-1402	STATE: <u>MO</u>	[Shaded Area]	
Requested Due Date/TAT:	Project Number:	Pace Profile #:			

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL QL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Pace Project No./ Lab I.D.								
					COMPOSITE START		COMPOSITE END/GRAB				↓ Analysis Test ↓	Y/N	Preservatives																
					DATE	TIME	DATE	TIME					Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		BOD SM 5210B	COD 410	LF Dis. Metals 200.7 *	Mercury EPA 245	Ammonia EPA 350	Oil/Grease EPA 1664	625 SVOCs	624 VOCs
1	9B-MSD2A6H3A6H4,18P14,18P26		OT	G		5/8/13	0741	14	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	ND99u *Metals list: Cu
2	TRIP BLANK							2	2	✓																		209u (LTD) Al, Sb, As, Be, Cd, Cr	
3																												Co, Cu, Fe, Pb, Ni, Se, Ag, Tl, Zn	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	<i>Mick F. Abernathy</i>	5/8/13	1411	<i>Ed Galbraith</i> 554	5/8/13	2:12				
SITE ADDRESS: BRIDGETON LF 13570 ST. CHARLES ROCK RD BRIDGETON MO 63044				<i>E. Brockett</i> PASI	5/9	0300	3.2	Y	Y	Y

SAMPLER NAME AND SIGNATURE				Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>WILLIAM ABERNATHY</i>						
SIGNATURE of SAMPLER:	<i>Mick F. Abernathy</i>			DATE Signed (MM/DD/YY):	5/8/13		

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

May 16, 2013

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

RE: Project: BRIDGETON LF 100-MSD
Pace Project No.: 60144206

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 09, 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 100-MSD

Pace Project No.: 60144206

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA Certification #: 2456.01

Arkansas Certification #: 12-019-0

Illinois Certification #: 002885

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-12-3

Utah Certification #: KS000212012-2

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144206

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60144206001	100-MSD	Water	05/08/13 10:51	05/09/13 03:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144206

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60144206001	100-MSD	SM 5210B	NDL	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144206

Sample: 100-MSD	Lab ID: 60144206001	Collected: 05/08/13 10:51	Received: 05/09/13 03:00	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	29300	mg/L	2.0	1	05/10/13 10:03	05/15/13 13:52		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144206

QC Batch: WET/41196

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60144206001

METHOD BLANK: 1184398

Matrix: Water

Associated Lab Samples: 60144206001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/15/13 13:36	

LABORATORY CONTROL SAMPLE: 1184399

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

SAMPLE DUPLICATE: 1184400

Parameter	Units	60144284001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	35.5	41.4	16	17	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144206

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 100-MSD

Pace Project No.: 60144206

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60144206001	100-MSD	SM 5210B	WET/41196	SM 5210B	WET/41283

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60144206
60144206

Client Name: Barr Engineering

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

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

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

Cooler Temperature: 4.2

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: 5/9/13 [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>BOO, ph</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>Samples are very dark and have heavy odor</u>
Includes date/time/ID/analyses Matrix: <u>OT</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>added 2.5 ml to both HNO3 & H2SO4 initial ph 7.0, final ph 4.0</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> , coliform, TOC, <u>O&G</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>[Signature]</u> Lot # of added preservative <u>13094 - HNO3 N/A - H2SO4</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>Covered</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	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: _____

May 15, 2013

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

RE: Project: BRIDGETON LF 100-MSD
Pace Project No.: 60144207

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 09, 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 100-MSD

Pace Project No.: 60144207

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA Certification #: 2456.01

Arkansas Certification #: 12-019-0

Illinois Certification #: 002885

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-12-3

Utah Certification #: KS000212012-2

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60144207001	100-MSD	Water	05/08/13 10:51	05/09/13 03:00
60144207002	TRIP BLANK	Water	05/08/13 00:00	05/09/13 03:00

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60144207001	100-MSD	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	PRG	38
		EPA 1664A	JMC1	1
		SM 2540D	RAS	1
		SM 4500-H+B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
		60144207002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

Sample: 100-MSD		Lab ID: 60144207001	Collected: 05/08/13 10:51	Received: 05/09/13 03:00	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	8070 ug/L		150	2	05/10/13 16:45	05/13/13 14:20	7429-90-5	
Antimony	27.4 ug/L		20.0	2	05/10/13 16:45	05/13/13 14:20	7440-36-0	
Arsenic	861 ug/L		20.0	2	05/10/13 16:45	05/13/13 14:20	7440-38-2	
Beryllium	ND ug/L		2.0	2	05/10/13 16:45	05/13/13 14:20	7440-41-7	D3
Cadmium	ND ug/L		10.0	2	05/10/13 16:45	05/13/13 14:20	7440-43-9	D3
Chromium	245 ug/L		10.0	2	05/10/13 16:45	05/13/13 14:20	7440-47-3	
Cobalt	38.2 ug/L		10.0	2	05/10/13 16:45	05/13/13 14:20	7440-48-4	
Copper	22.8 ug/L		20.0	2	05/10/13 16:45	05/13/13 14:20	7440-50-8	
Iron	781000 ug/L		100	2	05/10/13 16:45	05/13/13 14:20	7439-89-6	
Lead	179 ug/L		10.0	2	05/10/13 16:45	05/13/13 14:20	7439-92-1	
Nickel	97.8 ug/L		10.0	2	05/10/13 16:45	05/13/13 14:20	7440-02-0	
Selenium	ND ug/L		30.0	2	05/10/13 16:45	05/13/13 14:20	7782-49-2	D3
Silver	ND ug/L		14.0	2	05/10/13 16:45	05/13/13 14:20	7440-22-4	D3
Thallium	ND ug/L		40.0	2	05/10/13 16:45	05/13/13 14:20	7440-28-0	D3
Zinc	13800 ug/L		100	2	05/10/13 16:45	05/13/13 14:20	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	3730 ug/L		150	2	05/13/13 10:15	05/13/13 15:53	7429-90-5	
Antimony, Dissolved	39.8 ug/L		20.0	2	05/13/13 10:15	05/13/13 15:53	7440-36-0	D9
Arsenic, Dissolved	754 ug/L		20.0	2	05/13/13 10:15	05/13/13 15:53	7440-38-2	
Beryllium, Dissolved	ND ug/L		2.0	2	05/13/13 10:15	05/13/13 15:53	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		10.0	2	05/13/13 10:15	05/13/13 15:53	7440-43-9	D3
Chromium, Dissolved	197 ug/L		10.0	2	05/13/13 10:15	05/13/13 15:53	7440-47-3	
Cobalt, Dissolved	26.7 ug/L		10.0	2	05/13/13 10:15	05/13/13 15:53	7440-48-4	
Copper, Dissolved	ND ug/L		20.0	2	05/13/13 10:15	05/13/13 15:53	7440-50-8	D3
Iron, Dissolved	508000 ug/L		100	2	05/13/13 10:15	05/13/13 15:53	7439-89-6	
Lead, Dissolved	87.0 ug/L		10.0	2	05/13/13 10:15	05/13/13 15:53	7439-92-1	
Nickel, Dissolved	82.7 ug/L		10.0	2	05/13/13 10:15	05/13/13 15:53	7440-02-0	
Selenium, Dissolved	ND ug/L		30.0	2	05/13/13 10:15	05/13/13 15:53	7782-49-2	D3
Silver, Dissolved	ND ug/L		14.0	2	05/13/13 10:15	05/13/13 15:53	7440-22-4	D3
Thallium, Dissolved	ND ug/L		40.0	2	05/13/13 10:15	05/13/13 15:53	7440-28-0	D3
Zinc, Dissolved	12100 ug/L		100	2	05/13/13 10:15	05/13/13 15:53	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	2.4 ug/L		0.20	1	05/10/13 11:10	05/10/13 14:23	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	05/14/13 09:25	05/14/13 12:39	7439-97-6	M1
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	83-32-9	
Acenaphthylene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	208-96-8	
Anthracene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	120-12-7	
Benzidine	ND ug/L		500	10	05/10/13 00:00	05/13/13 13:56	92-87-5	
Benzo(a)anthracene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	56-55-3	
Benzo(a)pyrene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

Sample: 100-MSD	Lab ID: 60144207001	Collected: 05/08/13 10:51	Received: 05/09/13 03:00	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		50.0	10	05/10/13 00:00	05/13/13 13:56	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	191-24-2	
Benzo(k)fluoranthene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	207-08-9	
4-Bromophenylphenyl ether	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	101-55-3	
Butylbenzylphthalate	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	85-68-7	
4-Chloro-3-methylphenol	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	59-50-7	
bis(2-Chloroethoxy)methane	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		60.0	10	05/10/13 00:00	05/13/13 13:56	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		60.0	10	05/10/13 00:00	05/13/13 13:56	39638-32-9	
2-Chloronaphthalene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	91-58-7	
2-Chlorophenol	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	7005-72-3	
Chrysene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	53-70-3	
3,3'-Dichlorobenzidine	ND ug/L		200	10	05/10/13 00:00	05/13/13 13:56	91-94-1	L3
2,4-Dichlorophenol	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	120-83-2	
Diethylphthalate	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	84-66-2	
2,4-Dimethylphenol	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	105-67-9	
Dimethylphthalate	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	131-11-3	
Di-n-butylphthalate	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		250	10	05/10/13 00:00	05/13/13 13:56	534-52-1	
2,4-Dinitrophenol	ND ug/L		500	10	05/10/13 00:00	05/13/13 13:56	51-28-5	
2,4-Dinitrotoluene	ND ug/L		60.0	10	05/10/13 00:00	05/13/13 13:56	121-14-2	
2,6-Dinitrotoluene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	606-20-2	
Di-n-octylphthalate	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	117-81-7	
Fluoranthene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	206-44-0	
Fluorene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	87-68-3	
Hexachlorobenzene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	77-47-4	
Hexachloroethane	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	193-39-5	
Isophorone	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	78-59-1	
Naphthalene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	91-20-3	
Nitrobenzene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	98-95-3	
2-Nitrophenol	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	88-75-5	
4-Nitrophenol	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	100-02-7	
N-Nitrosodimethylamine	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	86-30-6	
Pentachlorophenol	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	87-86-5	
Phenanthrene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	85-01-8	
Phenol	1290 ug/L		500	100	05/10/13 00:00	05/14/13 01:50	108-95-2	
Pyrene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		50.0	10	05/10/13 00:00	05/13/13 13:56	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

Sample: 100-MSD		Lab ID: 60144207001	Collected: 05/08/13 10:51	Received: 05/09/13 03:00	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	10	05/10/13 00:00	05/13/13 13:56	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	10	05/10/13 00:00	05/13/13 13:56	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	10	05/10/13 00:00	05/13/13 13:56	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	10	05/10/13 00:00	05/13/13 13:56	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	10	05/10/13 00:00	05/13/13 13:56	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	10	05/10/13 00:00	05/13/13 13:56	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		05/14/13 21:14	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/14/13 21:14	75-27-4	
Bromoform	ND ug/L		200	200		05/14/13 21:14	75-25-2	
Bromomethane	ND ug/L		1000	200		05/14/13 21:14	74-83-9	L3
Carbon tetrachloride	ND ug/L		200	200		05/14/13 21:14	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/14/13 21:14	108-90-7	
Chloroethane	ND ug/L		200	200		05/14/13 21:14	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/14/13 21:14	110-75-8	
Chloroform	ND ug/L		200	200		05/14/13 21:14	67-66-3	
Chloromethane	ND ug/L		200	200		05/14/13 21:14	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/14/13 21:14	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/14/13 21:14	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/14/13 21:14	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/14/13 21:14	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/14/13 21:14	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/14/13 21:14	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/14/13 21:14	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/14/13 21:14	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/14/13 21:14	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/14/13 21:14	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/14/13 21:14	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/14/13 21:14	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/14/13 21:14	100-41-4	
Methylene chloride	ND ug/L		200	200		05/14/13 21:14	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/14/13 21:14	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/14/13 21:14	127-18-4	
Toluene	ND ug/L		200	200		05/14/13 21:14	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/14/13 21:14	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/14/13 21:14	79-00-5	
Trichloroethene	ND ug/L		200	200		05/14/13 21:14	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/14/13 21:14	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/14/13 21:14	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/14/13 21:14	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101 %		80-120	200		05/14/13 21:14	1868-53-7	D3
4-Bromofluorobenzene (S)	102 %		80-120	200		05/14/13 21:14	460-00-4	
Toluene-d8 (S)	100 %		80-120	200		05/14/13 21:14	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	200		05/14/13 21:14	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

Sample: 100-MSD		Lab ID: 60144207001	Collected: 05/08/13 10:51	Received: 05/09/13 03:00	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		05/14/13 21:14		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	366	mg/L	5.0	1		05/09/13 12:36		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	935	mg/L	5.0	1		05/13/13 08:35		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.5	Std. Units	0.10	1		05/10/13 09:30		H6
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	673	mg/L	20.0	1		05/10/13 11:04	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	50500	mg/L	5000	500		05/14/13 15:02		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

Sample: TRIP BLANK	Lab ID: 60144207002	Collected: 05/08/13 00:00	Received: 05/09/13 03:00	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		05/14/13 20:31	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		05/14/13 20:31	75-27-4	
Bromoform	ND ug/L		1.0	1		05/14/13 20:31	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/14/13 20:31	74-83-9	L3
Carbon tetrachloride	ND ug/L		1.0	1		05/14/13 20:31	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/14/13 20:31	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/14/13 20:31	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		05/14/13 20:31	110-75-8	
Chloroform	ND ug/L		1.0	1		05/14/13 20:31	67-66-3	
Chloromethane	ND ug/L		1.0	1		05/14/13 20:31	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		05/14/13 20:31	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/14/13 20:31	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/14/13 20:31	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/14/13 20:31	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		05/14/13 20:31	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/14/13 20:31	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/14/13 20:31	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/14/13 20:31	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/14/13 20:31	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		05/14/13 20:31	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		05/14/13 20:31	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		05/14/13 20:31	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		05/14/13 20:31	100-41-4	
Methylene chloride	ND ug/L		1.0	1		05/14/13 20:31	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/14/13 20:31	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/14/13 20:31	127-18-4	
Toluene	ND ug/L		1.0	1		05/14/13 20:31	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/14/13 20:31	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/14/13 20:31	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/14/13 20:31	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/14/13 20:31	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		05/14/13 20:31	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/14/13 20:31	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99 %		80-120	1		05/14/13 20:31	1868-53-7	
4-Bromofluorobenzene (S)	101 %		80-120	1		05/14/13 20:31	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		05/14/13 20:31	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	1		05/14/13 20:31	17060-07-0	
Preservation pH	7.0			1		05/14/13 20:31		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 100-MSD
Pace Project No.: 60144207

QC Batch: MERP/7327 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60144207001

METHOD BLANK: 1183686 Matrix: Water
Associated Lab Samples: 60144207001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/10/13 13:58	

LABORATORY CONTROL SAMPLE: 1183687

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1183688 1183689

Parameter	60143961002		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury	ug/L	ND	5	5	4.7	4.8	92	93	70-130	1	20	

MATRIX SPIKE SAMPLE: 1183690

Parameter	Units	60144066001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.7	94	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

QC Batch: MERP/7337

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60144207001

METHOD BLANK: 1186565

Matrix: Water

Associated Lab Samples: 60144207001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/14/13 12:30	

LABORATORY CONTROL SAMPLE: 1186566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.2	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1186567 1186568

Parameter	Units	60144207001 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	2.6	2.6	52	52	70-130	1	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 100-MSD
Pace Project No.: 60144207

QC Batch: MPRP/22634 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60144207001

METHOD BLANK: 1185358 Matrix: Water
Associated Lab Samples: 60144207001

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

LABORATORY CONTROL SAMPLE: 1185359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10200	102	85-115	
Antimony	ug/L	1000	1040	104	85-115	
Arsenic	ug/L	1000	999	100	85-115	
Beryllium	ug/L	1000	1030	103	85-115	
Cadmium	ug/L	1000	1010	101	85-115	
Chromium	ug/L	1000	999	100	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	1010	101	85-115	
Iron	ug/L	10000	10200	102	85-115	
Lead	ug/L	1000	1040	104	85-115	
Nickel	ug/L	1000	1050	105	85-115	
Selenium	ug/L	1000	1020	102	85-115	
Silver	ug/L	500	513	103	85-115	
Thallium	ug/L	1000	1070	107	85-115	
Zinc	ug/L	1000	1020	102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1185360 1185361

Parameter	Units	60144275001 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	10600	10600	105	105	70-130	0	8

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QUALITY CONTROL DATA

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

Parameter	Units	60144275001		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec					
Antimony	ug/L	ND	1000	1000	1060	1080	106	108	70-130	2	7			
Arsenic	ug/L	ND	1000	1000	1020	1040	102	103	70-130	2	10			
Beryllium	ug/L	ND	1000	1000	1020	1020	102	102	70-130	0	7			
Cadmium	ug/L	ND	1000	1000	1020	1020	102	102	70-130	1	10			
Chromium	ug/L	ND	1000	1000	974	974	97	97	70-130	0	10			
Cobalt	ug/L	ND	1000	1000	1000	1010	100	101	70-130	1	6			
Copper	ug/L	ND	1000	1000	1030	1030	102	102	70-130	0	11			
Iron	ug/L	158	10000	10000	10000	10000	99	99	70-130	0	10			
Lead	ug/L	ND	1000	1000	1010	1020	101	102	70-130	1	10			
Nickel	ug/L	ND	1000	1000	1010	1020	101	102	70-130	1	10			
Selenium	ug/L	ND	1000	1000	1040	1050	104	105	70-130	1	10			
Silver	ug/L	ND	500	500	508	512	101	102	70-130	1	10			
Thallium	ug/L	ND	1000	1000	1020	1030	102	103	70-130	1	6			
Zinc	ug/L	ND	1000	1000	994	993	98	98	70-130	0	11			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

QC Batch:	MPRP/22638	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60144207001		

METHOD BLANK: 1186167 Matrix: Water
Associated Lab Samples: 60144207001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	05/13/13 15:41	
Antimony, Dissolved	ug/L	ND	10.0	05/13/13 15:41	
Arsenic, Dissolved	ug/L	ND	10.0	05/13/13 15:41	
Beryllium, Dissolved	ug/L	ND	1.0	05/13/13 15:41	
Cadmium, Dissolved	ug/L	ND	5.0	05/13/13 15:41	
Chromium, Dissolved	ug/L	ND	5.0	05/13/13 15:41	
Cobalt, Dissolved	ug/L	ND	5.0	05/13/13 15:41	
Copper, Dissolved	ug/L	ND	10.0	05/13/13 15:41	
Iron, Dissolved	ug/L	ND	50.0	05/13/13 15:41	
Lead, Dissolved	ug/L	ND	5.0	05/13/13 15:41	
Nickel, Dissolved	ug/L	ND	5.0	05/13/13 15:41	
Selenium, Dissolved	ug/L	ND	15.0	05/13/13 15:41	
Silver, Dissolved	ug/L	ND	7.0	05/13/13 15:41	
Thallium, Dissolved	ug/L	ND	20.0	05/13/13 15:41	
Zinc, Dissolved	ug/L	ND	50.0	05/13/13 15:41	

LABORATORY CONTROL SAMPLE: 1186168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10600	106	85-115	
Antimony, Dissolved	ug/L	1000	1070	107	85-115	
Arsenic, Dissolved	ug/L	1000	1010	101	85-115	
Beryllium, Dissolved	ug/L	1000	1010	101	85-115	
Cadmium, Dissolved	ug/L	1000	1020	102	85-115	
Chromium, Dissolved	ug/L	1000	954	95	85-115	
Cobalt, Dissolved	ug/L	1000	1030	103	85-115	
Copper, Dissolved	ug/L	1000	1030	103	85-115	
Iron, Dissolved	ug/L	10000	9600	96	85-115	
Lead, Dissolved	ug/L	1000	1040	104	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1040	104	85-115	
Silver, Dissolved	ug/L	500	510	102	85-115	
Thallium, Dissolved	ug/L	1000	1080	108	85-115	
Zinc, Dissolved	ug/L	1000	990	99	85-115	

SAMPLE DUPLICATE: 1186173

Parameter	Units	60144068001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum, Dissolved	ug/L	2750	2790	2	20	
Antimony, Dissolved	ug/L	28.6	32.3	12	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

SAMPLE DUPLICATE: 1186173

Parameter	Units	60144068001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic, Dissolved	ug/L	488	494	1	20	
Beryllium, Dissolved	ug/L	ND	ND		20	
Cadmium, Dissolved	ug/L	ND	ND		20	
Chromium, Dissolved	ug/L	161	161	0	20	
Cobalt, Dissolved	ug/L	20.2	20.7	3	20	
Copper, Dissolved	ug/L	ND	22.6		20	
Iron, Dissolved	ug/L	410000	420000	3	20	
Lead, Dissolved	ug/L	81.1	85.9	6	20	
Nickel, Dissolved	ug/L	66.1	66.5	1	20	
Selenium, Dissolved	ug/L	ND	ND		20	
Silver, Dissolved	ug/L	ND	7.2J		20	
Thallium, Dissolved	ug/L	ND	ND		20	
Zinc, Dissolved	ug/L	8670	8760	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

QC Batch: MSV/53635 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60144207001, 60144207002

METHOD BLANK: 1186657 Matrix: Water

Associated Lab Samples: 60144207001, 60144207002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/14/13 17:42	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/14/13 17:42	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/14/13 17:42	
1,1-Dichloroethane	ug/L	ND	1.0	05/14/13 17:42	
1,1-Dichloroethene	ug/L	ND	1.0	05/14/13 17:42	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/14/13 17:42	
1,2-Dichloroethane	ug/L	ND	1.0	05/14/13 17:42	
1,2-Dichloropropane	ug/L	ND	1.0	05/14/13 17:42	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/14/13 17:42	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/14/13 17:42	
2-Chloroethylvinyl ether	ug/L	ND	10.0	05/14/13 17:42	
Benzene	ug/L	ND	1.0	05/14/13 17:42	
Bromodichloromethane	ug/L	ND	1.0	05/14/13 17:42	
Bromoform	ug/L	ND	1.0	05/14/13 17:42	
Bromomethane	ug/L	ND	5.0	05/14/13 17:42	
Carbon tetrachloride	ug/L	ND	1.0	05/14/13 17:42	
Chlorobenzene	ug/L	ND	1.0	05/14/13 17:42	
Chloroethane	ug/L	ND	1.0	05/14/13 17:42	
Chloroform	ug/L	ND	1.0	05/14/13 17:42	
Chloromethane	ug/L	ND	1.0	05/14/13 17:42	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/14/13 17:42	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/14/13 17:42	
Dibromochloromethane	ug/L	ND	1.0	05/14/13 17:42	
Ethylbenzene	ug/L	ND	1.0	05/14/13 17:42	
Methylene chloride	ug/L	ND	1.0	05/14/13 17:42	
Tetrachloroethene	ug/L	ND	1.0	05/14/13 17:42	
Toluene	ug/L	ND	1.0	05/14/13 17:42	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/14/13 17:42	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/14/13 17:42	
Trichloroethene	ug/L	ND	1.0	05/14/13 17:42	
Trichlorofluoromethane	ug/L	ND	1.0	05/14/13 17:42	
Vinyl chloride	ug/L	ND	1.0	05/14/13 17:42	
Xylene (Total)	ug/L	ND	3.0	05/14/13 17:42	
1,2-Dichloroethane-d4 (S)	%	99	80-120	05/14/13 17:42	
4-Bromofluorobenzene (S)	%	100	80-120	05/14/13 17:42	
Dibromofluoromethane (S)	%	100	80-120	05/14/13 17:42	
Toluene-d8 (S)	%	98	80-120	05/14/13 17:42	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

LABORATORY CONTROL SAMPLE: 1186658

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.8	114	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	19.7	98	59-138	
1,1,2-Trichloroethane	ug/L	20	21.3	107	69-127	
1,1-Dichloroethane	ug/L	20	20.8	104	69-126	
1,1-Dichloroethene	ug/L	20	22.6	113	65-153	
1,2-Dichlorobenzene	ug/L	20	20.3	102	66-126	
1,2-Dichloroethane	ug/L	20	22.4	112	71-129	
1,2-Dichloropropane	ug/L	20	22.6	113	66-140	
1,3-Dichlorobenzene	ug/L	20	20.5	103	63-127	
1,4-Dichlorobenzene	ug/L	20	20.7	103	68-124	
2-Chloroethylvinyl ether	ug/L	20	24.3	121	33-159	
Benzene	ug/L	20	22.4	112	73-129	
Bromodichloromethane	ug/L	20	21.7	109	63-129	
Bromoform	ug/L	20	20.8	104	52-123	
Bromomethane	ug/L	20	33.5	168	10-160	L0
Carbon tetrachloride	ug/L	20	23.1	116	70-140	
Chlorobenzene	ug/L	20	21.1	105	68-127	
Chloroethane	ug/L	20	19.8	99	42-160	
Chloroform	ug/L	20	21.7	108	60-120	
Chloromethane	ug/L	20	22.9	114	10-160	
cis-1,2-Dichloroethene	ug/L	20	23.0	115	70-125	
cis-1,3-Dichloropropene	ug/L	20	22.1	110	66-132	
Dibromochloromethane	ug/L	20	22.2	111	63-134	
Ethylbenzene	ug/L	20	21.3	107	66-133	
Methylene chloride	ug/L	20	21.1	105	56-135	
Tetrachloroethene	ug/L	20	22.1	111	64-143	
Toluene	ug/L	20	22.6	113	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.5	112	67-149	
trans-1,3-Dichloropropene	ug/L	20	23.4	117	66-138	
Trichloroethene	ug/L	20	22.6	113	71-130	
Trichlorofluoromethane	ug/L	20	19.7	98	58-158	
Vinyl chloride	ug/L	20	20.8	104	41-160	
Xylene (Total)	ug/L	60	65.2	109	67-130	
1,2-Dichloroethane-d4 (S)	%			104	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Dibromofluoromethane (S)	%			97	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1186659

Parameter	Units	60144065002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	20	23.8	119	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.6	103	46-157	
1,1,2-Trichloroethane	ug/L	ND	20	20.1	101	52-150	
1,1-Dichloroethane	ug/L	ND	20	21.0	105	59-155	
1,1-Dichloroethene	ug/L	ND	20	23.0	115	14-160	
1,2-Dichlorobenzene	ug/L	ND	20	19.0	95	18-145	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

MATRIX SPIKE SAMPLE:		1186659		60144065002		Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits		
1,2-Dichloroethane	ug/L	ND	20	22.0	110	22.0	110	49-155		
1,2-Dichloropropane	ug/L	ND	20	22.6	113	22.6	113	12-160		
1,3-Dichlorobenzene	ug/L	ND	20	19.1	96	19.1	96	59-146		
1,4-Dichlorobenzene	ug/L	ND	20	19.5	95	19.5	95	18-147		
2-Chloroethylvinyl ether	ug/L	ND	20	19.7	98	19.7	98	10-160		
Benzene	ug/L	ND	20	22.2	111	22.2	111	37-151		
Bromodichloromethane	ug/L	ND	20	20.3	102	20.3	102	35-155		
Bromoform	ug/L	ND	20	17.7	88	17.7	88	45-133		
Bromomethane	ug/L	ND	20	25.9	130	25.9	130	10-160		
Carbon tetrachloride	ug/L	ND	20	21.9	110	21.9	110	70-140		
Chlorobenzene	ug/L	ND	20	20.7	104	20.7	104	37-153		
Chloroethane	ug/L	ND	20	19.2	96	19.2	96	14-160		
Chloroform	ug/L	9.5	20	31.2	109	31.2	109	51-138		
Chloromethane	ug/L	ND	20	20.3	100	20.3	100	10-160		
cis-1,2-Dichloroethene	ug/L	ND	20	22.6	113	22.6	113	19-160		
cis-1,3-Dichloropropene	ug/L	ND	20	20.4	102	20.4	102	10-160		
Dibromochloromethane	ug/L	ND	20	19.4	97	19.4	97	53-149		
Ethylbenzene	ug/L	ND	20	21.3	106	21.3	106	37-154		
Methylene chloride	ug/L	ND	20	21.3	104	21.3	104	15-156		
Tetrachloroethene	ug/L	ND	20	22.2	107	22.2	107	64-148		
Toluene	ug/L	1.0	20	23.2	111	23.2	111	47-150		
trans-1,2-Dichloroethene	ug/L	ND	20	22.2	111	22.2	111	54-156		
trans-1,3-Dichloropropene	ug/L	ND	20	22.4	112	22.4	112	17-160		
Trichloroethene	ug/L	ND	20	21.6	108	21.6	108	71-157		
Trichlorofluoromethane	ug/L	ND	20	19.9	100	19.9	100	17-160		
Vinyl chloride	ug/L	ND	20	20.2	101	20.2	101	10-160		
Xylene (Total)	ug/L	ND	60	63.8	106	63.8	106	12-153		
1,2-Dichloroethane-d4 (S)	%				100		100	80-120		
4-Bromofluorobenzene (S)	%				99		99	80-120		
Dibromofluoromethane (S)	%				97		97	80-120		
Toluene-d8 (S)	%				101		101	80-120		
Preservation pH			7.0			7.0				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

QC Batch: OEXT/38327

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60144207001

METHOD BLANK: 1184920

Matrix: Water

Associated Lab Samples: 60144207001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/13/13 12:33	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/13/13 12:33	
2,4-Dichlorophenol	ug/L	ND	5.0	05/13/13 12:33	
2,4-Dimethylphenol	ug/L	ND	5.0	05/13/13 12:33	
2,4-Dinitrophenol	ug/L	ND	50.0	05/13/13 12:33	
2,4-Dinitrotoluene	ug/L	ND	6.0	05/13/13 12:33	
2,6-Dinitrotoluene	ug/L	ND	5.0	05/13/13 12:33	
2-Chloronaphthalene	ug/L	ND	5.0	05/13/13 12:33	
2-Chlorophenol	ug/L	ND	5.0	05/13/13 12:33	
2-Nitrophenol	ug/L	ND	5.0	05/13/13 12:33	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	05/13/13 12:33	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/13/13 12:33	
4-Bromophenylphenyl ether	ug/L	ND	5.0	05/13/13 12:33	
4-Chloro-3-methylphenol	ug/L	ND	5.0	05/13/13 12:33	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	05/13/13 12:33	
4-Nitrophenol	ug/L	ND	5.0	05/13/13 12:33	
Acenaphthene	ug/L	ND	5.0	05/13/13 12:33	
Acenaphthylene	ug/L	ND	5.0	05/13/13 12:33	
Anthracene	ug/L	ND	5.0	05/13/13 12:33	
Benzidine	ug/L	ND	50.0	05/13/13 12:33	
Benzo(a)anthracene	ug/L	ND	5.0	05/13/13 12:33	
Benzo(a)pyrene	ug/L	ND	5.0	05/13/13 12:33	
Benzo(b)fluoranthene	ug/L	ND	5.0	05/13/13 12:33	
Benzo(g,h,i)perylene	ug/L	ND	5.0	05/13/13 12:33	
Benzo(k)fluoranthene	ug/L	ND	5.0	05/13/13 12:33	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	05/13/13 12:33	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	05/13/13 12:33	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	05/13/13 12:33	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	05/13/13 12:33	
Butylbenzylphthalate	ug/L	ND	5.0	05/13/13 12:33	
Chrysene	ug/L	ND	5.0	05/13/13 12:33	
Di-n-butylphthalate	ug/L	ND	5.0	05/13/13 12:33	
Di-n-octylphthalate	ug/L	ND	5.0	05/13/13 12:33	
Dibenz(a,h)anthracene	ug/L	ND	5.0	05/13/13 12:33	
Diethylphthalate	ug/L	ND	5.0	05/13/13 12:33	
Dimethylphthalate	ug/L	ND	5.0	05/13/13 12:33	
Fluoranthene	ug/L	ND	5.0	05/13/13 12:33	
Fluorene	ug/L	ND	5.0	05/13/13 12:33	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/13/13 12:33	
Hexachlorobenzene	ug/L	ND	5.0	05/13/13 12:33	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/13/13 12:33	
Hexachloroethane	ug/L	ND	5.0	05/13/13 12:33	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	05/13/13 12:33	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 100-MSD

Project No.: 60144207

METHOD BLANK: 1184920

Matrix: Water

Associated Lab Samples: 60144207001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	05/13/13 12:33	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	05/13/13 12:33	
N-Nitrosodimethylamine	ug/L	ND	5.0	05/13/13 12:33	
N-Nitrosodiphenylamine	ug/L	ND	5.0	05/13/13 12:33	
Naphthalene	ug/L	ND	5.0	05/13/13 12:33	
Nitrobenzene	ug/L	ND	5.0	05/13/13 12:33	
Pentachlorophenol	ug/L	ND	5.0	05/13/13 12:33	
Phenanthrene	ug/L	ND	5.0	05/13/13 12:33	
Phenol	ug/L	ND	5.0	05/13/13 12:33	
Pyrene	ug/L	ND	5.0	05/13/13 12:33	
2,4,6-Tribromophenol (S)	%	72	39-119	05/13/13 12:33	
2-Fluorobiphenyl (S)	%	60	36-120	05/13/13 12:33	
2-Fluorophenol (S)	%	30	18-120	05/13/13 12:33	
Nitrobenzene-d5 (S)	%	64	32-120	05/13/13 12:33	
Phenol-d6 (S)	%	19	12-120	05/13/13 12:33	
Terphenyl-d14 (S)	%	72	44-120	05/13/13 12:33	

LABORATORY CONTROL SAMPLE: 1184921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	30.4	61	44-120	
2,4,6-Trichlorophenol	ug/L	50	34.6	69	48-120	
2,4-Dichlorophenol	ug/L	50	32.1	64	48-120	
2,4-Dimethylphenol	ug/L	50	28.1	56	37-119	
2,4-Dinitrophenol	ug/L	50	46.7J	93	15-153	
2,4-Dinitrotoluene	ug/L	50	40.6	81	54-120	
2,6-Dinitrotoluene	ug/L	50	38.2	76	52-120	
2-Chloronaphthalene	ug/L	50	31.5	63	60-118	
2-Chlorophenol	ug/L	50	29.5	59	44-120	
2-Nitrophenol	ug/L	50	40.1	80	43-120	
3,3'-Dichlorobenzidine	ug/L	50	92.4	185	23-160	LO
4,6-Dinitro-2-methylphenol	ug/L	50	49.0	98	31-147	
4-Bromophenylphenyl ether	ug/L	50	33.8	68	53-120	
4-Chloro-3-methylphenol	ug/L	50	31.7	63	50-120	
4-Chlorophenylphenyl ether	ug/L	50	32.0	64	54-120	
4-Nitrophenol	ug/L	50	11.0	22	10-120	
Acenaphthene	ug/L	50	31.9	64	51-120	
Acenaphthylene	ug/L	50	31.0	62	51-120	
Anthracene	ug/L	50	33.0	66	54-120	
Benzidine	ug/L	50	24.4J	49	1-124	
Benzo(a)anthracene	ug/L	50	35.1	70	54-120	
Benzo(a)pyrene	ug/L	50	30.0	60	54-120	
Benzo(b)fluoranthene	ug/L	50	36.3	73	57-120	
Benzo(g,h,i)perylene	ug/L	50	35.3	71	54-120	
Benzo(k)fluoranthene	ug/L	50	31.7	63	52-121	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

LABORATORY CONTROL SAMPLE: 1184921

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	50	30.9	62	51-120	
bis(2-Chloroethyl) ether	ug/L	50	31.3	63	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	32.5	65	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	42.3	85	51-126	
Butylbenzylphthalate	ug/L	50	42.3	85	45-129	
Chrysene	ug/L	50	34.5	69	54-120	
Di-n-butylphthalate	ug/L	50	37.9	76	57-118	
Di-n-octylphthalate	ug/L	50	45.7	91	48-130	
Dibenz(a,h)anthracene	ug/L	50	37.8	76	56-119	
Diethylphthalate	ug/L	50	33.7	67	55-114	
Dimethylphthalate	ug/L	50	33.1	66	54-112	
Fluoranthene	ug/L	50	34.9	70	56-120	
Fluorene	ug/L	50	32.9	66	59-120	
Hexachloro-1,3-butadiene	ug/L	50	29.6	59	41-116	
Hexachlorobenzene	ug/L	50	33.9	68	53-120	
Hexachlorocyclopentadiene	ug/L	100	32.9	33	31-120	
Hexachloroethane	ug/L	50	30.2	60	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	35.7	71	55-120	
Isophorone	ug/L	50	31.1	62	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	31.6	63	47-120	
N-Nitrosodimethylamine	ug/L	50	17.8	36	28-120	
N-Nitrosodiphenylamine	ug/L	50	31.2	62	53-120	
Naphthalene	ug/L	50	31.6	63	48-120	
Nitrobenzene	ug/L	50	32.4	65	47-120	
Pentachlorophenol	ug/L	50	41.5	83	43-127	
Phenanthrene	ug/L	50	33.3	67	55-120	
Phenol	ug/L	50	9.9	20	15-112	
Pyrene	ug/L	50	36.1	72	55-115	
2,4,6-Tribromophenol (S)	%			82	39-119	
2-Fluorobiphenyl (S)	%			62	36-120	
2-Fluorophenol (S)	%			31	18-120	
Nitrobenzene-d5 (S)	%			66	32-120	M4
Phenol-d6 (S)	%			20	12-120	
Terphenyl-d14 (S)	%			74	44-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

QC Batch:	WET/41180	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60144207001		

METHOD BLANK: 1183845 Matrix: Water

Associated Lab Samples: 60144207001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	05/09/13 12:34	

LABORATORY CONTROL SAMPLE: 1183846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	41.4	103	78-114	

MATRIX SPIKE SAMPLE: 1183847

Parameter	Units	60144147001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40.8	45.5	76.0	78	78-114	

SAMPLE DUPLICATE: 1183848

Parameter	Units	60144156002 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 100-MSD

Pace Project No.: 60144207

QC Batch: WET/41222

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60144207001

METHOD BLANK: 1186091

Matrix: Water

Associated Lab Samples: 60144207001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/13/13 08:32	

SAMPLE DUPLICATE: 1186092

Parameter	Units	60144266001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	12.0	12.0	0	25	

SAMPLE DUPLICATE: 1186093

Parameter	Units	60144265002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	12.0	10.0	18	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

QC Batch: WET/41194 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60144207001

SAMPLE DUPLICATE: 1184317

Parameter	Units	60144179001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.1	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 100-MSD
Pace Project No.: 60144207

QC Batch: WETA/24624 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60144207001

METHOD BLANK: 1184236 Matrix: Water
Associated Lab Samples: 60144207001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/10/13 10:32	

LABORATORY CONTROL SAMPLE: 1184237

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

MATRIX SPIKE SAMPLE: 1184238

Parameter	Units	60143975001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.40	2	2.0	78	90-110	M1

MATRIX SPIKE SAMPLE: 1184240

Parameter	Units	60144200001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	6.2	4	9.3	78	90-110	M1

SAMPLE DUPLICATE: 1184239

Parameter	Units	60144016003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	731	759	4	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

QC Batch:	WETA/24668	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60144207001		

METHOD BLANK: 1186399 Matrix: Water

Associated Lab Samples: 60144207001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/14/13 14:58	

LABORATORY CONTROL SAMPLE: 1186400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	47.2	94	90-110	

MATRIX SPIKE SAMPLE: 1186401

Parameter	Units	60144068001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	40100	25000	62700	91	90-110	

SAMPLE DUPLICATE: 1186402

Parameter	Units	60144204001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	49200	48500	1	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 100-MSD

Pace Project No.: 60144207

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. |
| D9 | Dissolved result is greater than the total. Data is within laboratory control limits. |
| H6 | Analysis initiated outside of the 15 minute EPA recommended holding time. |
| L0 | Analyte recovery in the laboratory control sample (LCS) was outside QC limits. |
| 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. |
| M4 | A matrix spike/matrix spike duplicate was not performed for this batch due to sample dilution. |
| 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 100-MSD

Pace Project No.: 60144207

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60144207001	100-MSD	EPA 200.7	MPRP/22634	EPA 200.7	ICP/17942
60144207001	100-MSD	EPA 200.7	MPRP/22638	EPA 200.7	ICP/17943
60144207001	100-MSD	EPA 245.1	MERP/7327	EPA 245.1	MERC/7287
60144207001	100-MSD	EPA 245.1	MERP/7337	EPA 245.1	MERC/7293
60144207001	100-MSD	EPA 625	OEXT/38327	EPA 625	MSSV/12107
60144207001	100-MSD	EPA 624 Low	MSV/53635		
60144207002	TRIP BLANK	EPA 624 Low	MSV/53635		
60144207001	100-MSD	EPA 1664A	WET/41180		
60144207001	100-MSD	SM 2540D	WET/41222		
60144207001	100-MSD	SM 4500-H+B	WET/41194		
60144207001	100-MSD	EPA 350.1	WETA/24624		
60144207001	100-MSD	EPA 410.4	WETA/24668		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60144207



Client Name: Barr Engineering

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

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: 4.2

Date and initials of person examining contents: 5/9/13 [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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. BOO, ph
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. Samples are very dark and have heavy odor
Includes date/time/ID/analyses Matrix: OT		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. added 2.5 mL to both HNO3 & H2SO4 initial pH 7.0, final pH 4.0
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed [initials] Lot # of added preservative 13094 - HNO3 N/A - H2SO4
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
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: [Signature] Date: 5/10/13

May 20, 2013

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

RE: Project: BRIDGETON LF 105/107 MSD
Pace Project No.: 60144432

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 11, 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 105/107 MSD

Pace Project No.: 60144432

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA Certification #: 2456.01

Arkansas Certification #: 12-019-0

Illinois Certification #: 002885

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-12-3

Utah Certification #: KS000212012-2

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60144432001	105-MSD	Water	05/10/13 07:11	05/11/13 03:00
60144432002	TRIP BLANK	Water	05/10/13 08:00	05/11/13 03:00
60144432003	107-MSD	Water	05/10/13 14:01	05/11/13 03:00
60144432004	TRIP BLANK	Water	05/10/13 08:00	05/11/13 03:00

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60144432001	105-MSD	EPA 200.7	JGP	15
		EPA 200.7	NDJ	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	PRG	38
		EPA 1664A	JMC1	1
		SM 2540D	RAS	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
		60144432002	TRIP BLANK	EPA 624 Low
60144432003	107-MSD	EPA 200.7	JGP	15
		EPA 200.7	NDJ	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	PRG	38
		EPA 1664A	JMC1	1
		SM 2540D	RAS	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
		60144432004	TRIP BLANK	EPA 624 Low

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ANALYTICAL RESULTS

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

Sample: 105-MSD		Lab ID: 60144432001	Collected: 05/10/13 07:11	Received: 05/11/13 03:00	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	6810 ug/L		150	2	05/17/13 09:25	05/17/13 14:40	7429-90-5	
Antimony	57.7 ug/L		20.0	2	05/17/13 09:25	05/17/13 14:40	7440-36-0	
Arsenic	1210 ug/L		20.0	2	05/17/13 09:25	05/17/13 14:40	7440-38-2	
Beryllium	ND ug/L		2.0	2	05/17/13 09:25	05/17/13 14:40	7440-41-7	D3
Cadmium	ND ug/L		10.0	2	05/17/13 09:25	05/17/13 14:40	7440-43-9	D3
Chromium	277 ug/L		15.0	3	05/17/13 09:25	05/17/13 15:31	7440-47-3	
Cobalt	30.4 ug/L		10.0	2	05/17/13 09:25	05/17/13 14:40	7440-48-4	
Copper	24.3 ug/L		20.0	2	05/17/13 09:25	05/17/13 14:40	7440-50-8	
Iron	844000 ug/L		100	2	05/17/13 09:25	05/17/13 14:40	7439-89-6	
Lead	156 ug/L		10.0	2	05/17/13 09:25	05/17/13 14:40	7439-92-1	
Nickel	98.8 ug/L		10.0	2	05/17/13 09:25	05/17/13 14:40	7440-02-0	
Selenium	ND ug/L		45.0	3	05/17/13 09:25	05/17/13 15:31	7782-49-2	D3
Silver	ND ug/L		14.0	2	05/17/13 09:25	05/17/13 14:40	7440-22-4	D3
Thallium	ND ug/L		60.0	3	05/17/13 09:25	05/17/13 15:31	7440-28-0	D3
Zinc	19300 ug/L		100	2	05/17/13 09:25	05/17/13 14:40	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	4870 ug/L		150	2	05/14/13 17:00	05/15/13 11:36	7429-90-5	
Antimony, Dissolved	67.3 ug/L		20.0	2	05/14/13 17:00	05/15/13 11:36	7440-36-0	D9
Arsenic, Dissolved	799 ug/L		20.0	2	05/14/13 17:00	05/15/13 11:36	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	5	05/14/13 17:00	05/15/13 14:19	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		10.0	2	05/14/13 17:00	05/15/13 11:36	7440-43-9	
Chromium, Dissolved	251 ug/L		25.0	5	05/14/13 17:00	05/15/13 14:19	7440-47-3	
Cobalt, Dissolved	25.7 ug/L		10.0	2	05/14/13 17:00	05/15/13 11:36	7440-48-4	
Copper, Dissolved	ND ug/L		20.0	2	05/14/13 17:00	05/15/13 11:36	7440-50-8	
Iron, Dissolved	636000 ug/L		100	2	05/14/13 17:00	05/15/13 11:36	7439-89-6	
Lead, Dissolved	86.8 ug/L		10.0	2	05/14/13 17:00	05/15/13 11:36	7439-92-1	
Nickel, Dissolved	78.2 ug/L		10.0	2	05/14/13 17:00	05/15/13 11:36	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	5	05/14/13 17:00	05/15/13 12:42	7782-49-2	D3
Silver, Dissolved	ND ug/L		14.0	2	05/14/13 17:00	05/15/13 11:36	7440-22-4	D3
Thallium, Dissolved	ND ug/L		100	5	05/14/13 17:00	05/15/13 12:42	7440-28-0	D3
Zinc, Dissolved	15700 ug/L		100	2	05/14/13 17:00	05/15/13 11:36	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	82.2 ug/L		2.0	10	05/15/13 08:45	05/16/13 12:00	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		0.20	1	05/15/13 08:45	05/15/13 13:17	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		500	10	05/14/13 00:00	05/16/13 17:54	83-32-9	
Acenaphthylene	ND ug/L		500	10	05/14/13 00:00	05/16/13 17:54	208-96-8	
Anthracene	ND ug/L		500	10	05/14/13 00:00	05/16/13 17:54	120-12-7	
Benzidine	ND ug/L		5000	10	05/14/13 00:00	05/16/13 17:54	92-87-5	
Benzo(a)anthracene	ND ug/L		500	10	05/14/13 00:00	05/16/13 17:54	56-55-3	
Benzo(a)pyrene	ND ug/L		500	10	05/14/13 00:00	05/16/13 17:54	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

Sample: 105-MSD	Lab ID: 60144432001	Collected: 05/10/13 07:11	Received: 05/11/13 03:00	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	500	10	05/14/13 00:00	05/16/13 17:54	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	207-08-9	
4-Bromophenylphenyl ether	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	101-55-3	
Butylbenzylphthalate	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	59-50-7	
bis(2-Chloroethoxy)methane	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	600	10	05/14/13 00:00	05/16/13 17:54	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	600	10	05/14/13 00:00	05/16/13 17:54	39638-32-9	
2-Chloronaphthalene	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	91-58-7	
2-Chlorophenol	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	7005-72-3	
Chrysene	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	53-70-3	
3,3'-Dichlorobenzidine	ND	ug/L	2000	10	05/14/13 00:00	05/16/13 17:54	91-94-1	
2,4-Dichlorophenol	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	120-83-2	
Diethylphthalate	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	84-66-2	
2,4-Dimethylphenol	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	105-67-9	
Dimethylphthalate	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	131-11-3	
Di-n-butylphthalate	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2500	10	05/14/13 00:00	05/16/13 17:54	534-52-1	
2,4-Dinitrophenol	ND	ug/L	5000	10	05/14/13 00:00	05/16/13 17:54	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	600	10	05/14/13 00:00	05/16/13 17:54	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	606-20-2	
Di-n-octylphthalate	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	117-81-7	
Fluoranthene	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	206-44-0	
Fluorene	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	87-68-3	
Hexachlorobenzene	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	77-47-4	
Hexachloroethane	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	193-39-5	
Isophorone	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	78-59-1	
Naphthalene	690	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	91-20-3	
Nitrobenzene	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	98-95-3	
2-Nitrophenol	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	88-75-5	
4-Nitrophenol	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	86-30-6	
Pentachlorophenol	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	87-86-5	
Phenanthrene	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	85-01-8	
Phenol	12900	ug/L	2500	50	05/14/13 00:00	05/17/13 11:17	108-95-2	
Pyrene	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	500	10	05/14/13 00:00	05/16/13 17:54	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

Sample: 105-MSD		Lab ID: 60144432001	Collected: 05/10/13 07:11	Received: 05/11/13 03:00	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	10	05/14/13 00:00	05/16/13 17:54	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	10	05/14/13 00:00	05/16/13 17:54	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	10	05/14/13 00:00	05/16/13 17:54	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	10	05/14/13 00:00	05/16/13 17:54	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	10	05/14/13 00:00	05/16/13 17:54	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	10	05/14/13 00:00	05/16/13 17:54	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		05/15/13 19:37	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/15/13 19:37	75-27-4	
Bromoform	ND ug/L		200	200		05/15/13 19:37	75-25-2	
Bromomethane	ND ug/L		1000	200		05/15/13 19:37	74-83-9	L3
Carbon tetrachloride	ND ug/L		200	200		05/15/13 19:37	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/15/13 19:37	108-90-7	
Chloroethane	ND ug/L		200	200		05/15/13 19:37	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/15/13 19:37	110-75-8	
Chloroform	ND ug/L		200	200		05/15/13 19:37	67-66-3	
Chloromethane	ND ug/L		200	200		05/15/13 19:37	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/15/13 19:37	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/15/13 19:37	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/15/13 19:37	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/15/13 19:37	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/15/13 19:37	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/15/13 19:37	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/15/13 19:37	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/15/13 19:37	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/15/13 19:37	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/15/13 19:37	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/15/13 19:37	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/15/13 19:37	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/15/13 19:37	100-41-4	
Methylene chloride	ND ug/L		200	200		05/15/13 19:37	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/15/13 19:37	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/15/13 19:37	127-18-4	
Toluene	ND ug/L		200	200		05/15/13 19:37	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/15/13 19:37	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/15/13 19:37	79-00-5	
Trichloroethene	ND ug/L		200	200		05/15/13 19:37	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/15/13 19:37	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/15/13 19:37	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/15/13 19:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101 %		80-120	200		05/15/13 19:37	1868-53-7	D3
4-Bromofluorobenzene (S)	99 %		80-120	200		05/15/13 19:37	460-00-4	
Toluene-d8 (S)	99 %		80-120	200		05/15/13 19:37	2037-26-5	
1,2-Dichloroethane-d4 (S)	102 %		80-120	200		05/15/13 19:37	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

Sample: 105-MSD		Lab ID: 60144432001	Collected: 05/10/13 07:11	Received: 05/11/13 03:00	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		05/15/13 19:37		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	953 mg/L		5.0	1		05/14/13 07:26		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	1080 mg/L		5.0	1		05/15/13 09:08		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4 Std. Units		0.10	1		05/13/13 14:00		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	20700 mg/L		2.0	1	05/11/13 10:37	05/16/13 16:25		B1
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	794 mg/L		20.0	1		05/16/13 15:11	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	60800 mg/L		5000	500		05/17/13 12:41		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

Sample: TRIP BLANK		Lab ID: 60144432002	Collected: 05/10/13 08:00	Received: 05/11/13 03:00	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		05/15/13 18:13	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		05/15/13 18:13	75-27-4	
Bromoform	ND ug/L		1.0	1		05/15/13 18:13	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/15/13 18:13	74-83-9	L3
Carbon tetrachloride	ND ug/L		1.0	1		05/15/13 18:13	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/15/13 18:13	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/15/13 18:13	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		05/15/13 18:13	110-75-8	
Chloroform	ND ug/L		1.0	1		05/15/13 18:13	67-66-3	
Chloromethane	ND ug/L		1.0	1		05/15/13 18:13	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		05/15/13 18:13	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/15/13 18:13	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/15/13 18:13	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/15/13 18:13	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		05/15/13 18:13	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/15/13 18:13	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/15/13 18:13	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/15/13 18:13	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/15/13 18:13	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		05/15/13 18:13	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		05/15/13 18:13	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		05/15/13 18:13	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		05/15/13 18:13	100-41-4	
Methylene chloride	ND ug/L		1.0	1		05/15/13 18:13	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/15/13 18:13	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/15/13 18:13	127-18-4	
Toluene	ND ug/L		1.0	1		05/15/13 18:13	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/15/13 18:13	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/15/13 18:13	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/15/13 18:13	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/15/13 18:13	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		05/15/13 18:13	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/15/13 18:13	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98 %		80-120	1		05/15/13 18:13	1868-53-7	
4-Bromofluorobenzene (S)	98 %		80-120	1		05/15/13 18:13	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		05/15/13 18:13	2037-26-5	
1,2-Dichloroethane-d4 (S)	100 %		80-120	1		05/15/13 18:13	17060-07-0	
Preservation pH	7.0			1		05/15/13 18:13		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

Sample: 107-MSD		Lab ID: 60144432003	Collected: 05/10/13 14:01	Received: 05/11/13 03:00	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	6190 ug/L		150	2	05/17/13 09:25	05/17/13 14:42	7429-90-5	
Antimony	27.7 ug/L		20.0	2	05/17/13 09:25	05/17/13 14:42	7440-36-0	
Arsenic	656 ug/L		20.0	2	05/17/13 09:25	05/17/13 14:42	7440-38-2	
Beryllium	ND ug/L		2.0	2	05/17/13 09:25	05/17/13 14:42	7440-41-7	D3
Cadmium	ND ug/L		10.0	2	05/17/13 09:25	05/17/13 14:42	7440-43-9	D3
Chromium	197 ug/L		15.0	3	05/17/13 09:25	05/17/13 15:34	7440-47-3	
Cobalt	59.4 ug/L		10.0	2	05/17/13 09:25	05/17/13 14:42	7440-48-4	
Copper	27.5 ug/L		20.0	2	05/17/13 09:25	05/17/13 14:42	7440-50-8	
Iron	669000 ug/L		100	2	05/17/13 09:25	05/17/13 14:42	7439-89-6	
Lead	180 ug/L		10.0	2	05/17/13 09:25	05/17/13 14:42	7439-92-1	
Nickel	142 ug/L		10.0	2	05/17/13 09:25	05/17/13 14:42	7440-02-0	
Selenium	ND ug/L		45.0	3	05/17/13 09:25	05/17/13 15:34	7782-49-2	D3
Silver	ND ug/L		14.0	2	05/17/13 09:25	05/17/13 14:42	7440-22-4	D3
Thallium	ND ug/L		60.0	3	05/17/13 09:25	05/17/13 15:34	7440-28-0	D3
Zinc	12600 ug/L		100	2	05/17/13 09:25	05/17/13 14:42	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	3400 ug/L		150	2	05/14/13 17:00	05/15/13 11:43	7429-90-5	
Antimony, Dissolved	49.1 ug/L		20.0	2	05/14/13 17:00	05/15/13 11:43	7440-36-0	D9
Arsenic, Dissolved	469 ug/L		20.0	2	05/14/13 17:00	05/15/13 11:43	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	5	05/14/13 17:00	05/15/13 14:23	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		10.0	2	05/14/13 17:00	05/15/13 11:43	7440-43-9	D3
Chromium, Dissolved	191 ug/L		25.0	5	05/14/13 17:00	05/15/13 14:23	7440-47-3	
Cobalt, Dissolved	50.5 ug/L		10.0	2	05/14/13 17:00	05/15/13 11:43	7440-48-4	
Copper, Dissolved	ND ug/L		20.0	2	05/14/13 17:00	05/15/13 11:43	7440-50-8	
Iron, Dissolved	505000 ug/L		100	2	05/14/13 17:00	05/15/13 11:43	7439-89-6	
Lead, Dissolved	99.8 ug/L		10.0	2	05/14/13 17:00	05/15/13 11:43	7439-92-1	
Nickel, Dissolved	120 ug/L		10.0	2	05/14/13 17:00	05/15/13 11:43	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	5	05/14/13 17:00	05/15/13 12:49	7782-49-2	D3
Silver, Dissolved	ND ug/L		14.0	2	05/14/13 17:00	05/15/13 11:43	7440-22-4	D3
Thallium, Dissolved	ND ug/L		100	5	05/14/13 17:00	05/15/13 12:49	7440-28-0	D3
Zinc, Dissolved	11300 ug/L		100	2	05/14/13 17:00	05/15/13 11:43	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	3.3 ug/L		0.20	1	05/15/13 08:45	05/15/13 12:41	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	05/15/13 08:45	05/15/13 13:19	7439-97-6	M1
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	83-32-9	
Acenaphthylene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	208-96-8	
Anthracene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	120-12-7	
Benzidine	ND ug/L		5000	10	05/14/13 00:00	05/16/13 18:14	92-87-5	
Benzo(a)anthracene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	56-55-3	
Benzo(a)pyrene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	50-32-8	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

Sample: 107-MSD	Lab ID: 60144432003	Collected: 05/10/13 14:01	Received: 05/11/13 03:00	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		500	10	05/14/13 00:00	05/16/13 18:14	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	191-24-2	
Benzo(k)fluoranthene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	207-08-9	
4-Bromophenylphenyl ether	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	101-55-3	
Butylbenzylphthalate	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	85-68-7	
4-Chloro-3-methylphenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	59-50-7	
bis(2-Chloroethoxy)methane	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		600	10	05/14/13 00:00	05/16/13 18:14	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		600	10	05/14/13 00:00	05/16/13 18:14	39638-32-9	
2-Chloronaphthalene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	91-58-7	
2-Chlorophenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	7005-72-3	
Chrysene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	53-70-3	
3,3'-Dichlorobenzidine	ND ug/L		2000	10	05/14/13 00:00	05/16/13 18:14	91-94-1	
2,4-Dichlorophenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	120-83-2	
Diethylphthalate	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	84-66-2	
2,4-Dimethylphenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	105-67-9	
Dimethylphthalate	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	131-11-3	
Di-n-butylphthalate	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		2500	10	05/14/13 00:00	05/16/13 18:14	534-52-1	
2,4-Dinitrophenol	ND ug/L		5000	10	05/14/13 00:00	05/16/13 18:14	51-28-5	
2,4-Dinitrotoluene	ND ug/L		600	10	05/14/13 00:00	05/16/13 18:14	121-14-2	
2,6-Dinitrotoluene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	606-20-2	
Di-n-octylphthalate	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	117-81-7	
Fluoranthene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	206-44-0	
Fluorene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	87-68-3	
Hexachlorobenzene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	77-47-4	
Hexachloroethane	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	193-39-5	
Isophorone	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	78-59-1	
Naphthalene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	91-20-3	
Nitrobenzene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	98-95-3	
2-Nitrophenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	88-75-5	
4-Nitrophenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	100-02-7	
N-Nitrosodimethylamine	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	86-30-6	
Pentachlorophenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	87-86-5	
Phenanthrene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	85-01-8	
Phenol	7720 ug/L		500	10	05/14/13 00:00	05/16/13 18:14	108-95-2	
Pyrene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:14	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

Sample: 107-MSD		Lab ID: 60144432003	Collected: 05/10/13 14:01	Received: 05/11/13 03:00	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	10	05/14/13 00:00	05/16/13 18:14	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	10	05/14/13 00:00	05/16/13 18:14	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	10	05/14/13 00:00	05/16/13 18:14	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	10	05/14/13 00:00	05/16/13 18:14	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	10	05/14/13 00:00	05/16/13 18:14	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	10	05/14/13 00:00	05/16/13 18:14	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		05/15/13 19:59	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/15/13 19:59	75-27-4	
Bromoform	ND ug/L		200	200		05/15/13 19:59	75-25-2	
Bromomethane	ND ug/L		1000	200		05/15/13 19:59	74-83-9	L3
Carbon tetrachloride	ND ug/L		200	200		05/15/13 19:59	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/15/13 19:59	108-90-7	
Chloroethane	ND ug/L		200	200		05/15/13 19:59	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/15/13 19:59	110-75-8	
Chloroform	ND ug/L		200	200		05/15/13 19:59	67-66-3	
Chloromethane	ND ug/L		200	200		05/15/13 19:59	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/15/13 19:59	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/15/13 19:59	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/15/13 19:59	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/15/13 19:59	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/15/13 19:59	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/15/13 19:59	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/15/13 19:59	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/15/13 19:59	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/15/13 19:59	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/15/13 19:59	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/15/13 19:59	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/15/13 19:59	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/15/13 19:59	100-41-4	
Methylene chloride	ND ug/L		200	200		05/15/13 19:59	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/15/13 19:59	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/15/13 19:59	127-18-4	
Toluene	ND ug/L		200	200		05/15/13 19:59	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/15/13 19:59	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/15/13 19:59	79-00-5	
Trichloroethene	ND ug/L		200	200		05/15/13 19:59	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/15/13 19:59	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/15/13 19:59	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/15/13 19:59	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99 %		80-120	200		05/15/13 19:59	1868-53-7	D3
4-Bromofluorobenzene (S)	99 %		80-120	200		05/15/13 19:59	460-00-4	
Toluene-d8 (S)	99 %		80-120	200		05/15/13 19:59	2037-26-5	
1,2-Dichloroethane-d4 (S)	103 %		80-120	200		05/15/13 19:59	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

Sample: 107-MSD		Lab ID: 60144432003	Collected: 05/10/13 14:01	Received: 05/11/13 03:00	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		05/15/13 19:59		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	393	mg/L	5.0	1		05/14/13 07:26		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	835	mg/L	5.0	1		05/15/13 09:09		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.6	Std. Units	0.10	1		05/13/13 14:00		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	20700	mg/L	2.0	1	05/11/13 11:05	05/16/13 16:49		B1
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	576	mg/L	20.0	1		05/16/13 15:12	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	40700	mg/L	5000	500		05/17/13 12:42		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

Sample: TRIP BLANK		Lab ID: 60144432004	Collected: 05/10/13 08:00	Received: 05/11/13 03:00	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		05/15/13 18:34	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		05/15/13 18:34	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/15/13 18:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/15/13 18:34	74-83-9	L3
Carbon tetrachloride	ND	ug/L	1.0	1		05/15/13 18:34	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/15/13 18:34	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/15/13 18:34	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		05/15/13 18:34	110-75-8	
Chloroform	ND	ug/L	1.0	1		05/15/13 18:34	67-66-3	
Chloromethane	1.1	ug/L	1.0	1		05/15/13 18:34	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		05/15/13 18:34	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/15/13 18:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/15/13 18:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/15/13 18:34	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/15/13 18:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/15/13 18:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/15/13 18:34	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/13 18:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/13 18:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/15/13 18:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/13 18:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/13 18:34	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/15/13 18:34	100-41-4	
Methylene chloride	1.6	ug/L	1.0	1		05/15/13 18:34	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/13 18:34	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/15/13 18:34	127-18-4	
Toluene	ND	ug/L	1.0	1		05/15/13 18:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/15/13 18:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/15/13 18:34	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/15/13 18:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/15/13 18:34	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		05/15/13 18:34	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/15/13 18:34	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98 %		80-120	1		05/15/13 18:34	1868-53-7	
4-Bromofluorobenzene (S)	99 %		80-120	1		05/15/13 18:34	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		05/15/13 18:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	100 %		80-120	1		05/15/13 18:34	17060-07-0	
Preservation pH	7.0			1		05/15/13 18:34		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

QC Batch: MERP/7343 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
 Associated Lab Samples: 60144432001, 60144432003

METHOD BLANK: 1187060 Matrix: Water

Associated Lab Samples: 60144432001, 60144432003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/15/13 12:19	

LABORATORY CONTROL SAMPLE: 1187061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1187062 1187063

Parameter	Units	60144275002 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	5.1	5	5.1	101	100	70-130	1	20	

MATRIX SPIKE SAMPLE: 1187064

Parameter	Units	60144500001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	5.0	100	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

QC Batch: MERP/7344

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60144432001, 60144432003

METHOD BLANK: 1187065

Matrix: Water

Associated Lab Samples: 60144432001, 60144432003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/15/13 13:12	

LABORATORY CONTROL SAMPLE: 1187066

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: 1187067

1187068

Parameter	Units	60144432003 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	1.3	1.2	25	23	70-130	11	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

QC Batch: MPRP/22702 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60144432001, 60144432003

METHOD BLANK: 1188600 Matrix: Water

Associated Lab Samples: 60144432001, 60144432003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	05/17/13 14:33	
Antimony	ug/L	ND	10.0	05/17/13 14:33	
Arsenic	ug/L	ND	10.0	05/17/13 14:33	
Beryllium	ug/L	ND	1.0	05/17/13 14:33	
Cadmium	ug/L	ND	5.0	05/17/13 14:33	
Chromium	ug/L	ND	5.0	05/17/13 14:33	
Cobalt	ug/L	ND	5.0	05/17/13 14:33	
Copper	ug/L	ND	10.0	05/17/13 14:33	
Iron	ug/L	ND	50.0	05/17/13 14:33	
Lead	ug/L	ND	5.0	05/17/13 14:33	
Nickel	ug/L	ND	5.0	05/17/13 14:33	
Selenium	ug/L	ND	15.0	05/17/13 14:33	
Silver	ug/L	ND	7.0	05/17/13 14:33	
Thallium	ug/L	ND	20.0	05/17/13 14:33	
Zinc	ug/L	ND	50.0	05/17/13 14:33	

LABORATORY CONTROL SAMPLE: 1188601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	85-115	
Antimony	ug/L	1000	1010	101	85-115	
Arsenic	ug/L	1000	996	100	85-115	
Beryllium	ug/L	1000	1030	103	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	961	96	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	978	98	85-115	
Iron	ug/L	10000	9930	99	85-115	
Lead	ug/L	1000	1000	100	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	1000	100	85-115	
Silver	ug/L	500	488	98	85-115	
Thallium	ug/L	1000	1050	105	85-115	
Zinc	ug/L	1000	1000	100	85-115	

MATRIX SPIKE SAMPLE: 1188602

Parameter	Units	60144495003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	6150	10000	18100	120	70-130	
Antimony	ug/L	25.8	1000	961	94	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

MATRIX SPIKE SAMPLE:		1188602					
Parameter	Units	60144495003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	567	1000	1890	132	70-130	M1
Beryllium	ug/L	ND	1000	909	91	70-130	
Cadmium	ug/L	ND	1000	1100	110	70-130	
Chromium	ug/L	228	1000	1110	88	70-130	
Cobalt	ug/L	32.7	1000	945	91	70-130	
Copper	ug/L	21.2	1000	1110	109	70-130	
Iron	ug/L	751000	10000	776000	250	70-130	M1
Lead	ug/L	189	1000	1010	82	70-130	
Nickel	ug/L	93.4	1000	978	88	70-130	
Selenium	ug/L	ND	1000	1370	136	70-130	M1
Silver	ug/L	ND	500	79.6	14	70-130	M1
Thallium	ug/L	ND	1000	733	73	70-130	
Zinc	ug/L	13500	1000	14500	100	70-130	

MATRIX SPIKE SAMPLE:		1188603					
Parameter	Units	60144498001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	1.9 mg/L	10000	12500	106	70-130	
Antimony	ug/L	0.038 mg/L	1000	1060	103	70-130	
Arsenic	ug/L	0.012 mg/L	1000	1030	102	70-130	
Beryllium	ug/L	ND	1000	965	97	70-130	
Cadmium	ug/L	0.0060 mg/L	1000	1010	100	70-130	
Chromium	ug/L	0.033 mg/L	1000	959	93	70-130	
Cobalt	ug/L	ND	1000	968	96	70-130	
Copper	ug/L	0.31 mg/L	1000	1320	100	70-130	
Iron	ug/L	10.4 mg/L	10000	19500	91	70-130	
Lead	ug/L	0.81 mg/L	1000	1710	91	70-130	
Nickel	ug/L	0.038 mg/L	1000	991	95	70-130	
Selenium	ug/L	ND	1000	1020	102	70-130	
Silver	ug/L	ND	500	502	100	70-130	
Thallium	ug/L	ND	1000	906	91	70-130	
Zinc	ug/L	0.92 mg/L	1000	1840	92	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

QC Batch: MPRP/22670

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60144432001, 60144432003

METHOD BLANK: 1186732

Matrix: Water

Associated Lab Samples: 60144432001, 60144432003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	05/15/13 11:33	
Antimony, Dissolved	ug/L	ND	10.0	05/15/13 11:33	
Arsenic, Dissolved	ug/L	ND	10.0	05/15/13 11:33	
Beryllium, Dissolved	ug/L	ND	1.0	05/15/13 11:33	
Cadmium, Dissolved	ug/L	ND	5.0	05/15/13 11:33	
Chromium, Dissolved	ug/L	ND	5.0	05/15/13 11:33	
Cobalt, Dissolved	ug/L	ND	5.0	05/15/13 11:33	
Copper, Dissolved	ug/L	ND	10.0	05/15/13 11:33	
Iron, Dissolved	ug/L	ND	50.0	05/15/13 11:33	
Lead, Dissolved	ug/L	ND	5.0	05/15/13 11:33	
Nickel, Dissolved	ug/L	ND	5.0	05/15/13 11:33	
Selenium, Dissolved	ug/L	ND	15.0	05/15/13 11:33	
Silver, Dissolved	ug/L	ND	7.0	05/15/13 11:33	
Thallium, Dissolved	ug/L	ND	20.0	05/15/13 11:33	
Zinc, Dissolved	ug/L	ND	50.0	05/15/13 11:33	

LABORATORY CONTROL SAMPLE: 1186733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9470	95	85-115	
Antimony, Dissolved	ug/L	1000	924	92	85-115	
Arsenic, Dissolved	ug/L	1000	914	91	85-115	
Beryllium, Dissolved	ug/L	1000	927	93	85-115	
Cadmium, Dissolved	ug/L	1000	927	93	85-115	
Chromium, Dissolved	ug/L	1000	960	96	85-115	
Cobalt, Dissolved	ug/L	1000	948	95	85-115	
Copper, Dissolved	ug/L	1000	891	89	85-115	
Iron, Dissolved	ug/L	10000	9350	94	85-115	
Lead, Dissolved	ug/L	1000	962	96	85-115	
Nickel, Dissolved	ug/L	1000	964	96	85-115	
Selenium, Dissolved	ug/L	1000	914	91	85-115	
Silver, Dissolved	ug/L	500	447	89	85-115	
Thallium, Dissolved	ug/L	1000	960	96	85-115	
Zinc, Dissolved	ug/L	1000	980	98	85-115	

SAMPLE DUPLICATE: 1186734

Parameter	Units	60144432001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum, Dissolved	ug/L	4870	4890	0	20	
Antimony, Dissolved	ug/L	67.3	63.2	6	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

SAMPLE DUPLICATE: 1186734

Parameter	Units	60144432001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic, Dissolved	ug/L	799	809	1	20	
Beryllium, Dissolved	ug/L	ND	ND		20	
Cadmium, Dissolved	ug/L	ND	ND		20	
Chromium, Dissolved	ug/L	251	247	1	20	
Cobalt, Dissolved	ug/L	25.7	25.7	0	20	
Copper, Dissolved	ug/L	ND	ND		20	
Iron, Dissolved	ug/L	636000	640000	1	20	
Lead, Dissolved	ug/L	86.8	85.6	1	20	
Nickel, Dissolved	ug/L	78.2	78.6	0	20	
Selenium, Dissolved	ug/L	ND	ND		20	
Silver, Dissolved	ug/L	ND	10.4J		20	
Thallium, Dissolved	ug/L	ND	ND		20	
Zinc, Dissolved	ug/L	15700	16000	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

QC Batch: MSV/53665 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60144432001, 60144432002, 60144432003, 60144432004

METHOD BLANK: 1187240 Matrix: Water

Associated Lab Samples: 60144432001, 60144432002, 60144432003, 60144432004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/15/13 17:52	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/15/13 17:52	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/15/13 17:52	
1,1-Dichloroethane	ug/L	ND	1.0	05/15/13 17:52	
1,1-Dichloroethene	ug/L	ND	1.0	05/15/13 17:52	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/15/13 17:52	
1,2-Dichloroethane	ug/L	ND	1.0	05/15/13 17:52	
1,2-Dichloropropane	ug/L	ND	1.0	05/15/13 17:52	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/15/13 17:52	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/15/13 17:52	
2-Chloroethylvinyl ether	ug/L	ND	10.0	05/15/13 17:52	
Benzene	ug/L	ND	1.0	05/15/13 17:52	
Bromodichloromethane	ug/L	ND	1.0	05/15/13 17:52	
Bromoform	ug/L	ND	1.0	05/15/13 17:52	
Bromomethane	ug/L	ND	5.0	05/15/13 17:52	
Carbon tetrachloride	ug/L	ND	1.0	05/15/13 17:52	
Chlorobenzene	ug/L	ND	1.0	05/15/13 17:52	
Chloroethane	ug/L	ND	1.0	05/15/13 17:52	
Chloroform	ug/L	ND	1.0	05/15/13 17:52	
Chloromethane	ug/L	ND	1.0	05/15/13 17:52	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/15/13 17:52	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/15/13 17:52	
Dibromochloromethane	ug/L	ND	1.0	05/15/13 17:52	
Ethylbenzene	ug/L	ND	1.0	05/15/13 17:52	
Methylene chloride	ug/L	ND	1.0	05/15/13 17:52	
Tetrachloroethene	ug/L	ND	1.0	05/15/13 17:52	
Toluene	ug/L	ND	1.0	05/15/13 17:52	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/15/13 17:52	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/15/13 17:52	
Trichloroethene	ug/L	ND	1.0	05/15/13 17:52	
Trichlorofluoromethane	ug/L	ND	1.0	05/15/13 17:52	
Vinyl chloride	ug/L	ND	1.0	05/15/13 17:52	
Xylene (Total)	ug/L	ND	3.0	05/15/13 17:52	
1,2-Dichloroethane-d4 (S)	%	98	80-120	05/15/13 17:52	
4-Bromofluorobenzene (S)	%	100	80-120	05/15/13 17:52	
Dibromofluoromethane (S)	%	100	80-120	05/15/13 17:52	
Toluene-d8 (S)	%	100	80-120	05/15/13 17:52	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

LABORATORY CONTROL SAMPLE: 1187241

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.9	105	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	59-138	
1,1,2-Trichloroethane	ug/L	20	19.9	100	69-127	
1,1-Dichloroethane	ug/L	20	18.6	93	69-126	
1,1-Dichloroethene	ug/L	20	19.9	99	65-153	
1,2-Dichlorobenzene	ug/L	20	19.1	96	66-126	
1,2-Dichloroethane	ug/L	20	20.6	103	71-129	
1,2-Dichloropropane	ug/L	20	21.2	106	66-140	
1,3-Dichlorobenzene	ug/L	20	19.2	96	63-127	
1,4-Dichlorobenzene	ug/L	20	19.2	96	68-124	
2-Chloroethylvinyl ether	ug/L	20	18.1	91	33-159	
Benzene	ug/L	20	20.0	100	73-129	
Bromodichloromethane	ug/L	20	20.9	104	63-129	
Bromoform	ug/L	20	19.9	100	52-123	
Bromomethane	ug/L	20	33.9	170	10-160	L0
Carbon tetrachloride	ug/L	20	20.2	101	70-140	
Chlorobenzene	ug/L	20	20.1	100	68-127	
Chloroethane	ug/L	20	20.4	102	42-160	
Chloroform	ug/L	20	20.0	100	60-120	
Chloromethane	ug/L	20	21.5	108	10-160	
cis-1,2-Dichloroethene	ug/L	20	21.0	105	70-125	
cis-1,3-Dichloropropene	ug/L	20	20.8	104	66-132	
Dibromochloromethane	ug/L	20	21.0	105	63-134	
Ethylbenzene	ug/L	20	20.2	101	66-133	
Methylene chloride	ug/L	20	18.4	92	56-135	
Tetrachloroethene	ug/L	20	20.0	100	64-143	
Toluene	ug/L	20	20.4	102	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	67-149	
trans-1,3-Dichloropropene	ug/L	20	22.6	113	66-138	
Trichloroethene	ug/L	20	19.7	98	71-130	
Trichlorofluoromethane	ug/L	20	16.7	83	58-158	
Vinyl chloride	ug/L	20	17.6	88	41-160	
Xylene (Total)	ug/L	60	60.3	101	67-130	
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Dibromofluoromethane (S)	%			97	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1187242

Parameter	Units	60144500001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	20	21.6	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	18.8	94	46-157	
1,1,2-Trichloroethane	ug/L	ND	20	18.5	93	52-150	
1,1-Dichloroethane	ug/L	ND	20	19.3	97	59-155	
1,1-Dichloroethene	ug/L	ND	20	21.4	107	14-160	
1,2-Dichlorobenzene	ug/L	ND	20	17.9	90	18-145	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

MATRIX SPIKE SAMPLE:		1187242						
Parameter	Units	60144500001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,2-Dichloroethane	ug/L	ND	20	19.9	99	49-155		
1,2-Dichloropropane	ug/L	ND	20	20.2	101	12-160		
1,3-Dichlorobenzene	ug/L	ND	20	18.0	90	59-146		
1,4-Dichlorobenzene	ug/L	ND	20	18.0	90	18-147		
2-Chloroethylvinyl ether	ug/L	ND	20	15.1	75	10-160		
Benzene	ug/L	ND	20	20.2	101	37-151		
Bromodichloromethane	ug/L	ND	20	19.9	99	35-155		
Bromoform	ug/L	ND	20	18.4	92	45-133		
Bromomethane	ug/L	ND	20	26.5	132	10-160		
Carbon tetrachloride	ug/L	ND	20	21.8	109	70-140		
Chlorobenzene	ug/L	ND	20	18.7	94	37-153		
Chloroethane	ug/L	ND	20	18.6	93	14-160		
Chloroform	ug/L	ND	20	20.0	96	51-138		
Chloromethane	ug/L	ND	20	21.0	105	10-160		
cis-1,2-Dichloroethene	ug/L	ND	20	20.6	103	19-160		
cis-1,3-Dichloropropene	ug/L	ND	20	19.4	97	10-160		
Dibromochloromethane	ug/L	ND	20	19.4	97	53-149		
Ethylbenzene	ug/L	ND	20	19.5	97	37-154		
Methylene chloride	ug/L	ND	20	18.4	92	15-156		
Tetrachloroethene	ug/L	ND	20	20.0	100	64-148		
Toluene	ug/L	ND	20	20.5	102	47-150		
trans-1,2-Dichloroethene	ug/L	ND	20	20.3	102	54-156		
trans-1,3-Dichloropropene	ug/L	ND	20	21.1	106	17-160		
Trichloroethene	ug/L	ND	20	19.7	98	71-157		
Trichlorofluoromethane	ug/L	ND	20	18.6	93	17-160		
Vinyl chloride	ug/L	ND	20	18.4	92	10-160		
Xylene (Total)	ug/L			58.3				
1,2-Dichloroethane-d4 (S)	%				101	80-120		
4-Bromofluorobenzene (S)	%				100	80-120		
Dibromofluoromethane (S)	%				98	80-120		
Toluene-d8 (S)	%				100	80-120		
Preservation pH		7.0		7.0				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

QC Batch: OEXT/38353 Analysis Method: EPA 625

QC Batch Method: EPA 625 Analysis Description: 625 MSS

Associated Lab Samples: 60144432001, 60144432003

METHOD BLANK: 1186511 Matrix: Water

Associated Lab Samples: 60144432001, 60144432003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/16/13 14:48	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/16/13 14:48	
2,4-Dichlorophenol	ug/L	ND	5.0	05/16/13 14:48	
2,4-Dimethylphenol	ug/L	ND	5.0	05/16/13 14:48	
2,4-Dinitrophenol	ug/L	ND	50.0	05/16/13 14:48	
2,4-Dinitrotoluene	ug/L	ND	6.0	05/16/13 14:48	
2,6-Dinitrotoluene	ug/L	ND	5.0	05/16/13 14:48	
2-Chloronaphthalene	ug/L	ND	5.0	05/16/13 14:48	
2-Chlorophenol	ug/L	ND	5.0	05/16/13 14:48	
2-Nitrophenol	ug/L	ND	5.0	05/16/13 14:48	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	05/16/13 14:48	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/16/13 14:48	
4-Bromophenylphenyl ether	ug/L	ND	5.0	05/16/13 14:48	
4-Chloro-3-methylphenol	ug/L	ND	5.0	05/16/13 14:48	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	05/16/13 14:48	
4-Nitrophenol	ug/L	ND	5.0	05/16/13 14:48	
Acenaphthene	ug/L	ND	5.0	05/16/13 14:48	
Acenaphthylene	ug/L	ND	5.0	05/16/13 14:48	
Anthracene	ug/L	ND	5.0	05/16/13 14:48	
Benzidine	ug/L	ND	50.0	05/16/13 14:48	
Benzo(a)anthracene	ug/L	ND	5.0	05/16/13 14:48	
Benzo(a)pyrene	ug/L	ND	5.0	05/16/13 14:48	
Benzo(b)fluoranthene	ug/L	ND	5.0	05/16/13 14:48	
Benzo(g,h,i)perylene	ug/L	ND	5.0	05/16/13 14:48	
Benzo(k)fluoranthene	ug/L	ND	5.0	05/16/13 14:48	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	05/16/13 14:48	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	05/16/13 14:48	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	05/16/13 14:48	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	05/16/13 14:48	
Butylbenzylphthalate	ug/L	ND	5.0	05/16/13 14:48	
Chrysene	ug/L	ND	5.0	05/16/13 14:48	
Di-n-butylphthalate	ug/L	ND	5.0	05/16/13 14:48	
Di-n-octylphthalate	ug/L	ND	5.0	05/16/13 14:48	
Dibenz(a,h)anthracene	ug/L	ND	5.0	05/16/13 14:48	
Diethylphthalate	ug/L	ND	5.0	05/16/13 14:48	
Dimethylphthalate	ug/L	ND	5.0	05/16/13 14:48	
Fluoranthene	ug/L	ND	5.0	05/16/13 14:48	
Fluorene	ug/L	ND	5.0	05/16/13 14:48	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/16/13 14:48	
Hexachlorobenzene	ug/L	ND	5.0	05/16/13 14:48	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/16/13 14:48	
Hexachloroethane	ug/L	ND	5.0	05/16/13 14:48	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	05/16/13 14:48	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

METHOD BLANK: 1186511

Matrix: Water

Associated Lab Samples: 60144432001, 60144432003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	05/16/13 14:48	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	05/16/13 14:48	
N-Nitrosodimethylamine	ug/L	ND	5.0	05/16/13 14:48	
N-Nitrosodiphenylamine	ug/L	ND	5.0	05/16/13 14:48	
Naphthalene	ug/L	ND	5.0	05/16/13 14:48	
Nitrobenzene	ug/L	ND	5.0	05/16/13 14:48	
Pentachlorophenol	ug/L	ND	5.0	05/16/13 14:48	
Phenanthrene	ug/L	ND	5.0	05/16/13 14:48	
Phenol	ug/L	ND	5.0	05/16/13 14:48	
Pyrene	ug/L	ND	5.0	05/16/13 14:48	
2,4,6-Tribromophenol (S)	%	66	39-119	05/16/13 14:48	
2-Fluorobiphenyl (S)	%	64	36-120	05/16/13 14:48	
2-Fluorophenol (S)	%	39	18-120	05/16/13 14:48	
Nitrobenzene-d5 (S)	%	61	32-120	05/16/13 14:48	
Phenol-d6 (S)	%	25	12-120	05/16/13 14:48	
Terphenyl-d14 (S)	%	74	44-120	05/16/13 14:48	

LABORATORY CONTROL SAMPLE: 1186512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	32.5	65	44-120	
2,4,6-Trichlorophenol	ug/L	50	36.3	73	48-120	
2,4-Dichlorophenol	ug/L	50	34.7	69	48-120	
2,4-Dimethylphenol	ug/L	50	32.1	64	37-119	
2,4-Dinitrophenol	ug/L	50	34.4J	69	15-153	
2,4-Dinitrotoluene	ug/L	50	39.1	78	54-120	
2,6-Dinitrotoluene	ug/L	50	37.5	75	52-120	
2-Chloronaphthalene	ug/L	50	34.2	68	60-118	
2-Chlorophenol	ug/L	50	33.3	67	44-120	
2-Nitrophenol	ug/L	50	38.5	77	43-120	
3,3'-Dichlorobenzidine	ug/L	50	73.1	146	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	39.9	80	31-147	
4-Bromophenylphenyl ether	ug/L	50	36.2	72	53-120	
4-Chloro-3-methylphenol	ug/L	50	35.3	71	50-120	
4-Chlorophenylphenyl ether	ug/L	50	35.9	72	54-120	
4-Nitrophenol	ug/L	50	15.2	30	10-120	
Acenaphthene	ug/L	50	34.9	70	51-120	
Acenaphthylene	ug/L	50	34.7	69	51-120	
Anthracene	ug/L	50	37.2	74	54-120	
Benzidine	ug/L	50	42.2J	84	1-124	
Benzo(a)anthracene	ug/L	50	39.0	78	54-120	
Benzo(a)pyrene	ug/L	50	38.4	77	54-120	
Benzo(b)fluoranthene	ug/L	50	40.4	81	57-120	
Benzo(g,h,i)perylene	ug/L	50	37.6	75	54-120	
Benzo(k)fluoranthene	ug/L	50	36.5	73	52-121	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

LABORATORY CONTROL SAMPLE: 1186512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	50	34.3	69	51-120	
bis(2-Chloroethyl) ether	ug/L	50	33.1	66	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	34.4	69	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	42.6	85	51-126	
Butylbenzylphthalate	ug/L	50	42.3	85	45-129	
Chrysene	ug/L	50	38.2	76	54-120	
Di-n-butylphthalate	ug/L	50	40.5	81	57-118	
Di-n-octylphthalate	ug/L	50	42.1	84	48-130	
Dibenz(a,h)anthracene	ug/L	50	37.8	76	56-119	
Diethylphthalate	ug/L	50	36.7	73	55-114	
Dimethylphthalate	ug/L	50	36.4	73	54-112	
Fluoranthene	ug/L	50	38.7	77	56-120	
Fluorene	ug/L	50	35.6	71	59-120	
Hexachloro-1,3-butadiene	ug/L	50	31.8	64	41-116	
Hexachlorobenzene	ug/L	50	36.0	72	53-120	
Hexachlorocyclopentadiene	ug/L	100	55.4	55	31-120	
Hexachloroethane	ug/L	50	31.9	64	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	38.0	76	55-120	
Isophorone	ug/L	50	34.9	70	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	34.9	70	47-120	
N-Nitrosodimethylamine	ug/L	50	23.1	46	28-120	
N-Nitrosodiphenylamine	ug/L	50	36.2	72	53-120	
Naphthalene	ug/L	50	33.7	67	48-120	
Nitrobenzene	ug/L	50	34.4	69	47-120	
Pentachlorophenol	ug/L	50	40.1	80	43-127	
Phenanthrene	ug/L	50	36.4	73	55-120	
Phenol	ug/L	50	14.3	29	15-112	
Pyrene	ug/L	50	38.6	77	55-115	
2,4,6-Tribromophenol (S)	%			82	39-119	
2-Fluorobiphenyl (S)	%			70	36-120	
2-Fluorophenol (S)	%			43	18-120	
Nitrobenzene-d5 (S)	%			67	32-120	
Phenol-d6 (S)	%			28	12-120	
Terphenyl-d14 (S)	%			77	44-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

QC Batch: WET/41243 Analysis Method: EPA 1664A
 QC Batch Method: EPA 1664A Analysis Description: 1664 HEM, Oil and Grease
 Associated Lab Samples: 60144432001, 60144432003

METHOD BLANK: 1186335 Matrix: Water

Associated Lab Samples: 60144432001, 60144432003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	05/14/13 07:22	

LABORATORY CONTROL SAMPLE: 1186336

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	38.5	96	78-114	

MATRIX SPIKE SAMPLE: 1186337

Parameter	Units	60144200001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	8.6	42.6	44.6	85	78-114	

SAMPLE DUPLICATE: 1186339

Parameter	Units	60144333001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	2.1J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

QC Batch: WET/41274

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60144432001, 60144432003

METHOD BLANK: 1187143

Matrix: Water

Associated Lab Samples: 60144432001, 60144432003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/15/13 09:08	

SAMPLE DUPLICATE: 1187144

Parameter	Units	60144432001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	1080	1080	0	25	

SAMPLE DUPLICATE: 1187145

Parameter	Units	60144427002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	400	400	0	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

QC Batch: WET/41228 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60144432001, 60144432003

SAMPLE DUPLICATE: 1186161

Parameter	Units	60144195002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.2	8.2	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

QC Batch: WET/41215

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60144432001, 60144432003

METHOD BLANK: 1185556

Matrix: Water

Associated Lab Samples: 60144432001, 60144432003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/16/13 16:17	

LABORATORY CONTROL SAMPLE: 1185557

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	215	109	85-115	

SAMPLE DUPLICATE: 1185558

Parameter	Units	60144425001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	348	339	2	17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

QC Batch: WETA/24705 Analysis Method: EPA 350.1
 QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
 Associated Lab Samples: 60144432001, 60144432003

METHOD BLANK: 1187872 Matrix: Water

Associated Lab Samples: 60144432001, 60144432003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/16/13 15:09	

LABORATORY CONTROL SAMPLE: 1187873

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

MATRIX SPIKE SAMPLE: 1187874

Parameter	Units	60144179001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.48	2	2.3	90	90-110	

MATRIX SPIKE SAMPLE: 1187875

Parameter	Units	60144181001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1.9	2	3.5	82	90-110	M1

SAMPLE DUPLICATE: 1187876

Parameter	Units	60144187001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

QC Batch: WETA/24697 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60144432001, 60144432003

METHOD BLANK: 1187823 Matrix: Water

Associated Lab Samples: 60144432001, 60144432003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/17/13 12:29	

LABORATORY CONTROL SAMPLE: 1187824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	51.3	103	90-110	

MATRIX SPIKE SAMPLE: 1187825

Parameter	Units	60144432001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	60800	25000	84200	93	90-110	

MATRIX SPIKE SAMPLE: 1187827

Parameter	Units	60144495001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1850	2500	4310	98	90-110	

SAMPLE DUPLICATE: 1187826

Parameter	Units	60144432003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	40700	40100	2	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 105/107 MSD

Pace Project No.: 60144432

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/38353

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

ANALYTE QUALIFIERS

B1 Less than 1.0 mg/L DO remained for all dilutions set. The reported value is an estimated greater than value and is calculated for the dilution using the least amount of sample.

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

D9 Dissolved result is greater than the total. Data is within laboratory control limits.

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

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

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 105/107 MSD

Pace Project No.: 60144432

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60144432001	105-MSD	EPA 200.7	MPRP/22702	EPA 200.7	ICP/17986
60144432003	107-MSD	EPA 200.7	MPRP/22702	EPA 200.7	ICP/17986
60144432001	105-MSD	EPA 200.7	MPRP/22670	EPA 200.7	ICP/17962
60144432003	107-MSD	EPA 200.7	MPRP/22670	EPA 200.7	ICP/17962
60144432001	105-MSD	EPA 245.1	MERP/7343	EPA 245.1	MERC/7301
60144432003	107-MSD	EPA 245.1	MERP/7343	EPA 245.1	MERC/7301
60144432001	105-MSD	EPA 245.1	MERP/7344	EPA 245.1	MERC/7302
60144432003	107-MSD	EPA 245.1	MERP/7344	EPA 245.1	MERC/7302
60144432001	105-MSD	EPA 625	OEXT/38353	EPA 625	MSSV/12128
60144432003	107-MSD	EPA 625	OEXT/38353	EPA 625	MSSV/12128
60144432001	105-MSD	EPA 624 Low	MSV/53665		
60144432002	TRIP BLANK	EPA 624 Low	MSV/53665		
60144432003	107-MSD	EPA 624 Low	MSV/53665		
60144432004	TRIP BLANK	EPA 624 Low	MSV/53665		
60144432001	105-MSD	EPA 1664A	WET/41243		
60144432003	107-MSD	EPA 1664A	WET/41243		
60144432001	105-MSD	SM 2540D	WET/41274		
60144432003	107-MSD	SM 2540D	WET/41274		
60144432001	105-MSD	SM 4500-H+B	WET/41228		
60144432003	107-MSD	SM 4500-H+B	WET/41228		
60144432001	105-MSD	SM 5210B	WET/41215	SM 5210B	WET/41318
60144432003	107-MSD	SM 5210B	WET/41215	SM 5210B	WET/41318
60144432001	105-MSD	EPA 350.1	WETA/24705		
60144432003	107-MSD	EPA 350.1	WETA/24705		
60144432001	105-MSD	EPA 410.4	WETA/24697		
60144432003	107-MSD	EPA 410.4	WETA/24697		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60144432

60144432

Client Name: Barr Eng.

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

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

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

Cooler Temperature: 1.4, 3.6

Date and initials of person examining contents: JMS 5/11/13 B35

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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD, pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>water</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>JMS</u> Lot # of added preservative <u>1394</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>covered</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	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: 5/14/13

May 20, 2013

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

RE: Project: BRIDGETON LF 112/114 MSD
Pace Project No.: 60144495

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 13, 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 112/114 MSD

Pace Project No.: 60144495

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA Certification #: 2456.01

Arkansas Certification #: 12-019-0

Illinois Certification #: 002885

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-12-3

Utah Certification #: KS000212012-2

Illinois Certification #: 003097

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SAMPLE SUMMARY

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60144495001	112-MSD	Water	05/12/13 12:49	05/13/13 13:40
60144495002	TRIP BLANK	Water	05/12/13 08:00	05/13/13 13:40
60144495003	114-MSD	Water	05/12/13 17:31	05/13/13 13:40
60144495004	TRIP BLANK	Water	05/12/13 08:00	05/13/13 13:40

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60144495001	112-MSD	EPA 200.7	JGP	15
		EPA 200.7	NDJ	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	PRG	38
		EPA 1664A	JMC1	1
		SM 2540D	RAS	1
		SM 4500-H+B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
60144495002	TRIP BLANK	EPA 624 Low	PRG	38
60144495003	114-MSD	EPA 200.7	JGP	15
		EPA 200.7	NDJ	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	PRG	38
		EPA 1664A	JMC1	1
		SM 2540D	RAS	1
		SM 4500-H+B	NDL	1
		EPA 350.1	AJM	1
EPA 410.4	DJR	1		
60144495004	TRIP BLANK	EPA 624 Low	PRG	38

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

Sample: 112-MSD		Lab ID: 60144495001	Collected: 05/12/13 12:49	Received: 05/13/13 13:40	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	6470 ug/L		150	2	05/17/13 09:25	05/17/13 14:56	7429-90-5	
Antimony	33.0 ug/L		20.0	2	05/17/13 09:25	05/17/13 14:56	7440-36-0	D9
Arsenic	613 ug/L		20.0	2	05/17/13 09:25	05/17/13 14:56	7440-38-2	
Beryllium	ND ug/L		2.0	2	05/17/13 09:25	05/17/13 14:56	7440-41-7	D3
Cadmium	ND ug/L		10.0	2	05/17/13 09:25	05/17/13 14:56	7440-43-9	D3
Chromium	221 ug/L		10.0	2	05/17/13 09:25	05/17/13 14:56	7440-47-3	
Cobalt	27.9 ug/L		10.0	2	05/17/13 09:25	05/17/13 14:56	7440-48-4	
Copper	24.0 ug/L		20.0	2	05/17/13 09:25	05/17/13 14:56	7440-50-8	
Iron	710000 ug/L		100	2	05/17/13 09:25	05/17/13 14:56	7439-89-6	
Lead	168 ug/L		10.0	2	05/17/13 09:25	05/17/13 14:56	7439-92-1	
Nickel	81.5 ug/L		10.0	2	05/17/13 09:25	05/17/13 14:56	7440-02-0	
Selenium	ND ug/L		30.0	2	05/17/13 09:25	05/17/13 14:56	7782-49-2	D3
Silver	ND ug/L		14.0	2	05/17/13 09:25	05/17/13 14:56	7440-22-4	D3
Thallium	ND ug/L		40.0	2	05/17/13 09:25	05/17/13 14:56	7440-28-0	D3
Zinc	12000 ug/L		100	2	05/17/13 09:25	05/17/13 14:56	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	3540 ug/L		150	2	05/14/13 17:00	05/15/13 11:46	7429-90-5	
Antimony, Dissolved	48.8 ug/L		20.0	2	05/14/13 17:00	05/15/13 11:46	7440-36-0	D9
Arsenic, Dissolved	419 ug/L		20.0	2	05/14/13 17:00	05/15/13 11:46	7440-38-2	
Beryllium, Dissolved	ND ug/L		5.0	5	05/14/13 17:00	05/15/13 14:26	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		10.0	2	05/14/13 17:00	05/15/13 11:46	7440-43-9	D3
Chromium, Dissolved	204 ug/L		25.0	5	05/14/13 17:00	05/15/13 14:26	7440-47-3	
Cobalt, Dissolved	22.5 ug/L		10.0	2	05/14/13 17:00	05/15/13 11:46	7440-48-4	
Copper, Dissolved	ND ug/L		20.0	2	05/14/13 17:00	05/15/13 11:46	7440-50-8	D3
Iron, Dissolved	494000 ug/L		100	2	05/14/13 17:00	05/15/13 11:46	7439-89-6	
Lead, Dissolved	77.0 ug/L		10.0	2	05/14/13 17:00	05/15/13 11:46	7439-92-1	
Nickel, Dissolved	65.6 ug/L		10.0	2	05/14/13 17:00	05/15/13 11:46	7440-02-0	
Selenium, Dissolved	ND ug/L		75.0	5	05/14/13 17:00	05/15/13 12:52	7782-49-2	D3
Silver, Dissolved	ND ug/L		14.0	2	05/14/13 17:00	05/15/13 11:46	7440-22-4	D3
Thallium, Dissolved	ND ug/L		100	5	05/14/13 17:00	05/15/13 12:52	7440-28-0	D3
Zinc, Dissolved	10800 ug/L		100	2	05/14/13 17:00	05/15/13 11:46	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	1.9 ug/L		0.20	1	05/16/13 10:25	05/17/13 14:04	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	05/15/13 08:45	05/15/13 13:26	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	83-32-9	
Acenaphthylene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	208-96-8	
Anthracene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	120-12-7	
Benzidine	ND ug/L		5000	10	05/14/13 00:00	05/16/13 18:35	92-87-5	
Benzo(a)anthracene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	56-55-3	
Benzo(a)pyrene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

Sample: 112-MSD		Lab ID: 60144495001	Collected: 05/12/13 12:49	Received: 05/13/13 13:40	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		500	10	05/14/13 00:00	05/16/13 18:35	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	191-24-2	
Benzo(k)fluoranthene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	207-08-9	
4-Bromophenylphenyl ether	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	101-55-3	
Butylbenzylphthalate	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	85-68-7	
4-Chloro-3-methylphenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	59-50-7	
bis(2-Chloroethoxy)methane	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		600	10	05/14/13 00:00	05/16/13 18:35	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		600	10	05/14/13 00:00	05/16/13 18:35	39638-32-9	
2-Chloronaphthalene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	91-58-7	
2-Chlorophenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	7005-72-3	
Chrysene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	53-70-3	
3,3'-Dichlorobenzidine	ND ug/L		2000	10	05/14/13 00:00	05/16/13 18:35	91-94-1	
2,4-Dichlorophenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	120-83-2	
Diethylphthalate	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	84-66-2	
2,4-Dimethylphenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	105-67-9	
Dimethylphthalate	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	131-11-3	
Di-n-butylphthalate	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		2500	10	05/14/13 00:00	05/16/13 18:35	534-52-1	
2,4-Dinitrophenol	ND ug/L		5000	10	05/14/13 00:00	05/16/13 18:35	51-28-5	
2,4-Dinitrotoluene	ND ug/L		600	10	05/14/13 00:00	05/16/13 18:35	121-14-2	
2,6-Dinitrotoluene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	606-20-2	
Di-n-octylphthalate	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	117-81-7	
Fluoranthene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	206-44-0	
Fluorene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	87-68-3	
Hexachlorobenzene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	77-47-4	
Hexachloroethane	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	193-39-5	
Isophorone	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	78-59-1	
Naphthalene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	91-20-3	
Nitrobenzene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	98-95-3	
2-Nitrophenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	88-75-5	
4-Nitrophenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	100-02-7	
N-Nitrosodimethylamine	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	86-30-6	
Pentachlorophenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	87-86-5	
Phenanthrene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	85-01-8	
Phenol	12300 ug/L		2500	50	05/14/13 00:00	05/17/13 11:38	108-95-2	
Pyrene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:35	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

Sample: 112-MSD		Lab ID: 60144495001	Collected: 05/12/13 12:49	Received: 05/13/13 13:40	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	10	05/14/13 00:00	05/16/13 18:35	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	10	05/14/13 00:00	05/16/13 18:35	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	10	05/14/13 00:00	05/16/13 18:35	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	10	05/14/13 00:00	05/16/13 18:35	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	10	05/14/13 00:00	05/16/13 18:35	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	10	05/14/13 00:00	05/16/13 18:35	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		05/15/13 20:20	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/15/13 20:20	75-27-4	
Bromoform	ND ug/L		200	200		05/15/13 20:20	75-25-2	
Bromomethane	ND ug/L		1000	200		05/15/13 20:20	74-83-9	L3
Carbon tetrachloride	ND ug/L		200	200		05/15/13 20:20	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/15/13 20:20	108-90-7	
Chloroethane	ND ug/L		200	200		05/15/13 20:20	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/15/13 20:20	110-75-8	
Chloroform	ND ug/L		200	200		05/15/13 20:20	67-66-3	
Chloromethane	ND ug/L		200	200		05/15/13 20:20	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/15/13 20:20	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/15/13 20:20	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/15/13 20:20	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/15/13 20:20	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/15/13 20:20	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/15/13 20:20	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/15/13 20:20	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/15/13 20:20	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/15/13 20:20	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/15/13 20:20	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/15/13 20:20	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/15/13 20:20	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/15/13 20:20	100-41-4	
Methylene chloride	ND ug/L		200	200		05/15/13 20:20	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/15/13 20:20	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/15/13 20:20	127-18-4	
Toluene	ND ug/L		200	200		05/15/13 20:20	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/15/13 20:20	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/15/13 20:20	79-00-5	
Trichloroethene	ND ug/L		200	200		05/15/13 20:20	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/15/13 20:20	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/15/13 20:20	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/15/13 20:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102 %		80-120	200		05/15/13 20:20	1868-53-7	D3
4-Bromofluorobenzene (S)	99 %		80-120	200		05/15/13 20:20	460-00-4	
Toluene-d8 (S)	99 %		80-120	200		05/15/13 20:20	2037-26-5	
1,2-Dichloroethane-d4 (S)	103 %		80-120	200		05/15/13 20:20	17060-07-0	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

Sample: 112-MSD		Lab ID: 60144495001	Collected: 05/12/13 12:49	Received: 05/13/13 13:40	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		05/15/13 20:20		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	342	mg/L	5.0	1		05/16/13 08:47		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	1670	mg/L	5.0	1		05/15/13 09:10		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.6	Std. Units	0.10	1		05/14/13 15:44		H6
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	695	mg/L	20.0	1		05/16/13 15:14	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	1850	mg/L	500	50		05/17/13 12:44		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

Sample: TRIP BLANK		Lab ID: 60144495002	Collected: 05/12/13 08:00	Received: 05/13/13 13:40	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		05/15/13 18:55	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		05/15/13 18:55	75-27-4	
Bromoform	ND	ug/L	1.0	1		05/15/13 18:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/15/13 18:55	74-83-9	L3
Carbon tetrachloride	ND	ug/L	1.0	1		05/15/13 18:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		05/15/13 18:55	108-90-7	
Chloroethane	ND	ug/L	1.0	1		05/15/13 18:55	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L	10.0	1		05/15/13 18:55	110-75-8	
Chloroform	ND	ug/L	1.0	1		05/15/13 18:55	67-66-3	
Chloromethane	ND	ug/L	1.0	1		05/15/13 18:55	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		05/15/13 18:55	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		05/15/13 18:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		05/15/13 18:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		05/15/13 18:55	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	1		05/15/13 18:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	1		05/15/13 18:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	1		05/15/13 18:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/13 18:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		05/15/13 18:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	1		05/15/13 18:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/13 18:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		05/15/13 18:55	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	1		05/15/13 18:55	100-41-4	
Methylene chloride	1.4	ug/L	1.0	1		05/15/13 18:55	75-09-2	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		05/15/13 18:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	1		05/15/13 18:55	127-18-4	
Toluene	ND	ug/L	1.0	1		05/15/13 18:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	1.0	1		05/15/13 18:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		05/15/13 18:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	1		05/15/13 18:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		05/15/13 18:55	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		05/15/13 18:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		05/15/13 18:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98 %		80-120	1		05/15/13 18:55	1868-53-7	
4-Bromofluorobenzene (S)	98 %		80-120	1		05/15/13 18:55	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		05/15/13 18:55	2037-26-5	
1,2-Dichloroethane-d4 (S)	99 %		80-120	1		05/15/13 18:55	17060-07-0	
Preservation pH	7.0		1.0	1		05/15/13 18:55		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

Sample: 114-MSD	Lab ID: 60144495003	Collected: 05/12/13 17:31	Received: 05/13/13 13:40	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	6150 ug/L		150	2	05/17/13 09:25	05/17/13 14:59	7429-90-5	
Antimony	25.8 ug/L		20.0	2	05/17/13 09:25	05/17/13 14:59	7440-36-0	D9
Arsenic	567 ug/L		20.0	2	05/17/13 09:25	05/17/13 14:59	7440-38-2	M1
Beryllium	ND ug/L		2.0	2	05/17/13 09:25	05/17/13 14:59	7440-41-7	D3
Cadmium	ND ug/L		10.0	2	05/17/13 09:25	05/17/13 14:59	7440-43-9	
Chromium	228 ug/L		10.0	2	05/17/13 09:25	05/17/13 14:59	7440-47-3	
Cobalt	32.7 ug/L		10.0	2	05/17/13 09:25	05/17/13 14:59	7440-48-4	
Copper	21.2 ug/L		20.0	2	05/17/13 09:25	05/17/13 14:59	7440-50-8	
Iron	751000 ug/L		100	2	05/17/13 09:25	05/17/13 14:59	7439-89-6	M1
Lead	189 ug/L		10.0	2	05/17/13 09:25	05/17/13 14:59	7439-92-1	
Nickel	93.4 ug/L		10.0	2	05/17/13 09:25	05/17/13 14:59	7440-02-0	
Selenium	ND ug/L		30.0	2	05/17/13 09:25	05/17/13 14:59	7782-49-2	D3,M1
Silver	ND ug/L		14.0	2	05/17/13 09:25	05/17/13 14:59	7440-22-4	D3,M1
Thallium	ND ug/L		40.0	2	05/17/13 09:25	05/17/13 14:59	7440-28-0	D3
Zinc	13500 ug/L		100	2	05/17/13 09:25	05/17/13 14:59	7440-66-6	
200.7 Metals, Dissolved (LF)								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum, Dissolved	3330 ug/L		150	2	05/14/13 17:00	05/15/13 11:50	7429-90-5	
Antimony, Dissolved	41.0 ug/L		20.0	2	05/14/13 17:00	05/15/13 11:50	7440-36-0	D9
Arsenic, Dissolved	387 ug/L		20.0	2	05/14/13 17:00	05/15/13 11:50	7440-38-2	
Beryllium, Dissolved	ND ug/L		2.0	2	05/14/13 17:00	05/15/13 11:50	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		10.0	2	05/14/13 17:00	05/15/13 11:50	7440-43-9	D3
Chromium, Dissolved	172 ug/L		10.0	2	05/14/13 17:00	05/15/13 11:50	7440-47-3	
Cobalt, Dissolved	24.4 ug/L		10.0	2	05/14/13 17:00	05/15/13 11:50	7440-48-4	
Copper, Dissolved	ND ug/L		20.0	2	05/14/13 17:00	05/15/13 11:50	7440-50-8	D3
Iron, Dissolved	508000 ug/L		100	2	05/14/13 17:00	05/15/13 11:50	7439-89-6	
Lead, Dissolved	106 ug/L		10.0	2	05/14/13 17:00	05/15/13 11:50	7439-92-1	
Nickel, Dissolved	70.7 ug/L		10.0	2	05/14/13 17:00	05/15/13 11:50	7440-02-0	
Selenium, Dissolved	ND ug/L		30.0	2	05/14/13 17:00	05/15/13 11:50	7782-49-2	D3
Silver, Dissolved	ND ug/L		14.0	2	05/14/13 17:00	05/15/13 11:50	7440-22-4	D3
Thallium, Dissolved	ND ug/L		40.0	2	05/14/13 17:00	05/15/13 11:50	7440-28-0	D3
Zinc, Dissolved	11700 ug/L		100	2	05/14/13 17:00	05/15/13 11:50	7440-66-6	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	1.2 ug/L		0.20	1	05/16/13 10:25	05/17/13 14:06	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	05/15/13 08:45	05/15/13 13:32	7439-97-6	
625 MSSV								
Analytical Method: EPA 625 Preparation Method: EPA 625								
Acenaphthene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	83-32-9	
Acenaphthylene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	208-96-8	
Anthracene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	120-12-7	
Benzidine	ND ug/L		5000	10	05/14/13 00:00	05/16/13 18:56	92-87-5	
Benzo(a)anthracene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	56-55-3	
Benzo(a)pyrene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	50-32-8	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

Sample: 114-MSD		Lab ID: 60144495003	Collected: 05/12/13 17:31	Received: 05/13/13 13:40	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		500	10	05/14/13 00:00	05/16/13 18:56	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	191-24-2	
Benzo(k)fluoranthene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	207-08-9	
4-Bromophenylphenyl ether	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	101-55-3	
Butylbenzylphthalate	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	85-68-7	
4-Chloro-3-methylphenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	59-50-7	
bis(2-Chloroethoxy)methane	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		600	10	05/14/13 00:00	05/16/13 18:56	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		600	10	05/14/13 00:00	05/16/13 18:56	39638-32-9	
2-Chloronaphthalene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	91-58-7	
2-Chlorophenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	7005-72-3	
Chrysene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	53-70-3	
3,3'-Dichlorobenzidine	ND ug/L		2000	10	05/14/13 00:00	05/16/13 18:56	91-94-1	
2,4-Dichlorophenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	120-83-2	
Diethylphthalate	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	84-66-2	
2,4-Dimethylphenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	105-67-9	
Dimethylphthalate	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	131-11-3	
Di-n-butylphthalate	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		2500	10	05/14/13 00:00	05/16/13 18:56	534-52-1	
2,4-Dinitrophenol	ND ug/L		5000	10	05/14/13 00:00	05/16/13 18:56	51-28-5	
2,4-Dinitrotoluene	ND ug/L		600	10	05/14/13 00:00	05/16/13 18:56	121-14-2	
2,6-Dinitrotoluene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	606-20-2	
Di-n-octylphthalate	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	117-81-7	
Fluoranthene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	206-44-0	
Fluorene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	87-68-3	
Hexachlorobenzene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	77-47-4	
Hexachloroethane	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	193-39-5	
Isophorone	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	78-59-1	
Naphthalene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	91-20-3	
Nitrobenzene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	98-95-3	
2-Nitrophenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	88-75-5	
4-Nitrophenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	100-02-7	
N-Nitrosodimethylamine	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	86-30-6	
Pentachlorophenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	87-86-5	
Phenanthrene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	85-01-8	
Phenol	10600 ug/L		2500	50	05/14/13 00:00	05/17/13 11:58	108-95-2	
Pyrene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		500	10	05/14/13 00:00	05/16/13 18:56	88-06-2	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

Sample: 114-MSD		Lab ID: 60144495003	Collected: 05/12/13 17:31	Received: 05/13/13 13:40	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	10	05/14/13 00:00	05/16/13 18:56	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	10	05/14/13 00:00	05/16/13 18:56	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	10	05/14/13 00:00	05/16/13 18:56	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	10	05/14/13 00:00	05/16/13 18:56	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	10	05/14/13 00:00	05/16/13 18:56	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	10	05/14/13 00:00	05/16/13 18:56	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		05/15/13 20:41	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/15/13 20:41	75-27-4	
Bromoform	ND ug/L		200	200		05/15/13 20:41	75-25-2	
Bromomethane	ND ug/L		1000	200		05/15/13 20:41	74-83-9	L3
Carbon tetrachloride	ND ug/L		200	200		05/15/13 20:41	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/15/13 20:41	108-90-7	
Chloroethane	ND ug/L		200	200		05/15/13 20:41	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/15/13 20:41	110-75-8	
Chloroform	ND ug/L		200	200		05/15/13 20:41	67-66-3	
Chloromethane	ND ug/L		200	200		05/15/13 20:41	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/15/13 20:41	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/15/13 20:41	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/15/13 20:41	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/15/13 20:41	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/15/13 20:41	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/15/13 20:41	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/15/13 20:41	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/15/13 20:41	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/15/13 20:41	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/15/13 20:41	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/15/13 20:41	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/15/13 20:41	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/15/13 20:41	100-41-4	
Methylene chloride	ND ug/L		200	200		05/15/13 20:41	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/15/13 20:41	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/15/13 20:41	127-18-4	
Toluene	ND ug/L		200	200		05/15/13 20:41	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/15/13 20:41	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/15/13 20:41	79-00-5	
Trichloroethene	ND ug/L		200	200		05/15/13 20:41	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/15/13 20:41	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/15/13 20:41	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/15/13 20:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98 %		80-120	200		05/15/13 20:41	1868-53-7	D3
4-Bromofluorobenzene (S)	97 %		80-120	200		05/15/13 20:41	460-00-4	
Toluene-d8 (S)	100 %		80-120	200		05/15/13 20:41	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	200		05/15/13 20:41	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

Sample: 114-MSD		Lab ID: 60144495003	Collected: 05/12/13 17:31	Received: 05/13/13 13:40	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		05/15/13 20:41		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	436	mg/L	5.0	1		05/16/13 08:47		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	1540	mg/L	5.0	1		05/15/13 09:10		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.6	Std. Units	0.10	1		05/14/13 15:44		H6
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	688	mg/L	20.0	1		05/16/13 15:15	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	39300	mg/L	5000	500		05/17/13 12:45		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

Sample: TRIP BLANK		Lab ID: 60144495004	Collected: 05/12/13 08:00	Received: 05/13/13 13:40	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		05/15/13 19:16	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		05/15/13 19:16	75-27-4	
Bromoform	ND ug/L		1.0	1		05/15/13 19:16	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/15/13 19:16	74-83-9	L3
Carbon tetrachloride	ND ug/L		1.0	1		05/15/13 19:16	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/15/13 19:16	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/15/13 19:16	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		05/15/13 19:16	110-75-8	
Chloroform	ND ug/L		1.0	1		05/15/13 19:16	67-66-3	
Chloromethane	ND ug/L		1.0	1		05/15/13 19:16	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		05/15/13 19:16	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/15/13 19:16	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/15/13 19:16	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/15/13 19:16	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		05/15/13 19:16	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/15/13 19:16	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/15/13 19:16	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/15/13 19:16	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/15/13 19:16	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		05/15/13 19:16	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		05/15/13 19:16	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		05/15/13 19:16	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		05/15/13 19:16	100-41-4	
Methylene chloride	1.4 ug/L		1.0	1		05/15/13 19:16	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/15/13 19:16	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/15/13 19:16	127-18-4	
Toluene	ND ug/L		1.0	1		05/15/13 19:16	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/15/13 19:16	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/15/13 19:16	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/15/13 19:16	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/15/13 19:16	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		05/15/13 19:16	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/15/13 19:16	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97 %		80-120	1		05/15/13 19:16	1868-53-7	
4-Bromofluorobenzene (S)	97 %		80-120	1		05/15/13 19:16	460-00-4	
Toluene-d8 (S)	99 %		80-120	1		05/15/13 19:16	2037-26-5	
1,2-Dichloroethane-d4 (S)	99 %		80-120	1		05/15/13 19:16	17060-07-0	
Preservation pH	7.0		1.0	1		05/15/13 19:16		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

QC Batch: MERP/7351 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
 Associated Lab Samples: 60144495001, 60144495003

METHOD BLANK: 1188023 Matrix: Water

Associated Lab Samples: 60144495001, 60144495003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/17/13 13:59	

LABORATORY CONTROL SAMPLE: 1188024

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1188025 1188026

Parameter	Units	601444565001		MSD		MS		MSD		% Rec Limits	Max		Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec	RPD		RPD		
Mercury	ug/L	ND	5	5	4.3	4.4	87	87	70-130	0	20		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

QC Batch: MERP/7344

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60144495001, 60144495003

METHOD BLANK: 1187065

Matrix: Water

Associated Lab Samples: 60144495001, 60144495003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/15/13 13:12	

LABORATORY CONTROL SAMPLE: 1187066

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: 1187067

1187068

Parameter	Units	60144432003 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	1.3	1.2	25	23	70-130	11	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

QC Batch: MPRP/22702 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60144495001, 60144495003

METHOD BLANK: 1188600 Matrix: Water

Associated Lab Samples: 60144495001, 60144495003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	05/17/13 14:33	
Antimony	ug/L	ND	10.0	05/17/13 14:33	
Arsenic	ug/L	ND	10.0	05/17/13 14:33	
Beryllium	ug/L	ND	1.0	05/17/13 14:33	
Cadmium	ug/L	ND	5.0	05/17/13 14:33	
Chromium	ug/L	ND	5.0	05/17/13 14:33	
Cobalt	ug/L	ND	5.0	05/17/13 14:33	
Copper	ug/L	ND	10.0	05/17/13 14:33	
Iron	ug/L	ND	50.0	05/17/13 14:33	
Lead	ug/L	ND	5.0	05/17/13 14:33	
Nickel	ug/L	ND	5.0	05/17/13 14:33	
Selenium	ug/L	ND	15.0	05/17/13 14:33	
Silver	ug/L	ND	7.0	05/17/13 14:33	
Thallium	ug/L	ND	20.0	05/17/13 14:33	
Zinc	ug/L	ND	50.0	05/17/13 14:33	

LABORATORY CONTROL SAMPLE: 1188601

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	10000	100	85-115	
Antimony	ug/L	1000	1010	101	85-115	
Arsenic	ug/L	1000	996	100	85-115	
Beryllium	ug/L	1000	1030	103	85-115	
Cadmium	ug/L	1000	1000	100	85-115	
Chromium	ug/L	1000	961	96	85-115	
Cobalt	ug/L	1000	1020	102	85-115	
Copper	ug/L	1000	978	98	85-115	
Iron	ug/L	10000	9930	99	85-115	
Lead	ug/L	1000	1000	100	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	1000	100	85-115	
Silver	ug/L	500	488	98	85-115	
Thallium	ug/L	1000	1050	105	85-115	
Zinc	ug/L	1000	1000	100	85-115	

MATRIX SPIKE SAMPLE: 1188602

Parameter	Units	60144495003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	6150	10000	18100	120	70-130	
Antimony	ug/L	25.8	1000	961	94	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

MATRIX SPIKE SAMPLE:		1188602					
Parameter	Units	60144495003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	567	1000	1890	132	70-130	M1
Beryllium	ug/L	ND	1000	909	91	70-130	
Cadmium	ug/L	ND	1000	1100	110	70-130	
Chromium	ug/L	228	1000	1110	88	70-130	
Cobalt	ug/L	32.7	1000	945	91	70-130	
Copper	ug/L	21.2	1000	1110	109	70-130	
Iron	ug/L	751000	10000	776000	250	70-130	M1
Lead	ug/L	189	1000	1010	82	70-130	
Nickel	ug/L	93.4	1000	978	88	70-130	
Selenium	ug/L	ND	1000	1370	136	70-130	M1
Silver	ug/L	ND	500	79.6	14	70-130	M1
Thallium	ug/L	ND	1000	733	73	70-130	
Zinc	ug/L	13500	1000	14500	100	70-130	

MATRIX SPIKE SAMPLE:		1188603					
Parameter	Units	60144498001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	1.9 mg/L	10000	12500	106	70-130	
Antimony	ug/L	0.038 mg/L	1000	1060	103	70-130	
Arsenic	ug/L	0.012 mg/L	1000	1030	102	70-130	
Beryllium	ug/L	ND	1000	965	97	70-130	
Cadmium	ug/L	0.0060 mg/L	1000	1010	100	70-130	
Chromium	ug/L	0.033 mg/L	1000	959	93	70-130	
Cobalt	ug/L	ND	1000	968	96	70-130	
Copper	ug/L	0.31 mg/L	1000	1320	100	70-130	
Iron	ug/L	10.4 mg/L	10000	19500	91	70-130	
Lead	ug/L	0.81 mg/L	1000	1710	91	70-130	
Nickel	ug/L	0.038 mg/L	1000	991	95	70-130	
Selenium	ug/L	ND	1000	1020	102	70-130	
Silver	ug/L	ND	500	502	100	70-130	
Thallium	ug/L	ND	1000	906	91	70-130	
Zinc	ug/L	0.92 mg/L	1000	1840	92	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

QC Batch:	MPRP/22670	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60144495001, 60144495003		

METHOD BLANK: 1186732 Matrix: Water
Associated Lab Samples: 60144495001, 60144495003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	05/15/13 11:33	
Antimony, Dissolved	ug/L	ND	10.0	05/15/13 11:33	
Arsenic, Dissolved	ug/L	ND	10.0	05/15/13 11:33	
Beryllium, Dissolved	ug/L	ND	1.0	05/15/13 11:33	
Cadmium, Dissolved	ug/L	ND	5.0	05/15/13 11:33	
Chromium, Dissolved	ug/L	ND	5.0	05/15/13 11:33	
Cobalt, Dissolved	ug/L	ND	5.0	05/15/13 11:33	
Copper, Dissolved	ug/L	ND	10.0	05/15/13 11:33	
Iron, Dissolved	ug/L	ND	50.0	05/15/13 11:33	
Lead, Dissolved	ug/L	ND	5.0	05/15/13 11:33	
Nickel, Dissolved	ug/L	ND	5.0	05/15/13 11:33	
Selenium, Dissolved	ug/L	ND	15.0	05/15/13 11:33	
Silver, Dissolved	ug/L	ND	7.0	05/15/13 11:33	
Thallium, Dissolved	ug/L	ND	20.0	05/15/13 11:33	
Zinc, Dissolved	ug/L	ND	50.0	05/15/13 11:33	

LABORATORY CONTROL SAMPLE: 1186733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9470	95	85-115	
Antimony, Dissolved	ug/L	1000	924	92	85-115	
Arsenic, Dissolved	ug/L	1000	914	91	85-115	
Beryllium, Dissolved	ug/L	1000	927	93	85-115	
Cadmium, Dissolved	ug/L	1000	927	93	85-115	
Chromium, Dissolved	ug/L	1000	960	96	85-115	
Cobalt, Dissolved	ug/L	1000	948	95	85-115	
Copper, Dissolved	ug/L	1000	891	89	85-115	
Iron, Dissolved	ug/L	10000	9350	94	85-115	
Lead, Dissolved	ug/L	1000	962	96	85-115	
Nickel, Dissolved	ug/L	1000	964	96	85-115	
Selenium, Dissolved	ug/L	1000	914	91	85-115	
Silver, Dissolved	ug/L	500	447	89	85-115	
Thallium, Dissolved	ug/L	1000	960	96	85-115	
Zinc, Dissolved	ug/L	1000	980	98	85-115	

SAMPLE DUPLICATE: 1186734

Parameter	Units	60144432001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum, Dissolved	ug/L	4870	4890	0	20	
Antimony, Dissolved	ug/L	67.3	63.2	6	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

SAMPLE DUPLICATE: 1186734

Parameter	Units	60144432001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic, Dissolved	ug/L	799	809	1	20	
Beryllium, Dissolved	ug/L	ND	ND		20	
Cadmium, Dissolved	ug/L	ND	ND		20	
Chromium, Dissolved	ug/L	251	247	1	20	
Cobalt, Dissolved	ug/L	25.7	25.7	0	20	
Copper, Dissolved	ug/L	ND	ND		20	
Iron, Dissolved	ug/L	636000	640000	1	20	
Lead, Dissolved	ug/L	86.8	85.6	1	20	
Nickel, Dissolved	ug/L	78.2	78.6	0	20	
Selenium, Dissolved	ug/L	ND	ND		20	
Silver, Dissolved	ug/L	ND	10.4J		20	
Thallium, Dissolved	ug/L	ND	ND		20	
Zinc, Dissolved	ug/L	15700	16000	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

QC Batch: MSV/53665 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60144495001, 60144495002, 60144495003, 60144495004

METHOD BLANK: 1187240 Matrix: Water

Associated Lab Samples: 60144495001, 60144495002, 60144495003, 60144495004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/15/13 17:52	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/15/13 17:52	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/15/13 17:52	
1,1-Dichloroethane	ug/L	ND	1.0	05/15/13 17:52	
1,1-Dichloroethene	ug/L	ND	1.0	05/15/13 17:52	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/15/13 17:52	
1,2-Dichloroethane	ug/L	ND	1.0	05/15/13 17:52	
1,2-Dichloropropane	ug/L	ND	1.0	05/15/13 17:52	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/15/13 17:52	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/15/13 17:52	
2-Chloroethylvinyl ether	ug/L	ND	10.0	05/15/13 17:52	
Benzene	ug/L	ND	1.0	05/15/13 17:52	
Bromodichloromethane	ug/L	ND	1.0	05/15/13 17:52	
Bromoform	ug/L	ND	1.0	05/15/13 17:52	
Bromomethane	ug/L	ND	5.0	05/15/13 17:52	
Carbon tetrachloride	ug/L	ND	1.0	05/15/13 17:52	
Chlorobenzene	ug/L	ND	1.0	05/15/13 17:52	
Chloroethane	ug/L	ND	1.0	05/15/13 17:52	
Chloroform	ug/L	ND	1.0	05/15/13 17:52	
Chloromethane	ug/L	ND	1.0	05/15/13 17:52	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/15/13 17:52	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/15/13 17:52	
Dibromochloromethane	ug/L	ND	1.0	05/15/13 17:52	
Ethylbenzene	ug/L	ND	1.0	05/15/13 17:52	
Methylene chloride	ug/L	ND	1.0	05/15/13 17:52	
Tetrachloroethene	ug/L	ND	1.0	05/15/13 17:52	
Toluene	ug/L	ND	1.0	05/15/13 17:52	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/15/13 17:52	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/15/13 17:52	
Trichloroethene	ug/L	ND	1.0	05/15/13 17:52	
Trichlorofluoromethane	ug/L	ND	1.0	05/15/13 17:52	
Vinyl chloride	ug/L	ND	1.0	05/15/13 17:52	
Xylene (Total)	ug/L	ND	3.0	05/15/13 17:52	
1,2-Dichloroethane-d4 (S)	%	98	80-120	05/15/13 17:52	
4-Bromofluorobenzene (S)	%	100	80-120	05/15/13 17:52	
Dibromofluoromethane (S)	%	100	80-120	05/15/13 17:52	
Toluene-d8 (S)	%	100	80-120	05/15/13 17:52	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

LABORATORY CONTROL SAMPLE: 1187241

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.9	105	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	59-138	
1,1,2-Trichloroethane	ug/L	20	19.9	100	69-127	
1,1-Dichloroethane	ug/L	20	18.6	93	69-126	
1,1-Dichloroethene	ug/L	20	19.9	99	65-153	
1,2-Dichlorobenzene	ug/L	20	19.1	96	66-126	
1,2-Dichloroethane	ug/L	20	20.6	103	71-129	
1,2-Dichloropropane	ug/L	20	21.2	106	66-140	
1,3-Dichlorobenzene	ug/L	20	19.2	96	63-127	
1,4-Dichlorobenzene	ug/L	20	19.2	96	68-124	
2-Chloroethylvinyl ether	ug/L	20	18.1	91	33-159	
Benzene	ug/L	20	20.0	100	73-129	
Bromodichloromethane	ug/L	20	20.9	104	63-129	
Bromoform	ug/L	20	19.9	100	52-123	
Bromomethane	ug/L	20	33.9	170	10-160	L0
Carbon tetrachloride	ug/L	20	20.2	101	70-140	
Chlorobenzene	ug/L	20	20.1	100	68-127	
Chloroethane	ug/L	20	20.4	102	42-160	
Chloroform	ug/L	20	20.0	100	60-120	
Chloromethane	ug/L	20	21.5	108	10-160	
cis-1,2-Dichloroethene	ug/L	20	21.0	105	70-125	
cis-1,3-Dichloropropene	ug/L	20	20.8	104	66-132	
Dibromochloromethane	ug/L	20	21.0	105	63-134	
Ethylbenzene	ug/L	20	20.2	101	66-133	
Methylene chloride	ug/L	20	18.4	92	56-135	
Tetrachloroethene	ug/L	20	20.0	100	64-143	
Toluene	ug/L	20	20.4	102	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.3	96	67-149	
trans-1,3-Dichloropropene	ug/L	20	22.6	113	66-138	
Trichloroethene	ug/L	20	19.7	98	71-130	
Trichlorofluoromethane	ug/L	20	16.7	83	58-158	
Vinyl chloride	ug/L	20	17.6	88	41-160	
Xylene (Total)	ug/L	60	60.3	101	67-130	
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			98	80-120	
Dibromofluoromethane (S)	%			97	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1187242

Parameter	Units	60144500001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	20	21.6	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	18.8	94	46-157	
1,1,2-Trichloroethane	ug/L	ND	20	18.5	93	52-150	
1,1-Dichloroethane	ug/L	ND	20	19.3	97	59-155	
1,1-Dichloroethene	ug/L	ND	20	21.4	107	14-160	
1,2-Dichlorobenzene	ug/L	ND	20	17.9	90	18-145	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

MATRIX SPIKE SAMPLE:		1187242						
Parameter	Units	60144500001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,2-Dichloroethane	ug/L	ND	20	19.9	99	49-155		
1,2-Dichloropropane	ug/L	ND	20	20.2	101	12-160		
1,3-Dichlorobenzene	ug/L	ND	20	18.0	90	59-146		
1,4-Dichlorobenzene	ug/L	ND	20	18.0	90	18-147		
2-Chloroethylvinyl ether	ug/L	ND	20	15.1	75	10-160		
Benzene	ug/L	ND	20	20.2	101	37-151		
Bromodichloromethane	ug/L	ND	20	19.9	99	35-155		
Bromoform	ug/L	ND	20	18.4	92	45-133		
Bromomethane	ug/L	ND	20	26.5	132	10-160		
Carbon tetrachloride	ug/L	ND	20	21.8	109	70-140		
Chlorobenzene	ug/L	ND	20	18.7	94	37-153		
Chloroethane	ug/L	ND	20	18.6	93	14-160		
Chloroform	ug/L	ND	20	20.0	96	51-138		
Chloromethane	ug/L	ND	20	21.0	105	10-160		
cis-1,2-Dichloroethene	ug/L	ND	20	20.6	103	19-160		
cis-1,3-Dichloropropene	ug/L	ND	20	19.4	97	10-160		
Dibromochloromethane	ug/L	ND	20	19.4	97	53-149		
Ethylbenzene	ug/L	ND	20	19.5	97	37-154		
Methylene chloride	ug/L	ND	20	18.4	92	15-156		
Tetrachloroethene	ug/L	ND	20	20.0	100	64-148		
Toluene	ug/L	ND	20	20.5	102	47-150		
trans-1,2-Dichloroethene	ug/L	ND	20	20.3	102	54-156		
trans-1,3-Dichloropropene	ug/L	ND	20	21.1	106	17-160		
Trichloroethene	ug/L	ND	20	19.7	98	71-157		
Trichlorofluoromethane	ug/L	ND	20	18.6	93	17-160		
Vinyl chloride	ug/L	ND	20	18.4	92	10-160		
Xylene (Total)	ug/L			58.3				
1,2-Dichloroethane-d4 (S)	%				101	80-120		
4-Bromofluorobenzene (S)	%				100	80-120		
Dibromofluoromethane (S)	%				98	80-120		
Toluene-d8 (S)	%				100	80-120		
Preservation pH		7.0		7.0				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

QC Batch: OEXT/38353 Analysis Method: EPA 625

QC Batch Method: EPA 625 Analysis Description: 625 MSS

Associated Lab Samples: 60144495001, 60144495003

METHOD BLANK: 1186511 Matrix: Water

Associated Lab Samples: 60144495001, 60144495003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/16/13 14:48	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/16/13 14:48	
2,4-Dichlorophenol	ug/L	ND	5.0	05/16/13 14:48	
2,4-Dimethylphenol	ug/L	ND	5.0	05/16/13 14:48	
2,4-Dinitrophenol	ug/L	ND	50.0	05/16/13 14:48	
2,4-Dinitrotoluene	ug/L	ND	6.0	05/16/13 14:48	
2,6-Dinitrotoluene	ug/L	ND	5.0	05/16/13 14:48	
2-Chloronaphthalene	ug/L	ND	5.0	05/16/13 14:48	
2-Chlorophenol	ug/L	ND	5.0	05/16/13 14:48	
2-Nitrophenol	ug/L	ND	5.0	05/16/13 14:48	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	05/16/13 14:48	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/16/13 14:48	
4-Bromophenylphenyl ether	ug/L	ND	5.0	05/16/13 14:48	
4-Chloro-3-methylphenol	ug/L	ND	5.0	05/16/13 14:48	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	05/16/13 14:48	
4-Nitrophenol	ug/L	ND	5.0	05/16/13 14:48	
Acenaphthene	ug/L	ND	5.0	05/16/13 14:48	
Acenaphthylene	ug/L	ND	5.0	05/16/13 14:48	
Anthracene	ug/L	ND	5.0	05/16/13 14:48	
Benzidine	ug/L	ND	50.0	05/16/13 14:48	
Benzo(a)anthracene	ug/L	ND	5.0	05/16/13 14:48	
Benzo(a)pyrene	ug/L	ND	5.0	05/16/13 14:48	
Benzo(b)fluoranthene	ug/L	ND	5.0	05/16/13 14:48	
Benzo(g,h,i)perylene	ug/L	ND	5.0	05/16/13 14:48	
Benzo(k)fluoranthene	ug/L	ND	5.0	05/16/13 14:48	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	05/16/13 14:48	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	05/16/13 14:48	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	05/16/13 14:48	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	05/16/13 14:48	
Butylbenzylphthalate	ug/L	ND	5.0	05/16/13 14:48	
Chrysene	ug/L	ND	5.0	05/16/13 14:48	
Di-n-butylphthalate	ug/L	ND	5.0	05/16/13 14:48	
Di-n-octylphthalate	ug/L	ND	5.0	05/16/13 14:48	
Dibenz(a,h)anthracene	ug/L	ND	5.0	05/16/13 14:48	
Diethylphthalate	ug/L	ND	5.0	05/16/13 14:48	
Dimethylphthalate	ug/L	ND	5.0	05/16/13 14:48	
Fluoranthene	ug/L	ND	5.0	05/16/13 14:48	
Fluorene	ug/L	ND	5.0	05/16/13 14:48	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/16/13 14:48	
Hexachlorobenzene	ug/L	ND	5.0	05/16/13 14:48	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/16/13 14:48	
Hexachloroethane	ug/L	ND	5.0	05/16/13 14:48	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	05/16/13 14:48	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 112/114 MSD

Project No.: 60144495

METHOD BLANK: 1186511

Matrix: Water

Associated Lab Samples: 60144495001, 60144495003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	05/16/13 14:48	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	05/16/13 14:48	
N-Nitrosodimethylamine	ug/L	ND	5.0	05/16/13 14:48	
N-Nitrosodiphenylamine	ug/L	ND	5.0	05/16/13 14:48	
Naphthalene	ug/L	ND	5.0	05/16/13 14:48	
Nitrobenzene	ug/L	ND	5.0	05/16/13 14:48	
Pentachlorophenol	ug/L	ND	5.0	05/16/13 14:48	
Phenanthrene	ug/L	ND	5.0	05/16/13 14:48	
Phenol	ug/L	ND	5.0	05/16/13 14:48	
Pyrene	ug/L	ND	5.0	05/16/13 14:48	
2,4,6-Tribromophenol (S)	%	66	39-119	05/16/13 14:48	
2-Fluorobiphenyl (S)	%	64	36-120	05/16/13 14:48	
2-Fluorophenol (S)	%	39	18-120	05/16/13 14:48	
Nitrobenzene-d5 (S)	%	61	32-120	05/16/13 14:48	
Phenol-d6 (S)	%	25	12-120	05/16/13 14:48	
Terphenyl-d14 (S)	%	74	44-120	05/16/13 14:48	

LABORATORY CONTROL SAMPLE: 1186512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	32.5	65	44-120	
2,4,6-Trichlorophenol	ug/L	50	36.3	73	48-120	
2,4-Dichlorophenol	ug/L	50	34.7	69	48-120	
2,4-Dimethylphenol	ug/L	50	32.1	64	37-119	
2,4-Dinitrophenol	ug/L	50	34.4J	69	15-153	
2,4-Dinitrotoluene	ug/L	50	39.1	78	54-120	
2,6-Dinitrotoluene	ug/L	50	37.5	75	52-120	
2-Chloronaphthalene	ug/L	50	34.2	68	60-118	
2-Chlorophenol	ug/L	50	33.3	67	44-120	
2-Nitrophenol	ug/L	50	38.5	77	43-120	
3,3'-Dichlorobenzidine	ug/L	50	73.1	146	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	39.9	80	31-147	
4-Bromophenylphenyl ether	ug/L	50	36.2	72	53-120	
4-Chloro-3-methylphenol	ug/L	50	35.3	71	50-120	
4-Chlorophenylphenyl ether	ug/L	50	35.9	72	54-120	
4-Nitrophenol	ug/L	50	15.2	30	10-120	
Acenaphthene	ug/L	50	34.9	70	51-120	
Acenaphthylene	ug/L	50	34.7	69	51-120	
Anthracene	ug/L	50	37.2	74	54-120	
Benzidine	ug/L	50	42.2J	84	1-124	
Benzo(a)anthracene	ug/L	50	39.0	78	54-120	
Benzo(a)pyrene	ug/L	50	38.4	77	54-120	
Benzo(b)fluoranthene	ug/L	50	40.4	81	57-120	
Benzo(g,h,i)perylene	ug/L	50	37.6	75	54-120	
Benzo(k)fluoranthene	ug/L	50	36.5	73	52-121	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

LABORATORY CONTROL SAMPLE: 1186512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	50	34.3	69	51-120	
bis(2-Chloroethyl) ether	ug/L	50	33.1	66	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	34.4	69	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	42.6	85	51-126	
Butylbenzylphthalate	ug/L	50	42.3	85	45-129	
Chrysene	ug/L	50	38.2	76	54-120	
Di-n-butylphthalate	ug/L	50	40.5	81	57-118	
Di-n-octylphthalate	ug/L	50	42.1	84	48-130	
Dibenz(a,h)anthracene	ug/L	50	37.8	76	56-119	
Diethylphthalate	ug/L	50	36.7	73	55-114	
Dimethylphthalate	ug/L	50	36.4	73	54-112	
Fluoranthene	ug/L	50	38.7	77	56-120	
Fluorene	ug/L	50	35.6	71	59-120	
Hexachloro-1,3-butadiene	ug/L	50	31.8	64	41-116	
Hexachlorobenzene	ug/L	50	36.0	72	53-120	
Hexachlorocyclopentadiene	ug/L	100	55.4	55	31-120	
Hexachloroethane	ug/L	50	31.9	64	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	38.0	76	55-120	
Isophorone	ug/L	50	34.9	70	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	34.9	70	47-120	
N-Nitrosodimethylamine	ug/L	50	23.1	46	28-120	
N-Nitrosodiphenylamine	ug/L	50	36.2	72	53-120	
Naphthalene	ug/L	50	33.7	67	48-120	
Nitrobenzene	ug/L	50	34.4	69	47-120	
Pentachlorophenol	ug/L	50	40.1	80	43-127	
Phenanthrene	ug/L	50	36.4	73	55-120	
Phenol	ug/L	50	14.3	29	15-112	
Pyrene	ug/L	50	38.6	77	55-115	
2,4,6-Tribromophenol (S)	%			82	39-119	
2-Fluorobiphenyl (S)	%			70	36-120	
2-Fluorophenol (S)	%			43	18-120	
Nitrobenzene-d5 (S)	%			67	32-120	
Phenol-d6 (S)	%			28	12-120	
Terphenyl-d14 (S)	%			77	44-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

QC Batch: WET/41302 Analysis Method: EPA 1664A
 QC Batch Method: EPA 1664A Analysis Description: 1664 HEM, Oil and Grease
 Associated Lab Samples: 60144495001, 60144495003

METHOD BLANK: 1187961 Matrix: Water

Associated Lab Samples: 60144495001, 60144495003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	05/16/13 08:46	

LABORATORY CONTROL SAMPLE: 1187962

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	39.3	98	78-114	

MATRIX SPIKE SAMPLE: 1187967

Parameter	Units	60144392003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	41.2	41.0	97	78-114	

SAMPLE DUPLICATE: 1187977

Parameter	Units	60144428002 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 112/114 MSD

Pace Project No.: 60144495

QC Batch: WET/41274

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60144495001, 60144495003

METHOD BLANK: 1187143

Matrix: Water

Associated Lab Samples: 60144495001, 60144495003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/15/13 09:08	

SAMPLE DUPLICATE: 1187144

Parameter	Units	60144432001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	1080	1080	0	25	

SAMPLE DUPLICATE: 1187145

Parameter	Units	60144427002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	400	400	0	25	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

QC Batch: WET/41261 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60144495001, 60144495003

SAMPLE DUPLICATE: 1186849

Parameter	Units	60143800001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.1	8.1	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 112/114 MSD
Pace Project No.: 60144495

QC Batch: WETA/24705 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60144495001, 60144495003

METHOD BLANK: 1187872 Matrix: Water

Associated Lab Samples: 60144495001, 60144495003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/16/13 15:09	

LABORATORY CONTROL SAMPLE: 1187873

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

MATRIX SPIKE SAMPLE: 1187874

Parameter	Units	60144179001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.48	2	2.3	90	90-110	

MATRIX SPIKE SAMPLE: 1187875

Parameter	Units	60144181001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1.9	2	3.5	82	90-110	M1

SAMPLE DUPLICATE: 1187876

Parameter	Units	60144187001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

QC Batch: WETA/24697 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60144495001, 60144495003

METHOD BLANK: 1187823 Matrix: Water

Associated Lab Samples: 60144495001, 60144495003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/17/13 12:29	

LABORATORY CONTROL SAMPLE: 1187824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	51.3	103	90-110	

MATRIX SPIKE SAMPLE: 1187825

Parameter	Units	60144432001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	60800	25000	84200	93	90-110	

MATRIX SPIKE SAMPLE: 1187827

Parameter	Units	60144495001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	1850	2500	4310	98	90-110	

SAMPLE DUPLICATE: 1187826

Parameter	Units	60144432003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	40700	40100	2	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144495

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/38353

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

ANALYTE QUALIFIERS

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

D9 Dissolved result is greater than the total. Data is within laboratory control limits.

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

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

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 112/114 MSD

Pace Project No.: 60144495

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60144495001	112-MSD	EPA 200.7	MPRP/22702	EPA 200.7	ICP/17986
60144495003	114-MSD	EPA 200.7	MPRP/22702	EPA 200.7	ICP/17986
60144495001	112-MSD	EPA 200.7	MPRP/22670	EPA 200.7	ICP/17962
60144495003	114-MSD	EPA 200.7	MPRP/22670	EPA 200.7	ICP/17962
60144495001	112-MSD	EPA 245.1	MERP/7351	EPA 245.1	MERC/7309
60144495003	114-MSD	EPA 245.1	MERP/7351	EPA 245.1	MERC/7309
60144495001	112-MSD	EPA 245.1	MERP/7344	EPA 245.1	MERC/7302
60144495003	114-MSD	EPA 245.1	MERP/7344	EPA 245.1	MERC/7302
60144495001	112-MSD	EPA 625	OEXT/38353	EPA 625	MSSV/12128
60144495003	114-MSD	EPA 625	OEXT/38353	EPA 625	MSSV/12128
60144495001	112-MSD	EPA 624 Low	MSV/53665		
60144495002	TRIP BLANK	EPA 624 Low	MSV/53665		
60144495003	114-MSD	EPA 624 Low	MSV/53665		
60144495004	TRIP BLANK	EPA 624 Low	MSV/53665		
60144495001	112-MSD	EPA 1664A	WET/41302		
60144495003	114-MSD	EPA 1664A	WET/41302		
60144495001	112-MSD	SM 2540D	WET/41274		
60144495003	114-MSD	SM 2540D	WET/41274		
60144495001	112-MSD	SM 4500-H+B	WET/41261		
60144495003	114-MSD	SM 4500-H+B	WET/41261		
60144495001	112-MSD	EPA 350.1	WETA/24705		
60144495003	114-MSD	EPA 350.1	WETA/24705		
60144495001	112-MSD	EPA 410.4	WETA/24697		
60144495003	114-MSD	EPA 410.4	WETA/24697		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60144495



Client Name: Barr

Courier: Fed Ex UPS USPS Client Commercial Pace

Tracking #: _____ Pace Shipping Label Used?

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

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. (circle one)

Cooler Temperature: 1.4
Temperature should be above freezing to 6°C

Date and initials of person examining contents: hw 5/3/13

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>bar</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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix:	<u>wr</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Nitric initial pH ~7.0; added 2.5 mL HNO3; pH ~4.0 H2SO4 initial pH ~7.0; added 2.0 mL H2SO4; pH ~3.0
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
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>hw</u> Lot # of added preservative <u>13094</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Pace Trip Blank lot # (if purchased): <u>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: 5/1/13

May 20, 2013

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

RE: Project: BRIDGETON LF 112/114 MSD
Pace Project No.: 60144497

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 13, 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 112/114 MSD

Pace Project No.: 60144497

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

A2LA Certification #: 2456.01

Arkansas Certification #: 12-019-0

Illinois Certification #: 002885

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407-12-3

Utah Certification #: KS000212012-2

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144497

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60144497001	112-MSD	Water	05/12/13 12:49	05/13/13 13:40
60144497002	114-MSD	Water	05/12/13 17:31	05/13/13 13:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144497

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60144497001	112-MSD	SM 5210B	NDL	1
60144497002	114-MSD	SM 5210B	NDL	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144497

Sample: 112-MSD	Lab ID: 60144497001	Collected: 05/12/13 12:49	Received: 05/13/13 13:40	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	25500	mg/L	2.0	1	05/13/13 17:02	05/18/13 09:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144497

Sample: 114-MSD	Lab ID: 60144497002	Collected: 05/12/13 17:31	Received: 05/13/13 13:40	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	34000	mg/L	2.0	1	05/13/13 17:06	05/18/13 09:23		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144497

QC Batch: WET/41249

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60144497001, 60144497002

METHOD BLANK: 1186433

Matrix: Water

Associated Lab Samples: 60144497001, 60144497002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/18/13 09:18	

LABORATORY CONTROL SAMPLE: 1186434

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	187	94	85-115	

SAMPLE DUPLICATE: 1186435

Parameter	Units	60144497001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	25500	29400	14	17	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 112/114 MSD

Pace Project No.: 60144497

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 112/114 MSD

Pace Project No.: 60144497

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60144497001	112-MSD	SM 5210B	WET/41249	SM 5210B	WET/41363
60144497002	114-MSD	SM 5210B	WET/41249	SM 5210B	WET/41363

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60144497



Client Name: Barr

Courier: Fed Ex UPS USPS Client Commercial Pace C

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

Cooler Temperature: 1.4

Date and initials of person examining contents: W 5/3/13

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>Barr</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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix:	<u>W</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Nitric initial pH ~7.0; added 2.5 mL HNO3; pH ~4.0 H2SO4 initial pH ~7.0; added 2.0 mL H2SO4; pH ~2.0
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>W</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative <u>13094</u>
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: 5/1/13



Sample Condition Upon Receipt

Client Name: Barr

Courier: Fed Ex UPS USPS Client Commercial Pace Other Kroads

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

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

Cooler Temperature: 7.0

Date and initials of person examining contents: hw 5/13/13

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>600</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>wf</u>		13.	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Nitric initial pH ~7.0; added 2.5 mL HNO3; pH ~4.0 H2SO4 initial pH ~7.0; added 2.0 mL H2SO4; pH ~2.0	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		14.
Exceptions: VOA, coliform, TOC, <u>D&G</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>hw</u>	Lot # of added preservative <u>13094</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank lot # (if purchased): <u>covered</u>		15.	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	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: _____



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		Report To: ED GALBRAITH		Attention:	
Address:		Copy To:		Company Name: REPUBLIC SERVICES	
Email To:		Purchase Order No.:		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	
Phone:	Fax:	Project Name: BRIDGETON LANDFILL		Pace Quote Reference: 130426_7588	Site Location <u>MO</u> STATE: <u>MO</u>
Requested Due Date/TAT:		Project Number:		Pace Project Manager: Angie Brown 913-563-1402	
				Pace Profile #: 6787 line 2	

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Tests Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	<u>001 44495/497</u> 3/13/13 2/13/13 5/13/13 5/11/13 Pace Project No./ Lab I.D.		
		MATRIX	CODE			COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol					Other	
		DRINKING WATER	DW			DATE	TIME	DATE	TIME															
		WATER	WT																					
1	112-MSD			OT	G				5/12/13	1249	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			*Metals list: 001
2	TRIP BLANK										2	✓												002
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>[Signature]</i>	5/13/13	0936	DON ROY	5/17/13	0936			
SITE ADDRESS: BRIDGETON LF					5/13/17	1340	Y	Y	Y
13570 ST. CHARLES ROCK RD									
BRIDGETON MO 63044									

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:		<i>[Signature]</i>				
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YYYY):	5/12/13				

Page 12 of 13

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:			
Company: BARR ENGINEERING		Report To: ED GALBRAITH		Attention:			
Address:		Copy To:		Company Name: REPUBLIC SERVICES		REGULATORY AGENCY	
				Address:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
Email To:		Purchase Order No.:		Pace Quote Reference: 130426_7588		Site Location	
Phone: Fax:		Project Name: BRIDGETON LANDFILL		Pace Project Manager: Angie Brown 913-563-1402		MO	
Requested Due Date/TAT:		Project Number:		Pace Profile #: 6787 line 2		STATE: _____	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMIP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)											Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.							
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	Preservatives												Analysis Test ↓						
					DATE	TIME	DATE	TIME				H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	BOD SM 5210B	COD 410	pH SM 4500H+B				LF Dis. Metals 200.7/245 Z	total Metals 200.7/245*	Ammonia EPA 350	Oil/Grease EPA 1664	625 SVOCs	624 VOCs
1	114-MSD		OT	G			5/12/13	1731	14	✓	✓	✓																		*Metals list: 003
2	TRIP BLANK								2	✓																			2(0624) Al,Sb,As,Be,Cd,Cr 004 Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn and Mercury	
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
SITE CONTACT: BILL ABERNATHY 314-502-1299	<i>William Abernathy</i>	5/13/13	0934	Don 305	5-13-13	0930	
SITE ADDRESS: BRIDGETON LF					5/13/13	1340	2.0 Y Y Y
13570 ST. CHARLES ROCK RD							
BRIDGETON MO 63044							

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>William Abernathy</i>				
SIGNATURE of SAMPLER:	<i>William Abernathy</i>	DATE Signed (MM/DD/YY):	5/12/13		

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

May 22, 2013

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

RE: Project: BRIDGETON LF 117/119-MSD
Pace Project No.: 60144701

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 16, 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 117/119-MSD

Pace Project No.: 60144701

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 117/119-MSD

Pace Project No.: 60144701

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60144701001	119-MSD	Water	05/14/13 18:04	05/16/13 03:15
60144701002	117-MSD	Water	05/14/13 06:47	05/16/13 03:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144701

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60144701001	119-MSD	SM 5210B	NDL	1
60144701002	117-MSD	SM 5210B	NDL	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144701

Sample: 119-MSD	Lab ID: 60144701001	Collected: 05/14/13 18:04	Received: 05/16/13 03:15	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	35700	mg/L	2.0	1	05/16/13 12:10	05/21/13 11:57		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144701

Sample: 117-MSD **Lab ID: 60144701002** Collected: 05/14/13 06:47 Received: 05/16/13 03:15 Matrix: Water

Comments: • The sample volume for the analyses of BOD SM 5210B was received outside of the method hold time of 48 hours.

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	29000	mg/L	2.0	1	05/16/13 10:08	05/21/13 09:14		H3

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144701

QC Batch: WET/41301

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60144701002

METHOD BLANK: 1187925

Matrix: Water

Associated Lab Samples: 60144701002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/21/13 09:07	

LABORATORY CONTROL SAMPLE: 1187926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	207	104	85-115	

SAMPLE DUPLICATE: 1187927

Parameter	Units	60144635001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	ND		17	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144701

QC Batch:	WET/41303	Analysis Method:	SM 5210B
QC Batch Method:	SM 5210B	Analysis Description:	5210B BOD, 5 day
Associated Lab Samples:	60144701001		

METHOD BLANK: 1188143 Matrix: Water

Associated Lab Samples: 60144701001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/21/13 11:39	

LABORATORY CONTROL SAMPLE: 1188144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	217	110	85-115	

SAMPLE DUPLICATE: 1188145

Parameter	Units	60144700003 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	115	115	0	17	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144701

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144701

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60144701001	119-MSD	SM 5210B	WET/41303	SM 5210B	WET/41395
60144701002	117-MSD	SM 5210B	WET/41301	SM 5210B	WET/41389

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60144701

60144701

Client Name: BARR

Courier: Fed Ex UPS USPS Client Commercial Pace Other VIA

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

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

Cooler Temperature: 1.8 / 0.6

Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: 5/16/13

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>Bar</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>W T</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: 117-MSD RECEIVED OUT OF HOUR; PROCEED

Project Manager Review: [Signature] Date: 5/16/13

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: BARR ENGINEERING		Report To: ED GALBRAITH		Attention:	
Address:		Copy To: SCOTT C. FEDAK		Company Name: REPUBLIC SERVICES	
Email To:		Purchase Order No.:		Address:	
Phone: Fax:		Project Name: BRIDGETON LANDFILL		Pace Quote Reference: 130426_7588	
Requested Due Date/TAT:		Project Number:		Pace Project Manager: Angie Brown 913-563-1402	
				Pace Profile #: 6787 line 2	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER _____

Site Location

STATE: MO

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ Analysis Test ↓ BOD SM 5210B	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.					
		MATRIX	CODE			COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	Y			N				
		DRINKING WATER	DW			DATE	TIME	DATE	TIME																			
1	119-MSD			OT	G			5/14/13	1804		1	✓																
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	<i>William Abernathy</i>	5/15/13	1410	<i>GH 554</i>	5/15	210				
SITE ADDRESS: BRIDGETON LF				<i>PASS</i>	5/16/13	0315	0.6	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>WILLIAM ABERNATHY</i>					
SIGNATURE of SAMPLER: <i>William Abernathy</i> DATE Signed (MM/DD/YY): <i>5/14/13</i>					

May 23, 2013

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

RE: Project: BRIDGETON LF 117/119-MSD
Pace Project No.: 60144732

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 16, 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 117/119-MSD

Pace Project No.: 60144732

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 117/119-MSD

Pace Project No.: 60144732

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60144732001	117-MSD	Water	05/14/13 06:47	05/16/13 03:15
60144732002	TRIP BLANK	Water	05/14/13 00:00	05/16/13 03:15
60144732003	119-MSD	Water	05/14/13 18:04	05/16/13 03:15
60144732004	TRIP BLANK	Water	05/14/13 00:00	05/16/13 03:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60144732001	117-MSD	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	PRG	38
		EPA 1664A	JMC1	1
		SM 2540D	RAS	1
		SM 4500-H+B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
60144732002	TRIP BLANK	EPA 624 Low	PRG	38
60144732003	119-MSD	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	PRG	38
		EPA 1664A	JMC1	1
		SM 2540D	RAS	1
		SM 4500-H+B	NDL	1
		EPA 350.1	AJM	1
EPA 410.4	DJR	1		
60144732004	TRIP BLANK	EPA 624 Low	PRG	38

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

Sample: 117-MSD		Lab ID: 60144732001	Collected: 05/14/13 06:47	Received: 05/16/13 03:15	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	5640 ug/L		150	2	05/20/13 17:20	05/21/13 13:02	7429-90-5	
Antimony	27.2 ug/L		20.0	2	05/20/13 17:20	05/21/13 13:02	7440-36-0	D6
Arsenic	610 ug/L		20.0	2	05/20/13 17:20	05/21/13 13:02	7440-38-2	
Beryllium	ND ug/L		2.0	2	05/20/13 17:20	05/21/13 13:02	7440-41-7	D3
Cadmium	ND ug/L		10.0	2	05/20/13 17:20	05/21/13 13:02	7440-43-9	D3
Chromium	212 ug/L		15.0	3	05/20/13 17:20	05/21/13 14:19	7440-47-3	
Cobalt	36.3 ug/L		10.0	2	05/20/13 17:20	05/21/13 13:02	7440-48-4	
Copper	ND ug/L		20.0	2	05/20/13 17:20	05/21/13 13:02	7440-50-8	D3
Iron	740000 ug/L		100	2	05/20/13 17:20	05/21/13 13:02	7439-89-6	
Lead	172 ug/L		10.0	2	05/20/13 17:20	05/21/13 13:02	7439-92-1	
Nickel	95.9 ug/L		10.0	2	05/20/13 17:20	05/21/13 13:02	7440-02-0	
Selenium	ND ug/L		45.0	3	05/20/13 17:20	05/21/13 14:19	7782-49-2	D3
Silver	ND ug/L		14.0	2	05/20/13 17:20	05/21/13 13:02	7440-22-4	D3
Thallium	ND ug/L		60.0	3	05/20/13 17:20	05/21/13 14:19	7440-28-0	D3
Zinc	14000 ug/L		100	2	05/20/13 17:20	05/21/13 13:02	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	4850 ug/L		150	2	05/21/13 18:25	05/23/13 12:15	7429-90-5	
Antimony, Dissolved	36.9 ug/L		20.0	2	05/21/13 18:25	05/23/13 12:15	7440-36-0	
Arsenic, Dissolved	704 ug/L		20.0	2	05/21/13 18:25	05/23/13 12:15	7440-38-2	D9
Beryllium, Dissolved	ND ug/L		2.0	2	05/21/13 18:25	05/23/13 12:15	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		10.0	2	05/21/13 18:25	05/23/13 12:15	7440-43-9	D3
Chromium, Dissolved	230 ug/L		15.0	3	05/21/13 18:25	05/23/13 12:40	7440-47-3	D9
Cobalt, Dissolved	39.0 ug/L		10.0	2	05/21/13 18:25	05/23/13 12:15	7440-48-4	D9
Copper, Dissolved	ND ug/L		20.0	2	05/21/13 18:25	05/23/13 12:15	7440-50-8	D3
Iron, Dissolved	686000 ug/L		100	2	05/21/13 18:25	05/23/13 12:15	7439-89-6	
Lead, Dissolved	104 ug/L		10.0	2	05/21/13 18:25	05/23/13 12:15	7439-92-1	
Nickel, Dissolved	112 ug/L		10.0	2	05/21/13 18:25	05/23/13 12:15	7440-02-0	D9
Selenium, Dissolved	81.7 ug/L		45.0	3	05/21/13 18:25	05/23/13 12:40	7782-49-2	D9
Silver, Dissolved	ND ug/L		14.0	2	05/21/13 18:25	05/23/13 12:15	7440-22-4	D3
Thallium, Dissolved	ND ug/L		60.0	3	05/21/13 18:25	05/23/13 12:40	7440-28-0	D3
Zinc, Dissolved	16200 ug/L		100	2	05/21/13 18:25	05/23/13 12:15	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	3.6 ug/L		0.20	1	05/20/13 13:30	05/20/13 15:41	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	05/21/13 11:40	05/21/13 14:44	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	83-32-9	
Acenaphthylene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	208-96-8	
Anthracene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	120-12-7	
Benzidine	ND ug/L		25000	50	05/21/13 00:00	05/22/13 10:23	92-87-5	
Benzo(a)anthracene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	56-55-3	
Benzo(a)pyrene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

Sample: 117-MSD	Lab ID: 60144732001	Collected: 05/14/13 06:47	Received: 05/16/13 03:15	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		2500	50	05/21/13 00:00	05/22/13 10:23	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	191-24-2	
Benzo(k)fluoranthene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	207-08-9	
4-Bromophenylphenyl ether	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	101-55-3	
Butylbenzylphthalate	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	85-68-7	
4-Chloro-3-methylphenol	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	59-50-7	
bis(2-Chloroethoxy)methane	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		3000	50	05/21/13 00:00	05/22/13 10:23	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		3000	50	05/21/13 00:00	05/22/13 10:23	39638-32-9	
2-Chloronaphthalene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	91-58-7	
2-Chlorophenol	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	7005-72-3	
Chrysene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	53-70-3	
3,3'-Dichlorobenzidine	ND ug/L		10000	50	05/21/13 00:00	05/22/13 10:23	91-94-1	
2,4-Dichlorophenol	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	120-83-2	
Diethylphthalate	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	84-66-2	
2,4-Dimethylphenol	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	105-67-9	
Dimethylphthalate	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	131-11-3	
Di-n-butylphthalate	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		12500	50	05/21/13 00:00	05/22/13 10:23	534-52-1	
2,4-Dinitrophenol	ND ug/L		25000	50	05/21/13 00:00	05/22/13 10:23	51-28-5	
2,4-Dinitrotoluene	ND ug/L		3000	50	05/21/13 00:00	05/22/13 10:23	121-14-2	
2,6-Dinitrotoluene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	606-20-2	
Di-n-octylphthalate	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	117-81-7	
Fluoranthene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	206-44-0	
Fluorene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	87-68-3	
Hexachlorobenzene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	77-47-4	
Hexachloroethane	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	193-39-5	
Isophorone	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	78-59-1	
Naphthalene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	91-20-3	
Nitrobenzene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	98-95-3	
2-Nitrophenol	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	88-75-5	
4-Nitrophenol	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	100-02-7	
N-Nitrosodimethylamine	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	86-30-6	
Pentachlorophenol	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	87-86-5	
Phenanthrene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	85-01-8	
Phenol	22700 ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	108-95-2	
Pyrene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		2500	50	05/21/13 00:00	05/22/13 10:23	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

Sample: 117-MSD	Lab ID: 60144732001	Collected: 05/14/13 06:47	Received: 05/16/13 03:15	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	50	05/21/13 00:00	05/22/13 10:23	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	50	05/21/13 00:00	05/22/13 10:23	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	50	05/21/13 00:00	05/22/13 10:23	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	50	05/21/13 00:00	05/22/13 10:23	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	50	05/21/13 00:00	05/22/13 10:23	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	50	05/21/13 00:00	05/22/13 10:23	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		05/20/13 13:20	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/20/13 13:20	75-27-4	
Bromoform	ND ug/L		200	200		05/20/13 13:20	75-25-2	
Bromomethane	ND ug/L		1000	200		05/20/13 13:20	74-83-9	L3
Carbon tetrachloride	ND ug/L		200	200		05/20/13 13:20	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/20/13 13:20	108-90-7	
Chloroethane	ND ug/L		200	200		05/20/13 13:20	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/20/13 13:20	110-75-8	
Chloroform	ND ug/L		200	200		05/20/13 13:20	67-66-3	
Chloromethane	ND ug/L		200	200		05/20/13 13:20	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/20/13 13:20	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/20/13 13:20	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/20/13 13:20	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/20/13 13:20	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/20/13 13:20	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/20/13 13:20	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/20/13 13:20	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/20/13 13:20	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/20/13 13:20	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/20/13 13:20	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/20/13 13:20	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/20/13 13:20	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/20/13 13:20	100-41-4	
Methylene chloride	ND ug/L		200	200		05/20/13 13:20	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/20/13 13:20	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/20/13 13:20	127-18-4	
Toluene	ND ug/L		200	200		05/20/13 13:20	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/20/13 13:20	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/20/13 13:20	79-00-5	
Trichloroethene	ND ug/L		200	200		05/20/13 13:20	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/20/13 13:20	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/20/13 13:20	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/20/13 13:20	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	104 %		80-120	200		05/20/13 13:20	1868-53-7	D3
4-Bromofluorobenzene (S)	106 %		80-120	200		05/20/13 13:20	460-00-4	
Toluene-d8 (S)	100 %		80-120	200		05/20/13 13:20	2037-26-5	
1,2-Dichloroethane-d4 (S)	101 %		80-120	200		05/20/13 13:20	17060-07-0	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

Sample: 117-MSD		Lab ID: 60144732001	Collected: 05/14/13 06:47	Received: 05/16/13 03:15	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		05/20/13 13:20		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	182	mg/L	5.0	1		05/17/13 14:00		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	1610	mg/L	5.0	1		05/17/13 08:59		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.4	Std. Units	0.10	1		05/16/13 16:00		H6
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	678	mg/L	20.0	1		05/17/13 13:51	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	45200	mg/L	5000	500		05/21/13 13:03		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

Sample: TRIP BLANK		Lab ID: 60144732002	Collected: 05/14/13 00:00	Received: 05/16/13 03:15	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		05/20/13 10:25	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		05/20/13 10:25	75-27-4	
Bromoform	ND ug/L		1.0	1		05/20/13 10:25	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/20/13 10:25	74-83-9	L3
Carbon tetrachloride	ND ug/L		1.0	1		05/20/13 10:25	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/20/13 10:25	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/20/13 10:25	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		05/20/13 10:25	110-75-8	
Chloroform	ND ug/L		1.0	1		05/20/13 10:25	67-66-3	
Chloromethane	ND ug/L		1.0	1		05/20/13 10:25	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		05/20/13 10:25	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/20/13 10:25	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/20/13 10:25	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/20/13 10:25	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		05/20/13 10:25	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/20/13 10:25	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/20/13 10:25	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/20/13 10:25	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/20/13 10:25	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		05/20/13 10:25	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		05/20/13 10:25	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		05/20/13 10:25	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		05/20/13 10:25	100-41-4	
Methylene chloride	1.0 ug/L		1.0	1		05/20/13 10:25	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/20/13 10:25	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/20/13 10:25	127-18-4	
Toluene	ND ug/L		1.0	1		05/20/13 10:25	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/20/13 10:25	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/20/13 10:25	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/20/13 10:25	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/20/13 10:25	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		05/20/13 10:25	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/20/13 10:25	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101 %		80-120	1		05/20/13 10:25	1868-53-7	
4-Bromofluorobenzene (S)	101 %		80-120	1		05/20/13 10:25	460-00-4	
Toluene-d8 (S)	100 %		80-120	1		05/20/13 10:25	2037-26-5	
1,2-Dichloroethane-d4 (S)	96 %		80-120	1		05/20/13 10:25	17060-07-0	
Preservation pH	7.0		1.0	1		05/20/13 10:25		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

Sample: 119-MSD		Lab ID: 60144732003	Collected: 05/14/13 18:04	Received: 05/16/13 03:15	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	7490 ug/L		150	2	05/20/13 17:20	05/21/13 13:07	7429-90-5	
Antimony	ND	ug/L	20.0	2	05/20/13 17:20	05/21/13 13:07	7440-36-0	D3
Arsenic	549	ug/L	20.0	2	05/20/13 17:20	05/21/13 13:07	7440-38-2	
Beryllium	ND	ug/L	2.0	2	05/20/13 17:20	05/21/13 13:07	7440-41-7	D3
Cadmium	ND	ug/L	10.0	2	05/20/13 17:20	05/21/13 13:07	7440-43-9	D3
Chromium	204	ug/L	10.0	2	05/20/13 17:20	05/21/13 13:07	7440-47-3	
Cobalt	38.2	ug/L	10.0	2	05/20/13 17:20	05/21/13 13:07	7440-48-4	
Copper	31.9	ug/L	20.0	2	05/20/13 17:20	05/21/13 13:07	7440-50-8	
Iron	705000	ug/L	100	2	05/20/13 17:20	05/21/13 13:07	7439-89-6	
Lead	165	ug/L	10.0	2	05/20/13 17:20	05/21/13 13:07	7439-92-1	
Nickel	103	ug/L	10.0	2	05/20/13 17:20	05/21/13 13:07	7440-02-0	
Selenium	ND	ug/L	30.0	2	05/20/13 17:20	05/21/13 13:07	7782-49-2	D3
Silver	ND	ug/L	14.0	2	05/20/13 17:20	05/21/13 13:07	7440-22-4	
Thallium	ND	ug/L	40.0	2	05/20/13 17:20	05/21/13 13:07	7440-28-0	D3
Zinc	13000	ug/L	100	2	05/20/13 17:20	05/21/13 13:07	7440-66-6	D3
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	4210	ug/L	150	2	05/21/13 18:25	05/23/13 12:17	7429-90-5	
Antimony, Dissolved	26.4	ug/L	20.0	2	05/21/13 18:25	05/23/13 12:17	7440-36-0	
Arsenic, Dissolved	585	ug/L	20.0	2	05/21/13 18:25	05/23/13 12:17	7440-38-2	
Beryllium, Dissolved	ND	ug/L	2.0	2	05/21/13 18:25	05/23/13 12:17	7440-41-7	D3
Cadmium, Dissolved	ND	ug/L	10.0	2	05/21/13 18:25	05/23/13 12:17	7440-43-9	D3
Chromium, Dissolved	215	ug/L	15.0	3	05/21/13 18:25	05/23/13 12:43	7440-47-3	D9
Cobalt, Dissolved	34.7	ug/L	10.0	2	05/21/13 18:25	05/23/13 12:17	7440-48-4	
Copper, Dissolved	ND	ug/L	20.0	2	05/21/13 18:25	05/23/13 12:17	7440-50-8	D3
Iron, Dissolved	601000	ug/L	100	2	05/21/13 18:25	05/23/13 12:17	7439-89-6	
Lead, Dissolved	90.3	ug/L	10.0	2	05/21/13 18:25	05/23/13 12:17	7439-92-1	
Nickel, Dissolved	107	ug/L	10.0	2	05/21/13 18:25	05/23/13 12:17	7440-02-0	D9
Selenium, Dissolved	61.8	ug/L	45.0	3	05/21/13 18:25	05/23/13 12:43	7782-49-2	D9
Silver, Dissolved	ND	ug/L	14.0	2	05/21/13 18:25	05/23/13 12:17	7440-22-4	D3
Thallium, Dissolved	ND	ug/L	60.0	3	05/21/13 18:25	05/23/13 12:43	7440-28-0	D3
Zinc, Dissolved	13900	ug/L	100	2	05/21/13 18:25	05/23/13 12:17	7440-66-6	D9
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	7.3	ug/L	0.20	1	05/20/13 13:30	05/20/13 15:43	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	05/21/13 11:40	05/21/13 14:46	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	83-32-9	
Acenaphthylene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	208-96-8	
Anthracene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	120-12-7	
Benzidine	ND	ug/L	25000	50	05/21/13 00:00	05/22/13 10:43	92-87-5	
Benzo(a)anthracene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	56-55-3	
Benzo(a)pyrene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

Sample: 119-MSD	Lab ID: 60144732003	Collected: 05/14/13 18:04	Received: 05/16/13 03:15	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	2500	50	05/21/13 00:00	05/22/13 10:43	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	207-08-9	
4-Bromophenylphenyl ether	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	101-55-3	
Butylbenzylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	59-50-7	
bis(2-Chloroethoxy)methane	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	3000	50	05/21/13 00:00	05/22/13 10:43	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	3000	50	05/21/13 00:00	05/22/13 10:43	39638-32-9	
2-Chloronaphthalene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	91-58-7	
2-Chlorophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	7005-72-3	
Chrysene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	53-70-3	
3,3'-Dichlorobenzidine	ND	ug/L	10000	50	05/21/13 00:00	05/22/13 10:43	91-94-1	
2,4-Dichlorophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	120-83-2	
Diethylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	84-66-2	
2,4-Dimethylphenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	105-67-9	
Dimethylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	131-11-3	
Di-n-butylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	12500	50	05/21/13 00:00	05/22/13 10:43	534-52-1	
2,4-Dinitrophenol	ND	ug/L	25000	50	05/21/13 00:00	05/22/13 10:43	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	3000	50	05/21/13 00:00	05/22/13 10:43	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	606-20-2	
Di-n-octylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	117-81-7	
Fluoranthene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	206-44-0	
Fluorene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	87-68-3	
Hexachlorobenzene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	77-47-4	
Hexachloroethane	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	193-39-5	
Isophorone	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	78-59-1	
Naphthalene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	91-20-3	
Nitrobenzene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	98-95-3	
2-Nitrophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	88-75-5	
4-Nitrophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	86-30-6	
Pentachlorophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	87-86-5	
Phenanthrene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	85-01-8	
Phenol	16800	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	108-95-2	
Pyrene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 10:43	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

Sample: 119-MSD		Lab ID: 60144732003	Collected: 05/14/13 18:04	Received: 05/16/13 03:15	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	50	05/21/13 00:00	05/22/13 10:43	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	50	05/21/13 00:00	05/22/13 10:43	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	50	05/21/13 00:00	05/22/13 10:43	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	50	05/21/13 00:00	05/22/13 10:43	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	50	05/21/13 00:00	05/22/13 10:43	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	50	05/21/13 00:00	05/22/13 10:43	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		05/20/13 13:41	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/20/13 13:41	75-27-4	
Bromoform	ND ug/L		200	200		05/20/13 13:41	75-25-2	
Bromomethane	ND ug/L		1000	200		05/20/13 13:41	74-83-9	L3
Carbon tetrachloride	ND ug/L		200	200		05/20/13 13:41	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/20/13 13:41	108-90-7	
Chloroethane	ND ug/L		200	200		05/20/13 13:41	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/20/13 13:41	110-75-8	
Chloroform	ND ug/L		200	200		05/20/13 13:41	67-66-3	
Chloromethane	ND ug/L		200	200		05/20/13 13:41	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/20/13 13:41	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/20/13 13:41	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/20/13 13:41	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/20/13 13:41	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/20/13 13:41	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/20/13 13:41	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/20/13 13:41	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/20/13 13:41	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/20/13 13:41	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/20/13 13:41	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/20/13 13:41	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/20/13 13:41	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/20/13 13:41	100-41-4	
Methylene chloride	ND ug/L		200	200		05/20/13 13:41	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/20/13 13:41	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/20/13 13:41	127-18-4	
Toluene	ND ug/L		200	200		05/20/13 13:41	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/20/13 13:41	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/20/13 13:41	79-00-5	
Trichloroethene	ND ug/L		200	200		05/20/13 13:41	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/20/13 13:41	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/20/13 13:41	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/20/13 13:41	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96 %		80-120	200		05/20/13 13:41	1868-53-7	D3
4-Bromofluorobenzene (S)	100 %		80-120	200		05/20/13 13:41	460-00-4	
Toluene-d8 (S)	101 %		80-120	200		05/20/13 13:41	2037-26-5	
1,2-Dichloroethane-d4 (S)	97 %		80-120	200		05/20/13 13:41	17060-07-0	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

Sample: 119-MSD		Lab ID: 60144732003	Collected: 05/14/13 18:04	Received: 05/16/13 03:15	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		05/20/13 13:41		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	497	mg/L	5.0	1		05/17/13 14:01		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	1470	mg/L	5.0	1		05/17/13 08:59		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.5	Std. Units	0.10	1		05/16/13 16:00		H6
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	675	mg/L	20.0	1		05/17/13 13:52	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	40100	mg/L	5000	500		05/21/13 13:04		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

Sample: TRIP BLANK		Lab ID: 60144732004	Collected: 05/14/13 00:00	Received: 05/16/13 03:15	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		05/20/13 10:46	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		05/20/13 10:46	75-27-4	
Bromoform	ND ug/L		1.0	1		05/20/13 10:46	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/20/13 10:46	74-83-9	L3
Carbon tetrachloride	ND ug/L		1.0	1		05/20/13 10:46	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/20/13 10:46	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/20/13 10:46	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		05/20/13 10:46	110-75-8	
Chloroform	ND ug/L		1.0	1		05/20/13 10:46	67-66-3	
Chloromethane	ND ug/L		1.0	1		05/20/13 10:46	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		05/20/13 10:46	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/20/13 10:46	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/20/13 10:46	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/20/13 10:46	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		05/20/13 10:46	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/20/13 10:46	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/20/13 10:46	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/20/13 10:46	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/20/13 10:46	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		05/20/13 10:46	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		05/20/13 10:46	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		05/20/13 10:46	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		05/20/13 10:46	100-41-4	
Methylene chloride	ND ug/L		1.0	1		05/20/13 10:46	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/20/13 10:46	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/20/13 10:46	127-18-4	
Toluene	ND ug/L		1.0	1		05/20/13 10:46	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/20/13 10:46	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/20/13 10:46	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/20/13 10:46	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/20/13 10:46	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		05/20/13 10:46	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/20/13 10:46	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100 %		80-120	1		05/20/13 10:46	1868-53-7	
4-Bromofluorobenzene (S)	101 %		80-120	1		05/20/13 10:46	460-00-4	
Toluene-d8 (S)	101 %		80-120	1		05/20/13 10:46	2037-26-5	
1,2-Dichloroethane-d4 (S)	100 %		80-120	1		05/20/13 10:46	17060-07-0	
Preservation pH	7.0		1.0	1		05/20/13 10:46		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 117/119-MSD
Pace Project No.: 60144732

QC Batch: MERP/7360 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60144732001, 60144732003

METHOD BLANK: 1190456 Matrix: Water

Associated Lab Samples: 60144732001, 60144732003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/20/13 15:28	

LABORATORY CONTROL SAMPLE: 1190457

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1190458 1190459

Parameter	Units	60144731001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Mercury	ug/L	ND	5	5	4.6	4.6	92	92	70-130	0	20	

MATRIX SPIKE SAMPLE: 1190460

Parameter	Units	60144771001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.6	93	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

QC Batch: MERP/7361 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury - Dissolved
 Associated Lab Samples: 60144732001, 60144732003

METHOD BLANK: 1190910 Matrix: Water
 Associated Lab Samples: 60144732001, 60144732003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/21/13 14:32	

LABORATORY CONTROL SAMPLE: 1190911

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1190912 1190913

Parameter	Units	60144888001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result						
Mercury, Dissolved	ug/L	ND	5	0.71	5	0.68	14	14	70-130	4	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

QC Batch: MPRP/22732 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60144732001, 60144732003

METHOD BLANK: 1190703 Matrix: Water

Associated Lab Samples: 60144732001, 60144732003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	05/21/13 12:58	
Antimony	ug/L	ND	10.0	05/21/13 12:58	
Arsenic	ug/L	ND	10.0	05/21/13 12:58	
Beryllium	ug/L	ND	1.0	05/21/13 12:58	
Cadmium	ug/L	ND	5.0	05/21/13 12:58	
Chromium	ug/L	ND	5.0	05/21/13 12:58	
Cobalt	ug/L	ND	5.0	05/21/13 12:58	
Copper	ug/L	ND	10.0	05/21/13 12:58	
Iron	ug/L	ND	50.0	05/21/13 12:58	
Lead	ug/L	ND	5.0	05/21/13 12:58	
Nickel	ug/L	ND	5.0	05/21/13 12:58	
Selenium	ug/L	ND	15.0	05/21/13 12:58	
Silver	ug/L	ND	7.0	05/21/13 12:58	
Thallium	ug/L	ND	20.0	05/21/13 12:58	
Zinc	ug/L	ND	50.0	05/21/13 12:58	

LABORATORY CONTROL SAMPLE: 1190704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9810	98	85-115	
Antimony	ug/L	1000	1000	100	85-115	
Arsenic	ug/L	1000	998	100	85-115	
Beryllium	ug/L	1000	998	100	85-115	
Cadmium	ug/L	1000	993	99	85-115	
Chromium	ug/L	1000	939	94	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	962	96	85-115	
Iron	ug/L	10000	9460	95	85-115	
Lead	ug/L	1000	995	99	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	984	98	85-115	
Silver	ug/L	500	477	95	85-115	
Thallium	ug/L	1000	1060	106	85-115	
Zinc	ug/L	1000	998	100	85-115	

SAMPLE DUPLICATE: 1190705

Parameter	Units	60144732001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	5640	6410	13	20	
Antimony	ug/L	27.2	37.9	33	20 D6	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

SAMPLE DUPLICATE: 1190705

Parameter	Units	60144732001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	610	652	7	20	
Beryllium	ug/L	ND	ND		20	D3
Cadmium	ug/L	ND	ND		20	D3
Chromium	ug/L	212	226	7	20	
Cobalt	ug/L	36.3	42.7	16	20	
Copper	ug/L	ND	18.9J		20	D3
Iron	ug/L	740000	793000	7	20	
Lead	ug/L	172	179	4	20	
Nickel	ug/L	95.9	108	12	20	
Selenium	ug/L	ND	ND		20	D3
Silver	ug/L	ND	8.6J		20	D3
Thallium	ug/L	ND	ND		20	D3
Zinc	ug/L	14000	15000	7	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

QC Batch: MPRP/22761

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60144732001, 60144732003

METHOD BLANK: 1191307

Matrix: Water

Associated Lab Samples: 60144732001, 60144732003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	05/23/13 12:04	
Antimony, Dissolved	ug/L	ND	10.0	05/23/13 12:04	
Arsenic, Dissolved	ug/L	ND	10.0	05/23/13 12:04	
Beryllium, Dissolved	ug/L	ND	1.0	05/23/13 12:04	
Cadmium, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Chromium, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Cobalt, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Copper, Dissolved	ug/L	ND	10.0	05/23/13 12:04	
Iron, Dissolved	ug/L	ND	50.0	05/23/13 12:04	
Lead, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Nickel, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Selenium, Dissolved	ug/L	ND	15.0	05/23/13 12:04	
Silver, Dissolved	ug/L	ND	7.0	05/23/13 12:04	
Thallium, Dissolved	ug/L	ND	20.0	05/23/13 12:04	
Zinc, Dissolved	ug/L	ND	50.0	05/23/13 12:04	

LABORATORY CONTROL SAMPLE: 1191308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10300	103	85-115	
Antimony, Dissolved	ug/L	1000	1010	101	85-115	
Arsenic, Dissolved	ug/L	1000	994	99	85-115	
Beryllium, Dissolved	ug/L	1000	992	99	85-115	
Cadmium, Dissolved	ug/L	1000	1000	100	85-115	
Chromium, Dissolved	ug/L	1000	998	100	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	984	98	85-115	
Iron, Dissolved	ug/L	10000	9690	97	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1020	102	85-115	
Silver, Dissolved	ug/L	500	492	98	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	1030	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1191309

1191310

Parameter	Units	60144838009		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Aluminum, Dissolved	ug/L	ND	10000	10000	10000	9980	10400	100	104	70-130	4	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

Parameter	60144838009		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Antimony, Dissolved	ug/L	ND	1000	1000	980	1030	98	103	70-130	5	7		
Arsenic, Dissolved	ug/L	ND	1000	1000	970	1010	97	101	70-130	4	10		
Beryllium, Dissolved	ug/L	ND	1000	1000	960	998	96	100	70-130	4	7		
Cadmium, Dissolved	ug/L	ND	1000	1000	966	1010	97	101	70-130	4	10		
Chromium, Dissolved	ug/L	ND	1000	1000	951	994	95	99	70-130	4	10		
Cobalt, Dissolved	ug/L	ND	1000	1000	966	1010	97	101	70-130	4	6		
Copper, Dissolved	ug/L	ND	1000	1000	952	988	94	98	70-130	4	11		
Iron, Dissolved	ug/L	ND	10000	10000	9400	9720	94	97	70-130	3	10		
Lead, Dissolved	ug/L	ND	1000	1000	964	1000	96	100	70-130	4	10		
Nickel, Dissolved	ug/L	ND	1000	1000	974	1020	97	101	70-130	4	10		
Selenium, Dissolved	ug/L	ND	1000	1000	992	1040	99	104	70-130	5	10		
Silver, Dissolved	ug/L	ND	500	500	477	495	95	99	70-130	4	10		
Thallium, Dissolved	ug/L	ND	1000	1000	980	1020	98	102	70-130	4	6		
Zinc, Dissolved	ug/L	376	1000	1000	1330	1380	96	100	70-130	3	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

QC Batch: MSV/53776 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60144732001, 60144732002, 60144732003, 60144732004

METHOD BLANK: 1190357 Matrix: Water

Associated Lab Samples: 60144732001, 60144732002, 60144732003, 60144732004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/20/13 09:03	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/20/13 09:03	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/20/13 09:03	
1,1-Dichloroethane	ug/L	ND	1.0	05/20/13 09:03	
1,1-Dichloroethene	ug/L	ND	1.0	05/20/13 09:03	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/20/13 09:03	
1,2-Dichloroethane	ug/L	ND	1.0	05/20/13 09:03	
1,2-Dichloropropane	ug/L	ND	1.0	05/20/13 09:03	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/20/13 09:03	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/20/13 09:03	
2-Chloroethylvinyl ether	ug/L	ND	10.0	05/20/13 09:03	
Benzene	ug/L	ND	1.0	05/20/13 09:03	
Bromodichloromethane	ug/L	ND	1.0	05/20/13 09:03	
Bromoform	ug/L	ND	1.0	05/20/13 09:03	
Bromomethane	ug/L	ND	5.0	05/20/13 09:03	
Carbon tetrachloride	ug/L	ND	1.0	05/20/13 09:03	
Chlorobenzene	ug/L	ND	1.0	05/20/13 09:03	
Chloroethane	ug/L	ND	1.0	05/20/13 09:03	
Chloroform	ug/L	ND	1.0	05/20/13 09:03	
Chloromethane	ug/L	ND	1.0	05/20/13 09:03	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/20/13 09:03	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/20/13 09:03	
Dibromochloromethane	ug/L	ND	1.0	05/20/13 09:03	
Ethylbenzene	ug/L	ND	1.0	05/20/13 09:03	
Methylene chloride	ug/L	ND	1.0	05/20/13 09:03	
Tetrachloroethene	ug/L	ND	1.0	05/20/13 09:03	
Toluene	ug/L	ND	1.0	05/20/13 09:03	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/20/13 09:03	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/20/13 09:03	
Trichloroethene	ug/L	ND	1.0	05/20/13 09:03	
Trichlorofluoromethane	ug/L	ND	1.0	05/20/13 09:03	
Vinyl chloride	ug/L	ND	1.0	05/20/13 09:03	
Xylene (Total)	ug/L	ND	3.0	05/20/13 09:03	
1,2-Dichloroethane-d4 (S)	%	93	80-120	05/20/13 09:03	
4-Bromofluorobenzene (S)	%	100	80-120	05/20/13 09:03	
Dibromofluoromethane (S)	%	97	80-120	05/20/13 09:03	
Toluene-d8 (S)	%	101	80-120	05/20/13 09:03	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

LABORATORY CONTROL SAMPLE: 1190358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	24.0	120	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	21.6	108	59-138	
1,1,2-Trichloroethane	ug/L	20	22.2	111	69-127	
1,1-Dichloroethane	ug/L	20	21.2	106	69-126	
1,1-Dichloroethene	ug/L	20	23.5	117	65-153	
1,2-Dichlorobenzene	ug/L	20	22.4	112	66-126	
1,2-Dichloroethane	ug/L	20	22.9	115	71-129	
1,2-Dichloropropane	ug/L	20	23.8	119	66-140	
1,3-Dichlorobenzene	ug/L	20	22.3	111	63-127	
1,4-Dichlorobenzene	ug/L	20	22.2	111	68-124	
2-Chloroethylvinyl ether	ug/L	20	25.1	125	33-159	
Benzene	ug/L	20	23.4	117	73-129	
Bromodichloromethane	ug/L	20	23.0	115	63-129	
Bromoform	ug/L	20	21.6	108	52-123	
Bromomethane	ug/L	20	35.8	179	10-160	L0
Carbon tetrachloride	ug/L	20	23.9	120	70-140	
Chlorobenzene	ug/L	20	22.9	114	68-127	
Chloroethane	ug/L	20	20.5	102	42-160	
Chloroform	ug/L	20	22.8	114	60-120	
Chloromethane	ug/L	20	22.7	114	10-160	
cis-1,2-Dichloroethene	ug/L	20	23.9	120	70-125	
cis-1,3-Dichloropropene	ug/L	20	23.2	116	66-132	
Dibromochloromethane	ug/L	20	22.8	114	63-134	
Ethylbenzene	ug/L	20	23.7	118	66-133	
Methylene chloride	ug/L	20	21.3	106	56-135	
Tetrachloroethene	ug/L	20	23.6	118	64-143	
Toluene	ug/L	20	24.0	120	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.4	112	67-149	
trans-1,3-Dichloropropene	ug/L	20	25.1	126	66-138	
Trichloroethene	ug/L	20	22.3	111	71-130	
Trichlorofluoromethane	ug/L	20	20.4	102	58-158	
Vinyl chloride	ug/L	20	20.5	102	41-160	
Xylene (Total)	ug/L	60	71.2	119	67-130	
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Dibromofluoromethane (S)	%			96	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1190359

Parameter	Units	60144594001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	20	21.6	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.6	103	46-157	
1,1,2-Trichloroethane	ug/L	ND	20	18.8	94	52-150	
1,1-Dichloroethane	ug/L	ND	20	18.5	93	59-155	
1,1-Dichloroethene	ug/L	ND	20	21.0	105	14-160	
1,2-Dichlorobenzene	ug/L	ND	20	18.1	90	18-145	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

MATRIX SPIKE SAMPLE:		1190359		60144594001		Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits		
1,2-Dichloroethane	ug/L	ND	20	20.0	100			49-155		
1,2-Dichloropropane	ug/L	ND	20	19.9	99			12-160		
1,3-Dichlorobenzene	ug/L	ND	20	17.5	87			59-146		
1,4-Dichlorobenzene	ug/L	ND	20	18.1	90			18-147		
2-Chloroethylvinyl ether	ug/L	ND	20	22.8	114			10-160		
Benzene	ug/L	ND	20	19.9	100			37-151		
Bromodichloromethane	ug/L	ND	20	19.6	96			35-155		
Bromoform	ug/L	4.0	20	25.1	105			45-133		
Bromomethane	ug/L	ND	20	29.5	148			10-160		
Carbon tetrachloride	ug/L	ND	20	21.6	108			70-140		
Chlorobenzene	ug/L	ND	20	18.9	94			37-153		
Chloroethane	ug/L	ND	20	17.8	89			14-160		
Chloroform	ug/L	1.3	20	20.3	95			51-138		
Chloromethane	ug/L	ND	20	17.8	89			10-160		
cis-1,2-Dichloroethene	ug/L	ND	20	19.7	99			19-160		
cis-1,3-Dichloropropene	ug/L	ND	20	19.1	96			10-160		
Dibromochloromethane	ug/L	ND	20	20.0	97			53-149		
Ethylbenzene	ug/L	ND	20	19.4	97			37-154		
Methylene chloride	ug/L	ND	20	18.5	92			15-156		
Tetrachloroethene	ug/L	ND	20	19.8	99			64-148		
Toluene	ug/L	ND	20	20.4	102			47-150		
trans-1,2-Dichloroethene	ug/L	ND	20	19.9	99			54-156		
trans-1,3-Dichloropropene	ug/L	ND	20	21.0	105			17-160		
Trichloroethene	ug/L	ND	20	19.3	97			71-157		
Trichlorofluoromethane	ug/L	ND	20	18.1	91			17-160		
Vinyl chloride	ug/L	ND	20	17.9	90			10-160		
Xylene (Total)	ug/L			57.8						
1,2-Dichloroethane-d4 (S)	%				101			80-120		
4-Bromofluorobenzene (S)	%				102			80-120		
Dibromofluoromethane (S)	%				97			80-120		
Toluene-d8 (S)	%				100			80-120		
Preservation pH			7.0			7.0				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

QC Batch: OEXT/38482 Analysis Method: EPA 625

QC Batch Method: EPA 625 Analysis Description: 625 MSS

Associated Lab Samples: 60144732001, 60144732003

METHOD BLANK: 1190739 Matrix: Water

Associated Lab Samples: 60144732001, 60144732003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/22/13 09:41	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/22/13 09:41	
2,4-Dichlorophenol	ug/L	ND	5.0	05/22/13 09:41	
2,4-Dimethylphenol	ug/L	ND	5.0	05/22/13 09:41	
2,4-Dinitrophenol	ug/L	ND	50.0	05/22/13 09:41	
2,4-Dinitrotoluene	ug/L	ND	6.0	05/22/13 09:41	
2,6-Dinitrotoluene	ug/L	ND	5.0	05/22/13 09:41	
2-Chloronaphthalene	ug/L	ND	5.0	05/22/13 09:41	
2-Chlorophenol	ug/L	ND	5.0	05/22/13 09:41	
2-Nitrophenol	ug/L	ND	5.0	05/22/13 09:41	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	05/22/13 09:41	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/22/13 09:41	
4-Bromophenylphenyl ether	ug/L	ND	5.0	05/22/13 09:41	
4-Chloro-3-methylphenol	ug/L	ND	5.0	05/22/13 09:41	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	05/22/13 09:41	
4-Nitrophenol	ug/L	ND	5.0	05/22/13 09:41	
Acenaphthene	ug/L	ND	5.0	05/22/13 09:41	
Acenaphthylene	ug/L	ND	5.0	05/22/13 09:41	
Anthracene	ug/L	ND	5.0	05/22/13 09:41	
Benzidine	ug/L	ND	50.0	05/22/13 09:41	
Benzo(a)anthracene	ug/L	ND	5.0	05/22/13 09:41	
Benzo(a)pyrene	ug/L	ND	5.0	05/22/13 09:41	
Benzo(b)fluoranthene	ug/L	ND	5.0	05/22/13 09:41	
Benzo(g,h,i)perylene	ug/L	ND	5.0	05/22/13 09:41	
Benzo(k)fluoranthene	ug/L	ND	5.0	05/22/13 09:41	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	05/22/13 09:41	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	05/22/13 09:41	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	05/22/13 09:41	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	05/22/13 09:41	
Butylbenzylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Chrysene	ug/L	ND	5.0	05/22/13 09:41	
Di-n-butylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Di-n-octylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Dibenz(a,h)anthracene	ug/L	ND	5.0	05/22/13 09:41	
Diethylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Dimethylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Fluoranthene	ug/L	ND	5.0	05/22/13 09:41	
Fluorene	ug/L	ND	5.0	05/22/13 09:41	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/22/13 09:41	
Hexachlorobenzene	ug/L	ND	5.0	05/22/13 09:41	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/22/13 09:41	
Hexachloroethane	ug/L	ND	5.0	05/22/13 09:41	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	05/22/13 09:41	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

METHOD BLANK: 1190739

Matrix: Water

Associated Lab Samples: 60144732001, 60144732003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	05/22/13 09:41	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	05/22/13 09:41	
N-Nitrosodimethylamine	ug/L	ND	5.0	05/22/13 09:41	
N-Nitrosodiphenylamine	ug/L	ND	5.0	05/22/13 09:41	
Naphthalene	ug/L	ND	5.0	05/22/13 09:41	
Nitrobenzene	ug/L	ND	5.0	05/22/13 09:41	
Pentachlorophenol	ug/L	ND	5.0	05/22/13 09:41	
Phenanthrene	ug/L	ND	5.0	05/22/13 09:41	
Phenol	ug/L	ND	5.0	05/22/13 09:41	
Pyrene	ug/L	ND	5.0	05/22/13 09:41	
2,4,6-Tribromophenol (S)	%	95	39-119	05/22/13 09:41	
2-Fluorobiphenyl (S)	%	83	36-120	05/22/13 09:41	
2-Fluorophenol (S)	%	51	18-120	05/22/13 09:41	
Nitrobenzene-d5 (S)	%	82	32-120	05/22/13 09:41	
Phenol-d6 (S)	%	33	12-120	05/22/13 09:41	
Terphenyl-d14 (S)	%	89	44-120	05/22/13 09:41	

LABORATORY CONTROL SAMPLE: 1190740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	34.0	68	44-120	
2,4,6-Trichlorophenol	ug/L	50	39.0	78	48-120	
2,4-Dichlorophenol	ug/L	50	37.0	74	48-120	
2,4-Dimethylphenol	ug/L	50	35.0	70	37-119	
2,4-Dinitrophenol	ug/L	50	40.1J	80	15-153	
2,4-Dinitrotoluene	ug/L	50	41.0	82	54-120	
2,6-Dinitrotoluene	ug/L	50	40.1	80	52-120	
2-Chloronaphthalene	ug/L	50	35.7	71	60-118	
2-Chlorophenol	ug/L	50	34.6	69	44-120	
2-Nitrophenol	ug/L	50	39.6	79	43-120	
3,3'-Dichlorobenzidine	ug/L	50	43.0	86	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	43.0	86	31-147	
4-Bromophenylphenyl ether	ug/L	50	37.2	74	53-120	
4-Chloro-3-methylphenol	ug/L	50	39.8	80	50-120	
4-Chlorophenylphenyl ether	ug/L	50	37.3	75	54-120	
4-Nitrophenol	ug/L	50	17.0	34	10-120	
Acenaphthene	ug/L	50	36.5	73	51-120	
Acenaphthylene	ug/L	50	36.5	73	51-120	
Anthracene	ug/L	50	38.1	76	54-120	
Benzidine	ug/L	50	36.5J	73	1-124	
Benzo(a)anthracene	ug/L	50	38.5	77	54-120	
Benzo(a)pyrene	ug/L	50	37.7	75	54-120	
Benzo(b)fluoranthene	ug/L	50	39.5	79	57-120	
Benzo(g,h,i)perylene	ug/L	50	41.2	82	54-120	
Benzo(k)fluoranthene	ug/L	50	35.8	72	52-121	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

LABORATORY CONTROL SAMPLE: 1190740

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	35.0	70	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	36.4	73	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	44.8	90	51-126	
Butylbenzylphthalate	ug/L	50	45.7	91	45-129	
Chrysene	ug/L	50	38.4	77	54-120	
Di-n-butylphthalate	ug/L	50	42.0	84	57-118	
Di-n-octylphthalate	ug/L	50	47.0	94	48-130	
Dibenz(a,h)anthracene	ug/L	50	40.2	80	56-119	
Diethylphthalate	ug/L	50	39.2	78	55-114	
Dimethylphthalate	ug/L	50	38.4	77	54-112	
Fluoranthene	ug/L	50	39.7	79	56-120	
Fluorene	ug/L	50	37.8	76	59-120	
Hexachloro-1,3-butadiene	ug/L	50	33.6	67	41-116	
Hexachlorobenzene	ug/L	50	37.6	75	53-120	
Hexachlorocyclopentadiene	ug/L	100	58.7	59	31-120	
Hexachloroethane	ug/L	50	32.3	65	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	39.6	79	55-120	
Isophorone	ug/L	50	37.5	75	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	37.1	74	47-120	
N-Nitrosodimethylamine	ug/L	50	22.1	44	28-120	
N-Nitrosodiphenylamine	ug/L	50	37.8	76	53-120	
Naphthalene	ug/L	50	35.1	70	48-120	
Nitrobenzene	ug/L	50	35.8	72	47-120	
Pentachlorophenol	ug/L	50	39.8	80	43-127	
Phenanthrene	ug/L	50	37.5	75	55-120	
Phenol	ug/L	50	15.9	32	15-112	
Pyrene	ug/L	50	39.1	78	55-115	
2,4,6-Tribromophenol (S)	%			82	39-119	
2-Fluorobiphenyl (S)	%			70	36-120	
2-Fluorophenol (S)	%			44	18-120	
Nitrobenzene-d5 (S)	%			70	32-120	M4
Phenol-d6 (S)	%			29	12-120	
Terphenyl-d14 (S)	%			78	44-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

QC Batch: WET/41333

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60144732001, 60144732003

METHOD BLANK: 1189290

Matrix: Water

Associated Lab Samples: 60144732001, 60144732003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	05/17/13 13:56	

LABORATORY CONTROL SAMPLE: 1189291

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	44.4	111	78-114	

MATRIX SPIKE SAMPLE: 1189292

Parameter	Units	60144733001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	52.6	53.2	99	78-114	

SAMPLE DUPLICATE: 1189293

Parameter	Units	60144713002 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 117/119-MSD

Pace Project No.: 60144732

QC Batch: WET/41320

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60144732001, 60144732003

METHOD BLANK: 1188902

Matrix: Water

Associated Lab Samples: 60144732001, 60144732003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/17/13 08:48	

SAMPLE DUPLICATE: 1188903

Parameter	Units	60144737001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	9.0	8.0	12	25	

SAMPLE DUPLICATE: 1188904

Parameter	Units	60144700003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	59.0	62.0	5	25	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

QC Batch: WET/41314 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60144732001, 60144732003

SAMPLE DUPLICATE: 1188450

Parameter	Units	60144607001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	1	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

QC Batch: WETA/24722 Analysis Method: EPA 350.1
 QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
 Associated Lab Samples: 60144732001, 60144732003

METHOD BLANK: 1188860 Matrix: Water

Associated Lab Samples: 60144732001, 60144732003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/17/13 13:44	

LABORATORY CONTROL SAMPLE: 1188861

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

MATRIX SPIKE SAMPLE: 1188863

Parameter	Units	60144734001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	5.6	4	8.9	81	90-110	M1

MATRIX SPIKE SAMPLE: 1188864

Parameter	Units	60144443001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.20	2	1.9	87	90-110	M1

SAMPLE DUPLICATE: 1188862

Parameter	Units	60144548003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	597	616	3	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

QC Batch: WETA/24740 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60144732001, 60144732003

METHOD BLANK: 1189468 Matrix: Water

Associated Lab Samples: 60144732001, 60144732003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/21/13 13:01	

LABORATORY CONTROL SAMPLE: 1189469

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	45.1	90	90-110	

MATRIX SPIKE SAMPLE: 1189470

Parameter	Units	60144426001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	18400	10000	26900	85	90-110	M6

MATRIX SPIKE SAMPLE: 1189472

Parameter	Units	60144397001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	12.3	50	84.1	144	90-110	M1

SAMPLE DUPLICATE: 1189471

Parameter	Units	60144347001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	740	770	4	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 117/119-MSD

Pace Project No.: 60144732

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
- D9 Dissolved result is greater than the total. Data is within laboratory control limits.
- H6 Analysis initiated outside of the 15 minute EPA recommended holding time.
- L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- 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.
- M4 A matrix spike/matrix spike duplicate was not performed for this batch due to sample dilution.
- M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
- 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 117/119-MSD

Pace Project No.: 60144732

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60144732001	117-MSD	EPA 200.7	MPRP/22732	EPA 200.7	ICP/18001
60144732003	119-MSD	EPA 200.7	MPRP/22732	EPA 200.7	ICP/18001
60144732001	117-MSD	EPA 200.7	MPRP/22761	EPA 200.7	ICP/18014
60144732003	119-MSD	EPA 200.7	MPRP/22761	EPA 200.7	ICP/18014
60144732001	117-MSD	EPA 245.1	MERP/7360	EPA 245.1	MERC/7318
60144732003	119-MSD	EPA 245.1	MERP/7360	EPA 245.1	MERC/7318
60144732001	117-MSD	EPA 245.1	MERP/7361	EPA 245.1	MERC/7319
60144732003	119-MSD	EPA 245.1	MERP/7361	EPA 245.1	MERC/7319
60144732001	117-MSD	EPA 625	OEXT/38482	EPA 625	MSSV/12167
60144732003	119-MSD	EPA 625	OEXT/38482	EPA 625	MSSV/12167
60144732001	117-MSD	EPA 624 Low	MSV/53776		
60144732002	TRIP BLANK	EPA 624 Low	MSV/53776		
60144732003	119-MSD	EPA 624 Low	MSV/53776		
60144732004	TRIP BLANK	EPA 624 Low	MSV/53776		
60144732001	117-MSD	EPA 1664A	WET/41333		
60144732003	119-MSD	EPA 1664A	WET/41333		
60144732001	117-MSD	SM 2540D	WET/41320		
60144732003	119-MSD	SM 2540D	WET/41320		
60144732001	117-MSD	SM 4500-H+B	WET/41314		
60144732003	119-MSD	SM 4500-H+B	WET/41314		
60144732001	117-MSD	EPA 350.1	WETA/24722		
60144732003	119-MSD	EPA 350.1	WETA/24722		
60144732001	117-MSD	EPA 410.4	WETA/24740		
60144732003	119-MSD	EPA 410.4	WETA/24740		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60144732



Client Name: Barr Engineering

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

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: 1.8

Date and initials of person examining contents: 5/16/13

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 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 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	Hno3 initial ph 6.0, added 2.5mL, final 4.0 H2SO4 initial ph 6.0, added 2.5mL, final 4.0
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>5</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative <u>13094-Hno3</u>
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: 5/16/13



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: BARR ENGINEERING		Report To: ED GALBRAITH		Attention:	
Address:		Copy To:		Company Name: REPUBLIC SERVICES	
Email To:		Purchase Order No.:		Address:	
Phone:		Project Name: BRIDGETON LANDFILL		Pace Quote Reference: 130426_7588	
Requested Due Date/TAT:		Project Number:		Pace Project Manager: Angie Brown 913-563-1402	
				Pace Profile #: 6787 line 2	
				REGULATORY AGENCY	
				<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
				Site Location: MO	
				STATE: MO	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED COMPOSITE START / END / GRAB	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.							
						Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	↓ Analysis Test ↓	PH 5-6			COD 410	PH SM 4500H+B	LF Dis. Metals 200.7/245 Z	total Metals 200.7/245*	Ammonia EPA 350	Oil/Grease EPA 1664	625 SVOCs
1	117-MSD	3AG14, 2AG14	OT G	5/14/13	0647	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	18P3N4-18P354-5 *Metals list: SDPAU
2	TRIP BLANK					2	✓																	20PACU (TB) Al, Sb, As, Be, Cd, Cr
3																								Co, Cu, Fe, Pb, Ni, Se, Ag, Ti, 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>	5/13/13	1415	GH 554	5/15	215	
SITE ADDRESS: BRIDGETON LF				E. Brackett Pace	5/16	0315	0.6 Y Y Y
13570 ST. CHARLES ROCK RD							
BRIDGETON MO 63044							

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>WILLIAM ABERNATHY</i>				
SIGNATURE of SAMPLER:	<i>William Abernathy</i>	DATE Signed (MM/DD/YY): 5/14/13			

Page 35 of 36

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A

Required Client Information:

Company: **BARR ENGINEERING**
 Address:
 Email To:
 Phone: Fax:
 Requested Due Date/TAT:

Section B

Required Project Information:

Report To: **ED GALBRAITH**
 Copy To: **SCOTT C. FEDAK**
 Purchase Order No.:
 Project Name: **BRIDGETON LANDFILL**
 Project Number:

Section C

Invoice Information:

Attention:
 Company Name: **REPUBLIC SERVICES**
 Address:
 Pace Quote Reference: **130426_7588**
 Pace Project Manager: **Angie Brown 913-563-1402**
 Pace Profile #: **6787 line 2**

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER _____
 Site Location: MO
 STATE: _____

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Face 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 ↓	COD 410		pH SM 4500H+B	LF Dis. Metals 200.7/245 Z	total Metals 200.7/245*	Ammonia EPA 350	Oil/Grease EPA 1664	625 SVOCs	624 VOCs	TSS SM2540D				
1	119-MSD 3A614, 2A614 TRIP BLANK		OT	G			5/14/13	1804	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1803	50A9U *Metals list: <i>M</i>					
2									2	✓																2	0A9U Al, Sb, As, Be, Cd, Cr <i>AM</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>	5/15/13	1410	<i>GH 554</i>	5/15	2:10	
SITE ADDRESS: BRIDGETON LF 13570 ST CHARLES ROCK RD BRIDGETON MO 63044				E Brockett / Pace	5/16	0315	1-8 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:	<i>WILLIAM ABERNATHY</i>				
SIGNATURE of SAMPLER:	<i>William Abernathy</i>				
DATE Signed (MM/DD/YY):		5/14/13			

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

Page 36 of 36

May 24, 2013

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

RE: Project: BRIDGETON LF 121-MSD
Pace Project No.: 60144971

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 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 121-MSD

Pace Project No.: 60144971

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 121-MSD

Pace Project No.: 60144971

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60144971001	121-MSD	Water	05/16/13 07:37	05/18/13 03:00
60144971002	TRIP BLANK	Water	05/16/13 00:00	05/18/13 03:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60144971001	121-MSD	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	PRG	38
		EPA 1664A	JMC1	1
		SM 2540D	RAS	1
		SM 4500-H+B	JML	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
		60144971002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

Sample: 121-MSD	Lab ID: 60144971001	Collected: 05/16/13 07:37	Received: 05/18/13 03:00	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	5010	ug/L	150	2	05/20/13 17:20	05/21/13 13:10	7429-90-5	
Antimony	21.5	ug/L	20.0	2	05/20/13 17:20	05/21/13 13:10	7440-36-0	
Arsenic	550	ug/L	20.0	2	05/20/13 17:20	05/21/13 13:10	7440-38-2	
Beryllium	ND	ug/L	2.0	2	05/20/13 17:20	05/21/13 13:10	7440-41-7	D3
Cadmium	ND	ug/L	10.0	2	05/20/13 17:20	05/21/13 13:10	7440-43-9	D3
Chromium	172	ug/L	15.0	3	05/20/13 17:20	05/21/13 14:25	7440-47-3	
Cobalt	42.6	ug/L	10.0	2	05/20/13 17:20	05/21/13 13:10	7440-48-4	
Copper	24.3	ug/L	20.0	2	05/20/13 17:20	05/21/13 13:10	7440-50-8	
Iron	572000	ug/L	100	2	05/20/13 17:20	05/21/13 13:10	7439-89-6	
Lead	113	ug/L	10.0	2	05/20/13 17:20	05/21/13 13:10	7439-92-1	
Nickel	107	ug/L	10.0	2	05/20/13 17:20	05/21/13 13:10	7440-02-0	
Selenium	ND	ug/L	45.0	3	05/20/13 17:20	05/21/13 14:25	7782-49-2	D3
Silver	ND	ug/L	14.0	2	05/20/13 17:20	05/21/13 13:10	7440-22-4	D3
Thallium	ND	ug/L	60.0	3	05/20/13 17:20	05/21/13 14:25	7440-28-0	D3
Zinc	10000	ug/L	100	2	05/20/13 17:20	05/21/13 13:10	7440-66-6	
200.7 Metals, Dissolved (LF)								
Analytical Method: EPA 200.7 Preparation Method: EPA 200.7								
Aluminum, Dissolved	3060	ug/L	150	2	05/21/13 18:25	05/23/13 12:20	7429-90-5	
Antimony, Dissolved	25.9	ug/L	20.0	2	05/21/13 18:25	05/23/13 12:20	7440-36-0	D9
Arsenic, Dissolved	531	ug/L	20.0	2	05/21/13 18:25	05/23/13 12:20	7440-38-2	
Beryllium, Dissolved	ND	ug/L	2.0	2	05/21/13 18:25	05/23/13 12:20	7440-41-7	D3
Cadmium, Dissolved	ND	ug/L	10.0	2	05/21/13 18:25	05/23/13 12:20	7440-43-9	D3
Chromium, Dissolved	168	ug/L	15.0	3	05/21/13 18:25	05/23/13 12:45	7440-47-3	
Cobalt, Dissolved	41.4	ug/L	10.0	2	05/21/13 18:25	05/23/13 12:20	7440-48-4	
Copper, Dissolved	ND	ug/L	20.0	2	05/21/13 18:25	05/23/13 12:20	7440-50-8	D3
Iron, Dissolved	480000	ug/L	100	2	05/21/13 18:25	05/23/13 12:20	7439-89-6	
Lead, Dissolved	72.6	ug/L	10.0	2	05/21/13 18:25	05/23/13 12:20	7439-92-1	
Nickel, Dissolved	108	ug/L	10.0	2	05/21/13 18:25	05/23/13 12:20	7440-02-0	D9
Selenium, Dissolved	ND	ug/L	45.0	3	05/21/13 18:25	05/23/13 12:45	7782-49-2	D3
Silver, Dissolved	ND	ug/L	14.0	2	05/21/13 18:25	05/23/13 12:20	7440-22-4	D3
Thallium, Dissolved	ND	ug/L	60.0	3	05/21/13 18:25	05/23/13 12:45	7440-28-0	D3
Zinc, Dissolved	9940	ug/L	100	2	05/21/13 18:25	05/23/13 12:20	7440-66-6	
245.1 Mercury								
Analytical Method: EPA 245.1 Preparation Method: EPA 245.1								
Mercury	0.62	ug/L	0.20	1	05/20/13 13:30	05/20/13 16:54	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	05/21/13 11:40	05/21/13 14:48	7439-97-6	
625 MSSV								
Analytical Method: EPA 625 Preparation Method: EPA 625								
Acenaphthene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:04	83-32-9	
Acenaphthylene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:04	208-96-8	
Anthracene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:04	120-12-7	
Benzidine	ND	ug/L	25000	50	05/21/13 00:00	05/22/13 11:04	92-87-5	
Benzo(a)anthracene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:04	56-55-3	
Benzo(a)pyrene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:04	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

Sample: 121-MSD	Lab ID: 60144971001	Collected: 05/16/13 07:37	Received: 05/18/13 03:00	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		2500	50	05/21/13 00:00	05/22/13 11:04	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	191-24-2	
Benzo(k)fluoranthene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	207-08-9	
4-Bromophenylphenyl ether	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	101-55-3	
Butylbenzylphthalate	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	85-68-7	
4-Chloro-3-methylphenol	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	59-50-7	
bis(2-Chloroethoxy)methane	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		3000	50	05/21/13 00:00	05/22/13 11:04	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		3000	50	05/21/13 00:00	05/22/13 11:04	39638-32-9	
2-Chloronaphthalene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	91-58-7	
2-Chlorophenol	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	7005-72-3	
Chrysene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	53-70-3	
3,3'-Dichlorobenzidine	ND ug/L		10000	50	05/21/13 00:00	05/22/13 11:04	91-94-1	
2,4-Dichlorophenol	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	120-83-2	
Diethylphthalate	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	84-66-2	
2,4-Dimethylphenol	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	105-67-9	
Dimethylphthalate	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	131-11-3	
Di-n-butylphthalate	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		12500	50	05/21/13 00:00	05/22/13 11:04	534-52-1	
2,4-Dinitrophenol	ND ug/L		25000	50	05/21/13 00:00	05/22/13 11:04	51-28-5	
2,4-Dinitrotoluene	ND ug/L		3000	50	05/21/13 00:00	05/22/13 11:04	121-14-2	
2,6-Dinitrotoluene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	606-20-2	
Di-n-octylphthalate	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	117-81-7	
Fluoranthene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	206-44-0	
Fluorene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	87-68-3	
Hexachlorobenzene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	77-47-4	
Hexachloroethane	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	193-39-5	
Isophorone	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	78-59-1	
Naphthalene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	91-20-3	
Nitrobenzene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	98-95-3	
2-Nitrophenol	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	88-75-5	
4-Nitrophenol	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	100-02-7	
N-Nitrosodimethylamine	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	86-30-6	
Pentachlorophenol	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	87-86-5	
Phenanthrene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	85-01-8	
Phenol	9840 ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	108-95-2	
Pyrene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:04	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

Sample: 121-MSD		Lab ID: 60144971001	Collected: 05/16/13 07:37	Received: 05/18/13 03:00	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	50	05/21/13 00:00	05/22/13 11:04	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	50	05/21/13 00:00	05/22/13 11:04	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	50	05/21/13 00:00	05/22/13 11:04	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	50	05/21/13 00:00	05/22/13 11:04	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	50	05/21/13 00:00	05/22/13 11:04	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	50	05/21/13 00:00	05/22/13 11:04	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		05/20/13 14:02	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/20/13 14:02	75-27-4	
Bromoform	ND ug/L		200	200		05/20/13 14:02	75-25-2	
Bromomethane	ND ug/L		1000	200		05/20/13 14:02	74-83-9	L3
Carbon tetrachloride	ND ug/L		200	200		05/20/13 14:02	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/20/13 14:02	108-90-7	
Chloroethane	ND ug/L		200	200		05/20/13 14:02	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/20/13 14:02	110-75-8	
Chloroform	ND ug/L		200	200		05/20/13 14:02	67-66-3	
Chloromethane	ND ug/L		200	200		05/20/13 14:02	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/20/13 14:02	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/20/13 14:02	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/20/13 14:02	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/20/13 14:02	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/20/13 14:02	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/20/13 14:02	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/20/13 14:02	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/20/13 14:02	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/20/13 14:02	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/20/13 14:02	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/20/13 14:02	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/20/13 14:02	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/20/13 14:02	100-41-4	
Methylene chloride	ND ug/L		200	200		05/20/13 14:02	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/20/13 14:02	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/20/13 14:02	127-18-4	
Toluene	ND ug/L		200	200		05/20/13 14:02	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/20/13 14:02	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/20/13 14:02	79-00-5	
Trichloroethene	ND ug/L		200	200		05/20/13 14:02	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/20/13 14:02	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/20/13 14:02	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/20/13 14:02	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97 %		80-120	200		05/20/13 14:02	1868-53-7	D3
4-Bromofluorobenzene (S)	99 %		80-120	200		05/20/13 14:02	460-00-4	
Toluene-d8 (S)	99 %		80-120	200		05/20/13 14:02	2037-26-5	
1,2-Dichloroethane-d4 (S)	98 %		80-120	200		05/20/13 14:02	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

Sample: 121-MSD		Lab ID: 60144971001	Collected: 05/16/13 07:37	Received: 05/18/13 03:00	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		05/20/13 14:02		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	27.7	mg/L	5.0	1		05/20/13 12:25		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	1510	mg/L	5.0	1		05/20/13 09:54		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.5	Std. Units	0.10	1		05/18/13 12:45		H6
5210B BOD, 5 day	Analytical Method: SM 5210B Preparation Method: SM 5210B							
BOD, 5 day	27600	mg/L	2.0	1	05/18/13 10:08	05/23/13 13:01		H2
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	527	mg/L	20.0	200		05/23/13 12:25	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	35800	mg/L	5000	500		05/24/13 07:47		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

Sample: TRIP BLANK		Lab ID: 60144971002	Collected: 05/16/13 00:00	Received: 05/18/13 03:00	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		05/20/13 11:07	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		05/20/13 11:07	75-27-4	
Bromoform	ND ug/L		1.0	1		05/20/13 11:07	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/20/13 11:07	74-83-9	L3
Carbon tetrachloride	ND ug/L		1.0	1		05/20/13 11:07	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/20/13 11:07	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/20/13 11:07	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		05/20/13 11:07	110-75-8	
Chloroform	ND ug/L		1.0	1		05/20/13 11:07	67-66-3	
Chloromethane	ND ug/L		1.0	1		05/20/13 11:07	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		05/20/13 11:07	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/20/13 11:07	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/20/13 11:07	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/20/13 11:07	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		05/20/13 11:07	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/20/13 11:07	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/20/13 11:07	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/20/13 11:07	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/20/13 11:07	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		05/20/13 11:07	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		05/20/13 11:07	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		05/20/13 11:07	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		05/20/13 11:07	100-41-4	
Methylene chloride	ND ug/L		1.0	1		05/20/13 11:07	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/20/13 11:07	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/20/13 11:07	127-18-4	
Toluene	ND ug/L		1.0	1		05/20/13 11:07	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/20/13 11:07	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/20/13 11:07	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/20/13 11:07	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/20/13 11:07	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		05/20/13 11:07	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/20/13 11:07	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98 %		80-120	1		05/20/13 11:07	1868-53-7	
4-Bromofluorobenzene (S)	99 %		80-120	1		05/20/13 11:07	460-00-4	
Toluene-d8 (S)	101 %		80-120	1		05/20/13 11:07	2037-26-5	
1,2-Dichloroethane-d4 (S)	95 %		80-120	1		05/20/13 11:07	17060-07-0	
Preservation pH	7.0			1		05/20/13 11:07		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 121-MSD
Pace Project No.: 60144971

QC Batch: MERP/7360 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60144971001

METHOD BLANK: 1190456 Matrix: Water
Associated Lab Samples: 60144971001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/20/13 15:28	

LABORATORY CONTROL SAMPLE: 1190457

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1190458 1190459

Parameter	Units	60144731001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Mercury	ug/L	ND	5	5	4.6	4.6	92	92	70-130	0	20

MATRIX SPIKE SAMPLE: 1190460

Parameter	Units	60144771001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.6	93	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

QC Batch: MERP/7361

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60144971001

METHOD BLANK: 1190910

Matrix: Water

Associated Lab Samples: 60144971001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/21/13 14:32	

LABORATORY CONTROL SAMPLE: 1190911

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1190912

1190913

Parameter	Units	60144888001 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	0.71	0.68	14	14	70-130	4	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 121-MSD
Pace Project No.: 60144971

QC Batch: MPRP/22732 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60144971001

METHOD BLANK: 1190703 Matrix: Water
Associated Lab Samples: 60144971001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	05/21/13 12:58	
Antimony	ug/L	ND	10.0	05/21/13 12:58	
Arsenic	ug/L	ND	10.0	05/21/13 12:58	
Beryllium	ug/L	ND	1.0	05/21/13 12:58	
Cadmium	ug/L	ND	5.0	05/21/13 12:58	
Chromium	ug/L	ND	5.0	05/21/13 12:58	
Cobalt	ug/L	ND	5.0	05/21/13 12:58	
Copper	ug/L	ND	10.0	05/21/13 12:58	
Iron	ug/L	ND	50.0	05/21/13 12:58	
Lead	ug/L	ND	5.0	05/21/13 12:58	
Nickel	ug/L	ND	5.0	05/21/13 12:58	
Selenium	ug/L	ND	15.0	05/21/13 12:58	
Silver	ug/L	ND	7.0	05/21/13 12:58	
Thallium	ug/L	ND	20.0	05/21/13 12:58	
Zinc	ug/L	ND	50.0	05/21/13 12:58	

LABORATORY CONTROL SAMPLE: 1190704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9810	98	85-115	
Antimony	ug/L	1000	1000	100	85-115	
Arsenic	ug/L	1000	998	100	85-115	
Beryllium	ug/L	1000	998	100	85-115	
Cadmium	ug/L	1000	993	99	85-115	
Chromium	ug/L	1000	939	94	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	962	96	85-115	
Iron	ug/L	10000	9460	95	85-115	
Lead	ug/L	1000	995	99	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	984	98	85-115	
Silver	ug/L	500	477	95	85-115	
Thallium	ug/L	1000	1060	106	85-115	
Zinc	ug/L	1000	998	100	85-115	

SAMPLE DUPLICATE: 1190705

Parameter	Units	60144732001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	5640	6410	13	20	
Antimony	ug/L	27.2	37.9	33	20 D6	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

SAMPLE DUPLICATE: 1190705

Parameter	Units	60144732001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	610	652	7	20	
Beryllium	ug/L	ND	ND		20	D3
Cadmium	ug/L	ND	ND		20	D3
Chromium	ug/L	212	226	7	20	
Cobalt	ug/L	36.3	42.7	16	20	
Copper	ug/L	ND	18.9J		20	D3
Iron	ug/L	740000	793000	7	20	
Lead	ug/L	172	179	4	20	
Nickel	ug/L	95.9	108	12	20	
Selenium	ug/L	ND	ND		20	D3
Silver	ug/L	ND	8.6J		20	D3
Thallium	ug/L	ND	ND		20	D3
Zinc	ug/L	14000	15000	7	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 121-MSD
Pace Project No.: 60144971

QC Batch: MPRP/22761 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60144971001

METHOD BLANK: 1191307 Matrix: Water
Associated Lab Samples: 60144971001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	05/23/13 12:04	
Antimony, Dissolved	ug/L	ND	10.0	05/23/13 12:04	
Arsenic, Dissolved	ug/L	ND	10.0	05/23/13 12:04	
Beryllium, Dissolved	ug/L	ND	1.0	05/23/13 12:04	
Cadmium, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Chromium, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Cobalt, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Copper, Dissolved	ug/L	ND	10.0	05/23/13 12:04	
Iron, Dissolved	ug/L	ND	50.0	05/23/13 12:04	
Lead, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Nickel, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Selenium, Dissolved	ug/L	ND	15.0	05/23/13 12:04	
Silver, Dissolved	ug/L	ND	7.0	05/23/13 12:04	
Thallium, Dissolved	ug/L	ND	20.0	05/23/13 12:04	
Zinc, Dissolved	ug/L	ND	50.0	05/23/13 12:04	

LABORATORY CONTROL SAMPLE: 1191308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10300	103	85-115	
Antimony, Dissolved	ug/L	1000	1010	101	85-115	
Arsenic, Dissolved	ug/L	1000	994	99	85-115	
Beryllium, Dissolved	ug/L	1000	992	99	85-115	
Cadmium, Dissolved	ug/L	1000	1000	100	85-115	
Chromium, Dissolved	ug/L	1000	998	100	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	984	98	85-115	
Iron, Dissolved	ug/L	10000	9690	97	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1020	102	85-115	
Silver, Dissolved	ug/L	500	492	98	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	1030	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1191309 1191310

Parameter	Units	60144838009 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	9980	10400	100	104	70-130	4	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

Parameter	60144838009		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Antimony, Dissolved	ug/L	ND	1000	1000	980	1030	98	103	70-130	5	7		
Arsenic, Dissolved	ug/L	ND	1000	1000	970	1010	97	101	70-130	4	10		
Beryllium, Dissolved	ug/L	ND	1000	1000	960	998	96	100	70-130	4	7		
Cadmium, Dissolved	ug/L	ND	1000	1000	966	1010	97	101	70-130	4	10		
Chromium, Dissolved	ug/L	ND	1000	1000	951	994	95	99	70-130	4	10		
Cobalt, Dissolved	ug/L	ND	1000	1000	966	1010	97	101	70-130	4	6		
Copper, Dissolved	ug/L	ND	1000	1000	952	988	94	98	70-130	4	11		
Iron, Dissolved	ug/L	ND	10000	10000	9400	9720	94	97	70-130	3	10		
Lead, Dissolved	ug/L	ND	1000	1000	964	1000	96	100	70-130	4	10		
Nickel, Dissolved	ug/L	ND	1000	1000	974	1020	97	101	70-130	4	10		
Selenium, Dissolved	ug/L	ND	1000	1000	992	1040	99	104	70-130	5	10		
Silver, Dissolved	ug/L	ND	500	500	477	495	95	99	70-130	4	10		
Thallium, Dissolved	ug/L	ND	1000	1000	980	1020	98	102	70-130	4	6		
Zinc, Dissolved	ug/L	376	1000	1000	1330	1380	96	100	70-130	3	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

QC Batch: MSV/53776 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60144971001, 60144971002

METHOD BLANK: 1190357 Matrix: Water

Associated Lab Samples: 60144971001, 60144971002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/20/13 09:03	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/20/13 09:03	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/20/13 09:03	
1,1-Dichloroethane	ug/L	ND	1.0	05/20/13 09:03	
1,1-Dichloroethene	ug/L	ND	1.0	05/20/13 09:03	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/20/13 09:03	
1,2-Dichloroethane	ug/L	ND	1.0	05/20/13 09:03	
1,2-Dichloropropane	ug/L	ND	1.0	05/20/13 09:03	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/20/13 09:03	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/20/13 09:03	
2-Chloroethylvinyl ether	ug/L	ND	10.0	05/20/13 09:03	
Benzene	ug/L	ND	1.0	05/20/13 09:03	
Bromodichloromethane	ug/L	ND	1.0	05/20/13 09:03	
Bromoform	ug/L	ND	1.0	05/20/13 09:03	
Bromomethane	ug/L	ND	5.0	05/20/13 09:03	
Carbon tetrachloride	ug/L	ND	1.0	05/20/13 09:03	
Chlorobenzene	ug/L	ND	1.0	05/20/13 09:03	
Chloroethane	ug/L	ND	1.0	05/20/13 09:03	
Chloroform	ug/L	ND	1.0	05/20/13 09:03	
Chloromethane	ug/L	ND	1.0	05/20/13 09:03	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/20/13 09:03	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/20/13 09:03	
Dibromochloromethane	ug/L	ND	1.0	05/20/13 09:03	
Ethylbenzene	ug/L	ND	1.0	05/20/13 09:03	
Methylene chloride	ug/L	ND	1.0	05/20/13 09:03	
Tetrachloroethene	ug/L	ND	1.0	05/20/13 09:03	
Toluene	ug/L	ND	1.0	05/20/13 09:03	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/20/13 09:03	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/20/13 09:03	
Trichloroethene	ug/L	ND	1.0	05/20/13 09:03	
Trichlorofluoromethane	ug/L	ND	1.0	05/20/13 09:03	
Vinyl chloride	ug/L	ND	1.0	05/20/13 09:03	
Xylene (Total)	ug/L	ND	3.0	05/20/13 09:03	
1,2-Dichloroethane-d4 (S)	%	93	80-120	05/20/13 09:03	
4-Bromofluorobenzene (S)	%	100	80-120	05/20/13 09:03	
Dibromofluoromethane (S)	%	97	80-120	05/20/13 09:03	
Toluene-d8 (S)	%	101	80-120	05/20/13 09:03	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

LABORATORY CONTROL SAMPLE: 1190358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	24.0	120	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	21.6	108	59-138	
1,1,2-Trichloroethane	ug/L	20	22.2	111	69-127	
1,1-Dichloroethane	ug/L	20	21.2	106	69-126	
1,1-Dichloroethene	ug/L	20	23.5	117	65-153	
1,2-Dichlorobenzene	ug/L	20	22.4	112	66-126	
1,2-Dichloroethane	ug/L	20	22.9	115	71-129	
1,2-Dichloropropane	ug/L	20	23.8	119	66-140	
1,3-Dichlorobenzene	ug/L	20	22.3	111	63-127	
1,4-Dichlorobenzene	ug/L	20	22.2	111	68-124	
2-Chloroethylvinyl ether	ug/L	20	25.1	125	33-159	
Benzene	ug/L	20	23.4	117	73-129	
Bromodichloromethane	ug/L	20	23.0	115	63-129	
Bromoform	ug/L	20	21.6	108	52-123	
Bromomethane	ug/L	20	35.8	179	10-160	L0
Carbon tetrachloride	ug/L	20	23.9	120	70-140	
Chlorobenzene	ug/L	20	22.9	114	68-127	
Chloroethane	ug/L	20	20.5	102	42-160	
Chloroform	ug/L	20	22.8	114	60-120	
Chloromethane	ug/L	20	22.7	114	10-160	
cis-1,2-Dichloroethene	ug/L	20	23.9	120	70-125	
cis-1,3-Dichloropropene	ug/L	20	23.2	116	66-132	
Dibromochloromethane	ug/L	20	22.8	114	63-134	
Ethylbenzene	ug/L	20	23.7	118	66-133	
Methylene chloride	ug/L	20	21.3	106	56-135	
Tetrachloroethene	ug/L	20	23.6	118	64-143	
Toluene	ug/L	20	24.0	120	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.4	112	67-149	
trans-1,3-Dichloropropene	ug/L	20	25.1	126	66-138	
Trichloroethene	ug/L	20	22.3	111	71-130	
Trichlorofluoromethane	ug/L	20	20.4	102	58-158	
Vinyl chloride	ug/L	20	20.5	102	41-160	
Xylene (Total)	ug/L	60	71.2	119	67-130	
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Dibromofluoromethane (S)	%			96	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1190359

Parameter	Units	60144594001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	20	21.6	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.6	103	46-157	
1,1,2-Trichloroethane	ug/L	ND	20	18.8	94	52-150	
1,1-Dichloroethane	ug/L	ND	20	18.5	93	59-155	
1,1-Dichloroethene	ug/L	ND	20	21.0	105	14-160	
1,2-Dichlorobenzene	ug/L	ND	20	18.1	90	18-145	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

MATRIX SPIKE SAMPLE:		1190359		60144594001		Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits		
1,2-Dichloroethane	ug/L	ND	20	20.0	100			49-155		
1,2-Dichloropropane	ug/L	ND	20	19.9	99			12-160		
1,3-Dichlorobenzene	ug/L	ND	20	17.5	87			59-146		
1,4-Dichlorobenzene	ug/L	ND	20	18.1	90			18-147		
2-Chloroethylvinyl ether	ug/L	ND	20	22.8	114			10-160		
Benzene	ug/L	ND	20	19.9	100			37-151		
Bromodichloromethane	ug/L	ND	20	19.6	96			35-155		
Bromoform	ug/L	4.0	20	25.1	105			45-133		
Bromomethane	ug/L	ND	20	29.5	148			10-160		
Carbon tetrachloride	ug/L	ND	20	21.6	108			70-140		
Chlorobenzene	ug/L	ND	20	18.9	94			37-153		
Chloroethane	ug/L	ND	20	17.8	89			14-160		
Chloroform	ug/L	1.3	20	20.3	95			51-138		
Chloromethane	ug/L	ND	20	17.8	89			10-160		
cis-1,2-Dichloroethene	ug/L	ND	20	19.7	99			19-160		
cis-1,3-Dichloropropene	ug/L	ND	20	19.1	96			10-160		
Dibromochloromethane	ug/L	ND	20	20.0	97			53-149		
Ethylbenzene	ug/L	ND	20	19.4	97			37-154		
Methylene chloride	ug/L	ND	20	18.5	92			15-156		
Tetrachloroethene	ug/L	ND	20	19.8	99			64-148		
Toluene	ug/L	ND	20	20.4	102			47-150		
trans-1,2-Dichloroethene	ug/L	ND	20	19.9	99			54-156		
trans-1,3-Dichloropropene	ug/L	ND	20	21.0	105			17-160		
Trichloroethene	ug/L	ND	20	19.3	97			71-157		
Trichlorofluoromethane	ug/L	ND	20	18.1	91			17-160		
Vinyl chloride	ug/L	ND	20	17.9	90			10-160		
Xylene (Total)	ug/L			57.8						
1,2-Dichloroethane-d4 (S)	%				101			80-120		
4-Bromofluorobenzene (S)	%				102			80-120		
Dibromofluoromethane (S)	%				97			80-120		
Toluene-d8 (S)	%				100			80-120		
Preservation pH			7.0			7.0				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

QC Batch: OEXT/38482

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60144971001

METHOD BLANK: 1190739

Matrix: Water

Associated Lab Samples: 60144971001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/22/13 09:41	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/22/13 09:41	
2,4-Dichlorophenol	ug/L	ND	5.0	05/22/13 09:41	
2,4-Dimethylphenol	ug/L	ND	5.0	05/22/13 09:41	
2,4-Dinitrophenol	ug/L	ND	50.0	05/22/13 09:41	
2,4-Dinitrotoluene	ug/L	ND	6.0	05/22/13 09:41	
2,6-Dinitrotoluene	ug/L	ND	5.0	05/22/13 09:41	
2-Chloronaphthalene	ug/L	ND	5.0	05/22/13 09:41	
2-Chlorophenol	ug/L	ND	5.0	05/22/13 09:41	
2-Nitrophenol	ug/L	ND	5.0	05/22/13 09:41	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	05/22/13 09:41	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/22/13 09:41	
4-Bromophenylphenyl ether	ug/L	ND	5.0	05/22/13 09:41	
4-Chloro-3-methylphenol	ug/L	ND	5.0	05/22/13 09:41	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	05/22/13 09:41	
4-Nitrophenol	ug/L	ND	5.0	05/22/13 09:41	
Acenaphthene	ug/L	ND	5.0	05/22/13 09:41	
Acenaphthylene	ug/L	ND	5.0	05/22/13 09:41	
Anthracene	ug/L	ND	5.0	05/22/13 09:41	
Benzidine	ug/L	ND	50.0	05/22/13 09:41	
Benzo(a)anthracene	ug/L	ND	5.0	05/22/13 09:41	
Benzo(a)pyrene	ug/L	ND	5.0	05/22/13 09:41	
Benzo(b)fluoranthene	ug/L	ND	5.0	05/22/13 09:41	
Benzo(g,h,i)perylene	ug/L	ND	5.0	05/22/13 09:41	
Benzo(k)fluoranthene	ug/L	ND	5.0	05/22/13 09:41	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	05/22/13 09:41	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	05/22/13 09:41	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	05/22/13 09:41	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	05/22/13 09:41	
Butylbenzylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Chrysene	ug/L	ND	5.0	05/22/13 09:41	
Di-n-butylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Di-n-octylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Dibenz(a,h)anthracene	ug/L	ND	5.0	05/22/13 09:41	
Diethylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Dimethylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Fluoranthene	ug/L	ND	5.0	05/22/13 09:41	
Fluorene	ug/L	ND	5.0	05/22/13 09:41	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/22/13 09:41	
Hexachlorobenzene	ug/L	ND	5.0	05/22/13 09:41	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/22/13 09:41	
Hexachloroethane	ug/L	ND	5.0	05/22/13 09:41	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	05/22/13 09:41	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 121-MSD
Pace Project No.: 60144971

METHOD BLANK: 1190739 Matrix: Water

Associated Lab Samples: 60144971001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	05/22/13 09:41	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	05/22/13 09:41	
N-Nitrosodimethylamine	ug/L	ND	5.0	05/22/13 09:41	
N-Nitrosodiphenylamine	ug/L	ND	5.0	05/22/13 09:41	
Naphthalene	ug/L	ND	5.0	05/22/13 09:41	
Nitrobenzene	ug/L	ND	5.0	05/22/13 09:41	
Pentachlorophenol	ug/L	ND	5.0	05/22/13 09:41	
Phenanthrene	ug/L	ND	5.0	05/22/13 09:41	
Phenol	ug/L	ND	5.0	05/22/13 09:41	
Pyrene	ug/L	ND	5.0	05/22/13 09:41	
2,4,6-Tribromophenol (S)	%	95	39-119	05/22/13 09:41	
2-Fluorobiphenyl (S)	%	83	36-120	05/22/13 09:41	
2-Fluorophenol (S)	%	51	18-120	05/22/13 09:41	
Nitrobenzene-d5 (S)	%	82	32-120	05/22/13 09:41	
Phenol-d6 (S)	%	33	12-120	05/22/13 09:41	
Terphenyl-d14 (S)	%	89	44-120	05/22/13 09:41	

LABORATORY CONTROL SAMPLE: 1190740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	34.0	68	44-120	
2,4,6-Trichlorophenol	ug/L	50	39.0	78	48-120	
2,4-Dichlorophenol	ug/L	50	37.0	74	48-120	
2,4-Dimethylphenol	ug/L	50	35.0	70	37-119	
2,4-Dinitrophenol	ug/L	50	40.1J	80	15-153	
2,4-Dinitrotoluene	ug/L	50	41.0	82	54-120	
2,6-Dinitrotoluene	ug/L	50	40.1	80	52-120	
2-Chloronaphthalene	ug/L	50	35.7	71	60-118	
2-Chlorophenol	ug/L	50	34.6	69	44-120	
2-Nitrophenol	ug/L	50	39.6	79	43-120	
3,3'-Dichlorobenzidine	ug/L	50	43.0	86	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	43.0	86	31-147	
4-Bromophenylphenyl ether	ug/L	50	37.2	74	53-120	
4-Chloro-3-methylphenol	ug/L	50	39.8	80	50-120	
4-Chlorophenylphenyl ether	ug/L	50	37.3	75	54-120	
4-Nitrophenol	ug/L	50	17.0	34	10-120	
Acenaphthene	ug/L	50	36.5	73	51-120	
Acenaphthylene	ug/L	50	36.5	73	51-120	
Anthracene	ug/L	50	38.1	76	54-120	
Benzidine	ug/L	50	36.5J	73	1-124	
Benzo(a)anthracene	ug/L	50	38.5	77	54-120	
Benzo(a)pyrene	ug/L	50	37.7	75	54-120	
Benzo(b)fluoranthene	ug/L	50	39.5	79	57-120	
Benzo(g,h,i)perylene	ug/L	50	41.2	82	54-120	
Benzo(k)fluoranthene	ug/L	50	35.8	72	52-121	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

LABORATORY CONTROL SAMPLE: 1190740

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	35.0	70	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	36.4	73	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	44.8	90	51-126	
Butylbenzylphthalate	ug/L	50	45.7	91	45-129	
Chrysene	ug/L	50	38.4	77	54-120	
Di-n-butylphthalate	ug/L	50	42.0	84	57-118	
Di-n-octylphthalate	ug/L	50	47.0	94	48-130	
Dibenz(a,h)anthracene	ug/L	50	40.2	80	56-119	
Diethylphthalate	ug/L	50	39.2	78	55-114	
Dimethylphthalate	ug/L	50	38.4	77	54-112	
Fluoranthene	ug/L	50	39.7	79	56-120	
Fluorene	ug/L	50	37.8	76	59-120	
Hexachloro-1,3-butadiene	ug/L	50	33.6	67	41-116	
Hexachlorobenzene	ug/L	50	37.6	75	53-120	
Hexachlorocyclopentadiene	ug/L	100	58.7	59	31-120	
Hexachloroethane	ug/L	50	32.3	65	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	39.6	79	55-120	
Isophorone	ug/L	50	37.5	75	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	37.1	74	47-120	
N-Nitrosodimethylamine	ug/L	50	22.1	44	28-120	
N-Nitrosodiphenylamine	ug/L	50	37.8	76	53-120	
Naphthalene	ug/L	50	35.1	70	48-120	
Nitrobenzene	ug/L	50	35.8	72	47-120	
Pentachlorophenol	ug/L	50	39.8	80	43-127	
Phenanthrene	ug/L	50	37.5	75	55-120	
Phenol	ug/L	50	15.9	32	15-112	
Pyrene	ug/L	50	39.1	78	55-115	
2,4,6-Tribromophenol (S)	%			82	39-119	
2-Fluorobiphenyl (S)	%			70	36-120	
2-Fluorophenol (S)	%			44	18-120	
Nitrobenzene-d5 (S)	%			70	32-120	M4
Phenol-d6 (S)	%			29	12-120	
Terphenyl-d14 (S)	%			78	44-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

QC Batch:	WET/41366	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60144971001		

METHOD BLANK: 1190496 Matrix: Water

Associated Lab Samples: 60144971001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	05/20/13 12:19	

LABORATORY CONTROL SAMPLE: 1190497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	35.3	88	78-114	

MATRIX SPIKE SAMPLE: 1190500

Parameter	Units	60144427001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	30.9	40.8	71.9	100	78-114	

SAMPLE DUPLICATE: 1190501

Parameter	Units	60144430001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	52.3	30.8	52	18	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

QC Batch: WET/41362

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60144971001

METHOD BLANK: 1190372

Matrix: Water

Associated Lab Samples: 60144971001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/20/13 09:50	

SAMPLE DUPLICATE: 1190373

Parameter	Units	60144857001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	42.0	40.0	5	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

QC Batch: WET/41349 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60144971001

SAMPLE DUPLICATE: 1190112

Parameter	Units	60144971001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.5	5.5	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

QC Batch: WET/41348

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60144971001

METHOD BLANK: 1189835

Matrix: Water

Associated Lab Samples: 60144971001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/23/13 12:55	

LABORATORY CONTROL SAMPLE: 1189836

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

SAMPLE DUPLICATE: 1189837

Parameter	Units	60144838003 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	127	74.4	52	17	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 121-MSD
Pace Project No.: 60144971

QC Batch: WETA/24806 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60144971001

METHOD BLANK: 1192313 Matrix: Water
Associated Lab Samples: 60144971001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/23/13 12:23	

LABORATORY CONTROL SAMPLE: 1192314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	1.9	97	90-110	

MATRIX SPIKE SAMPLE: 1192315

Parameter	Units	60144695001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.6	82	90-110	M1

MATRIX SPIKE SAMPLE: 1192316

Parameter	Units	60144700001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.13	2	1.9	87	90-110	M1

SAMPLE DUPLICATE: 1192317

Parameter	Units	60144708001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.25	0.24	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 121-MSD
Pace Project No.: 60144971

QC Batch: WETA/24794 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 60144971001

METHOD BLANK: 1191501 Matrix: Water
Associated Lab Samples: 60144971001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/24/13 07:44	

LABORATORY CONTROL SAMPLE: 1191502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	46.4	93	90-110	

MATRIX SPIKE SAMPLE: 1191503

Parameter	Units	60144544001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	61.0	50	105	87	90-110	M1

MATRIX SPIKE SAMPLE: 1191505

Parameter	Units	60144837002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	57.4	50	104	93	90-110	

SAMPLE DUPLICATE: 1191504

Parameter	Units	60144743001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	10100	10200	1	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 121-MSD

Pace Project No.: 60144971

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.
- H2 Extraction or preparation conducted outside EPA method holding time.
- H6 Analysis initiated outside of the 15 minute EPA recommended holding time.
- L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- 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.
- M4 A matrix spike/matrix spike duplicate was not performed for this batch due to sample dilution.
- 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 121-MSD

Pace Project No.: 60144971

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60144971001	121-MSD	EPA 200.7	MPRP/22732	EPA 200.7	ICP/18001
60144971001	121-MSD	EPA 200.7	MPRP/22761	EPA 200.7	ICP/18014
60144971001	121-MSD	EPA 245.1	MERP/7360	EPA 245.1	MERC/7318
60144971001	121-MSD	EPA 245.1	MERP/7361	EPA 245.1	MERC/7319
60144971001	121-MSD	EPA 625	OEXT/38482	EPA 625	MSSV/12167
60144971001	121-MSD	EPA 624 Low	MSV/53776		
60144971002	TRIP BLANK	EPA 624 Low	MSV/53776		
60144971001	121-MSD	EPA 1664A	WET/41366		
60144971001	121-MSD	SM 2540D	WET/41362		
60144971001	121-MSD	SM 4500-H+B	WET/41349		
60144971001	121-MSD	SM 5210B	WET/41348	SM 5210B	WET/41462
60144971001	121-MSD	EPA 350.1	WETA/24806		
60144971001	121-MSD	EPA 410.4	WETA/24794		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60144971



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 Loic

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

Cooler Temperature: 0-8

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: 5/18/13 [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>ph</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>OT</u>		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, final 4.0 BP35 - initial ph 6.0, added 2.5ml, final 4.0
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>[Signature]</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative <u>13094</u>
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: BP30 Out by about another

Project Manager Review: [Signature]

Date: 5/20/13



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: / of /

Section A

Required Client Information:

Company: BARR ENGINEERING

Address:

Email To:

Phone: Fax:

Requested Due Date/TAT:

Section B

Required Project Information:

Report To: ED GALBRAITH

Copy To: SCOTT C. FEDAK

Purchase Order No.:

Project Name: BRIDGETON LANDFILL

Project Number:

Section C

Invoice Information:

Attention:

Company Name: REPUBLIC SERVICES

Address:

Pace Quote Reference: 130426_7588

Pace Project Manager: Angie Brown 913-563-1402

Pace Profile #: 6787 line 2

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location

STATE: MO

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)											Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.					
						Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	COD 410	pH SM 4500H+B			LF Dis. Metals 200.7/245 Z	total Metals 200.7/245*	Ammonia EPA 350	Oil/Grease EPA 1664	625 SVOCs
1	SDHau 121-MSD 2 Agilt, 3 Agilt	OT G	DATE: 5/16/13 TIME: 0737	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	60144971	1893540 *Metals list: 001
2	20Hau TRIP BLANK			2	✓																		Al,Sb,As,Be,Cd,Cr 002
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>Wally Abernathy</i>	5/17/13	1356	<i>Wally Abernathy</i>	5/17	1356				
SITE ADDRESS: BRIDGETON LF				E. Brockett Pace	5/17	0300	0.8	Y	Y	Y
13570 ST. CHARLES ROCK RD					5/18					
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: *WILLIAM ABERNATHY*

SIGNATURE of SAMPLER: *Wally Abernathy*

DATE Signed (MM/DD/YY): 5/16/13

Temp in °C

Received on ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

Page 31 of 32

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

May 24, 2013

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

RE: Project: BRIDGETON LF 128-MSD
Pace Project No.: 60144974

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 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 128-MSD

Pace Project No.: 60144974

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 128-MSD

Pace Project No.: 60144974

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60144974001	128-MSD	Water	05/17/13 06:16	05/18/13 03:00
60144974002	TRIP BLANK	Water	05/17/13 00:00	05/18/13 03:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60144974001	128-MSD	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	PRG	38
		EPA 1664A	JMC1	1
		SM 2540D	RAS	1
		SM 4500-H+B	JML	1
		SM 5210B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
		60144974002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

Sample: 128-MSD		Lab ID: 60144974001	Collected: 05/17/13 06:16	Received: 05/18/13 03:00	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	5050 ug/L		150	2	05/20/13 17:20	05/21/13 13:13	7429-90-5	
Antimony	29.4 ug/L		20.0	2	05/20/13 17:20	05/21/13 13:13	7440-36-0	
Arsenic	512 ug/L		20.0	2	05/20/13 17:20	05/21/13 13:13	7440-38-2	
Beryllium	ND ug/L		2.0	2	05/20/13 17:20	05/21/13 13:13	7440-41-7	D3
Cadmium	ND ug/L		10.0	2	05/20/13 17:20	05/21/13 13:13	7440-43-9	D3
Chromium	215 ug/L		10.0	2	05/20/13 17:20	05/21/13 13:13	7440-47-3	
Cobalt	28.4 ug/L		10.0	2	05/20/13 17:20	05/21/13 13:13	7440-48-4	
Copper	ND ug/L		20.0	2	05/20/13 17:20	05/21/13 13:13	7440-50-8	D3
Iron	689000 ug/L		100	2	05/20/13 17:20	05/21/13 13:13	7439-89-6	
Lead	137 ug/L		10.0	2	05/20/13 17:20	05/21/13 13:13	7439-92-1	
Nickel	83.0 ug/L		10.0	2	05/20/13 17:20	05/21/13 13:13	7440-02-0	
Selenium	ND ug/L		30.0	2	05/20/13 17:20	05/21/13 13:13	7782-49-2	D3
Silver	ND ug/L		14.0	2	05/20/13 17:20	05/21/13 13:13	7440-22-4	D3
Thallium	ND ug/L		40.0	2	05/20/13 17:20	05/21/13 13:13	7440-28-0	D3
Zinc	14100 ug/L		100	2	05/20/13 17:20	05/21/13 13:13	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	4700 ug/L		150	2	05/21/13 18:25	05/23/13 12:23	7429-90-5	
Antimony, Dissolved	35.2 ug/L		20.0	2	05/21/13 18:25	05/23/13 12:23	7440-36-0	D9
Arsenic, Dissolved	590 ug/L		20.0	2	05/21/13 18:25	05/23/13 12:23	7440-38-2	D9
Beryllium, Dissolved	ND ug/L		2.0	2	05/21/13 18:25	05/23/13 12:23	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		10.0	2	05/21/13 18:25	05/23/13 12:23	7440-43-9	D3
Chromium, Dissolved	251 ug/L		15.0	3	05/21/13 18:25	05/23/13 12:48	7440-47-3	D9
Cobalt, Dissolved	29.0 ug/L		10.0	2	05/21/13 18:25	05/23/13 12:23	7440-48-4	D9
Copper, Dissolved	ND ug/L		20.0	2	05/21/13 18:25	05/23/13 12:23	7440-50-8	D3
Iron, Dissolved	713000 ug/L		100	2	05/21/13 18:25	05/23/13 12:23	7439-89-6	
Lead, Dissolved	114 ug/L		10.0	2	05/21/13 18:25	05/23/13 12:23	7439-92-1	
Nickel, Dissolved	98.7 ug/L		10.0	2	05/21/13 18:25	05/23/13 12:23	7440-02-0	D9
Selenium, Dissolved	58.8 ug/L		45.0	3	05/21/13 18:25	05/23/13 12:48	7782-49-2	D9
Silver, Dissolved	ND ug/L		14.0	2	05/21/13 18:25	05/23/13 12:23	7440-22-4	D3
Thallium, Dissolved	ND ug/L		60.0	3	05/21/13 18:25	05/23/13 12:48	7440-28-0	D3
Zinc, Dissolved	15700 ug/L		100	2	05/21/13 18:25	05/23/13 12:23	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	0.71 ug/L		0.20	1	05/20/13 13:30	05/20/13 17:00	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	05/21/13 11:40	05/21/13 14:55	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:25	83-32-9	
Acenaphthylene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:25	208-96-8	
Anthracene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:25	120-12-7	
Benzidine	ND ug/L		25000	50	05/21/13 00:00	05/22/13 11:25	92-87-5	
Benzo(a)anthracene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:25	56-55-3	
Benzo(a)pyrene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:25	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

Sample: 128-MSD		Lab ID: 60144974001	Collected: 05/17/13 06:16	Received: 05/18/13 03:00	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	2500	50	05/21/13 00:00	05/22/13 11:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	207-08-9	
4-Bromophenylphenyl ether	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	101-55-3	
Butylbenzylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	59-50-7	
bis(2-Chloroethoxy)methane	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	3000	50	05/21/13 00:00	05/22/13 11:25	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	3000	50	05/21/13 00:00	05/22/13 11:25	39638-32-9	
2-Chloronaphthalene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	91-58-7	
2-Chlorophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	7005-72-3	
Chrysene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	53-70-3	
3,3'-Dichlorobenzidine	ND	ug/L	10000	50	05/21/13 00:00	05/22/13 11:25	91-94-1	
2,4-Dichlorophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	120-83-2	
Diethylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	84-66-2	
2,4-Dimethylphenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	105-67-9	
Dimethylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	131-11-3	
Di-n-butylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	12500	50	05/21/13 00:00	05/22/13 11:25	534-52-1	
2,4-Dinitrophenol	ND	ug/L	25000	50	05/21/13 00:00	05/22/13 11:25	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	3000	50	05/21/13 00:00	05/22/13 11:25	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	606-20-2	
Di-n-octylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	117-81-7	
Fluoranthene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	206-44-0	
Fluorene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	87-68-3	
Hexachlorobenzene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	77-47-4	
Hexachloroethane	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	193-39-5	
Isophorone	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	78-59-1	
Naphthalene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	91-20-3	
Nitrobenzene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	98-95-3	
2-Nitrophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	88-75-5	
4-Nitrophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	86-30-6	
Pentachlorophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	87-86-5	
Phenanthrene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	85-01-8	
Phenol	12900	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	108-95-2	
Pyrene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:25	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

Sample: 128-MSD		Lab ID: 60144974001	Collected: 05/17/13 06:16	Received: 05/18/13 03:00	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	50	05/21/13 00:00	05/22/13 11:25	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	50	05/21/13 00:00	05/22/13 11:25	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	50	05/21/13 00:00	05/22/13 11:25	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	50	05/21/13 00:00	05/22/13 11:25	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	50	05/21/13 00:00	05/22/13 11:25	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	50	05/21/13 00:00	05/22/13 11:25	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		05/20/13 14:23	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/20/13 14:23	75-27-4	
Bromoform	ND ug/L		200	200		05/20/13 14:23	75-25-2	
Bromomethane	ND ug/L		1000	200		05/20/13 14:23	74-83-9	L3
Carbon tetrachloride	ND ug/L		200	200		05/20/13 14:23	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/20/13 14:23	108-90-7	
Chloroethane	ND ug/L		200	200		05/20/13 14:23	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/20/13 14:23	110-75-8	
Chloroform	ND ug/L		200	200		05/20/13 14:23	67-66-3	
Chloromethane	ND ug/L		200	200		05/20/13 14:23	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/20/13 14:23	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/20/13 14:23	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/20/13 14:23	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/20/13 14:23	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/20/13 14:23	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/20/13 14:23	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/20/13 14:23	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/20/13 14:23	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/20/13 14:23	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/20/13 14:23	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/20/13 14:23	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/20/13 14:23	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/20/13 14:23	100-41-4	
Methylene chloride	ND ug/L		200	200		05/20/13 14:23	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/20/13 14:23	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/20/13 14:23	127-18-4	
Toluene	ND ug/L		200	200		05/20/13 14:23	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/20/13 14:23	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/20/13 14:23	79-00-5	
Trichloroethene	ND ug/L		200	200		05/20/13 14:23	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/20/13 14:23	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/20/13 14:23	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/20/13 14:23	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	101 %		80-120	200		05/20/13 14:23	1868-53-7	D3
4-Bromofluorobenzene (S)	101 %		80-120	200		05/20/13 14:23	460-00-4	
Toluene-d8 (S)	100 %		80-120	200		05/20/13 14:23	2037-26-5	
1,2-Dichloroethane-d4 (S)	103 %		80-120	200		05/20/13 14:23	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

Sample: 128-MSD		Lab ID: 60144974001	Collected: 05/17/13 06:16	Received: 05/18/13 03:00	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		05/20/13 14:23		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	30.6	mg/L	5.0	1		05/20/13 12:26		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	1150	mg/L	5.0	1		05/20/13 09:55		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.5	Std. Units	0.10	1		05/18/13 12:45		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	27800	mg/L	2.0	1	05/18/13 11:09	05/23/13 13:16		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	568	mg/L	20.0	200		05/23/13 12:27	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	45400	mg/L	5000	500		05/24/13 07:47		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

Sample: TRIP BLANK		Lab ID: 60144974002	Collected: 05/17/13 00:00	Received: 05/18/13 03:00	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		05/20/13 11:28	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		05/20/13 11:28	75-27-4	
Bromoform	ND ug/L		1.0	1		05/20/13 11:28	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/20/13 11:28	74-83-9	L3
Carbon tetrachloride	ND ug/L		1.0	1		05/20/13 11:28	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/20/13 11:28	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/20/13 11:28	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		05/20/13 11:28	110-75-8	
Chloroform	ND ug/L		1.0	1		05/20/13 11:28	67-66-3	
Chloromethane	ND ug/L		1.0	1		05/20/13 11:28	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		05/20/13 11:28	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/20/13 11:28	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/20/13 11:28	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/20/13 11:28	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		05/20/13 11:28	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/20/13 11:28	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/20/13 11:28	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/20/13 11:28	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/20/13 11:28	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		05/20/13 11:28	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		05/20/13 11:28	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		05/20/13 11:28	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		05/20/13 11:28	100-41-4	
Methylene chloride	ND ug/L		1.0	1		05/20/13 11:28	75-09-2	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		05/20/13 11:28	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/20/13 11:28	127-18-4	
Toluene	ND ug/L		1.0	1		05/20/13 11:28	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/20/13 11:28	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/20/13 11:28	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/20/13 11:28	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/20/13 11:28	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		05/20/13 11:28	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/20/13 11:28	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98 %		80-120	1		05/20/13 11:28	1868-53-7	
4-Bromofluorobenzene (S)	98 %		80-120	1		05/20/13 11:28	460-00-4	
Toluene-d8 (S)	102 %		80-120	1		05/20/13 11:28	2037-26-5	
1,2-Dichloroethane-d4 (S)	94 %		80-120	1		05/20/13 11:28	17060-07-0	
Preservation pH	7.0		1.0	1		05/20/13 11:28		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 128-MSD
Pace Project No.: 60144974

QC Batch: MERP/7360 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60144974001

METHOD BLANK: 1190456 Matrix: Water
Associated Lab Samples: 60144974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/20/13 15:28	

LABORATORY CONTROL SAMPLE: 1190457

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1190458 1190459

Parameter	Units	60144731001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Mercury	ug/L	ND	5	5	4.6	4.6	92	92	70-130	0	20	

MATRIX SPIKE SAMPLE: 1190460

Parameter	Units	60144771001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.6	93	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

QC Batch: MERP/7361

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60144974001

METHOD BLANK: 1190910

Matrix: Water

Associated Lab Samples: 60144974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/21/13 14:32	

LABORATORY CONTROL SAMPLE: 1190911

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1190912

1190913

Parameter	Units	60144888001 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	0.71	0.68	14	14	70-130	4	20	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 128-MSD
Pace Project No.: 60144974

QC Batch: MPRP/22732 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60144974001

METHOD BLANK: 1190703 Matrix: Water
Associated Lab Samples: 60144974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	05/21/13 12:58	
Antimony	ug/L	ND	10.0	05/21/13 12:58	
Arsenic	ug/L	ND	10.0	05/21/13 12:58	
Beryllium	ug/L	ND	1.0	05/21/13 12:58	
Cadmium	ug/L	ND	5.0	05/21/13 12:58	
Chromium	ug/L	ND	5.0	05/21/13 12:58	
Cobalt	ug/L	ND	5.0	05/21/13 12:58	
Copper	ug/L	ND	10.0	05/21/13 12:58	
Iron	ug/L	ND	50.0	05/21/13 12:58	
Lead	ug/L	ND	5.0	05/21/13 12:58	
Nickel	ug/L	ND	5.0	05/21/13 12:58	
Selenium	ug/L	ND	15.0	05/21/13 12:58	
Silver	ug/L	ND	7.0	05/21/13 12:58	
Thallium	ug/L	ND	20.0	05/21/13 12:58	
Zinc	ug/L	ND	50.0	05/21/13 12:58	

LABORATORY CONTROL SAMPLE: 1190704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9810	98	85-115	
Antimony	ug/L	1000	1000	100	85-115	
Arsenic	ug/L	1000	998	100	85-115	
Beryllium	ug/L	1000	998	100	85-115	
Cadmium	ug/L	1000	993	99	85-115	
Chromium	ug/L	1000	939	94	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	962	96	85-115	
Iron	ug/L	10000	9460	95	85-115	
Lead	ug/L	1000	995	99	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	984	98	85-115	
Silver	ug/L	500	477	95	85-115	
Thallium	ug/L	1000	1060	106	85-115	
Zinc	ug/L	1000	998	100	85-115	

SAMPLE DUPLICATE: 1190705

Parameter	Units	60144732001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	5640	6410	13	20	
Antimony	ug/L	27.2	37.9	33	20 D6	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

SAMPLE DUPLICATE: 1190705

Parameter	Units	60144732001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	610	652	7	20	
Beryllium	ug/L	ND	ND		20	D3
Cadmium	ug/L	ND	ND		20	D3
Chromium	ug/L	212	226	7	20	
Cobalt	ug/L	36.3	42.7	16	20	
Copper	ug/L	ND	18.9J		20	D3
Iron	ug/L	740000	793000	7	20	
Lead	ug/L	172	179	4	20	
Nickel	ug/L	95.9	108	12	20	
Selenium	ug/L	ND	ND		20	D3
Silver	ug/L	ND	8.6J		20	D3
Thallium	ug/L	ND	ND		20	D3
Zinc	ug/L	14000	15000	7	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 128-MSD
Pace Project No.: 60144974

QC Batch: MPRP/22761 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60144974001

METHOD BLANK: 1191307 Matrix: Water
Associated Lab Samples: 60144974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	05/23/13 12:04	
Antimony, Dissolved	ug/L	ND	10.0	05/23/13 12:04	
Arsenic, Dissolved	ug/L	ND	10.0	05/23/13 12:04	
Beryllium, Dissolved	ug/L	ND	1.0	05/23/13 12:04	
Cadmium, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Chromium, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Cobalt, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Copper, Dissolved	ug/L	ND	10.0	05/23/13 12:04	
Iron, Dissolved	ug/L	ND	50.0	05/23/13 12:04	
Lead, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Nickel, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Selenium, Dissolved	ug/L	ND	15.0	05/23/13 12:04	
Silver, Dissolved	ug/L	ND	7.0	05/23/13 12:04	
Thallium, Dissolved	ug/L	ND	20.0	05/23/13 12:04	
Zinc, Dissolved	ug/L	ND	50.0	05/23/13 12:04	

LABORATORY CONTROL SAMPLE: 1191308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10300	103	85-115	
Antimony, Dissolved	ug/L	1000	1010	101	85-115	
Arsenic, Dissolved	ug/L	1000	994	99	85-115	
Beryllium, Dissolved	ug/L	1000	992	99	85-115	
Cadmium, Dissolved	ug/L	1000	1000	100	85-115	
Chromium, Dissolved	ug/L	1000	998	100	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	984	98	85-115	
Iron, Dissolved	ug/L	10000	9690	97	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1020	102	85-115	
Silver, Dissolved	ug/L	500	492	98	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	1030	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1191309 1191310

Parameter	Units	60144838009 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	9980	10400	100	104	70-130	4	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

Parameter	60144838009		MS		MSD		MS		MSD		Max	
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	% Rec	% Rec	Limits	RPD
Antimony, Dissolved	ug/L	ND	1000	1000	980	1030	98	103	70-130	5	7	
Arsenic, Dissolved	ug/L	ND	1000	1000	970	1010	97	101	70-130	4	10	
Beryllium, Dissolved	ug/L	ND	1000	1000	960	998	96	100	70-130	4	7	
Cadmium, Dissolved	ug/L	ND	1000	1000	966	1010	97	101	70-130	4	10	
Chromium, Dissolved	ug/L	ND	1000	1000	951	994	95	99	70-130	4	10	
Cobalt, Dissolved	ug/L	ND	1000	1000	966	1010	97	101	70-130	4	6	
Copper, Dissolved	ug/L	ND	1000	1000	952	988	94	98	70-130	4	11	
Iron, Dissolved	ug/L	ND	10000	10000	9400	9720	94	97	70-130	3	10	
Lead, Dissolved	ug/L	ND	1000	1000	964	1000	96	100	70-130	4	10	
Nickel, Dissolved	ug/L	ND	1000	1000	974	1020	97	101	70-130	4	10	
Selenium, Dissolved	ug/L	ND	1000	1000	992	1040	99	104	70-130	5	10	
Silver, Dissolved	ug/L	ND	500	500	477	495	95	99	70-130	4	10	
Thallium, Dissolved	ug/L	ND	1000	1000	980	1020	98	102	70-130	4	6	
Zinc, Dissolved	ug/L	376	1000	1000	1330	1380	96	100	70-130	3	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

QC Batch: MSV/53776 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60144974001, 60144974002

METHOD BLANK: 1190357 Matrix: Water

Associated Lab Samples: 60144974001, 60144974002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/20/13 09:03	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/20/13 09:03	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/20/13 09:03	
1,1-Dichloroethane	ug/L	ND	1.0	05/20/13 09:03	
1,1-Dichloroethene	ug/L	ND	1.0	05/20/13 09:03	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/20/13 09:03	
1,2-Dichloroethane	ug/L	ND	1.0	05/20/13 09:03	
1,2-Dichloropropane	ug/L	ND	1.0	05/20/13 09:03	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/20/13 09:03	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/20/13 09:03	
2-Chloroethylvinyl ether	ug/L	ND	10.0	05/20/13 09:03	
Benzene	ug/L	ND	1.0	05/20/13 09:03	
Bromodichloromethane	ug/L	ND	1.0	05/20/13 09:03	
Bromoform	ug/L	ND	1.0	05/20/13 09:03	
Bromomethane	ug/L	ND	5.0	05/20/13 09:03	
Carbon tetrachloride	ug/L	ND	1.0	05/20/13 09:03	
Chlorobenzene	ug/L	ND	1.0	05/20/13 09:03	
Chloroethane	ug/L	ND	1.0	05/20/13 09:03	
Chloroform	ug/L	ND	1.0	05/20/13 09:03	
Chloromethane	ug/L	ND	1.0	05/20/13 09:03	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/20/13 09:03	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/20/13 09:03	
Dibromochloromethane	ug/L	ND	1.0	05/20/13 09:03	
Ethylbenzene	ug/L	ND	1.0	05/20/13 09:03	
Methylene chloride	ug/L	ND	1.0	05/20/13 09:03	
Tetrachloroethene	ug/L	ND	1.0	05/20/13 09:03	
Toluene	ug/L	ND	1.0	05/20/13 09:03	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/20/13 09:03	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/20/13 09:03	
Trichloroethene	ug/L	ND	1.0	05/20/13 09:03	
Trichlorofluoromethane	ug/L	ND	1.0	05/20/13 09:03	
Vinyl chloride	ug/L	ND	1.0	05/20/13 09:03	
Xylene (Total)	ug/L	ND	3.0	05/20/13 09:03	
1,2-Dichloroethane-d4 (S)	%	93	80-120	05/20/13 09:03	
4-Bromofluorobenzene (S)	%	100	80-120	05/20/13 09:03	
Dibromofluoromethane (S)	%	97	80-120	05/20/13 09:03	
Toluene-d8 (S)	%	101	80-120	05/20/13 09:03	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

LABORATORY CONTROL SAMPLE: 1190358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	24.0	120	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	21.6	108	59-138	
1,1,2-Trichloroethane	ug/L	20	22.2	111	69-127	
1,1-Dichloroethane	ug/L	20	21.2	106	69-126	
1,1-Dichloroethene	ug/L	20	23.5	117	65-153	
1,2-Dichlorobenzene	ug/L	20	22.4	112	66-126	
1,2-Dichloroethane	ug/L	20	22.9	115	71-129	
1,2-Dichloropropane	ug/L	20	23.8	119	66-140	
1,3-Dichlorobenzene	ug/L	20	22.3	111	63-127	
1,4-Dichlorobenzene	ug/L	20	22.2	111	68-124	
2-Chloroethylvinyl ether	ug/L	20	25.1	125	33-159	
Benzene	ug/L	20	23.4	117	73-129	
Bromodichloromethane	ug/L	20	23.0	115	63-129	
Bromoform	ug/L	20	21.6	108	52-123	
Bromomethane	ug/L	20	35.8	179	10-160	L0
Carbon tetrachloride	ug/L	20	23.9	120	70-140	
Chlorobenzene	ug/L	20	22.9	114	68-127	
Chloroethane	ug/L	20	20.5	102	42-160	
Chloroform	ug/L	20	22.8	114	60-120	
Chloromethane	ug/L	20	22.7	114	10-160	
cis-1,2-Dichloroethene	ug/L	20	23.9	120	70-125	
cis-1,3-Dichloropropene	ug/L	20	23.2	116	66-132	
Dibromochloromethane	ug/L	20	22.8	114	63-134	
Ethylbenzene	ug/L	20	23.7	118	66-133	
Methylene chloride	ug/L	20	21.3	106	56-135	
Tetrachloroethene	ug/L	20	23.6	118	64-143	
Toluene	ug/L	20	24.0	120	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.4	112	67-149	
trans-1,3-Dichloropropene	ug/L	20	25.1	126	66-138	
Trichloroethene	ug/L	20	22.3	111	71-130	
Trichlorofluoromethane	ug/L	20	20.4	102	58-158	
Vinyl chloride	ug/L	20	20.5	102	41-160	
Xylene (Total)	ug/L	60	71.2	119	67-130	
1,2-Dichloroethane-d4 (S)	%			95	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Dibromofluoromethane (S)	%			96	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE SAMPLE: 1190359

Parameter	Units	60144594001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	20	21.6	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.6	103	46-157	
1,1,2-Trichloroethane	ug/L	ND	20	18.8	94	52-150	
1,1-Dichloroethane	ug/L	ND	20	18.5	93	59-155	
1,1-Dichloroethene	ug/L	ND	20	21.0	105	14-160	
1,2-Dichlorobenzene	ug/L	ND	20	18.1	90	18-145	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

MATRIX SPIKE SAMPLE:		1190359		60144594001		Spike	MS	MS	% Rec	Qualifiers
Parameter	Units	Result	Conc.	Result	% Rec	Result	% Rec	Limits		
1,2-Dichloroethane	ug/L	ND	20	20.0	100			49-155		
1,2-Dichloropropane	ug/L	ND	20	19.9	99			12-160		
1,3-Dichlorobenzene	ug/L	ND	20	17.5	87			59-146		
1,4-Dichlorobenzene	ug/L	ND	20	18.1	90			18-147		
2-Chloroethylvinyl ether	ug/L	ND	20	22.8	114			10-160		
Benzene	ug/L	ND	20	19.9	100			37-151		
Bromodichloromethane	ug/L	ND	20	19.6	96			35-155		
Bromoform	ug/L	4.0	20	25.1	105			45-133		
Bromomethane	ug/L	ND	20	29.5	148			10-160		
Carbon tetrachloride	ug/L	ND	20	21.6	108			70-140		
Chlorobenzene	ug/L	ND	20	18.9	94			37-153		
Chloroethane	ug/L	ND	20	17.8	89			14-160		
Chloroform	ug/L	1.3	20	20.3	95			51-138		
Chloromethane	ug/L	ND	20	17.8	89			10-160		
cis-1,2-Dichloroethene	ug/L	ND	20	19.7	99			19-160		
cis-1,3-Dichloropropene	ug/L	ND	20	19.1	96			10-160		
Dibromochloromethane	ug/L	ND	20	20.0	97			53-149		
Ethylbenzene	ug/L	ND	20	19.4	97			37-154		
Methylene chloride	ug/L	ND	20	18.5	92			15-156		
Tetrachloroethene	ug/L	ND	20	19.8	99			64-148		
Toluene	ug/L	ND	20	20.4	102			47-150		
trans-1,2-Dichloroethene	ug/L	ND	20	19.9	99			54-156		
trans-1,3-Dichloropropene	ug/L	ND	20	21.0	105			17-160		
Trichloroethene	ug/L	ND	20	19.3	97			71-157		
Trichlorofluoromethane	ug/L	ND	20	18.1	91			17-160		
Vinyl chloride	ug/L	ND	20	17.9	90			10-160		
Xylene (Total)	ug/L			57.8						
1,2-Dichloroethane-d4 (S)	%				101			80-120		
4-Bromofluorobenzene (S)	%				102			80-120		
Dibromofluoromethane (S)	%				97			80-120		
Toluene-d8 (S)	%				100			80-120		
Preservation pH			7.0			7.0				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

QC Batch: OEXT/38482

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60144974001

METHOD BLANK: 1190739

Matrix: Water

Associated Lab Samples: 60144974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/22/13 09:41	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/22/13 09:41	
2,4-Dichlorophenol	ug/L	ND	5.0	05/22/13 09:41	
2,4-Dimethylphenol	ug/L	ND	5.0	05/22/13 09:41	
2,4-Dinitrophenol	ug/L	ND	50.0	05/22/13 09:41	
2,4-Dinitrotoluene	ug/L	ND	6.0	05/22/13 09:41	
2,6-Dinitrotoluene	ug/L	ND	5.0	05/22/13 09:41	
2-Chloronaphthalene	ug/L	ND	5.0	05/22/13 09:41	
2-Chlorophenol	ug/L	ND	5.0	05/22/13 09:41	
2-Nitrophenol	ug/L	ND	5.0	05/22/13 09:41	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	05/22/13 09:41	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/22/13 09:41	
4-Bromophenylphenyl ether	ug/L	ND	5.0	05/22/13 09:41	
4-Chloro-3-methylphenol	ug/L	ND	5.0	05/22/13 09:41	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	05/22/13 09:41	
4-Nitrophenol	ug/L	ND	5.0	05/22/13 09:41	
Acenaphthene	ug/L	ND	5.0	05/22/13 09:41	
Acenaphthylene	ug/L	ND	5.0	05/22/13 09:41	
Anthracene	ug/L	ND	5.0	05/22/13 09:41	
Benzidine	ug/L	ND	50.0	05/22/13 09:41	
Benzo(a)anthracene	ug/L	ND	5.0	05/22/13 09:41	
Benzo(a)pyrene	ug/L	ND	5.0	05/22/13 09:41	
Benzo(b)fluoranthene	ug/L	ND	5.0	05/22/13 09:41	
Benzo(g,h,i)perylene	ug/L	ND	5.0	05/22/13 09:41	
Benzo(k)fluoranthene	ug/L	ND	5.0	05/22/13 09:41	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	05/22/13 09:41	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	05/22/13 09:41	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	05/22/13 09:41	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	05/22/13 09:41	
Butylbenzylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Chrysene	ug/L	ND	5.0	05/22/13 09:41	
Di-n-butylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Di-n-octylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Dibenz(a,h)anthracene	ug/L	ND	5.0	05/22/13 09:41	
Diethylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Dimethylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Fluoranthene	ug/L	ND	5.0	05/22/13 09:41	
Fluorene	ug/L	ND	5.0	05/22/13 09:41	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/22/13 09:41	
Hexachlorobenzene	ug/L	ND	5.0	05/22/13 09:41	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/22/13 09:41	
Hexachloroethane	ug/L	ND	5.0	05/22/13 09:41	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	05/22/13 09:41	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 128-MSD
Project No.: 60144974

METHOD BLANK: 1190739 Matrix: Water

Associated Lab Samples: 60144974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	05/22/13 09:41	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	05/22/13 09:41	
N-Nitrosodimethylamine	ug/L	ND	5.0	05/22/13 09:41	
N-Nitrosodiphenylamine	ug/L	ND	5.0	05/22/13 09:41	
Naphthalene	ug/L	ND	5.0	05/22/13 09:41	
Nitrobenzene	ug/L	ND	5.0	05/22/13 09:41	
Pentachlorophenol	ug/L	ND	5.0	05/22/13 09:41	
Phenanthrene	ug/L	ND	5.0	05/22/13 09:41	
Phenol	ug/L	ND	5.0	05/22/13 09:41	
Pyrene	ug/L	ND	5.0	05/22/13 09:41	
2,4,6-Tribromophenol (S)	%	95	39-119	05/22/13 09:41	
2-Fluorobiphenyl (S)	%	83	36-120	05/22/13 09:41	
2-Fluorophenol (S)	%	51	18-120	05/22/13 09:41	
Nitrobenzene-d5 (S)	%	82	32-120	05/22/13 09:41	
Phenol-d6 (S)	%	33	12-120	05/22/13 09:41	
Terphenyl-d14 (S)	%	89	44-120	05/22/13 09:41	

LABORATORY CONTROL SAMPLE: 1190740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	34.0	68	44-120	
2,4,6-Trichlorophenol	ug/L	50	39.0	78	48-120	
2,4-Dichlorophenol	ug/L	50	37.0	74	48-120	
2,4-Dimethylphenol	ug/L	50	35.0	70	37-119	
2,4-Dinitrophenol	ug/L	50	40.1J	80	15-153	
2,4-Dinitrotoluene	ug/L	50	41.0	82	54-120	
2,6-Dinitrotoluene	ug/L	50	40.1	80	52-120	
2-Chloronaphthalene	ug/L	50	35.7	71	60-118	
2-Chlorophenol	ug/L	50	34.6	69	44-120	
2-Nitrophenol	ug/L	50	39.6	79	43-120	
3,3'-Dichlorobenzidine	ug/L	50	43.0	86	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	43.0	86	31-147	
4-Bromophenylphenyl ether	ug/L	50	37.2	74	53-120	
4-Chloro-3-methylphenol	ug/L	50	39.8	80	50-120	
4-Chlorophenylphenyl ether	ug/L	50	37.3	75	54-120	
4-Nitrophenol	ug/L	50	17.0	34	10-120	
Acenaphthene	ug/L	50	36.5	73	51-120	
Acenaphthylene	ug/L	50	36.5	73	51-120	
Anthracene	ug/L	50	38.1	76	54-120	
Benzidine	ug/L	50	36.5J	73	1-124	
Benzo(a)anthracene	ug/L	50	38.5	77	54-120	
Benzo(a)pyrene	ug/L	50	37.7	75	54-120	
Benzo(b)fluoranthene	ug/L	50	39.5	79	57-120	
Benzo(g,h,i)perylene	ug/L	50	41.2	82	54-120	
Benzo(k)fluoranthene	ug/L	50	35.8	72	52-121	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

LABORATORY CONTROL SAMPLE: 1190740

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	35.0	70	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	36.4	73	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	44.8	90	51-126	
Butylbenzylphthalate	ug/L	50	45.7	91	45-129	
Chrysene	ug/L	50	38.4	77	54-120	
Di-n-butylphthalate	ug/L	50	42.0	84	57-118	
Di-n-octylphthalate	ug/L	50	47.0	94	48-130	
Dibenz(a,h)anthracene	ug/L	50	40.2	80	56-119	
Diethylphthalate	ug/L	50	39.2	78	55-114	
Dimethylphthalate	ug/L	50	38.4	77	54-112	
Fluoranthene	ug/L	50	39.7	79	56-120	
Fluorene	ug/L	50	37.8	76	59-120	
Hexachloro-1,3-butadiene	ug/L	50	33.6	67	41-116	
Hexachlorobenzene	ug/L	50	37.6	75	53-120	
Hexachlorocyclopentadiene	ug/L	100	58.7	59	31-120	
Hexachloroethane	ug/L	50	32.3	65	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	39.6	79	55-120	
Isophorone	ug/L	50	37.5	75	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	37.1	74	47-120	
N-Nitrosodimethylamine	ug/L	50	22.1	44	28-120	
N-Nitrosodiphenylamine	ug/L	50	37.8	76	53-120	
Naphthalene	ug/L	50	35.1	70	48-120	
Nitrobenzene	ug/L	50	35.8	72	47-120	
Pentachlorophenol	ug/L	50	39.8	80	43-127	
Phenanthrene	ug/L	50	37.5	75	55-120	
Phenol	ug/L	50	15.9	32	15-112	
Pyrene	ug/L	50	39.1	78	55-115	
2,4,6-Tribromophenol (S)	%			82	39-119	
2-Fluorobiphenyl (S)	%			70	36-120	
2-Fluorophenol (S)	%			44	18-120	
Nitrobenzene-d5 (S)	%			70	32-120	M4
Phenol-d6 (S)	%			29	12-120	
Terphenyl-d14 (S)	%			78	44-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

QC Batch: WET/41366

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60144974001

METHOD BLANK: 1190496

Matrix: Water

Associated Lab Samples: 60144974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	05/20/13 12:19	

LABORATORY CONTROL SAMPLE: 1190497

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	35.3	88	78-114	

MATRIX SPIKE SAMPLE: 1190500

Parameter	Units	60144427001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	30.9	40.8	71.9	100	78-114	

SAMPLE DUPLICATE: 1190501

Parameter	Units	60144430001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	52.3	30.8	52	18	D6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

QC Batch: WET/41362

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60144974001

METHOD BLANK: 1190372

Matrix: Water

Associated Lab Samples: 60144974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/20/13 09:50	

SAMPLE DUPLICATE: 1190373

Parameter	Units	60144857001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	42.0	40.0	5	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

QC Batch: WET/41349 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60144974001

SAMPLE DUPLICATE: 1190112

Parameter	Units	60144971001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.5	5.5	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

QC Batch: WET/41348

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60144974001

METHOD BLANK: 1189835

Matrix: Water

Associated Lab Samples: 60144974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/23/13 12:55	

LABORATORY CONTROL SAMPLE: 1189836

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

SAMPLE DUPLICATE: 1189837

Parameter	Units	60144838003 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	127	74.4	52	17	D6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 128-MSD
Pace Project No.: 60144974

QC Batch: WETA/24806 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60144974001

METHOD BLANK: 1192313 Matrix: Water
Associated Lab Samples: 60144974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/23/13 12:23	

LABORATORY CONTROL SAMPLE: 1192314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	1.9	97	90-110	

MATRIX SPIKE SAMPLE: 1192315

Parameter	Units	60144695001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.6	82	90-110	M1

MATRIX SPIKE SAMPLE: 1192316

Parameter	Units	60144700001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.13	2	1.9	87	90-110	M1

SAMPLE DUPLICATE: 1192317

Parameter	Units	60144708001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.25	0.24	3	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

QC Batch: WETA/24794 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60144974001

METHOD BLANK: 1191501 Matrix: Water

Associated Lab Samples: 60144974001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/24/13 07:44	

LABORATORY CONTROL SAMPLE: 1191502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	46.4	93	90-110	

MATRIX SPIKE SAMPLE: 1191503

Parameter	Units	60144544001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	61.0	50	105	87	90-110	M1

MATRIX SPIKE SAMPLE: 1191505

Parameter	Units	60144837002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	57.4	50	104	93	90-110	

SAMPLE DUPLICATE: 1191504

Parameter	Units	60144743001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	10100	10200	1	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 128-MSD

Pace Project No.: 60144974

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
- D9 Dissolved result is greater than the total. Data is within laboratory control limits.
- H6 Analysis initiated outside of the 15 minute EPA recommended holding time.
- L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- 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.
- M4 A matrix spike/matrix spike duplicate was not performed for this batch due to sample dilution.
- 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 128-MSD

Pace Project No.: 60144974

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60144974001	128-MSD	EPA 200.7	MPRP/22732	EPA 200.7	ICP/18001
60144974001	128-MSD	EPA 200.7	MPRP/22761	EPA 200.7	ICP/18014
60144974001	128-MSD	EPA 245.1	MERP/7360	EPA 245.1	MERC/7318
60144974001	128-MSD	EPA 245.1	MERP/7361	EPA 245.1	MERC/7319
60144974001	128-MSD	EPA 625	OEXT/38482	EPA 625	MSSV/12167
60144974001	128-MSD	EPA 624 Low	MSV/53776		
60144974002	TRIP BLANK	EPA 624 Low	MSV/53776		
60144974001	128-MSD	EPA 1664A	WET/41366		
60144974001	128-MSD	SM 2540D	WET/41362		
60144974001	128-MSD	SM 4500-H+B	WET/41349		
60144974001	128-MSD	SM 5210B	WET/41348	SM 5210B	WET/41462
60144974001	128-MSD	EPA 350.1	WETA/24806		
60144974001	128-MSD	EPA 410.4	WETA/24794		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60144974



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 2pk

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

Cooler Temperature: 2.6

Date and initials of person examining contents: 5/18/13

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>300</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>OT</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: Date: 5/18/13



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: <u>1</u> of <u>1</u>	
Company: BARR ENGINEERING		Report To: ED GALBRAITH		Attention:		REGULATORY AGENCY	
Address:		Copy To: SCOTT C. FEDAK		Company Name: REPUBLIC SERVICES			
Email To:		Purchase Order No.:		Pace Quote Reference: 130426_7588		Site Location MO	
Phone: Fax:		Project Name: BRIDGETON LANDFILL		Pace Project Manager: Angie Brown 913-563-1402			
Requested Due Date/TAT:		Project Number:		Pace Profile #: 6787 line 2			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOILSOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Y/N	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 ↓	COD 410	pH SM 4500H+B
1	SOTAWDR-MSD 2 Ag14, 3 Ag14		OT	G	1BP3U	5/17/13	0616	14	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	1BP3U	60144974	Pace Project No./ Lab I.D.
2	2XAL TRIP BLANK							2	✓															1BP35	*Metals list: 001
3																									Al,Sb,As,Be,Cd,Cr 002
4																									Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn
5																									and Mercury

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
SITE CONTACT: BILL ABERNATHY 314-502-1299	<i>[Signature]</i>	5/17/13	1401	<i>[Signature]</i> 554	5/17/13	1401	
SITE ADDRESS: BRIDGETON LF							
13570 ST. CHARLES ROCK RD							
BRIDGETON MO 63044							

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>WILLIAM ABERNATHY</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY): 5/17/13			

Page 31 of 32



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: BARR ENGINEERING		Report To: ED GALBRAITH		Attention:	
Address:		Copy To: SCOTT C. FEDAK		Company Name: REPUBLIC SERVICES	
Email To:		Purchase Order No.:		Address:	
Phone: Fax:		Project Name: BRIDGETON LANDFILL		Pace Quote Reference: 130426_7588	
Requested Due Date/TAT:		Project Number:		Pace Project Manager: Angie Brown 913-563-1402	
				Pace Profile #: 6787 line 2	
				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	
				STATE: <u>MO</u>	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW/ WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓ BOD SM 5210B	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	Y	N								
					DATE	TIME	DATE	TIME																				
1	128-MSD		OT G				5/17/13	0616	1	<input checked="" type="checkbox"/>																60144974	18A11 001	
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	<i>[Signature]</i>	5/17/13	1401	W.A. 554	5/17/13	1401				
SITE ADDRESS: BRIDGETON LF				E. Brockett / Pace	5/18	0300	26	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	WILLIAM ABERNATHY				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	5/17/13		

Page 32 of 32

May 28, 2013

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

RE: Project: BRIDGETON LF 131/136 MSD
Pace Project No.: 60145030

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 20, 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 131/136 MSD

Pace Project No.: 60145030

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 131/136 MSD

Pace Project No.: 60145030

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145030001	131-MSD	Water	05/18/13 14:43	05/20/13 13:10
60145030002	136-MSD	Water	05/19/13 18:11	05/20/13 13:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145030

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145030001	131-MSD	SM 5210B	AJM	1
60145030002	136-MSD	SM 5210B	AJM	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145030

Sample: 131-MSD	Lab ID: 60145030001	Collected: 05/18/13 14:43	Received: 05/20/13 13:10	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	27000	mg/L	2.0	1	05/20/13 14:37	05/25/13 11:24		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145030

Sample: 136-MSD	Lab ID: 60145030002	Collected: 05/19/13 18:11	Received: 05/20/13 13:10	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	38300	mg/L	2.0	1	05/20/13 15:08	05/25/13 11:44		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145030

QC Batch: WET/41372

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60145030001, 60145030002

METHOD BLANK: 1190597

Matrix: Water

Associated Lab Samples: 60145030001, 60145030002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/25/13 11:20	

LABORATORY CONTROL SAMPLE: 1190598

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

SAMPLE DUPLICATE: 1190599

Parameter	Units	60145028001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	26800	20000	29	17	D6

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145030

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 131/136 MSD

Pace Project No.: 60145030

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145030001	131-MSD	SM 5210B	WET/41372	SM 5210B	WET/41500
60145030002	136-MSD	SM 5210B	WET/41372	SM 5210B	WET/41500

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60145030
Barcode: 60145030

Client Name: Barr
Courier: Fed Ex [] UPS [] USPS [] Client [x] Commercial [] Pace [] Other []
Tracking #: Pace Shipping Label Used? Yes [] No []
Custody Seal on Cooler/Box Present: Yes [x] No [] Seals intact: Yes [x] No []
Packing Material: Bubble Wrap [] Bubble Bags [] Foam [] None [x] Other []
Thermometer Used: T-112 / T-194 Type of Ice: Wet Blue None [] Samples received on ice, cooling process has begun.
Cooler Temperature: 2.6 0.2 Date and initials of person examining contents: [Signature] 5/20/13

Table with 17 rows and 3 columns. Columns: Question, Response (Yes/No/N/A), and Number. Rows include Chain of Custody present, Chain of Custody filled out, Chain of Custody relinquished, Sampler name & signature on COC, Samples arrived within holding time, 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: wt, 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), Headspace in VOA vials (>6mm), Project sampled in USDA Regulated Area.

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

Person Contacted: Date/Time:
Comments/ Resolution: Lett ES, PH M 60145032001 for consistency w/ reporting of 136 MSD; corrected bottle order for next week to include separate BOD bottle to coincide w/ COCs.
Project Manager Review: AS Date: 5/22/13



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information: Company: BARR ENGINEERING Address: Email To: Phone: Requested Due Date/TAT:		Section B Required Project Information: Report To: ED GALBRAITH Copy To: SCOTT C. FEDAK Purchase Order No.: Project Name: BRIDGETON LANDFILL Project Number:		Section C Invoice Information: Attention: Company Name: REPUBLIC SERVICES Address: Pace Quote Reference: 130426_7588 Pace Project Manager: Angie Brown 913-563-1402 Pace Profile #: 6787 line 2	
		REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____		Site Location MO STATE: _____	

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE		MATRIX CODE (see valid codes to left) SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives											↓ Analysis Test ↓ BOD SM 5210B 755 SM 2510D 1045 SM 4500HFB	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.							
		DRINKING WATER	WATER		WASTE WATER	PRODUCT	SOIL/SOLID	COMPOSITE START			COMPOSITE END/GRAB	DATE	TIME	DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃					Methanol	Other					
1	131-MSD BOD	OT	G				5/18/13	1443		1	✓																			BOD	01-00124-5/20	
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	D. DORTCH / FEI	5/20/13	9:10	ROB ABERNATHY CC	5-20-13	7:10	0.2	Y	Y	Y
SITE ADDRESS: BRIDGETON LF				D. WILSON / PACE	5-20-13	1310				
13570 ST CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: WILLIAM ABERNATHY						
SIGNATURE of SAMPLER: <i>[Signature]</i>			DATE Signed (MM/DD/YY): 5/18/13			

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

Page 11 of 12

May 28, 2013

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

RE: Project: BRIDGETON LF 131/136 MSD
Pace Project No.: 60145032

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 20, 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 131/136 MSD

Pace Project No.: 60145032

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 131/136 MSD

Pace Project No.: 60145032

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145032001	131-MSD	Water	05/18/13 09:41	05/20/13 13:10
60145032002	TRIP BLANK	Water	05/18/13 00:00	05/20/13 13:10
60145032003	136-MSD	Water	05/19/13 18:11	05/20/13 13:10
60145032004	TRIP BLANK	Water	05/19/13 00:00	05/20/13 13:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145032001	131-MSD	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	PRG	38
		EPA 1664A	JMC1	1
		SM 2540D	RAS	1
		SM 4500-H+B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
60145032002	TRIP BLANK	EPA 624 Low	PRG	38
60145032003	136-MSD	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	PRG	38
		EPA 1664A	JMC1	1
		SM 2540D	RAS	1
		SM 4500-H+B	NDL	1
60145032004	TRIP BLANK	EPA 350.1	AJM	1
		EPA 410.4	DJR	1
		EPA 624 Low	PRG	38
		EPA 624 Low	PRG	38

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ANALYTICAL RESULTS

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

Sample: 131-MSD		Lab ID: 60145032001	Collected: 05/18/13 09:41	Received: 05/20/13 13:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	4120 ug/L		150	2	05/20/13 17:20	05/21/13 13:15	7429-90-5	
Antimony	ND ug/L		20.0	2	05/20/13 17:20	05/21/13 13:15	7440-36-0	D3
Arsenic	557 ug/L		20.0	2	05/20/13 17:20	05/21/13 13:15	7440-38-2	
Beryllium	ND ug/L		2.0	2	05/20/13 17:20	05/21/13 13:15	7440-41-7	D3
Cadmium	ND ug/L		10.0	2	05/20/13 17:20	05/21/13 13:15	7440-43-9	D3
Chromium	199 ug/L		10.0	2	05/20/13 17:20	05/21/13 13:15	7440-47-3	
Cobalt	27.2 ug/L		10.0	2	05/20/13 17:20	05/21/13 13:15	7440-48-4	
Copper	ND ug/L		20.0	2	05/20/13 17:20	05/21/13 13:15	7440-50-8	D3
Iron	519000 ug/L		100	2	05/20/13 17:20	05/21/13 13:15	7439-89-6	
Lead	78.4 ug/L		10.0	2	05/20/13 17:20	05/21/13 13:15	7439-92-1	
Nickel	73.9 ug/L		10.0	2	05/20/13 17:20	05/21/13 13:15	7440-02-0	
Selenium	ND ug/L		30.0	2	05/20/13 17:20	05/21/13 13:15	7782-49-2	D3
Silver	ND ug/L		14.0	2	05/20/13 17:20	05/21/13 13:15	7440-22-4	D3
Thallium	ND ug/L		40.0	2	05/20/13 17:20	05/21/13 13:15	7440-28-0	D3
Zinc	12200 ug/L		100	2	05/20/13 17:20	05/21/13 13:15	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	3710 ug/L		150	2	05/21/13 18:25	05/23/13 12:25	7429-90-5	
Antimony, Dissolved	28.4 ug/L		20.0	2	05/21/13 18:25	05/23/13 12:25	7440-36-0	D9
Arsenic, Dissolved	560 ug/L		20.0	2	05/21/13 18:25	05/23/13 12:25	7440-38-2	D9
Beryllium, Dissolved	ND ug/L		2.0	2	05/21/13 18:25	05/23/13 12:25	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		10.0	2	05/21/13 18:25	05/23/13 12:25	7440-43-9	D3
Chromium, Dissolved	211 ug/L		15.0	3	05/21/13 18:25	05/23/13 12:51	7440-47-3	D3
Cobalt, Dissolved	24.1 ug/L		10.0	2	05/21/13 18:25	05/23/13 12:25	7440-48-4	
Copper, Dissolved	ND ug/L		20.0	2	05/21/13 18:25	05/23/13 12:25	7440-50-8	D3
Iron, Dissolved	507000 ug/L		100	2	05/21/13 18:25	05/23/13 12:25	7439-89-6	
Lead, Dissolved	60.1 ug/L		10.0	2	05/21/13 18:25	05/23/13 12:25	7439-92-1	
Nickel, Dissolved	84.0 ug/L		10.0	2	05/21/13 18:25	05/23/13 12:25	7440-02-0	D9
Selenium, Dissolved	72.2 ug/L		45.0	3	05/21/13 18:25	05/23/13 12:51	7782-49-2	D9
Silver, Dissolved	ND ug/L		14.0	2	05/21/13 18:25	05/23/13 12:25	7440-22-4	D3
Thallium, Dissolved	ND ug/L		60.0	3	05/21/13 18:25	05/23/13 12:51	7440-28-0	D3
Zinc, Dissolved	12600 ug/L		100	2	05/21/13 18:25	05/23/13 12:25	7440-66-6	D9
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	0.59 ug/L		0.20	1	05/21/13 11:40	05/21/13 15:06	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	05/21/13 11:40	05/21/13 14:57	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:46	83-32-9	
Acenaphthylene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:46	208-96-8	
Anthracene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:46	120-12-7	
Benzidine	ND ug/L		25000	50	05/21/13 00:00	05/22/13 11:46	92-87-5	
Benzo(a)anthracene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:46	56-55-3	
Benzo(a)pyrene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 11:46	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

Sample: 131-MSD	Lab ID: 60145032001	Collected: 05/18/13 09:41	Received: 05/20/13 13:10	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	2500	50	05/21/13 00:00	05/22/13 11:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	207-08-9	
4-Bromophenylphenyl ether	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	101-55-3	
Butylbenzylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	59-50-7	
bis(2-Chloroethoxy)methane	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	3000	50	05/21/13 00:00	05/22/13 11:46	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	3000	50	05/21/13 00:00	05/22/13 11:46	39638-32-9	
2-Chloronaphthalene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	91-58-7	
2-Chlorophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	7005-72-3	
Chrysene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	53-70-3	
3,3'-Dichlorobenzidine	ND	ug/L	10000	50	05/21/13 00:00	05/22/13 11:46	91-94-1	
2,4-Dichlorophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	120-83-2	
Diethylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	84-66-2	
2,4-Dimethylphenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	105-67-9	
Dimethylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	131-11-3	
Di-n-butylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	12500	50	05/21/13 00:00	05/22/13 11:46	534-52-1	
2,4-Dinitrophenol	ND	ug/L	25000	50	05/21/13 00:00	05/22/13 11:46	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	3000	50	05/21/13 00:00	05/22/13 11:46	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	606-20-2	
Di-n-octylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	117-81-7	
Fluoranthene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	206-44-0	
Fluorene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	87-68-3	
Hexachlorobenzene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	77-47-4	
Hexachloroethane	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	193-39-5	
Isophorone	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	78-59-1	
Naphthalene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	91-20-3	
Nitrobenzene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	98-95-3	
2-Nitrophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	88-75-5	
4-Nitrophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	86-30-6	
Pentachlorophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	87-86-5	
Phenanthrene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	85-01-8	
Phenol	11300	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	108-95-2	
Pyrene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 11:46	88-06-2	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

Sample: 131-MSD		Lab ID: 60145032001	Collected: 05/18/13 09:41	Received: 05/20/13 13:10	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	50	05/21/13 00:00	05/22/13 11:46	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	50	05/21/13 00:00	05/22/13 11:46	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	50	05/21/13 00:00	05/22/13 11:46	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	50	05/21/13 00:00	05/22/13 11:46	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	50	05/21/13 00:00	05/22/13 11:46	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	50	05/21/13 00:00	05/22/13 11:46	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		05/24/13 16:22	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/24/13 16:22	75-27-4	
Bromoform	ND ug/L		200	200		05/24/13 16:22	75-25-2	
Bromomethane	ND ug/L		1000	200		05/24/13 16:22	74-83-9	L3
Carbon tetrachloride	ND ug/L		200	200		05/24/13 16:22	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/24/13 16:22	108-90-7	
Chloroethane	ND ug/L		200	200		05/24/13 16:22	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/24/13 16:22	110-75-8	
Chloroform	ND ug/L		200	200		05/24/13 16:22	67-66-3	
Chloromethane	ND ug/L		200	200		05/24/13 16:22	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/24/13 16:22	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/24/13 16:22	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/24/13 16:22	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/24/13 16:22	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/24/13 16:22	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/24/13 16:22	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/24/13 16:22	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/24/13 16:22	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/24/13 16:22	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/24/13 16:22	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/24/13 16:22	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/24/13 16:22	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/24/13 16:22	100-41-4	
Methylene chloride	ND ug/L		200	200		05/24/13 16:22	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/24/13 16:22	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/24/13 16:22	127-18-4	
Toluene	ND ug/L		200	200		05/24/13 16:22	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/24/13 16:22	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/24/13 16:22	79-00-5	
Trichloroethene	ND ug/L		200	200		05/24/13 16:22	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/24/13 16:22	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/24/13 16:22	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/24/13 16:22	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95 %		80-120	200		05/24/13 16:22	1868-53-7	D3
4-Bromofluorobenzene (S)	97 %		80-120	200		05/24/13 16:22	460-00-4	
Toluene-d8 (S)	103 %		80-120	200		05/24/13 16:22	2037-26-5	
1,2-Dichloroethane-d4 (S)	92 %		80-120	200		05/24/13 16:22	17060-07-0	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

Sample: 131-MSD		Lab ID: 60145032001	Collected: 05/18/13 09:41	Received: 05/20/13 13:10	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		05/24/13 16:22		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	272	mg/L	5.0	1		05/21/13 07:29		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	1360	mg/L	5.0	1		05/21/13 08:35		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.6	Std. Units	0.10	1		05/21/13 15:30		H6
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	651	mg/L	20.0	200		05/23/13 12:28	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	45700	mg/L	5000	500		05/24/13 07:49		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

Sample: TRIP BLANK		Lab ID: 60145032002	Collected: 05/18/13 00:00	Received: 05/20/13 13:10	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		05/24/13 14:58	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		05/24/13 14:58	75-27-4	
Bromoform	ND ug/L		1.0	1		05/24/13 14:58	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/24/13 14:58	74-83-9	L3
Carbon tetrachloride	ND ug/L		1.0	1		05/24/13 14:58	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/24/13 14:58	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/24/13 14:58	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		05/24/13 14:58	110-75-8	
Chloroform	ND ug/L		1.0	1		05/24/13 14:58	67-66-3	
Chloromethane	ND ug/L		1.0	1		05/24/13 14:58	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		05/24/13 14:58	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/24/13 14:58	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/24/13 14:58	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/24/13 14:58	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		05/24/13 14:58	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/24/13 14:58	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/24/13 14:58	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/24/13 14:58	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/24/13 14:58	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		05/24/13 14:58	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		05/24/13 14:58	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		05/24/13 14:58	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		05/24/13 14:58	100-41-4	
Methylene chloride	ND ug/L		1.0	1		05/24/13 14:58	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/24/13 14:58	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/24/13 14:58	127-18-4	
Toluene	ND ug/L		1.0	1		05/24/13 14:58	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/24/13 14:58	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/24/13 14:58	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/24/13 14:58	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/24/13 14:58	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		05/24/13 14:58	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/24/13 14:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100 %		80-120	1		05/24/13 14:58	1868-53-7	
4-Bromofluorobenzene (S)	101 %		80-120	1		05/24/13 14:58	460-00-4	
Toluene-d8 (S)	104 %		80-120	1		05/24/13 14:58	2037-26-5	
1,2-Dichloroethane-d4 (S)	96 %		80-120	1		05/24/13 14:58	17060-07-0	
Preservation pH	7.0			1		05/24/13 14:58		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

Sample: 136-MSD		Lab ID: 60145032003	Collected: 05/19/13 18:11	Received: 05/20/13 13:10	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	5870 ug/L		150	2	05/20/13 17:20	05/21/13 13:18	7429-90-5	
Antimony	36.3 ug/L		30.0	3	05/20/13 17:20	05/21/13 13:53	7440-36-0	
Arsenic	626 ug/L		30.0	3	05/20/13 17:20	05/21/13 13:53	7440-38-2	
Beryllium	ND ug/L		2.0	2	05/20/13 17:20	05/21/13 13:18	7440-41-7	D3
Cadmium	ND ug/L		15.0	3	05/20/13 17:20	05/21/13 13:53	7440-43-9	D3
Chromium	222 ug/L		15.0	3	05/20/13 17:20	05/21/13 13:53	7440-47-3	
Cobalt	50.7 ug/L		15.0	3	05/20/13 17:20	05/21/13 13:53	7440-48-4	
Copper	ND ug/L		20.0	2	05/20/13 17:20	05/21/13 13:18	7440-50-8	D3
Iron	778000 ug/L		100	2	05/20/13 17:20	05/21/13 13:18	7439-89-6	
Lead	121 ug/L		15.0	3	05/20/13 17:20	05/21/13 13:53	7439-92-1	
Nickel	129 ug/L		15.0	3	05/20/13 17:20	05/21/13 13:53	7440-02-0	
Selenium	ND ug/L		45.0	3	05/20/13 17:20	05/21/13 13:53	7782-49-2	D3
Silver	ND ug/L		14.0	2	05/20/13 17:20	05/21/13 13:18	7440-22-4	D3
Thallium	ND ug/L		60.0	3	05/20/13 17:20	05/21/13 13:53	7440-28-0	D3
Zinc	18700 ug/L		150	3	05/20/13 17:20	05/21/13 13:53	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	5700 ug/L		150	2	05/21/13 18:25	05/23/13 12:38	7429-90-5	
Antimony, Dissolved	33.0 ug/L		30.0	3	05/21/13 18:25	05/23/13 12:53	7440-36-0	
Arsenic, Dissolved	706 ug/L		30.0	3	05/21/13 18:25	05/23/13 12:53	7440-38-2	D9
Beryllium, Dissolved	ND ug/L		2.0	2	05/21/13 18:25	05/23/13 12:38	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		15.0	3	05/21/13 18:25	05/23/13 12:53	7440-43-9	D3
Chromium, Dissolved	266 ug/L		20.0	4	05/21/13 18:25	05/23/13 13:01	7440-47-3	
Cobalt, Dissolved	52.6 ug/L		15.0	3	05/21/13 18:25	05/23/13 12:53	7440-48-4	D9
Copper, Dissolved	ND ug/L		20.0	2	05/21/13 18:25	05/23/13 12:38	7440-50-8	D3
Iron, Dissolved	825000 ug/L		100	2	05/21/13 18:25	05/23/13 12:38	7439-89-6	D9
Lead, Dissolved	95.7 ug/L		15.0	3	05/21/13 18:25	05/23/13 12:53	7439-92-1	
Nickel, Dissolved	156 ug/L		15.0	3	05/21/13 18:25	05/23/13 12:53	7440-02-0	D9
Selenium, Dissolved	87.2 ug/L		60.0	4	05/21/13 18:25	05/23/13 13:01	7782-49-2	D9
Silver, Dissolved	ND ug/L		14.0	2	05/21/13 18:25	05/23/13 12:38	7440-22-4	D3
Thallium, Dissolved	ND ug/L		80.0	4	05/21/13 18:25	05/23/13 13:01	7440-28-0	D3
Zinc, Dissolved	21700 ug/L		150	3	05/21/13 18:25	05/23/13 12:53	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	0.86 ug/L		0.20	1	05/21/13 11:40	05/21/13 15:13	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		0.20	1	05/21/13 11:40	05/21/13 14:59	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 12:06	83-32-9	
Acenaphthylene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 12:06	208-96-8	
Anthracene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 12:06	120-12-7	
Benzidine	ND ug/L		25000	50	05/21/13 00:00	05/22/13 12:06	92-87-5	
Benzo(a)anthracene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 12:06	56-55-3	
Benzo(a)pyrene	ND ug/L		2500	50	05/21/13 00:00	05/22/13 12:06	50-32-8	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

Sample: 136-MSD		Lab ID: 60145032003	Collected: 05/19/13 18:11	Received: 05/20/13 13:10	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	2500	50	05/21/13 00:00	05/22/13 12:06	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	207-08-9	
4-Bromophenylphenyl ether	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	101-55-3	
Butylbenzylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	59-50-7	
bis(2-Chloroethoxy)methane	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	3000	50	05/21/13 00:00	05/22/13 12:06	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	3000	50	05/21/13 00:00	05/22/13 12:06	39638-32-9	
2-Chloronaphthalene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	91-58-7	
2-Chlorophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	7005-72-3	
Chrysene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	53-70-3	
3,3'-Dichlorobenzidine	ND	ug/L	10000	50	05/21/13 00:00	05/22/13 12:06	91-94-1	
2,4-Dichlorophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	120-83-2	
Diethylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	84-66-2	
2,4-Dimethylphenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	105-67-9	
Dimethylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	131-11-3	
Di-n-butylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	12500	50	05/21/13 00:00	05/22/13 12:06	534-52-1	
2,4-Dinitrophenol	ND	ug/L	25000	50	05/21/13 00:00	05/22/13 12:06	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	3000	50	05/21/13 00:00	05/22/13 12:06	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	606-20-2	
Di-n-octylphthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	117-81-7	
Fluoranthene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	206-44-0	
Fluorene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	87-68-3	
Hexachlorobenzene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	77-47-4	
Hexachloroethane	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	193-39-5	
Isophorone	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	78-59-1	
Naphthalene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	91-20-3	
Nitrobenzene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	98-95-3	
2-Nitrophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	88-75-5	
4-Nitrophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	86-30-6	
Pentachlorophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	87-86-5	
Phenanthrene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	85-01-8	
Phenol	15000	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	108-95-2	
Pyrene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	2500	50	05/21/13 00:00	05/22/13 12:06	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

Sample: 136-MSD		Lab ID: 60145032003	Collected: 05/19/13 18:11	Received: 05/20/13 13:10	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	50	05/21/13 00:00	05/22/13 12:06	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	50	05/21/13 00:00	05/22/13 12:06	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	50	05/21/13 00:00	05/22/13 12:06	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	50	05/21/13 00:00	05/22/13 12:06	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	50	05/21/13 00:00	05/22/13 12:06	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	50	05/21/13 00:00	05/22/13 12:06	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		05/24/13 16:40	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/24/13 16:40	75-27-4	
Bromoform	ND ug/L		200	200		05/24/13 16:40	75-25-2	
Bromomethane	ND ug/L		1000	200		05/24/13 16:40	74-83-9	L3
Carbon tetrachloride	ND ug/L		200	200		05/24/13 16:40	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/24/13 16:40	108-90-7	
Chloroethane	ND ug/L		200	200		05/24/13 16:40	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/24/13 16:40	110-75-8	
Chloroform	ND ug/L		200	200		05/24/13 16:40	67-66-3	
Chloromethane	ND ug/L		200	200		05/24/13 16:40	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/24/13 16:40	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/24/13 16:40	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/24/13 16:40	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/24/13 16:40	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/24/13 16:40	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/24/13 16:40	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/24/13 16:40	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/24/13 16:40	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/24/13 16:40	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/24/13 16:40	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/24/13 16:40	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/24/13 16:40	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/24/13 16:40	100-41-4	
Methylene chloride	ND ug/L		200	200		05/24/13 16:40	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/24/13 16:40	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/24/13 16:40	127-18-4	
Toluene	ND ug/L		200	200		05/24/13 16:40	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/24/13 16:40	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/24/13 16:40	79-00-5	
Trichloroethene	ND ug/L		200	200		05/24/13 16:40	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/24/13 16:40	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/24/13 16:40	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/24/13 16:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	95 %		80-120	200		05/24/13 16:40	1868-53-7	D3
4-Bromofluorobenzene (S)	97 %		80-120	200		05/24/13 16:40	460-00-4	
Toluene-d8 (S)	106 %		80-120	200		05/24/13 16:40	2037-26-5	
1,2-Dichloroethane-d4 (S)	91 %		80-120	200		05/24/13 16:40	17060-07-0	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

Sample: 136-MSD		Lab ID: 60145032003	Collected: 05/19/13 18:11	Received: 05/20/13 13:10	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		05/24/13 16:40		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	504	mg/L	5.0	1		05/21/13 07:30		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	2200	mg/L	5.0	1		05/21/13 08:36		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.3	Std. Units	0.10	1		05/21/13 15:30		H6
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	633	mg/L	20.0	200		05/23/13 12:29	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	56500	mg/L	5000	500		05/24/13 07:50		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

Sample: TRIP BLANK	Lab ID: 60145032004	Collected: 05/19/13 00:00	Received: 05/20/13 13:10	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		05/24/13 15:19	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		05/24/13 15:19	75-27-4	
Bromoform	ND ug/L		1.0	1		05/24/13 15:19	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/24/13 15:19	74-83-9	L3
Carbon tetrachloride	ND ug/L		1.0	1		05/24/13 15:19	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/24/13 15:19	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/24/13 15:19	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		05/24/13 15:19	110-75-8	
Chloroform	ND ug/L		1.0	1		05/24/13 15:19	67-66-3	
Chloromethane	ND ug/L		1.0	1		05/24/13 15:19	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		05/24/13 15:19	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/24/13 15:19	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/24/13 15:19	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/24/13 15:19	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		05/24/13 15:19	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/24/13 15:19	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/24/13 15:19	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/24/13 15:19	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/24/13 15:19	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		05/24/13 15:19	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		05/24/13 15:19	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		05/24/13 15:19	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		05/24/13 15:19	100-41-4	
Methylene chloride	ND ug/L		1.0	1		05/24/13 15:19	75-09-2	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		05/24/13 15:19	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/24/13 15:19	127-18-4	
Toluene	ND ug/L		1.0	1		05/24/13 15:19	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/24/13 15:19	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/24/13 15:19	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/24/13 15:19	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/24/13 15:19	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		05/24/13 15:19	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/24/13 15:19	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97 %		80-120	1		05/24/13 15:19	1868-53-7	
4-Bromofluorobenzene (S)	100 %		80-120	1		05/24/13 15:19	460-00-4	
Toluene-d8 (S)	102 %		80-120	1		05/24/13 15:19	2037-26-5	
1,2-Dichloroethane-d4 (S)	90 %		80-120	1		05/24/13 15:19	17060-07-0	
Preservation pH	7.0			1		05/24/13 15:19		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

QC Batch: MERP/7364 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
 Associated Lab Samples: 60145032001, 60145032003

METHOD BLANK: 1190922 Matrix: Water

Associated Lab Samples: 60145032001, 60145032003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/21/13 15:01	

LABORATORY CONTROL SAMPLE: 1190923

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: 1190924 1190925

Parameter	Units	60145032001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Mercury	ug/L	0.59	5	5	4.0	4.0	68	69	70-130	1	20	M1	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

QC Batch: MERP/7361 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury - Dissolved
 Associated Lab Samples: 60145032001, 60145032003

METHOD BLANK: 1190910 Matrix: Water

Associated Lab Samples: 60145032001, 60145032003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/21/13 14:32	

LABORATORY CONTROL SAMPLE: 1190911

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.0	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1190912 1190913

Parameter	Units	60144888001 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	0.71	0.68	14	14	70-130	4	20	M1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

QC Batch: MPRP/22732 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60145032001, 60145032003

METHOD BLANK: 1190703 Matrix: Water

Associated Lab Samples: 60145032001, 60145032003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	05/21/13 12:58	
Antimony	ug/L	ND	10.0	05/21/13 12:58	
Arsenic	ug/L	ND	10.0	05/21/13 12:58	
Beryllium	ug/L	ND	1.0	05/21/13 12:58	
Cadmium	ug/L	ND	5.0	05/21/13 12:58	
Chromium	ug/L	ND	5.0	05/21/13 12:58	
Cobalt	ug/L	ND	5.0	05/21/13 12:58	
Copper	ug/L	ND	10.0	05/21/13 12:58	
Iron	ug/L	ND	50.0	05/21/13 12:58	
Lead	ug/L	ND	5.0	05/21/13 12:58	
Nickel	ug/L	ND	5.0	05/21/13 12:58	
Selenium	ug/L	ND	15.0	05/21/13 12:58	
Silver	ug/L	ND	7.0	05/21/13 12:58	
Thallium	ug/L	ND	20.0	05/21/13 12:58	
Zinc	ug/L	ND	50.0	05/21/13 12:58	

LABORATORY CONTROL SAMPLE: 1190704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9810	98	85-115	
Antimony	ug/L	1000	1000	100	85-115	
Arsenic	ug/L	1000	998	100	85-115	
Beryllium	ug/L	1000	998	100	85-115	
Cadmium	ug/L	1000	993	99	85-115	
Chromium	ug/L	1000	939	94	85-115	
Cobalt	ug/L	1000	1030	103	85-115	
Copper	ug/L	1000	962	96	85-115	
Iron	ug/L	10000	9460	95	85-115	
Lead	ug/L	1000	995	99	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	984	98	85-115	
Silver	ug/L	500	477	95	85-115	
Thallium	ug/L	1000	1060	106	85-115	
Zinc	ug/L	1000	998	100	85-115	

SAMPLE DUPLICATE: 1190705

Parameter	Units	60144732001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	5640	6410	13	20	
Antimony	ug/L	27.2	37.9	33	20 D6	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

SAMPLE DUPLICATE: 1190705

Parameter	Units	60144732001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	610	652	7	20	
Beryllium	ug/L	ND	ND		20	D3
Cadmium	ug/L	ND	ND		20	D3
Chromium	ug/L	212	226	7	20	
Cobalt	ug/L	36.3	42.7	16	20	
Copper	ug/L	ND	18.9J		20	D3
Iron	ug/L	740000	793000	7	20	
Lead	ug/L	172	179	4	20	
Nickel	ug/L	95.9	108	12	20	
Selenium	ug/L	ND	ND		20	D3
Silver	ug/L	ND	8.6J		20	D3
Thallium	ug/L	ND	ND		20	D3
Zinc	ug/L	14000	15000	7	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

QC Batch: MPRP/22761

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60145032001, 60145032003

METHOD BLANK: 1191307

Matrix: Water

Associated Lab Samples: 60145032001, 60145032003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	05/23/13 12:04	
Antimony, Dissolved	ug/L	ND	10.0	05/23/13 12:04	
Arsenic, Dissolved	ug/L	ND	10.0	05/23/13 12:04	
Beryllium, Dissolved	ug/L	ND	1.0	05/23/13 12:04	
Cadmium, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Chromium, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Cobalt, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Copper, Dissolved	ug/L	ND	10.0	05/23/13 12:04	
Iron, Dissolved	ug/L	ND	50.0	05/23/13 12:04	
Lead, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Nickel, Dissolved	ug/L	ND	5.0	05/23/13 12:04	
Selenium, Dissolved	ug/L	ND	15.0	05/23/13 12:04	
Silver, Dissolved	ug/L	ND	7.0	05/23/13 12:04	
Thallium, Dissolved	ug/L	ND	20.0	05/23/13 12:04	
Zinc, Dissolved	ug/L	ND	50.0	05/23/13 12:04	

LABORATORY CONTROL SAMPLE: 1191308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10300	103	85-115	
Antimony, Dissolved	ug/L	1000	1010	101	85-115	
Arsenic, Dissolved	ug/L	1000	994	99	85-115	
Beryllium, Dissolved	ug/L	1000	992	99	85-115	
Cadmium, Dissolved	ug/L	1000	1000	100	85-115	
Chromium, Dissolved	ug/L	1000	998	100	85-115	
Cobalt, Dissolved	ug/L	1000	1020	102	85-115	
Copper, Dissolved	ug/L	1000	984	98	85-115	
Iron, Dissolved	ug/L	10000	9690	97	85-115	
Lead, Dissolved	ug/L	1000	1030	103	85-115	
Nickel, Dissolved	ug/L	1000	1040	104	85-115	
Selenium, Dissolved	ug/L	1000	1020	102	85-115	
Silver, Dissolved	ug/L	500	492	98	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	1030	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1191309

1191310

Parameter	Units	60144838009		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Aluminum, Dissolved	ug/L	ND	10000	10000	10000	9980	10400	100	104	70-130	4	8	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

Parameter	60144838009		MS		MSD		MS		MSD		Max		
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	% Rec	% Rec	Limits	RPD	RPD
Antimony, Dissolved	ug/L	ND	1000	1000	980	1030	98	103	70-130	5	7		
Arsenic, Dissolved	ug/L	ND	1000	1000	970	1010	97	101	70-130	4	10		
Beryllium, Dissolved	ug/L	ND	1000	1000	960	998	96	100	70-130	4	7		
Cadmium, Dissolved	ug/L	ND	1000	1000	966	1010	97	101	70-130	4	10		
Chromium, Dissolved	ug/L	ND	1000	1000	951	994	95	99	70-130	4	10		
Cobalt, Dissolved	ug/L	ND	1000	1000	966	1010	97	101	70-130	4	6		
Copper, Dissolved	ug/L	ND	1000	1000	952	988	94	98	70-130	4	11		
Iron, Dissolved	ug/L	ND	10000	10000	9400	9720	94	97	70-130	3	10		
Lead, Dissolved	ug/L	ND	1000	1000	964	1000	96	100	70-130	4	10		
Nickel, Dissolved	ug/L	ND	1000	1000	974	1020	97	101	70-130	4	10		
Selenium, Dissolved	ug/L	ND	1000	1000	992	1040	99	104	70-130	5	10		
Silver, Dissolved	ug/L	ND	500	500	477	495	95	99	70-130	4	10		
Thallium, Dissolved	ug/L	ND	1000	1000	980	1020	98	102	70-130	4	6		
Zinc, Dissolved	ug/L	376	1000	1000	1330	1380	96	100	70-130	3	11		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

QC Batch: MSV/53901 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60145032001, 60145032002, 60145032003, 60145032004

METHOD BLANK: 1193614 Matrix: Water

Associated Lab Samples: 60145032001, 60145032002, 60145032003, 60145032004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/24/13 11:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/24/13 11:36	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/24/13 11:36	
1,1-Dichloroethane	ug/L	ND	1.0	05/24/13 11:36	
1,1-Dichloroethene	ug/L	ND	1.0	05/24/13 11:36	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/24/13 11:36	
1,2-Dichloroethane	ug/L	ND	1.0	05/24/13 11:36	
1,2-Dichloropropane	ug/L	ND	1.0	05/24/13 11:36	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/24/13 11:36	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/24/13 11:36	
2-Chloroethylvinyl ether	ug/L	ND	10.0	05/24/13 11:36	
Benzene	ug/L	ND	1.0	05/24/13 11:36	
Bromodichloromethane	ug/L	ND	1.0	05/24/13 11:36	
Bromoform	ug/L	ND	1.0	05/24/13 11:36	
Bromomethane	ug/L	ND	5.0	05/24/13 11:36	
Carbon tetrachloride	ug/L	ND	1.0	05/24/13 11:36	
Chlorobenzene	ug/L	ND	1.0	05/24/13 11:36	
Chloroethane	ug/L	ND	1.0	05/24/13 11:36	
Chloroform	ug/L	ND	1.0	05/24/13 11:36	
Chloromethane	ug/L	ND	1.0	05/24/13 11:36	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/24/13 11:36	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/24/13 11:36	
Dibromochloromethane	ug/L	ND	1.0	05/24/13 11:36	
Ethylbenzene	ug/L	ND	1.0	05/24/13 11:36	
Methylene chloride	ug/L	ND	1.0	05/24/13 11:36	
Tetrachloroethene	ug/L	ND	1.0	05/24/13 11:36	
Toluene	ug/L	ND	1.0	05/24/13 11:36	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/24/13 11:36	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/24/13 11:36	
Trichloroethene	ug/L	ND	1.0	05/24/13 11:36	
Trichlorofluoromethane	ug/L	ND	1.0	05/24/13 11:36	
Vinyl chloride	ug/L	ND	1.0	05/24/13 11:36	
Xylene (Total)	ug/L	ND	3.0	05/24/13 11:36	
1,2-Dichloroethane-d4 (S)	%	87	80-120	05/24/13 11:36	
4-Bromofluorobenzene (S)	%	103	80-120	05/24/13 11:36	
Dibromofluoromethane (S)	%	96	80-120	05/24/13 11:36	
Toluene-d8 (S)	%	98	80-120	05/24/13 11:36	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

LABORATORY CONTROL SAMPLE: 1193615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	23.1	115	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	22.2	111	59-138	
1,1,2-Trichloroethane	ug/L	20	22.5	112	69-127	
1,1-Dichloroethane	ug/L	20	20.2	101	69-126	
1,1-Dichloroethene	ug/L	20	21.9	109	65-153	
1,2-Dichlorobenzene	ug/L	20	22.5	113	66-126	
1,2-Dichloroethane	ug/L	20	21.9	109	71-129	
1,2-Dichloropropane	ug/L	20	23.1	115	66-140	
1,3-Dichlorobenzene	ug/L	20	22.3	111	63-127	
1,4-Dichlorobenzene	ug/L	20	22.6	113	68-124	
2-Chloroethylvinyl ether	ug/L	20	20.1	101	33-159	
Benzene	ug/L	20	22.4	112	73-129	
Bromodichloromethane	ug/L	20	22.2	111	63-129	
Bromoform	ug/L	20	21.5	108	52-123	
Bromomethane	ug/L	20	38.6	193	10-160	L0
Carbon tetrachloride	ug/L	20	23.0	115	70-140	
Chlorobenzene	ug/L	20	22.7	113	68-127	
Chloroethane	ug/L	20	19.6	98	42-160	
Chloroform	ug/L	20	21.8	109	60-120	
Chloromethane	ug/L	20	23.7	119	10-160	
cis-1,2-Dichloroethene	ug/L	20	21.8	109	70-125	
cis-1,3-Dichloropropene	ug/L	20	22.4	112	66-132	
Dibromochloromethane	ug/L	20	23.0	115	63-134	
Ethylbenzene	ug/L	20	23.6	118	66-133	
Methylene chloride	ug/L	20	20.6	103	56-135	
Tetrachloroethene	ug/L	20	23.5	117	64-143	
Toluene	ug/L	20	22.7	114	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.4	107	67-149	
trans-1,3-Dichloropropene	ug/L	20	24.8	124	66-138	
Trichloroethene	ug/L	20	21.9	109	71-130	
Trichlorofluoromethane	ug/L	20	19.4	97	58-158	
Vinyl chloride	ug/L	20	21.0	105	41-160	
Xylene (Total)	ug/L	60	69.5	116	67-130	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Dibromofluoromethane (S)	%			96	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1193616

Parameter	Units	60144983001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.090	20	20.8	104	52-160	
1,1,2,2-Tetrachloroethane	ug/L	<0.15	20	16.4	82	46-157	
1,1,2-Trichloroethane	ug/L	<0.19	20	17.6	88	52-150	
1,1-Dichloroethane	ug/L	<0.090	20	17.7	89	59-155	
1,1-Dichloroethene	ug/L	<0.16	20	20.6	103	14-160	
1,2-Dichlorobenzene	ug/L	<0.14	20	17.4	87	18-145	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 131/136 MSD

Project No.: 60145032

MATRIX SPIKE SAMPLE:		1193616						
Parameter	Units	60144983001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,2-Dichloroethane	ug/L	<0.090	20	17.9	90	49-155		
1,2-Dichloropropane	ug/L	<0.12	20	19.5	98	12-160		
1,3-Dichlorobenzene	ug/L	<0.080	20	17.9	89	59-146		
1,4-Dichlorobenzene	ug/L	<0.11	20	17.8	88	18-147		
2-Chloroethylvinyl ether	ug/L	<0.090	20	16.4	82	10-160		
Benzene	ug/L	<0.080	20	19.5	98	37-151		
Bromodichloromethane	ug/L	<0.25	20	18.1	91	35-155		
Bromoform	ug/L	<0.36	20	16.7	84	45-133		
Bromomethane	ug/L	<0.22	20	31.9	160	10-160		
Carbon tetrachloride	ug/L	<0.16	20	20.7	104	70-140		
Chlorobenzene	ug/L	<0.070	20	18.9	94	37-153		
Chloroethane	ug/L	<0.17	20	17.1	86	14-160		
Chloroform	ug/L	0.36J	20	18.2	89	51-138		
Chloromethane	ug/L	<0.19	20	20.1	101	10-160		
cis-1,2-Dichloroethene	ug/L	<0.12	20	19.2	96	19-160		
cis-1,3-Dichloropropene	ug/L	<0.090	20	18.7	94	10-160		
Dibromochloromethane	ug/L	<0.090	20	17.8	89	53-149		
Ethylbenzene	ug/L	<0.16	20	19.5	97	37-154		
Methylene chloride	ug/L	<0.23	20	17.9	90	15-156		
Tetrachloroethene	ug/L	<0.20	20	20.9	105	64-148		
Toluene	ug/L	<0.10	20	19.9	99	47-150		
trans-1,2-Dichloroethene	ug/L	<0.080	20	19.4	97	54-156		
trans-1,3-Dichloropropene	ug/L	<0.050	20	19.7	99	17-160		
Trichloroethene	ug/L	<0.16	20	18.8	94	71-157		
Trichlorofluoromethane	ug/L	<0.080	20	18.0	90	17-160		
Vinyl chloride	ug/L	<0.080	20	18.6	93	10-160		
Xylene (Total)	ug/L	<0.25	60	58.7	98	12-153		
1,2-Dichloroethane-d4 (S)	%				98	80-120		
4-Bromofluorobenzene (S)	%				100	80-120		
Dibromofluoromethane (S)	%				96	80-120		
Toluene-d8 (S)	%				101	80-120		
Preservation pH		7.0		7.0				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

QC Batch: OEXT/38482 Analysis Method: EPA 625

QC Batch Method: EPA 625 Analysis Description: 625 MSS

Associated Lab Samples: 60145032001, 60145032003

METHOD BLANK: 1190739 Matrix: Water

Associated Lab Samples: 60145032001, 60145032003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/22/13 09:41	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/22/13 09:41	
2,4-Dichlorophenol	ug/L	ND	5.0	05/22/13 09:41	
2,4-Dimethylphenol	ug/L	ND	5.0	05/22/13 09:41	
2,4-Dinitrophenol	ug/L	ND	50.0	05/22/13 09:41	
2,4-Dinitrotoluene	ug/L	ND	6.0	05/22/13 09:41	
2,6-Dinitrotoluene	ug/L	ND	5.0	05/22/13 09:41	
2-Chloronaphthalene	ug/L	ND	5.0	05/22/13 09:41	
2-Chlorophenol	ug/L	ND	5.0	05/22/13 09:41	
2-Nitrophenol	ug/L	ND	5.0	05/22/13 09:41	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	05/22/13 09:41	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/22/13 09:41	
4-Bromophenylphenyl ether	ug/L	ND	5.0	05/22/13 09:41	
4-Chloro-3-methylphenol	ug/L	ND	5.0	05/22/13 09:41	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	05/22/13 09:41	
4-Nitrophenol	ug/L	ND	5.0	05/22/13 09:41	
Acenaphthene	ug/L	ND	5.0	05/22/13 09:41	
Acenaphthylene	ug/L	ND	5.0	05/22/13 09:41	
Anthracene	ug/L	ND	5.0	05/22/13 09:41	
Benzidine	ug/L	ND	50.0	05/22/13 09:41	
Benzo(a)anthracene	ug/L	ND	5.0	05/22/13 09:41	
Benzo(a)pyrene	ug/L	ND	5.0	05/22/13 09:41	
Benzo(b)fluoranthene	ug/L	ND	5.0	05/22/13 09:41	
Benzo(g,h,i)perylene	ug/L	ND	5.0	05/22/13 09:41	
Benzo(k)fluoranthene	ug/L	ND	5.0	05/22/13 09:41	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	05/22/13 09:41	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	05/22/13 09:41	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	05/22/13 09:41	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	05/22/13 09:41	
Butylbenzylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Chrysene	ug/L	ND	5.0	05/22/13 09:41	
Di-n-butylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Di-n-octylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Dibenz(a,h)anthracene	ug/L	ND	5.0	05/22/13 09:41	
Diethylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Dimethylphthalate	ug/L	ND	5.0	05/22/13 09:41	
Fluoranthene	ug/L	ND	5.0	05/22/13 09:41	
Fluorene	ug/L	ND	5.0	05/22/13 09:41	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/22/13 09:41	
Hexachlorobenzene	ug/L	ND	5.0	05/22/13 09:41	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/22/13 09:41	
Hexachloroethane	ug/L	ND	5.0	05/22/13 09:41	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	05/22/13 09:41	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 131/136 MSD

Project No.: 60145032

METHOD BLANK: 1190739

Matrix: Water

Associated Lab Samples: 60145032001, 60145032003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	05/22/13 09:41	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	05/22/13 09:41	
N-Nitrosodimethylamine	ug/L	ND	5.0	05/22/13 09:41	
N-Nitrosodiphenylamine	ug/L	ND	5.0	05/22/13 09:41	
Naphthalene	ug/L	ND	5.0	05/22/13 09:41	
Nitrobenzene	ug/L	ND	5.0	05/22/13 09:41	
Pentachlorophenol	ug/L	ND	5.0	05/22/13 09:41	
Phenanthrene	ug/L	ND	5.0	05/22/13 09:41	
Phenol	ug/L	ND	5.0	05/22/13 09:41	
Pyrene	ug/L	ND	5.0	05/22/13 09:41	
2,4,6-Tribromophenol (S)	%	95	39-119	05/22/13 09:41	
2-Fluorobiphenyl (S)	%	83	36-120	05/22/13 09:41	
2-Fluorophenol (S)	%	51	18-120	05/22/13 09:41	
Nitrobenzene-d5 (S)	%	82	32-120	05/22/13 09:41	
Phenol-d6 (S)	%	33	12-120	05/22/13 09:41	
Terphenyl-d14 (S)	%	89	44-120	05/22/13 09:41	

LABORATORY CONTROL SAMPLE: 1190740

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	34.0	68	44-120	
2,4,6-Trichlorophenol	ug/L	50	39.0	78	48-120	
2,4-Dichlorophenol	ug/L	50	37.0	74	48-120	
2,4-Dimethylphenol	ug/L	50	35.0	70	37-119	
2,4-Dinitrophenol	ug/L	50	40.1J	80	15-153	
2,4-Dinitrotoluene	ug/L	50	41.0	82	54-120	
2,6-Dinitrotoluene	ug/L	50	40.1	80	52-120	
2-Chloronaphthalene	ug/L	50	35.7	71	60-118	
2-Chlorophenol	ug/L	50	34.6	69	44-120	
2-Nitrophenol	ug/L	50	39.6	79	43-120	
3,3'-Dichlorobenzidine	ug/L	50	43.0	86	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	43.0	86	31-147	
4-Bromophenylphenyl ether	ug/L	50	37.2	74	53-120	
4-Chloro-3-methylphenol	ug/L	50	39.8	80	50-120	
4-Chlorophenylphenyl ether	ug/L	50	37.3	75	54-120	
4-Nitrophenol	ug/L	50	17.0	34	10-120	
Acenaphthene	ug/L	50	36.5	73	51-120	
Acenaphthylene	ug/L	50	36.5	73	51-120	
Anthracene	ug/L	50	38.1	76	54-120	
Benzidine	ug/L	50	36.5J	73	1-124	
Benzo(a)anthracene	ug/L	50	38.5	77	54-120	
Benzo(a)pyrene	ug/L	50	37.7	75	54-120	
Benzo(b)fluoranthene	ug/L	50	39.5	79	57-120	
Benzo(g,h,i)perylene	ug/L	50	41.2	82	54-120	
Benzo(k)fluoranthene	ug/L	50	35.8	72	52-121	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

LABORATORY CONTROL SAMPLE: 1190740

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	35.0	70	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	36.4	73	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	44.8	90	51-126	
Butylbenzylphthalate	ug/L	50	45.7	91	45-129	
Chrysene	ug/L	50	38.4	77	54-120	
Di-n-butylphthalate	ug/L	50	42.0	84	57-118	
Di-n-octylphthalate	ug/L	50	47.0	94	48-130	
Dibenz(a,h)anthracene	ug/L	50	40.2	80	56-119	
Diethylphthalate	ug/L	50	39.2	78	55-114	
Dimethylphthalate	ug/L	50	38.4	77	54-112	
Fluoranthene	ug/L	50	39.7	79	56-120	
Fluorene	ug/L	50	37.8	76	59-120	
Hexachloro-1,3-butadiene	ug/L	50	33.6	67	41-116	
Hexachlorobenzene	ug/L	50	37.6	75	53-120	
Hexachlorocyclopentadiene	ug/L	100	58.7	59	31-120	
Hexachloroethane	ug/L	50	32.3	65	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	39.6	79	55-120	
Isophorone	ug/L	50	37.5	75	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	37.1	74	47-120	
N-Nitrosodimethylamine	ug/L	50	22.1	44	28-120	
N-Nitrosodiphenylamine	ug/L	50	37.8	76	53-120	
Naphthalene	ug/L	50	35.1	70	48-120	
Nitrobenzene	ug/L	50	35.8	72	47-120	
Pentachlorophenol	ug/L	50	39.8	80	43-127	
Phenanthrene	ug/L	50	37.5	75	55-120	
Phenol	ug/L	50	15.9	32	15-112	
Pyrene	ug/L	50	39.1	78	55-115	
2,4,6-Tribromophenol (S)	%			82	39-119	
2-Fluorobiphenyl (S)	%			70	36-120	
2-Fluorophenol (S)	%			44	18-120	
Nitrobenzene-d5 (S)	%			70	32-120	M4
Phenol-d6 (S)	%			29	12-120	
Terphenyl-d14 (S)	%			78	44-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

QC Batch: WET/41378 Analysis Method: EPA 1664A
 QC Batch Method: EPA 1664A Analysis Description: 1664 HEM, Oil and Grease
 Associated Lab Samples: 60145032001, 60145032003

METHOD BLANK: 1190727 Matrix: Water

Associated Lab Samples: 60145032001, 60145032003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	05/21/13 07:25	

LABORATORY CONTROL SAMPLE: 1190728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	41.0	102	78-114	

MATRIX SPIKE SAMPLE: 1190732

Parameter	Units	60143923001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	41.2	99	78-114	

SAMPLE DUPLICATE: 1190731

Parameter	Units	60144722002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	4.4J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

QC Batch: WET/41381

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60145032001, 60145032003

METHOD BLANK: 1190804

Matrix: Water

Associated Lab Samples: 60145032001, 60145032003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/21/13 08:35	

SAMPLE DUPLICATE: 1190805

Parameter	Units	60145032001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	1360	1370	1	25	

SAMPLE DUPLICATE: 1190806

Parameter	Units	60145039001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	10	10.0	0	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

QC Batch: WET/41391 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60145032001, 60145032003

SAMPLE DUPLICATE: 1190982

Parameter	Units	60145054001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.1	8.2	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

QC Batch: WETA/24806 Analysis Method: EPA 350.1
 QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
 Associated Lab Samples: 60145032001, 60145032003

METHOD BLANK: 1192313 Matrix: Water

Associated Lab Samples: 60145032001, 60145032003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/23/13 12:23	

LABORATORY CONTROL SAMPLE: 1192314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	1.9	97	90-110	

MATRIX SPIKE SAMPLE: 1192315

Parameter	Units	60144695001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.6	82	90-110	M1

MATRIX SPIKE SAMPLE: 1192316

Parameter	Units	60144700001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.13	2	1.9	87	90-110	M1

SAMPLE DUPLICATE: 1192317

Parameter	Units	60144708001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.25	0.24	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

QC Batch: WETA/24794 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60145032001, 60145032003

METHOD BLANK: 1191501 Matrix: Water

Associated Lab Samples: 60145032001, 60145032003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/24/13 07:44	

LABORATORY CONTROL SAMPLE: 1191502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	46.4	93	90-110	

MATRIX SPIKE SAMPLE: 1191503

Parameter	Units	60144544001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	61.0	50	105	87	90-110	M1

MATRIX SPIKE SAMPLE: 1191505

Parameter	Units	60144837002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	57.4	50	104	93	90-110	

SAMPLE DUPLICATE: 1191504

Parameter	Units	60144743001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	10100	10200	1	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 131/136 MSD

Pace Project No.: 60145032

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
- D9 Dissolved result is greater than the total. Data is within laboratory control limits.
- H6 Analysis initiated outside of the 15 minute EPA recommended holding time.
- L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- 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.
- M4 A matrix spike/matrix spike duplicate was not performed for this batch due to sample dilution.
- 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 131/136 MSD

Pace Project No.: 60145032

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145032001	131-MSD	EPA 200.7	MPRP/22732	EPA 200.7	ICP/18001
60145032003	136-MSD	EPA 200.7	MPRP/22732	EPA 200.7	ICP/18001
60145032001	131-MSD	EPA 200.7	MPRP/22761	EPA 200.7	ICP/18014
60145032003	136-MSD	EPA 200.7	MPRP/22761	EPA 200.7	ICP/18014
60145032001	131-MSD	EPA 245.1	MERP/7364	EPA 245.1	MERC/7320
60145032003	136-MSD	EPA 245.1	MERP/7364	EPA 245.1	MERC/7320
60145032001	131-MSD	EPA 245.1	MERP/7361	EPA 245.1	MERC/7319
60145032003	136-MSD	EPA 245.1	MERP/7361	EPA 245.1	MERC/7319
60145032001	131-MSD	EPA 625	OEXT/38482	EPA 625	MSSV/12167
60145032003	136-MSD	EPA 625	OEXT/38482	EPA 625	MSSV/12167
60145032001	131-MSD	EPA 624 Low	MSV/53901		
60145032002	TRIP BLANK	EPA 624 Low	MSV/53901		
60145032003	136-MSD	EPA 624 Low	MSV/53901		
60145032004	TRIP BLANK	EPA 624 Low	MSV/53901		
60145032001	131-MSD	EPA 1664A	WET/41378		
60145032003	136-MSD	EPA 1664A	WET/41378		
60145032001	131-MSD	SM 2540D	WET/41381		
60145032003	136-MSD	SM 2540D	WET/41381		
60145032001	131-MSD	SM 4500-H+B	WET/41391		
60145032003	136-MSD	SM 4500-H+B	WET/41391		
60145032001	131-MSD	EPA 350.1	WETA/24806		
60145032003	136-MSD	EPA 350.1	WETA/24806		
60145032001	131-MSD	EPA 410.4	WETA/24794		
60145032003	136-MSD	EPA 410.4	WETA/24794		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60145032



Client Name: Bmr

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

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

Cooler Temperature: 2.6 0.2 (circle one)

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: Bmr 5/20/13

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 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>PT</u>	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace containers used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.	
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.	
Exceptions: VOA, coliform, TOC, <u>DBP</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed	Lot # of added preservative
Trip Blank present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank lot # (if purchased):		15.	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input 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: 5/20/13

May 29, 2013

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

RE: Project: BRIDGETON LF 138-MSD
Pace Project No.: 60145137

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 22, 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 138-MSD

Pace Project No.: 60145137

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 138-MSD

Pace Project No.: 60145137

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145137001	138-MSD	Water	05/21/13 09:00	05/22/13 06:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145137

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145137001	138-MSD	SM 2540D	RAS	1
		SM 4500-H+B	JML	1
		SM 5210B	JMC1	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145137

Sample: 138-MSD		Lab ID: 60145137001	Collected: 05/21/13 09:00	Received: 05/22/13 06:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	675	mg/L	5.0	1		05/22/13 10:39		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.6	Std. Units	0.10	1		05/23/13 16:00		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	25600	mg/L	2.0	1	05/22/13 11:25	05/27/13 08:47		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145137

QC Batch: WET/41421

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60145137001

METHOD BLANK: 1191616

Matrix: Water

Associated Lab Samples: 60145137001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/22/13 10:37	

SAMPLE DUPLICATE: 1191617

Parameter	Units	60145126003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	5.0	ND		25	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145137

QC Batch: WET/41467 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60145137001

SAMPLE DUPLICATE: 1193140

Parameter	Units	60145188003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	4.0	4.0	0	5	H6

SAMPLE DUPLICATE: 1193141

Parameter	Units	60145188004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145137

QC Batch: WET/41419

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60145137001

METHOD BLANK: 1191607

Matrix: Water

Associated Lab Samples: 60145137001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/27/13 08:13	

LABORATORY CONTROL SAMPLE: 1191608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	192	97	85-115	

SAMPLE DUPLICATE: 1191609

Parameter	Units	60145140002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	4.1	3.9	4	17	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145137

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145137

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145137001	138-MSD	SM 2540D	WET/41421		
60145137001	138-MSD	SM 4500-H+B	WET/41467		
60145137001	138-MSD	SM 5210B	WET/41419	SM 5210B	WET/41503

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60145137

60145137

Client Name: Barr

Optional
Proj Due Date:
Proj Name:

Courier: Fed Ex UPS USPS Client Commercial Pace Other U/A

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

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

Cooler Temperature: 2.2

Date and initials of person examining contents: for Start's

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 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>See pg</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>collected @ 0900</u>
Includes date/time/ID/analyses Matrix: <u>wt</u>		
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	
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: [Signature]

May 30, 2013

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

RE: Project: BRIDGETON LF 138-MSD
Pace Project No.: 60145181

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 22, 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 138-MSD

Pace Project No.: 60145181

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 138-MSD

Pace Project No.: 60145181

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145181001	138-MSD	Water	05/21/13 09:00	05/22/13 06:15
60145181002	TRIP BLANK	Water	05/21/13 00:00	05/22/13 06:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145181001	138-MSD	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	PRG	38
		EPA 1664A	JMC1	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
60145181002	TRIP BLANK	EPA 624 Low	PRG	38

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

Sample: 138-MSD		Lab ID: 60145181001	Collected: 05/21/13 09:00	Received: 05/22/13 06:15	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	4970 ug/L		150	2	05/28/13 10:13	05/29/13 17:35	7429-90-5	
Antimony	30.6 ug/L		20.0	2	05/28/13 10:13	05/29/13 17:35	7440-36-0	
Arsenic	448 ug/L		20.0	2	05/28/13 10:13	05/29/13 17:35	7440-38-2	
Beryllium	ND ug/L		2.0	2	05/28/13 10:13	05/29/13 17:35	7440-41-7	D3
Cadmium	ND ug/L		10.0	2	05/28/13 10:13	05/29/13 17:35	7440-43-9	D3
Chromium	219 ug/L		10.0	2	05/28/13 10:13	05/29/13 17:35	7440-47-3	
Cobalt	27.4 ug/L		10.0	2	05/28/13 10:13	05/29/13 17:35	7440-48-4	
Copper	ND ug/L		20.0	2	05/28/13 10:13	05/29/13 17:35	7440-50-8	D3
Iron	651000 ug/L		100	2	05/28/13 10:13	05/29/13 17:35	7439-89-6	
Lead	119 ug/L		10.0	2	05/28/13 10:13	05/29/13 17:35	7439-92-1	
Nickel	92.7 ug/L		10.0	2	05/28/13 10:13	05/29/13 17:35	7440-02-0	
Selenium	ND ug/L		30.0	2	05/28/13 10:13	05/29/13 17:35	7782-49-2	D3
Silver	ND ug/L		14.0	2	05/28/13 10:13	05/29/13 17:35	7440-22-4	D3
Thallium	ND ug/L		60.0	3	05/28/13 10:13	05/29/13 17:50	7440-28-0	D3
Zinc	12700 ug/L		100	2	05/28/13 10:13	05/29/13 17:35	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	3930 ug/L		150	2	05/29/13 11:24	05/30/13 10:28	7429-90-5	
Antimony, Dissolved	26.6 ug/L		20.0	2	05/29/13 11:24	05/30/13 10:28	7440-36-0	
Arsenic, Dissolved	478 ug/L		20.0	2	05/29/13 11:24	05/30/13 10:28	7440-38-2	D9
Beryllium, Dissolved	ND ug/L		2.0	2	05/29/13 11:24	05/30/13 10:28	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		10.0	2	05/29/13 11:24	05/30/13 10:28	7440-43-9	D3
Chromium, Dissolved	194 ug/L		10.0	2	05/29/13 11:24	05/30/13 10:28	7440-47-3	
Cobalt, Dissolved	28.1 ug/L		10.0	2	05/29/13 11:24	05/30/13 10:28	7440-48-4	D9
Copper, Dissolved	20.0 ug/L		20.0	2	05/29/13 11:24	05/30/13 10:28	7440-50-8	D9
Iron, Dissolved	577000 ug/L		100	2	05/29/13 11:24	05/30/13 10:28	7439-89-6	
Lead, Dissolved	82.8 ug/L		10.0	2	05/29/13 11:24	05/30/13 10:28	7439-92-1	
Nickel, Dissolved	88.3 ug/L		10.0	2	05/29/13 11:24	05/30/13 10:28	7440-02-0	
Selenium, Dissolved	ND ug/L		30.0	2	05/29/13 11:24	05/30/13 10:28	7782-49-2	D3
Silver, Dissolved	ND ug/L		14.0	2	05/29/13 11:24	05/30/13 10:28	7440-22-4	D3
Thallium, Dissolved	ND ug/L		60.0	3	05/29/13 11:24	05/30/13 10:33	7440-28-0	D3
Zinc, Dissolved	11700 ug/L		100	2	05/29/13 11:24	05/30/13 10:28	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	0.63 ug/L		0.20	1	05/24/13 15:25	05/27/13 15:52	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	05/29/13 16:45	05/30/13 10:51	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	83-32-9	
Acenaphthylene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	208-96-8	
Anthracene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	120-12-7	
Benzidine	ND ug/L		2500	50	05/23/13 00:00	05/24/13 15:35	92-87-5	
Benzo(a)anthracene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	56-55-3	
Benzo(a)pyrene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

Sample: 138-MSD	Lab ID: 60145181001	Collected: 05/21/13 09:00	Received: 05/22/13 06:15	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		250	50	05/23/13 00:00	05/24/13 15:35	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	191-24-2	
Benzo(k)fluoranthene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	207-08-9	
4-Bromophenylphenyl ether	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	101-55-3	
Butylbenzylphthalate	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	85-68-7	
4-Chloro-3-methylphenol	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	59-50-7	
bis(2-Chloroethoxy)methane	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		300	50	05/23/13 00:00	05/24/13 15:35	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		300	50	05/23/13 00:00	05/24/13 15:35	39638-32-9	
2-Chloronaphthalene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	91-58-7	
2-Chlorophenol	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	7005-72-3	
Chrysene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	53-70-3	
3,3'-Dichlorobenzidine	ND ug/L		1000	50	05/23/13 00:00	05/24/13 15:35	91-94-1	
2,4-Dichlorophenol	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	120-83-2	
Diethylphthalate	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	84-66-2	
2,4-Dimethylphenol	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	105-67-9	
Dimethylphthalate	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	131-11-3	
Di-n-butylphthalate	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		1250	50	05/23/13 00:00	05/24/13 15:35	534-52-1	
2,4-Dinitrophenol	ND ug/L		2500	50	05/23/13 00:00	05/24/13 15:35	51-28-5	
2,4-Dinitrotoluene	ND ug/L		300	50	05/23/13 00:00	05/24/13 15:35	121-14-2	
2,6-Dinitrotoluene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	606-20-2	
Di-n-octylphthalate	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	117-81-7	
Fluoranthene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	206-44-0	
Fluorene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	87-68-3	
Hexachlorobenzene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	77-47-4	
Hexachloroethane	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	193-39-5	
Isophorone	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	78-59-1	
Naphthalene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	91-20-3	
Nitrobenzene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	98-95-3	
2-Nitrophenol	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	88-75-5	
4-Nitrophenol	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	100-02-7	
N-Nitrosodimethylamine	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	86-30-6	
Pentachlorophenol	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	87-86-5	
Phenanthrene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	85-01-8	
Phenol	1940 ug/L		250	50	05/23/13 00:00	05/24/13 15:35	108-95-2	
Pyrene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		250	50	05/23/13 00:00	05/24/13 15:35	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

Sample: 138-MSD		Lab ID: 60145181001	Collected: 05/21/13 09:00	Received: 05/22/13 06:15	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	50	05/23/13 00:00	05/24/13 15:35	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	50	05/23/13 00:00	05/24/13 15:35	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	50	05/23/13 00:00	05/24/13 15:35	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	50	05/23/13 00:00	05/24/13 15:35	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	50	05/23/13 00:00	05/24/13 15:35	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	50	05/23/13 00:00	05/24/13 15:35	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		05/24/13 17:01	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/24/13 17:01	75-27-4	
Bromoform	ND ug/L		200	200		05/24/13 17:01	75-25-2	
Bromomethane	ND ug/L		1000	200		05/24/13 17:01	74-83-9	L3
Carbon tetrachloride	ND ug/L		200	200		05/24/13 17:01	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/24/13 17:01	108-90-7	
Chloroethane	ND ug/L		200	200		05/24/13 17:01	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/24/13 17:01	110-75-8	
Chloroform	ND ug/L		200	200		05/24/13 17:01	67-66-3	
Chloromethane	ND ug/L		200	200		05/24/13 17:01	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/24/13 17:01	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/24/13 17:01	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/24/13 17:01	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/24/13 17:01	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/24/13 17:01	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/24/13 17:01	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/24/13 17:01	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/24/13 17:01	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/24/13 17:01	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/24/13 17:01	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/24/13 17:01	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/24/13 17:01	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/24/13 17:01	100-41-4	
Methylene chloride	ND ug/L		200	200		05/24/13 17:01	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/24/13 17:01	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/24/13 17:01	127-18-4	
Toluene	ND ug/L		200	200		05/24/13 17:01	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/24/13 17:01	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/24/13 17:01	79-00-5	
Trichloroethene	ND ug/L		200	200		05/24/13 17:01	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/24/13 17:01	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/24/13 17:01	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/24/13 17:01	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	103 %		80-120	200		05/24/13 17:01	1868-53-7	D3
4-Bromofluorobenzene (S)	98 %		80-120	200		05/24/13 17:01	460-00-4	
Toluene-d8 (S)	102 %		80-120	200		05/24/13 17:01	2037-26-5	
1,2-Dichloroethane-d4 (S)	97 %		80-120	200		05/24/13 17:01	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

Sample: 138-MSD		Lab ID: 60145181001	Collected: 05/21/13 09:00	Received: 05/22/13 06:15	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		05/24/13 17:01		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	62.7	mg/L	5.0	1		05/24/13 07:58		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	562	mg/L	20.0	200		05/23/13 12:30	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	41200	mg/L	5000	500		05/30/13 07:55		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

Sample: TRIP BLANK		Lab ID: 60145181002	Collected: 05/21/13 00:00	Received: 05/22/13 06:15	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		05/24/13 15:40	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		05/24/13 15:40	75-27-4	
Bromoform	ND ug/L		1.0	1		05/24/13 15:40	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/24/13 15:40	74-83-9	L3
Carbon tetrachloride	ND ug/L		1.0	1		05/24/13 15:40	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/24/13 15:40	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/24/13 15:40	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		05/24/13 15:40	110-75-8	
Chloroform	ND ug/L		1.0	1		05/24/13 15:40	67-66-3	
Chloromethane	ND ug/L		1.0	1		05/24/13 15:40	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		05/24/13 15:40	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/24/13 15:40	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/24/13 15:40	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/24/13 15:40	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		05/24/13 15:40	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/24/13 15:40	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/24/13 15:40	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/24/13 15:40	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/24/13 15:40	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		05/24/13 15:40	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		05/24/13 15:40	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		05/24/13 15:40	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		05/24/13 15:40	100-41-4	
Methylene chloride	ND ug/L		1.0	1		05/24/13 15:40	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/24/13 15:40	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/24/13 15:40	127-18-4	
Toluene	ND ug/L		1.0	1		05/24/13 15:40	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/24/13 15:40	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/24/13 15:40	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/24/13 15:40	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/24/13 15:40	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		05/24/13 15:40	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/24/13 15:40	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98 %		80-120	1		05/24/13 15:40	1868-53-7	
4-Bromofluorobenzene (S)	102 %		80-120	1		05/24/13 15:40	460-00-4	
Toluene-d8 (S)	103 %		80-120	1		05/24/13 15:40	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		80-120	1		05/24/13 15:40	17060-07-0	
Preservation pH	7.0			1		05/24/13 15:40		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD
Pace Project No.: 60145181

QC Batch: MERP/7379 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60145181001

METHOD BLANK: 1193937 Matrix: Water
Associated Lab Samples: 60145181001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/27/13 15:48	

LABORATORY CONTROL SAMPLE: 1193938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.5	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1193939 1193940

Parameter	Units	60145193002 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Mercury	ug/L	ND	5	5	4.2	4.4	85	87	70-130	3	20	

MATRIX SPIKE SAMPLE: 1193941

Parameter	Units	60145296004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.2	81	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

QC Batch:	MERP/7386	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury - Dissolved
Associated Lab Samples:	60145181001		

METHOD BLANK: 1195833 Matrix: Water

Associated Lab Samples: 60145181001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/30/13 10:22	

LABORATORY CONTROL SAMPLE: 1195834

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1195835 1195836

Parameter	Units	60145231001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury, Dissolved	ug/L	ND		5	5	4.5	4.6	90	91	70-130	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD
Pace Project No.: 60145181

QC Batch: MPRP/22810 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60145181001

METHOD BLANK: 1195056 Matrix: Water
Associated Lab Samples: 60145181001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	05/29/13 17:30	
Antimony	ug/L	ND	10.0	05/29/13 17:30	
Arsenic	ug/L	ND	10.0	05/29/13 17:30	
Beryllium	ug/L	ND	1.0	05/29/13 17:30	
Cadmium	ug/L	ND	5.0	05/29/13 17:30	
Chromium	ug/L	ND	5.0	05/29/13 17:30	
Cobalt	ug/L	ND	5.0	05/29/13 17:30	
Copper	ug/L	ND	10.0	05/29/13 17:30	
Iron	ug/L	ND	50.0	05/29/13 17:30	
Lead	ug/L	ND	5.0	05/29/13 17:30	
Nickel	ug/L	ND	5.0	05/29/13 17:30	
Selenium	ug/L	ND	15.0	05/29/13 17:30	
Silver	ug/L	ND	7.0	05/29/13 17:30	
Thallium	ug/L	ND	20.0	05/29/13 17:30	
Zinc	ug/L	ND	50.0	05/29/13 17:30	

LABORATORY CONTROL SAMPLE: 1195057

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9750	97	85-115	
Antimony	ug/L	1000	981	98	85-115	
Arsenic	ug/L	1000	951	95	85-115	
Beryllium	ug/L	1000	961	96	85-115	
Cadmium	ug/L	1000	968	97	85-115	
Chromium	ug/L	1000	1000	100	85-115	
Cobalt	ug/L	1000	983	98	85-115	
Copper	ug/L	1000	965	97	85-115	
Iron	ug/L	10000	9680	97	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	990	99	85-115	
Silver	ug/L	500	514	103	85-115	
Thallium	ug/L	1000	992	99	85-115	
Zinc	ug/L	1000	1030	103	85-115	

SAMPLE DUPLICATE: 1195058

Parameter	Units	60145336001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	9330	8960	4	20	
Antimony	ug/L	ND	26.2		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

SAMPLE DUPLICATE: 1195058

Parameter	Units	60145336001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	743	765	3	20	
Beryllium	ug/L	ND	ND		20	D3
Cadmium	ug/L	ND	ND		20	D3
Chromium	ug/L	260	258	1	20	
Cobalt	ug/L	36.0	34.0	6	20	
Copper	ug/L	59.7	60.5	1	20	
Iron	ug/L	885000	885000	0	20	
Lead	ug/L	156	167	7	20	
Nickel	ug/L	114	113	1	20	
Selenium	ug/L	ND	ND		20	D3
Silver	ug/L	ND	4.7J		20	D3
Thallium	ug/L	ND	ND		20	D3
Zinc	ug/L	13700	13700	0	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

QC Batch: MPRP/22827

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60145181001

METHOD BLANK: 1195623

Matrix: Water

Associated Lab Samples: 60145181001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	05/30/13 10:15	
Antimony, Dissolved	ug/L	ND	10.0	05/30/13 10:15	
Arsenic, Dissolved	ug/L	ND	10.0	05/30/13 10:15	
Beryllium, Dissolved	ug/L	ND	1.0	05/30/13 10:15	
Cadmium, Dissolved	ug/L	ND	5.0	05/30/13 10:15	
Chromium, Dissolved	ug/L	ND	5.0	05/30/13 10:15	
Cobalt, Dissolved	ug/L	ND	5.0	05/30/13 10:15	
Copper, Dissolved	ug/L	ND	10.0	05/30/13 10:15	
Iron, Dissolved	ug/L	ND	50.0	05/30/13 10:15	
Lead, Dissolved	ug/L	ND	5.0	05/30/13 10:15	
Nickel, Dissolved	ug/L	ND	5.0	05/30/13 10:15	
Selenium, Dissolved	ug/L	ND	15.0	05/30/13 10:15	
Silver, Dissolved	ug/L	ND	7.0	05/30/13 10:15	
Thallium, Dissolved	ug/L	ND	20.0	05/30/13 10:15	
Zinc, Dissolved	ug/L	ND	50.0	05/30/13 10:15	

LABORATORY CONTROL SAMPLE: 1195624

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	10700	107	85-115	
Antimony, Dissolved	ug/L	1000	1040	104	85-115	
Arsenic, Dissolved	ug/L	1000	996	100	85-115	
Beryllium, Dissolved	ug/L	1000	1030	103	85-115	
Cadmium, Dissolved	ug/L	1000	1010	101	85-115	
Chromium, Dissolved	ug/L	1000	985	99	85-115	
Cobalt, Dissolved	ug/L	1000	1040	104	85-115	
Copper, Dissolved	ug/L	1000	1010	101	85-115	
Iron, Dissolved	ug/L	10000	9860	99	85-115	
Lead, Dissolved	ug/L	1000	1040	104	85-115	
Nickel, Dissolved	ug/L	1000	1050	105	85-115	
Selenium, Dissolved	ug/L	1000	1020	102	85-115	
Silver, Dissolved	ug/L	500	506	101	85-115	
Thallium, Dissolved	ug/L	1000	1050	105	85-115	
Zinc, Dissolved	ug/L	1000	1010	101	85-115	

SAMPLE DUPLICATE: 1195625

Parameter	Units	60145181001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum, Dissolved	ug/L	3930	4010	2	20	
Antimony, Dissolved	ug/L	26.6	15.6J		20 D3	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

SAMPLE DUPLICATE: 1195625

Parameter	Units	60145181001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic, Dissolved	ug/L	478	473	1	20	
Beryllium, Dissolved	ug/L	ND	ND		20	D3
Cadmium, Dissolved	ug/L	ND	ND		20	D3
Chromium, Dissolved	ug/L	194	192	1	20	
Cobalt, Dissolved	ug/L	28.1	28.6	2	20	
Copper, Dissolved	ug/L	20.0	ND		20	D3
Iron, Dissolved	ug/L	577000	560000	3	20	
Lead, Dissolved	ug/L	82.8	81.4	2	20	
Nickel, Dissolved	ug/L	88.3	88.0	0	20	
Selenium, Dissolved	ug/L	ND	ND		20	D3
Silver, Dissolved	ug/L	ND	7.8J		20	D3
Thallium, Dissolved	ug/L	ND	ND		20	D3
Zinc, Dissolved	ug/L	11700	11700	0	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

QC Batch: MSV/53901 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60145181001, 60145181002

METHOD BLANK: 1193614 Matrix: Water

Associated Lab Samples: 60145181001, 60145181002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/24/13 11:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/24/13 11:36	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/24/13 11:36	
1,1-Dichloroethane	ug/L	ND	1.0	05/24/13 11:36	
1,1-Dichloroethene	ug/L	ND	1.0	05/24/13 11:36	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/24/13 11:36	
1,2-Dichloroethane	ug/L	ND	1.0	05/24/13 11:36	
1,2-Dichloropropane	ug/L	ND	1.0	05/24/13 11:36	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/24/13 11:36	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/24/13 11:36	
2-Chloroethylvinyl ether	ug/L	ND	10.0	05/24/13 11:36	
Benzene	ug/L	ND	1.0	05/24/13 11:36	
Bromodichloromethane	ug/L	ND	1.0	05/24/13 11:36	
Bromoform	ug/L	ND	1.0	05/24/13 11:36	
Bromomethane	ug/L	ND	5.0	05/24/13 11:36	
Carbon tetrachloride	ug/L	ND	1.0	05/24/13 11:36	
Chlorobenzene	ug/L	ND	1.0	05/24/13 11:36	
Chloroethane	ug/L	ND	1.0	05/24/13 11:36	
Chloroform	ug/L	ND	1.0	05/24/13 11:36	
Chloromethane	ug/L	ND	1.0	05/24/13 11:36	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/24/13 11:36	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/24/13 11:36	
Dibromochloromethane	ug/L	ND	1.0	05/24/13 11:36	
Ethylbenzene	ug/L	ND	1.0	05/24/13 11:36	
Methylene chloride	ug/L	ND	1.0	05/24/13 11:36	
Tetrachloroethene	ug/L	ND	1.0	05/24/13 11:36	
Toluene	ug/L	ND	1.0	05/24/13 11:36	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/24/13 11:36	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/24/13 11:36	
Trichloroethene	ug/L	ND	1.0	05/24/13 11:36	
Trichlorofluoromethane	ug/L	ND	1.0	05/24/13 11:36	
Vinyl chloride	ug/L	ND	1.0	05/24/13 11:36	
Xylene (Total)	ug/L	ND	3.0	05/24/13 11:36	
1,2-Dichloroethane-d4 (S)	%	87	80-120	05/24/13 11:36	
4-Bromofluorobenzene (S)	%	103	80-120	05/24/13 11:36	
Dibromofluoromethane (S)	%	96	80-120	05/24/13 11:36	
Toluene-d8 (S)	%	98	80-120	05/24/13 11:36	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

LABORATORY CONTROL SAMPLE: 1193615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	23.1	115	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	22.2	111	59-138	
1,1,2-Trichloroethane	ug/L	20	22.5	112	69-127	
1,1-Dichloroethane	ug/L	20	20.2	101	69-126	
1,1-Dichloroethene	ug/L	20	21.9	109	65-153	
1,2-Dichlorobenzene	ug/L	20	22.5	113	66-126	
1,2-Dichloroethane	ug/L	20	21.9	109	71-129	
1,2-Dichloropropane	ug/L	20	23.1	115	66-140	
1,3-Dichlorobenzene	ug/L	20	22.3	111	63-127	
1,4-Dichlorobenzene	ug/L	20	22.6	113	68-124	
2-Chloroethylvinyl ether	ug/L	20	20.1	101	33-159	
Benzene	ug/L	20	22.4	112	73-129	
Bromodichloromethane	ug/L	20	22.2	111	63-129	
Bromoform	ug/L	20	21.5	108	52-123	
Bromomethane	ug/L	20	38.6	193	10-160	L0
Carbon tetrachloride	ug/L	20	23.0	115	70-140	
Chlorobenzene	ug/L	20	22.7	113	68-127	
Chloroethane	ug/L	20	19.6	98	42-160	
Chloroform	ug/L	20	21.8	109	60-120	
Chloromethane	ug/L	20	23.7	119	10-160	
cis-1,2-Dichloroethene	ug/L	20	21.8	109	70-125	
cis-1,3-Dichloropropene	ug/L	20	22.4	112	66-132	
Dibromochloromethane	ug/L	20	23.0	115	63-134	
Ethylbenzene	ug/L	20	23.6	118	66-133	
Methylene chloride	ug/L	20	20.6	103	56-135	
Tetrachloroethene	ug/L	20	23.5	117	64-143	
Toluene	ug/L	20	22.7	114	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.4	107	67-149	
trans-1,3-Dichloropropene	ug/L	20	24.8	124	66-138	
Trichloroethene	ug/L	20	21.9	109	71-130	
Trichlorofluoromethane	ug/L	20	19.4	97	58-158	
Vinyl chloride	ug/L	20	21.0	105	41-160	
Xylene (Total)	ug/L	60	69.5	116	67-130	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Dibromofluoromethane (S)	%			96	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1193616

Parameter	Units	60144983001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.090	20	20.8	104	52-160	
1,1,2,2-Tetrachloroethane	ug/L	<0.15	20	16.4	82	46-157	
1,1,2-Trichloroethane	ug/L	<0.19	20	17.6	88	52-150	
1,1-Dichloroethane	ug/L	<0.090	20	17.7	89	59-155	
1,1-Dichloroethene	ug/L	<0.16	20	20.6	103	14-160	
1,2-Dichlorobenzene	ug/L	<0.14	20	17.4	87	18-145	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

MATRIX SPIKE SAMPLE:		1193616						
Parameter	Units	60144983001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,2-Dichloroethane	ug/L	<0.090	20	17.9	90	49-155		
1,2-Dichloropropane	ug/L	<0.12	20	19.5	98	12-160		
1,3-Dichlorobenzene	ug/L	<0.080	20	17.9	89	59-146		
1,4-Dichlorobenzene	ug/L	<0.11	20	17.8	88	18-147		
2-Chloroethylvinyl ether	ug/L	<0.090	20	16.4	82	10-160		
Benzene	ug/L	<0.080	20	19.5	98	37-151		
Bromodichloromethane	ug/L	<0.25	20	18.1	91	35-155		
Bromoform	ug/L	<0.36	20	16.7	84	45-133		
Bromomethane	ug/L	<0.22	20	31.9	160	10-160		
Carbon tetrachloride	ug/L	<0.16	20	20.7	104	70-140		
Chlorobenzene	ug/L	<0.070	20	18.9	94	37-153		
Chloroethane	ug/L	<0.17	20	17.1	86	14-160		
Chloroform	ug/L	0.36J	20	18.2	89	51-138		
Chloromethane	ug/L	<0.19	20	20.1	101	10-160		
cis-1,2-Dichloroethene	ug/L	<0.12	20	19.2	96	19-160		
cis-1,3-Dichloropropene	ug/L	<0.090	20	18.7	94	10-160		
Dibromochloromethane	ug/L	<0.090	20	17.8	89	53-149		
Ethylbenzene	ug/L	<0.16	20	19.5	97	37-154		
Methylene chloride	ug/L	<0.23	20	17.9	90	15-156		
Tetrachloroethene	ug/L	<0.20	20	20.9	105	64-148		
Toluene	ug/L	<0.10	20	19.9	99	47-150		
trans-1,2-Dichloroethene	ug/L	<0.080	20	19.4	97	54-156		
trans-1,3-Dichloropropene	ug/L	<0.050	20	19.7	99	17-160		
Trichloroethene	ug/L	<0.16	20	18.8	94	71-157		
Trichlorofluoromethane	ug/L	<0.080	20	18.0	90	17-160		
Vinyl chloride	ug/L	<0.080	20	18.6	93	10-160		
Xylene (Total)	ug/L	<0.25	60	58.7	98	12-153		
1,2-Dichloroethane-d4 (S)	%				98	80-120		
4-Bromofluorobenzene (S)	%				100	80-120		
Dibromofluoromethane (S)	%				96	80-120		
Toluene-d8 (S)	%				101	80-120		
Preservation pH		7.0		7.0				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

QC Batch: OEXT/38538

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60145181001

METHOD BLANK: 1192304

Matrix: Water

Associated Lab Samples: 60145181001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/24/13 14:54	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/24/13 14:54	
2,4-Dichlorophenol	ug/L	ND	5.0	05/24/13 14:54	
2,4-Dimethylphenol	ug/L	ND	5.0	05/24/13 14:54	
2,4-Dinitrophenol	ug/L	ND	50.0	05/24/13 14:54	
2,4-Dinitrotoluene	ug/L	ND	6.0	05/24/13 14:54	
2,6-Dinitrotoluene	ug/L	ND	5.0	05/24/13 14:54	
2-Chloronaphthalene	ug/L	ND	5.0	05/24/13 14:54	
2-Chlorophenol	ug/L	ND	5.0	05/24/13 14:54	
2-Nitrophenol	ug/L	ND	5.0	05/24/13 14:54	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	05/24/13 14:54	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/24/13 14:54	
4-Bromophenylphenyl ether	ug/L	ND	5.0	05/24/13 14:54	
4-Chloro-3-methylphenol	ug/L	ND	5.0	05/24/13 14:54	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	05/24/13 14:54	
4-Nitrophenol	ug/L	ND	5.0	05/24/13 14:54	
Acenaphthene	ug/L	ND	5.0	05/24/13 14:54	
Acenaphthylene	ug/L	ND	5.0	05/24/13 14:54	
Anthracene	ug/L	ND	5.0	05/24/13 14:54	
Benzidine	ug/L	ND	50.0	05/24/13 14:54	
Benzo(a)anthracene	ug/L	ND	5.0	05/24/13 14:54	
Benzo(a)pyrene	ug/L	ND	5.0	05/24/13 14:54	
Benzo(b)fluoranthene	ug/L	ND	5.0	05/24/13 14:54	
Benzo(g,h,i)perylene	ug/L	ND	5.0	05/24/13 14:54	
Benzo(k)fluoranthene	ug/L	ND	5.0	05/24/13 14:54	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	05/24/13 14:54	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	05/24/13 14:54	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	05/24/13 14:54	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	05/24/13 14:54	
Butylbenzylphthalate	ug/L	ND	5.0	05/24/13 14:54	
Chrysene	ug/L	ND	5.0	05/24/13 14:54	
Di-n-butylphthalate	ug/L	ND	5.0	05/24/13 14:54	
Di-n-octylphthalate	ug/L	ND	5.0	05/24/13 14:54	
Dibenz(a,h)anthracene	ug/L	ND	5.0	05/24/13 14:54	
Diethylphthalate	ug/L	ND	5.0	05/24/13 14:54	
Dimethylphthalate	ug/L	ND	5.0	05/24/13 14:54	
Fluoranthene	ug/L	ND	5.0	05/24/13 14:54	
Fluorene	ug/L	ND	5.0	05/24/13 14:54	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/24/13 14:54	
Hexachlorobenzene	ug/L	ND	5.0	05/24/13 14:54	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/24/13 14:54	
Hexachloroethane	ug/L	ND	5.0	05/24/13 14:54	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	05/24/13 14:54	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD
Project No.: 60145181

METHOD BLANK: 1192304 Matrix: Water

Associated Lab Samples: 60145181001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	05/24/13 14:54	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	05/24/13 14:54	
N-Nitrosodimethylamine	ug/L	ND	5.0	05/24/13 14:54	
N-Nitrosodiphenylamine	ug/L	ND	5.0	05/24/13 14:54	
Naphthalene	ug/L	ND	5.0	05/24/13 14:54	
Nitrobenzene	ug/L	ND	5.0	05/24/13 14:54	
Pentachlorophenol	ug/L	ND	5.0	05/24/13 14:54	
Phenanthrene	ug/L	ND	5.0	05/24/13 14:54	
Phenol	ug/L	ND	5.0	05/24/13 14:54	
Pyrene	ug/L	ND	5.0	05/24/13 14:54	
2,4,6-Tribromophenol (S)	%	83	39-119	05/24/13 14:54	
2-Fluorobiphenyl (S)	%	80	36-120	05/24/13 14:54	
2-Fluorophenol (S)	%	40	18-120	05/24/13 14:54	
Nitrobenzene-d5 (S)	%	77	32-120	05/24/13 14:54	
Phenol-d6 (S)	%	25	12-120	05/24/13 14:54	
Terphenyl-d14 (S)	%	88	44-120	05/24/13 14:54	

LABORATORY CONTROL SAMPLE: 1192305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	42.3	85	44-120	
2,4,6-Trichlorophenol	ug/L	50	44.5	89	48-120	
2,4-Dichlorophenol	ug/L	50	42.4	85	48-120	
2,4-Dimethylphenol	ug/L	50	36.5	73	37-119	
2,4-Dinitrophenol	ug/L	50	41.9J	84	15-153	
2,4-Dinitrotoluene	ug/L	50	47.1	94	54-120	
2,6-Dinitrotoluene	ug/L	50	46.5	93	52-120	
2-Chloronaphthalene	ug/L	50	43.9	88	60-118	
2-Chlorophenol	ug/L	50	38.6	77	44-120	
2-Nitrophenol	ug/L	50	43.9	88	43-120	
3,3'-Dichlorobenzidine	ug/L	50	58.1	116	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	48.9	98	31-147	
4-Bromophenylphenyl ether	ug/L	50	46.0	92	53-120	
4-Chloro-3-methylphenol	ug/L	50	43.0	86	50-120	
4-Chlorophenylphenyl ether	ug/L	50	45.2	90	54-120	
4-Nitrophenol	ug/L	50	15.2	30	10-120	
Acenaphthene	ug/L	50	45.0	90	51-120	
Acenaphthylene	ug/L	50	44.1	88	51-120	
Anthracene	ug/L	50	45.6	91	54-120	
Benzidine	ug/L	50	11.6J	23	1-124	
Benzo(a)anthracene	ug/L	50	46.0	92	54-120	
Benzo(a)pyrene	ug/L	50	47.2	94	54-120	
Benzo(b)fluoranthene	ug/L	50	49.9	100	57-120	
Benzo(g,h,i)perylene	ug/L	50	46.9	94	54-120	
Benzo(k)fluoranthene	ug/L	50	44.6	89	52-121	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

LABORATORY CONTROL SAMPLE: 1192305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	50	43.8	88	51-120	
bis(2-Chloroethyl) ether	ug/L	50	44.2	88	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	42.7	85	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	46.3	93	51-126	
Butylbenzylphthalate	ug/L	50	46.9	94	45-129	
Chrysene	ug/L	50	45.8	92	54-120	
Di-n-butylphthalate	ug/L	50	47.2	94	57-118	
Di-n-octylphthalate	ug/L	50	47.5	95	48-130	
Dibenz(a,h)anthracene	ug/L	50	46.4	93	56-119	
Diethylphthalate	ug/L	50	46.1	92	55-114	
Dimethylphthalate	ug/L	50	45.5	91	54-112	
Fluoranthene	ug/L	50	47.1	94	56-120	
Fluorene	ug/L	50	45.6	91	59-120	
Hexachloro-1,3-butadiene	ug/L	50	41.5	83	41-116	
Hexachlorobenzene	ug/L	50	45.6	91	53-120	
Hexachlorocyclopentadiene	ug/L	100	77.1	77	31-120	
Hexachloroethane	ug/L	50	41.4	83	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	46.7	93	55-120	
Isophorone	ug/L	50	44.6	89	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	44.5	89	47-120	
N-Nitrosodimethylamine	ug/L	50	21.2	42	28-120	
N-Nitrosodiphenylamine	ug/L	50	45.7	91	53-120	
Naphthalene	ug/L	50	43.0	86	48-120	
Nitrobenzene	ug/L	50	44.2	88	47-120	
Pentachlorophenol	ug/L	50	48.7	97	43-127	
Phenanthrene	ug/L	50	46.0	92	55-120	
Phenol	ug/L	50	14.2	28	15-112	
Pyrene	ug/L	50	46.6	93	55-115	
2,4,6-Tribromophenol (S)	%			94	39-119	
2-Fluorobiphenyl (S)	%			88	36-120	
2-Fluorophenol (S)	%			42	18-120	
Nitrobenzene-d5 (S)	%			85	32-120	
Phenol-d6 (S)	%			27	12-120	
Terphenyl-d14 (S)	%			93	44-120	

MATRIX SPIKE SAMPLE: 1192306

Parameter	Units	60145160002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	39.5	79	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	42.4	85	37-121	
2,4-Dichlorophenol	ug/L	ND	50	40.4	81	39-120	
2,4-Dimethylphenol	ug/L	ND	50	35.2	70	32-119	
2,4-Dinitrophenol	ug/L	ND	50	37.4J	75	20-157	
2,4-Dinitrotoluene	ug/L	ND	50	44.6	89	39-130	
2,6-Dinitrotoluene	ug/L	ND	50	42.9	86	50-128	
2-Chloronaphthalene	ug/L	ND	50	41.4	83	60-118	
2-Chlorophenol	ug/L	ND	50	37.4	75	35-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

MATRIX SPIKE SAMPLE:		1192306						
Parameter	Units	60145160002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
2-Nitrophenol	ug/L	ND	50	40.8	82	29-123		
3,3'-Dichlorobenzidine	ug/L	ND	50	45.8	92	10-160		
4,6-Dinitro-2-methylphenol	ug/L	ND	50	43.5	87	27-146		
4-Bromophenylphenyl ether	ug/L	ND	50	44.5	89	53-124		
4-Chloro-3-methylphenol	ug/L	ND	50	41.2	82	33-123		
4-Chlorophenylphenyl ether	ug/L	ND	50	42.9	86	34-125		
4-Nitrophenol	ug/L	ND	50	15.1	30	10-120		
Acenaphthene	ug/L	ND	50	42.4	85	47-120		
Acenaphthylene	ug/L	ND	50	41.7	83	33-120		
Anthracene	ug/L	ND	50	42.8	86	36-121		
Benzidine	ug/L	ND	50	2.4J	5	1-120		
Benzo(a)anthracene	ug/L	ND	50	43.1	86	37-127		
Benzo(a)pyrene	ug/L	ND	50	45.3	91	34-125		
Benzo(b)fluoranthene	ug/L	ND	50	45.6	91	37-131		
Benzo(g,h,i)perylene	ug/L	ND	50	44.5	89	35-128		
Benzo(k)fluoranthene	ug/L	ND	50	46.8	94	34-130		
bis(2-Chloroethoxy)methane	ug/L	ND	50	41.2	82	33-120		
bis(2-Chloroethyl) ether	ug/L	ND	50	42.4	85	32-120		
bis(2-Chloroisopropyl) ether	ug/L	ND	50	40.2	80	36-120		
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	44.0	88	38-137		
Butylbenzylphthalate	ug/L	ND	50	44.5	89	43-136		
Chrysene	ug/L	ND	50	43.7	87	36-127		
Di-n-butylphthalate	ug/L	ND	50	44.6	89	38-118		
Di-n-octylphthalate	ug/L	ND	50	46.1	92	40-140		
Dibenz(a,h)anthracene	ug/L	ND	50	46.0	92	35-131		
Diethylphthalate	ug/L	ND	50	43.6	87	33-114		
Dimethylphthalate	ug/L	ND	50	43.2	86	34-112		
Fluoranthene	ug/L	ND	50	44.4	89	38-125		
Fluorene	ug/L	ND	50	42.8	86	59-121		
Hexachloro-1,3-butadiene	ug/L	ND	50	39.4	79	27-116		
Hexachlorobenzene	ug/L	ND	50	43.8	88	34-124		
Hexachlorocyclopentadiene	ug/L	ND	100	73.7	74	11-120		
Hexachloroethane	ug/L	ND	50	37.7	75	40-113		
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	44.7	89	38-127		
Isophorone	ug/L	ND	50	41.7	83	31-120		
N-Nitroso-di-n-propylamine	ug/L	ND	50	41.8	84	30-120		
N-Nitrosodimethylamine	ug/L	ND	50	23.8	48	29-120		
N-Nitrosodiphenylamine	ug/L	ND	50	42.7	85	10-139		
Naphthalene	ug/L	ND	50	40.2	80	32-120		
Nitrobenzene	ug/L	ND	50	41.0	82	35-128		
Pentachlorophenol	ug/L	ND	50	46.7	93	38-133		
Phenanthrene	ug/L	ND	50	43.5	87	54-120		
Phenol	ug/L	ND	50	13.8	28	13-112		
Pyrene	ug/L	ND	50	44.5	89	52-115		
2,4,6-Tribromophenol (S)	%				89	39-119		
2-Fluorobiphenyl (S)	%				83	36-120		
2-Fluorophenol (S)	%				40	18-120		
Nitrobenzene-d5 (S)	%				80	32-120		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

MATRIX SPIKE SAMPLE:		1192306					
Parameter	Units	60145160002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenol-d6 (S)	%					26	12-120
Terphenyl-d14 (S)	%					89	44-120

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

QC Batch: WET/41472

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 HEM, Oil and Grease

Associated Lab Samples: 60145181001

METHOD BLANK: 1193374

Matrix: Water

Associated Lab Samples: 60145181001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	05/24/13 07:56	

LABORATORY CONTROL SAMPLE: 1193375

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	34.1	85	78-114	

MATRIX SPIKE SAMPLE: 1193378

Parameter	Units	60145144002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40	34.9	83	78-114	

SAMPLE DUPLICATE: 1193377

Parameter	Units	60145144001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	1.6J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

QC Batch:	WETA/24806	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60145181001		

METHOD BLANK: 1192313 Matrix: Water
Associated Lab Samples: 60145181001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/23/13 12:23	

LABORATORY CONTROL SAMPLE: 1192314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	1.9	97	90-110	

MATRIX SPIKE SAMPLE: 1192315

Parameter	Units	60144695001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.6	82	90-110	M1

MATRIX SPIKE SAMPLE: 1192316

Parameter	Units	60144700001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.13	2	1.9	87	90-110	M1

SAMPLE DUPLICATE: 1192317

Parameter	Units	60144708001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.25	0.24	3	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

QC Batch:	WETA/24893	Analysis Method:	EPA 410.4
QC Batch Method:	EPA 410.4	Analysis Description:	410.4 COD
Associated Lab Samples:	60145181001		

METHOD BLANK: 1195598 Matrix: Water

Associated Lab Samples: 60145181001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/30/13 07:45	

LABORATORY CONTROL SAMPLE: 1195599

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.1	106	90-110	

MATRIX SPIKE SAMPLE: 1195600

Parameter	Units	60144928021 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	19.6	50	65.2	91	90-110	

MATRIX SPIKE SAMPLE: 1195602

Parameter	Units	60144928023 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	15.0	50	63.1	96	90-110	

SAMPLE DUPLICATE: 1195601

Parameter	Units	60144928022 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	ND	ND		25	

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QUALIFIERS

Project: BRIDGETON LF 138-MSD

Pace Project No.: 60145181

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.

D9 Dissolved result is greater than the total. Data is within laboratory control limits.

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 138-MSD

Pace Project No.: 60145181

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145181001	138-MSD	EPA 200.7	MPRP/22810	EPA 200.7	ICP/18058
60145181001	138-MSD	EPA 200.7	MPRP/22827	EPA 200.7	ICP/18069
60145181001	138-MSD	EPA 245.1	MERP/7379	EPA 245.1	MERC/7336
60145181001	138-MSD	EPA 245.1	MERP/7386	EPA 245.1	MERC/7341
60145181001	138-MSD	EPA 625	OEXT/38538	EPA 625	MSSV/12190
60145181001	138-MSD	EPA 624 Low	MSV/53901		
60145181002	TRIP BLANK	EPA 624 Low	MSV/53901		
60145181001	138-MSD	EPA 1664A	WET/41472		
60145181001	138-MSD	EPA 350.1	WETA/24806		
60145181001	138-MSD	EPA 410.4	WETA/24893		

REPORT OF LABORATORY ANALYSIS

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WO#: 60145181



Sample Condition Upon Receipt

Client Name: BWR

Courier: Fed Ex UPS USPS Client Commercial Pace Other U.A

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

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

Cooler Temperature: 2.2

Temperature should be above freezing to 6°C

Date and initials of person examining contents: hr 5/22/13

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>collected @ 0900</u>
Includes date/time/ID/analyses Matrix: <u>WT</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>BPBS initial ~6.0 added 2ml H2SO4; final ~1.5</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>BPBS initial ~6.0 added 2.5ml HNO3; no change</u>
Exceptions: VOA, coliform, TOC, D&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed <u>hr</u> Lot # of added preservative <u>13099</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>Covered</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
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: [Signature]



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A

Required Client Information:

Company: BARR ENGINEERING

Address:

Email To:

Phone: Fax:

Requested Due Date/TAT: 5 BUSINESS DAY

Section B

Required Project Information:

Report To: ED GALBRAITH

Copy To: SCOTT C. FEDAK

Purchase Order No.:

Project Name: BRIDGETON LANDFILL

Project Number:

Section C

Invoice Information:

Attention:

Company Name: REPUBLIC SERVICES

Address:

Pace Quote Reference: 130426_7588

Pace Project Manager: Angie Brown 913-563-1402

Pace Profile #: 6787 line 2

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location: MO

STATE: MO

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.		
											Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	(Other)	Analysis Test	COD 410			LF Dis. Metals 200.7/245 Z	total Metals 200.7/245*
1	138-MSD	WT	COMPOSITE START	G			5/21/13			13	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	60145181	Metals list: 5/06/90
2	TRIP BLANK		COMPOSITE END/GRAB							2	✓												Al, Sb, As, Be, Cd, Cr	
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 314-502-1289	Dan Fedak / FED	5/21/13	12:10	JA 554	5/21	2:10	
SITE ADDRESS: BRIDGETON LF					5/21/13	6:15	2.2 Y Y Y
13570 ST. CHARLES ROCK RD							
BRIDGETON MO 63044							

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY):				

Page 30 of 30

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

May 30, 2013

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

RE: Project: BRIDGETON LF 142/145-MSD
Pace Project No.: 60145253

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 23, 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 142/145-MSD

Pace Project No.: 60145253

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

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SAMPLE SUMMARY

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145253

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145253001	145-MSD BOD	Water	05/22/13 15:57	05/23/13 03:15
60145253002	142-MSD BPD	Water	05/22/13 11:35	05/23/13 03:15

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145253

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145253001	145-MSD BOD	SM 2540D	RAS	1
		SM 4500-H+B	JML	1
		SM 5210B	NDL	1
60145253002	142-MSD BPD	SM 2540D	RAS	1
		SM 4500-H+B	JML	1
		SM 5210B	NDL	1

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ANALYTICAL RESULTS

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145253

Sample: 145-MSD BOD		Lab ID: 60145253001	Collected: 05/22/13 15:57	Received: 05/23/13 03:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	543	mg/L	5.0	1		05/23/13 11:21		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.5	Std. Units	0.10	1		05/23/13 18:00		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	28700	mg/L	2.0	1	05/24/13 11:53	05/29/13 13:52		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145253

Sample: 142-MSD BPD		Lab ID: 60145253002	Collected: 05/22/13 11:35	Received: 05/23/13 03:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	510	mg/L	5.0	1		05/23/13 11:22		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		05/23/13 18:00		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	31600	mg/L	2.0	1	05/24/13 09:12	05/29/13 10:39		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145253

QC Batch: WET/41456

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60145253001, 60145253002

METHOD BLANK: 1192565

Matrix: Water

Associated Lab Samples: 60145253001, 60145253002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/23/13 11:18	

SAMPLE DUPLICATE: 1192566

Parameter	Units	60145256001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	164	160	2	25	

SAMPLE DUPLICATE: 1192567

Parameter	Units	60145266002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	5.0	ND		25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145253

QC Batch: WET/41469 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60145253001, 60145253002

SAMPLE DUPLICATE: 1193147

Parameter	Units	60145285001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.3	0	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145253

QC Batch: WET/41471

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60145253002

METHOD BLANK: 1193369

Matrix: Water

Associated Lab Samples: 60145253002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/29/13 09:47	

LABORATORY CONTROL SAMPLE: 1193370

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

SAMPLE DUPLICATE: 1193371

Parameter	Units	60145252003 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	ND		17	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145253

QC Batch: WET/41481

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60145253001

METHOD BLANK: 1193636

Matrix: Water

Associated Lab Samples: 60145253001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/29/13 13:23	

LABORATORY CONTROL SAMPLE: 1193637

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	214	108	85-115	

SAMPLE DUPLICATE: 1193638

Parameter	Units	60145385001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	8.4	9.3	10	17	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145253

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145253

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145253001	145-MSD BOD	SM 2540D	WET/41456		
60145253002	142-MSD BPD	SM 2540D	WET/41456		
60145253001	145-MSD BOD	SM 4500-H+B	WET/41469		
60145253002	142-MSD BPD	SM 4500-H+B	WET/41469		
60145253001	145-MSD BOD	SM 5210B	WET/41481	SM 5210B	WET/41544
60145253002	142-MSD BPD	SM 5210B	WET/41471	SM 5210B	WET/41542

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Sample Condition Upon Receipt

WO#: 60145253



Client Name: Barr

Courier: Fed Ex UPS USPS Client Commercial Pace Other XRoads

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other ZPLC

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

Cooler Temperature: 3.6, 4.0

Temperature should be above freezing to 6°C

Date and initials of person examining contents: 5-23-13 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. BOD, pH
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
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: 5/23/13

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:		Page: _____ of _____
Company: BARR ENGINEERING		Report To: ED GALBRAITH		Attention:		REGULATORY AGENCY
Address:		Copy To: SCOTT C. FEDAK		Company Name: REPUBLIC SERVICES		
Email To:		Purchase Order No.:		Address:		<input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____
Phone:	Fax:	Project Name: BRIDGETON LANDFILL		Pace Quote Reference: 130426_7588		Site Location <u>MO</u> STATE: _____
Requested Due Date/TAT: 5 BUSINESS DAY		Project Number:		Pace Project Manager: Angie Brown 913-563-1402		
				Pace Profile #: 6787 line 2		

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMIP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.					
		MATRIX	CODE			COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	BOD SM 5210B	TSS SM 2540D	PH SM 4500H+1B								
		DRINKING WATER	DW			DATE	TIME	DATE	TIME																						
1	145-MSD BOD			OT	G							1	✓																18P14	501	
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	<i>Dan Frezor</i> PEI	5/22/13	16:57	<i>AH 154</i> BARR ENGINEERING / PACE	5/22	1659				
SITE ADDRESS: BRIDGETON LF							3b	Y	Y	Y
13570 ST. CHARLES ROCK RD							4b	Y	Y	Y
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: <i>Dan Frezor</i>	SIGNATURE of SAMPLER: <i>Dan Frezor</i>				
DATE Signed (MM/DD/YY): <i>5/22/13</i>					

Page 14 of 15

May 31, 2013

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

RE: Project: BRIDGETON LF 142/145-MSD
Pace Project No.: 60145336

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 23, 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 142/145-MSD

Pace Project No.: 60145336

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 142/145-MSD

Pace Project No.: 60145336

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145336001	145-MSD	Water	05/22/13 15:35	05/23/13 03:15
60145336002	TRIP BLANK	Water	05/22/13 00:00	05/23/13 03:15
60145336003	142-MSD	Water	05/22/13 11:35	05/23/13 03:15
60145336004	TRIP BLANK	Water	05/22/13 00:00	05/23/13 03:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145336001	145-MSD	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 1664A	JMC1	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
60145336003	142-MSD	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	PRG	38
		EPA 1664A	JMC1	1
		EPA 350.1	AJM	1
60145336004	TRIP BLANK	EPA 410.4	DJR	1
		EPA 624 Low	PRG	38

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

Sample: 145-MSD		Lab ID: 60145336001	Collected: 05/22/13 15:35	Received: 05/23/13 03:15	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	9330 ug/L		150	2	05/28/13 10:13	05/29/13 17:37	7429-90-5	
Antimony	ND ug/L		20.0	2	05/28/13 10:13	05/29/13 17:37	7440-36-0	D3
Arsenic	743 ug/L		20.0	2	05/28/13 10:13	05/29/13 17:37	7440-38-2	
Beryllium	ND ug/L		2.0	2	05/28/13 10:13	05/29/13 17:37	7440-41-7	D3
Cadmium	ND ug/L		10.0	2	05/28/13 10:13	05/29/13 17:37	7440-43-9	D3
Chromium	260 ug/L		15.0	3	05/28/13 10:13	05/29/13 17:53	7440-47-3	
Cobalt	36.0 ug/L		10.0	2	05/28/13 10:13	05/29/13 17:37	7440-48-4	
Copper	59.7 ug/L		20.0	2	05/28/13 10:13	05/29/13 17:37	7440-50-8	
Iron	885000 ug/L		100	2	05/28/13 10:13	05/29/13 17:37	7439-89-6	
Lead	156 ug/L		10.0	2	05/28/13 10:13	05/29/13 17:37	7439-92-1	
Nickel	114 ug/L		10.0	2	05/28/13 10:13	05/29/13 17:37	7440-02-0	
Selenium	ND ug/L		45.0	3	05/28/13 10:13	05/29/13 17:53	7782-49-2	D3
Silver	ND ug/L		14.0	2	05/28/13 10:13	05/29/13 17:37	7440-22-4	D3
Thallium	ND ug/L		60.0	3	05/28/13 10:13	05/29/13 17:53	7440-28-0	D3
Zinc	13700 ug/L		100	2	05/28/13 10:13	05/29/13 17:37	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	3970 ug/L		150	2	05/30/13 17:40	05/31/13 11:05	7429-90-5	
Antimony, Dissolved	29.2 ug/L		20.0	2	05/30/13 17:40	05/31/13 11:05	7440-36-0	D9
Arsenic, Dissolved	756 ug/L		20.0	2	05/30/13 17:40	05/31/13 11:05	7440-38-2	D9
Beryllium, Dissolved	ND ug/L		2.0	2	05/30/13 17:40	05/31/13 11:05	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		10.0	2	05/30/13 17:40	05/31/13 11:05	7440-43-9	D3
Chromium, Dissolved	217 ug/L		15.0	3	05/30/13 17:40	05/31/13 11:23	7440-47-3	
Cobalt, Dissolved	31.4 ug/L		10.0	2	05/30/13 17:40	05/31/13 11:05	7440-48-4	
Copper, Dissolved	31.1 ug/L		20.0	2	05/30/13 17:40	05/31/13 11:05	7440-50-8	
Iron, Dissolved	663000 ug/L		100	2	05/30/13 17:40	05/31/13 11:05	7439-89-6	
Lead, Dissolved	69.3 ug/L		10.0	2	05/30/13 17:40	05/31/13 11:05	7439-92-1	
Nickel, Dissolved	105 ug/L		10.0	2	05/30/13 17:40	05/31/13 11:05	7440-02-0	
Selenium, Dissolved	ND ug/L		45.0	3	05/30/13 17:40	05/31/13 11:23	7782-49-2	D3
Silver, Dissolved	ND ug/L		14.0	2	05/30/13 17:40	05/31/13 11:05	7440-22-4	D3
Thallium, Dissolved	ND ug/L		60.0	3	05/30/13 17:40	05/31/13 11:23	7440-28-0	D3
Zinc, Dissolved	12700 ug/L		100	2	05/30/13 17:40	05/31/13 11:05	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	1.4 ug/L		0.20	1	05/24/13 15:25	05/27/13 17:01	7439-97-6	
245.1 Mercury, Dissolved (LF)		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury, Dissolved	ND ug/L		0.20	1	05/29/13 16:45	05/30/13 10:26	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	83-32-9	
Acenaphthylene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	208-96-8	
Anthracene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	120-12-7	
Benzidine	ND ug/L		25000	50	05/24/13 00:00	05/28/13 19:57	92-87-5	
Benzo(a)anthracene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	56-55-3	
Benzo(a)pyrene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

Sample: 145-MSD	Lab ID: 60145336001	Collected: 05/22/13 15:35	Received: 05/23/13 03:15	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		2500	50	05/24/13 00:00	05/28/13 19:57	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	191-24-2	
Benzo(k)fluoranthene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	207-08-9	
4-Bromophenylphenyl ether	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	101-55-3	
Butylbenzylphthalate	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	85-68-7	
4-Chloro-3-methylphenol	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	59-50-7	
bis(2-Chloroethoxy)methane	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		3000	50	05/24/13 00:00	05/28/13 19:57	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		3000	50	05/24/13 00:00	05/28/13 19:57	39638-32-9	
2-Chloronaphthalene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	91-58-7	
2-Chlorophenol	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	7005-72-3	
Chrysene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	53-70-3	
3,3'-Dichlorobenzidine	ND ug/L		10000	50	05/24/13 00:00	05/28/13 19:57	91-94-1	
2,4-Dichlorophenol	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	120-83-2	
Diethylphthalate	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	84-66-2	
2,4-Dimethylphenol	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	105-67-9	
Dimethylphthalate	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	131-11-3	
Di-n-butylphthalate	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		12500	50	05/24/13 00:00	05/28/13 19:57	534-52-1	
2,4-Dinitrophenol	ND ug/L		25000	50	05/24/13 00:00	05/28/13 19:57	51-28-5	
2,4-Dinitrotoluene	ND ug/L		3000	50	05/24/13 00:00	05/28/13 19:57	121-14-2	
2,6-Dinitrotoluene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	606-20-2	
Di-n-octylphthalate	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	117-81-7	
Fluoranthene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	206-44-0	
Fluorene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	87-68-3	
Hexachlorobenzene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	77-47-4	
Hexachloroethane	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	193-39-5	
Isophorone	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	78-59-1	
Naphthalene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	91-20-3	
Nitrobenzene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	98-95-3	
2-Nitrophenol	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	88-75-5	
4-Nitrophenol	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	100-02-7	
N-Nitrosodimethylamine	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	86-30-6	
Pentachlorophenol	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	87-86-5	
Phenanthrene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	85-01-8	
Phenol	13500 ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	108-95-2	
Pyrene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		2500	50	05/24/13 00:00	05/28/13 19:57	88-06-2	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

Sample: 145-MSD		Lab ID: 60145336001	Collected: 05/22/13 15:35	Received: 05/23/13 03:15	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	50	05/24/13 00:00	05/28/13 19:57	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	50	05/24/13 00:00	05/28/13 19:57	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	50	05/24/13 00:00	05/28/13 19:57	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	50	05/24/13 00:00	05/28/13 19:57	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	50	05/24/13 00:00	05/28/13 19:57	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	50	05/24/13 00:00	05/28/13 19:57	118-79-6	S4
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	410 mg/L		5.0	1		05/28/13 07:51		
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	651 mg/L		20.0	200		05/29/13 17:30	7664-41-7	
410.4 COD		Analytical Method: EPA 410.4						
Chemical Oxygen Demand	46900 mg/L		5000	500		05/31/13 09:56		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

Sample: 142-MSD		Lab ID: 60145336003	Collected: 05/22/13 11:35	Received: 05/23/13 03:15	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	6880 ug/L		150	2	05/28/13 10:13	05/29/13 17:43	7429-90-5	
Antimony	36.1 ug/L		20.0	2	05/28/13 10:13	05/29/13 17:43	7440-36-0	
Arsenic	771 ug/L		20.0	2	05/28/13 10:13	05/29/13 17:43	7440-38-2	
Beryllium	ND ug/L		2.0	2	05/28/13 10:13	05/29/13 17:43	7440-41-7	D3
Cadmium	ND ug/L		10.0	2	05/28/13 10:13	05/29/13 17:43	7440-43-9	D3
Chromium	265 ug/L		15.0	3	05/28/13 10:13	05/29/13 18:02	7440-47-3	
Cobalt	25.3 ug/L		10.0	2	05/28/13 10:13	05/29/13 17:43	7440-48-4	
Copper	ND ug/L		20.0	2	05/28/13 10:13	05/29/13 17:43	7440-50-8	D3
Iron	786000 ug/L		100	2	05/28/13 10:13	05/29/13 17:43	7439-89-6	
Lead	122 ug/L		10.0	2	05/28/13 10:13	05/29/13 17:43	7439-92-1	
Nickel	90.4 ug/L		10.0	2	05/28/13 10:13	05/29/13 17:43	7440-02-0	
Selenium	ND ug/L		45.0	3	05/28/13 10:13	05/29/13 18:02	7782-49-2	D3
Silver	ND ug/L		14.0	2	05/28/13 10:13	05/29/13 17:43	7440-22-4	D3
Thallium	ND ug/L		60.0	3	05/28/13 10:13	05/29/13 18:02	7440-28-0	D3
Zinc	17000 ug/L		100	2	05/28/13 10:13	05/29/13 17:43	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	4900 ug/L		150	2	05/30/13 17:40	05/31/13 11:08	7429-90-5	
Antimony, Dissolved	27.5 ug/L		20.0	2	05/30/13 17:40	05/31/13 11:08	7440-36-0	
Arsenic, Dissolved	790 ug/L		20.0	2	05/30/13 17:40	05/31/13 11:08	7440-38-2	D9
Beryllium, Dissolved	ND ug/L		2.0	2	05/30/13 17:40	05/31/13 11:08	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		10.0	2	05/30/13 17:40	05/31/13 11:08	7440-43-9	D3
Chromium, Dissolved	239 ug/L		15.0	3	05/30/13 17:40	05/31/13 11:30	7440-47-3	
Cobalt, Dissolved	27.4 ug/L		10.0	2	05/30/13 17:40	05/31/13 11:08	7440-48-4	D9
Copper, Dissolved	ND ug/L		20.0	2	05/30/13 17:40	05/31/13 11:08	7440-50-8	D3
Iron, Dissolved	660000 ug/L		100	2	05/30/13 17:40	05/31/13 11:08	7439-89-6	
Lead, Dissolved	83.0 ug/L		10.0	2	05/30/13 17:40	05/31/13 11:08	7439-92-1	
Nickel, Dissolved	88.0 ug/L		10.0	2	05/30/13 17:40	05/31/13 11:08	7440-02-0	
Selenium, Dissolved	ND ug/L		45.0	3	05/30/13 17:40	05/31/13 11:30	7782-49-2	D3
Silver, Dissolved	ND ug/L		14.0	2	05/30/13 17:40	05/31/13 11:08	7440-22-4	D3
Thallium, Dissolved	ND ug/L		60.0	3	05/30/13 17:40	05/31/13 11:30	7440-28-0	D3
Zinc, Dissolved	16600 ug/L		100	2	05/30/13 17:40	05/31/13 11:08	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	0.38 ug/L		0.20	1	05/24/13 15:25	05/27/13 17:04	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	05/29/13 16:45	05/30/13 10:28	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	83-32-9	
Acenaphthylene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	208-96-8	
Anthracene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	120-12-7	
Benzidine	ND ug/L		25000	50	05/24/13 00:00	05/28/13 20:18	92-87-5	
Benzo(a)anthracene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	56-55-3	
Benzo(a)pyrene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	50-32-8	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

Sample: 142-MSD	Lab ID: 60145336003	Collected: 05/22/13 11:35	Received: 05/23/13 03:15	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		2500	50	05/24/13 00:00	05/28/13 20:18	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	191-24-2	
Benzo(k)fluoranthene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	207-08-9	
4-Bromophenylphenyl ether	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	101-55-3	
Butylbenzylphthalate	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	85-68-7	
4-Chloro-3-methylphenol	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	59-50-7	
bis(2-Chloroethoxy)methane	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		3000	50	05/24/13 00:00	05/28/13 20:18	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		3000	50	05/24/13 00:00	05/28/13 20:18	39638-32-9	
2-Chloronaphthalene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	91-58-7	
2-Chlorophenol	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	7005-72-3	
Chrysene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	53-70-3	
3,3'-Dichlorobenzidine	ND ug/L		10000	50	05/24/13 00:00	05/28/13 20:18	91-94-1	
2,4-Dichlorophenol	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	120-83-2	
Diethylphthalate	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	84-66-2	
2,4-Dimethylphenol	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	105-67-9	
Dimethylphthalate	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	131-11-3	
Di-n-butylphthalate	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		12500	50	05/24/13 00:00	05/28/13 20:18	534-52-1	
2,4-Dinitrophenol	ND ug/L		25000	50	05/24/13 00:00	05/28/13 20:18	51-28-5	
2,4-Dinitrotoluene	ND ug/L		3000	50	05/24/13 00:00	05/28/13 20:18	121-14-2	
2,6-Dinitrotoluene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	606-20-2	
Di-n-octylphthalate	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	117-81-7	
Fluoranthene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	206-44-0	
Fluorene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	87-68-3	
Hexachlorobenzene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	77-47-4	
Hexachloroethane	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	193-39-5	
Isophorone	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	78-59-1	
Naphthalene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	91-20-3	
Nitrobenzene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	98-95-3	
2-Nitrophenol	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	88-75-5	
4-Nitrophenol	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	100-02-7	
N-Nitrosodimethylamine	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	86-30-6	
Pentachlorophenol	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	87-86-5	
Phenanthrene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	85-01-8	
Phenol	13800 ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	108-95-2	
Pyrene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		2500	50	05/24/13 00:00	05/28/13 20:18	88-06-2	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

Sample: 142-MSD	Lab ID: 60145336003	Collected: 05/22/13 11:35	Received: 05/23/13 03:15	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	50	05/24/13 00:00	05/28/13 20:18	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	50	05/24/13 00:00	05/28/13 20:18	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	50	05/24/13 00:00	05/28/13 20:18	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	50	05/24/13 00:00	05/28/13 20:18	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	50	05/24/13 00:00	05/28/13 20:18	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	50	05/24/13 00:00	05/28/13 20:18	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		05/24/13 17:22	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/24/13 17:22	75-27-4	
Bromoform	ND ug/L		200	200		05/24/13 17:22	75-25-2	
Bromomethane	ND ug/L		1000	200		05/24/13 17:22	74-83-9	L3
Carbon tetrachloride	ND ug/L		200	200		05/24/13 17:22	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/24/13 17:22	108-90-7	
Chloroethane	ND ug/L		200	200		05/24/13 17:22	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/24/13 17:22	110-75-8	
Chloroform	ND ug/L		200	200		05/24/13 17:22	67-66-3	
Chloromethane	ND ug/L		200	200		05/24/13 17:22	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/24/13 17:22	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/24/13 17:22	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/24/13 17:22	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/24/13 17:22	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/24/13 17:22	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/24/13 17:22	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/24/13 17:22	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/24/13 17:22	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/24/13 17:22	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/24/13 17:22	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/24/13 17:22	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/24/13 17:22	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/24/13 17:22	100-41-4	
Methylene chloride	ND ug/L		200	200		05/24/13 17:22	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/24/13 17:22	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/24/13 17:22	127-18-4	
Toluene	ND ug/L		200	200		05/24/13 17:22	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/24/13 17:22	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/24/13 17:22	79-00-5	
Trichloroethene	ND ug/L		200	200		05/24/13 17:22	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/24/13 17:22	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/24/13 17:22	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/24/13 17:22	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98 %		80-120	200		05/24/13 17:22	1868-53-7	D3
4-Bromofluorobenzene (S)	101 %		80-120	200		05/24/13 17:22	460-00-4	
Toluene-d8 (S)	103 %		80-120	200		05/24/13 17:22	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		80-120	200		05/24/13 17:22	17060-07-0	

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ANALYTICAL RESULTS

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

Sample: 142-MSD		Lab ID: 60145336003	Collected: 05/22/13 11:35	Received: 05/23/13 03:15	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		05/24/13 17:22		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	337	mg/L	5.0	1		05/28/13 07:52		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	698	mg/L	20.0	200		05/29/13 17:33	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	53000	mg/L	5000	500		05/31/13 09:56		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

Sample: TRIP BLANK	Lab ID: 60145336004	Collected: 05/22/13 00:00	Received: 05/23/13 03:15	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		05/24/13 16:01	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		05/24/13 16:01	75-27-4	
Bromoform	ND ug/L		1.0	1		05/24/13 16:01	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/24/13 16:01	74-83-9	L3
Carbon tetrachloride	ND ug/L		1.0	1		05/24/13 16:01	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/24/13 16:01	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/24/13 16:01	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		05/24/13 16:01	110-75-8	
Chloroform	ND ug/L		1.0	1		05/24/13 16:01	67-66-3	
Chloromethane	ND ug/L		1.0	1		05/24/13 16:01	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		05/24/13 16:01	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/24/13 16:01	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/24/13 16:01	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/24/13 16:01	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		05/24/13 16:01	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/24/13 16:01	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/24/13 16:01	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/24/13 16:01	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/24/13 16:01	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		05/24/13 16:01	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		05/24/13 16:01	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		05/24/13 16:01	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		05/24/13 16:01	100-41-4	
Methylene chloride	ND ug/L		1.0	1		05/24/13 16:01	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/24/13 16:01	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/24/13 16:01	127-18-4	
Toluene	ND ug/L		1.0	1		05/24/13 16:01	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/24/13 16:01	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/24/13 16:01	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/24/13 16:01	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/24/13 16:01	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		05/24/13 16:01	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/24/13 16:01	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	98 %		80-120	1		05/24/13 16:01	1868-53-7	
4-Bromofluorobenzene (S)	100 %		80-120	1		05/24/13 16:01	460-00-4	
Toluene-d8 (S)	101 %		80-120	1		05/24/13 16:01	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		80-120	1		05/24/13 16:01	17060-07-0	
Preservation pH	7.0			1		05/24/13 16:01		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

QC Batch: MERP/7379 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
 Associated Lab Samples: 60145336001, 60145336003

METHOD BLANK: 1193937 Matrix: Water

Associated Lab Samples: 60145336001, 60145336003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/27/13 15:48	

LABORATORY CONTROL SAMPLE: 1193938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.5	90	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1193939 1193940

Parameter	Units	60145193002 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Mercury	ug/L	ND	5	5	4.2	4.4	85	87	70-130	3	20	

MATRIX SPIKE SAMPLE: 1193941

Parameter	Units	60145296004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	4.2	81	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

QC Batch: MERP/7386 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury - Dissolved
 Associated Lab Samples: 60145336001, 60145336003

METHOD BLANK: 1195833 Matrix: Water

Associated Lab Samples: 60145336001, 60145336003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/30/13 10:22	

LABORATORY CONTROL SAMPLE: 1195834

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1195835 1195836

Parameter	Units	60145231001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	ND	Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Mercury, Dissolved	ug/L	ND	ND	5	5	4.5	4.6	90	91	70-130	1	20			

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

QC Batch: MPRP/22810 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60145336001, 60145336003

METHOD BLANK: 1195056 Matrix: Water

Associated Lab Samples: 60145336001, 60145336003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	05/29/13 17:30	
Antimony	ug/L	ND	10.0	05/29/13 17:30	
Arsenic	ug/L	ND	10.0	05/29/13 17:30	
Beryllium	ug/L	ND	1.0	05/29/13 17:30	
Cadmium	ug/L	ND	5.0	05/29/13 17:30	
Chromium	ug/L	ND	5.0	05/29/13 17:30	
Cobalt	ug/L	ND	5.0	05/29/13 17:30	
Copper	ug/L	ND	10.0	05/29/13 17:30	
Iron	ug/L	ND	50.0	05/29/13 17:30	
Lead	ug/L	ND	5.0	05/29/13 17:30	
Nickel	ug/L	ND	5.0	05/29/13 17:30	
Selenium	ug/L	ND	15.0	05/29/13 17:30	
Silver	ug/L	ND	7.0	05/29/13 17:30	
Thallium	ug/L	ND	20.0	05/29/13 17:30	
Zinc	ug/L	ND	50.0	05/29/13 17:30	

LABORATORY CONTROL SAMPLE: 1195057

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9750	97	85-115	
Antimony	ug/L	1000	981	98	85-115	
Arsenic	ug/L	1000	951	95	85-115	
Beryllium	ug/L	1000	961	96	85-115	
Cadmium	ug/L	1000	968	97	85-115	
Chromium	ug/L	1000	1000	100	85-115	
Cobalt	ug/L	1000	983	98	85-115	
Copper	ug/L	1000	965	97	85-115	
Iron	ug/L	10000	9680	97	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	990	99	85-115	
Silver	ug/L	500	514	103	85-115	
Thallium	ug/L	1000	992	99	85-115	
Zinc	ug/L	1000	1030	103	85-115	

SAMPLE DUPLICATE: 1195058

Parameter	Units	60145336001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	9330	8960	4	20	
Antimony	ug/L	ND	26.2		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

SAMPLE DUPLICATE: 1195058

Parameter	Units	60145336001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	743	765	3	20	
Beryllium	ug/L	ND	ND		20	D3
Cadmium	ug/L	ND	ND		20	D3
Chromium	ug/L	260	258	1	20	
Cobalt	ug/L	36.0	34.0	6	20	
Copper	ug/L	59.7	60.5	1	20	
Iron	ug/L	885000	885000	0	20	
Lead	ug/L	156	167	7	20	
Nickel	ug/L	114	113	1	20	
Selenium	ug/L	ND	ND		20	D3
Silver	ug/L	ND	4.7J		20	D3
Thallium	ug/L	ND	ND		20	D3
Zinc	ug/L	13700	13700	0	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

QC Batch: MPRP/22859

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Dissolved

Associated Lab Samples: 60145336001, 60145336003

METHOD BLANK: 1196732

Matrix: Water

Associated Lab Samples: 60145336001, 60145336003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	05/31/13 11:01	
Antimony, Dissolved	ug/L	ND	10.0	05/31/13 11:01	
Arsenic, Dissolved	ug/L	ND	10.0	05/31/13 11:01	
Beryllium, Dissolved	ug/L	ND	1.0	05/31/13 11:01	
Cadmium, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Chromium, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Cobalt, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Copper, Dissolved	ug/L	ND	10.0	05/31/13 11:01	
Iron, Dissolved	ug/L	ND	50.0	05/31/13 11:01	
Lead, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Nickel, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Selenium, Dissolved	ug/L	ND	15.0	05/31/13 11:01	
Silver, Dissolved	ug/L	ND	7.0	05/31/13 11:01	
Thallium, Dissolved	ug/L	ND	20.0	05/31/13 11:01	
Zinc, Dissolved	ug/L	ND	50.0	05/31/13 11:01	

LABORATORY CONTROL SAMPLE: 1196733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9490	95	85-115	
Antimony, Dissolved	ug/L	1000	984	98	85-115	
Arsenic, Dissolved	ug/L	1000	978	98	85-115	
Beryllium, Dissolved	ug/L	1000	992	99	85-115	
Cadmium, Dissolved	ug/L	1000	982	98	85-115	
Chromium, Dissolved	ug/L	1000	991	99	85-115	
Cobalt, Dissolved	ug/L	1000	1010	101	85-115	
Copper, Dissolved	ug/L	1000	961	96	85-115	
Iron, Dissolved	ug/L	10000	9640	96	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1020	102	85-115	
Selenium, Dissolved	ug/L	1000	970	97	85-115	
Silver, Dissolved	ug/L	500	484	97	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	1030	103	85-115	

MATRIX SPIKE SAMPLE: 1196734

Parameter	Units	60145428001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	4800	10000	15100	103	70-130	
Antimony, Dissolved	ug/L	30.2	1000	1070	104	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

MATRIX SPIKE SAMPLE:		1196734					
Parameter	Units	60145428001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	717	1000	2000	129	70-130	
Beryllium, Dissolved	ug/L	ND	1000	927	93	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1100	110	70-130	
Chromium, Dissolved	ug/L	226	1000	1180	95	70-130	
Cobalt, Dissolved	ug/L	25.8	1000	953	93	70-130	
Copper, Dissolved	ug/L	ND	1000	1120	110	70-130	
Iron, Dissolved	ug/L	687000	10000	713000	256	70-130	M1
Lead, Dissolved	ug/L	86.0	1000	955	87	70-130	
Nickel, Dissolved	ug/L	84.5	1000	995	91	70-130	
Selenium, Dissolved	ug/L	ND	1000	1310	131	70-130	M1
Silver, Dissolved	ug/L	ND	500	72.8	13	70-130	M1
Thallium, Dissolved	ug/L	ND	1000	764	76	70-130	
Zinc, Dissolved	ug/L	16600	1000	17400	82	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

QC Batch: MSV/53901 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60145336003, 60145336004

METHOD BLANK: 1193614 Matrix: Water

Associated Lab Samples: 60145336003, 60145336004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/24/13 11:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/24/13 11:36	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/24/13 11:36	
1,1-Dichloroethane	ug/L	ND	1.0	05/24/13 11:36	
1,1-Dichloroethene	ug/L	ND	1.0	05/24/13 11:36	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/24/13 11:36	
1,2-Dichloroethane	ug/L	ND	1.0	05/24/13 11:36	
1,2-Dichloropropane	ug/L	ND	1.0	05/24/13 11:36	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/24/13 11:36	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/24/13 11:36	
2-Chloroethylvinyl ether	ug/L	ND	10.0	05/24/13 11:36	
Benzene	ug/L	ND	1.0	05/24/13 11:36	
Bromodichloromethane	ug/L	ND	1.0	05/24/13 11:36	
Bromoform	ug/L	ND	1.0	05/24/13 11:36	
Bromomethane	ug/L	ND	5.0	05/24/13 11:36	
Carbon tetrachloride	ug/L	ND	1.0	05/24/13 11:36	
Chlorobenzene	ug/L	ND	1.0	05/24/13 11:36	
Chloroethane	ug/L	ND	1.0	05/24/13 11:36	
Chloroform	ug/L	ND	1.0	05/24/13 11:36	
Chloromethane	ug/L	ND	1.0	05/24/13 11:36	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/24/13 11:36	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/24/13 11:36	
Dibromochloromethane	ug/L	ND	1.0	05/24/13 11:36	
Ethylbenzene	ug/L	ND	1.0	05/24/13 11:36	
Methylene chloride	ug/L	ND	1.0	05/24/13 11:36	
Tetrachloroethene	ug/L	ND	1.0	05/24/13 11:36	
Toluene	ug/L	ND	1.0	05/24/13 11:36	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/24/13 11:36	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/24/13 11:36	
Trichloroethene	ug/L	ND	1.0	05/24/13 11:36	
Trichlorofluoromethane	ug/L	ND	1.0	05/24/13 11:36	
Vinyl chloride	ug/L	ND	1.0	05/24/13 11:36	
Xylene (Total)	ug/L	ND	3.0	05/24/13 11:36	
1,2-Dichloroethane-d4 (S)	%	87	80-120	05/24/13 11:36	
4-Bromofluorobenzene (S)	%	103	80-120	05/24/13 11:36	
Dibromofluoromethane (S)	%	96	80-120	05/24/13 11:36	
Toluene-d8 (S)	%	98	80-120	05/24/13 11:36	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

LABORATORY CONTROL SAMPLE: 1193615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	23.1	115	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	22.2	111	59-138	
1,1,2-Trichloroethane	ug/L	20	22.5	112	69-127	
1,1-Dichloroethane	ug/L	20	20.2	101	69-126	
1,1-Dichloroethene	ug/L	20	21.9	109	65-153	
1,2-Dichlorobenzene	ug/L	20	22.5	113	66-126	
1,2-Dichloroethane	ug/L	20	21.9	109	71-129	
1,2-Dichloropropane	ug/L	20	23.1	115	66-140	
1,3-Dichlorobenzene	ug/L	20	22.3	111	63-127	
1,4-Dichlorobenzene	ug/L	20	22.6	113	68-124	
2-Chloroethylvinyl ether	ug/L	20	20.1	101	33-159	
Benzene	ug/L	20	22.4	112	73-129	
Bromodichloromethane	ug/L	20	22.2	111	63-129	
Bromoform	ug/L	20	21.5	108	52-123	
Bromomethane	ug/L	20	38.6	193	10-160	L0
Carbon tetrachloride	ug/L	20	23.0	115	70-140	
Chlorobenzene	ug/L	20	22.7	113	68-127	
Chloroethane	ug/L	20	19.6	98	42-160	
Chloroform	ug/L	20	21.8	109	60-120	
Chloromethane	ug/L	20	23.7	119	10-160	
cis-1,2-Dichloroethene	ug/L	20	21.8	109	70-125	
cis-1,3-Dichloropropene	ug/L	20	22.4	112	66-132	
Dibromochloromethane	ug/L	20	23.0	115	63-134	
Ethylbenzene	ug/L	20	23.6	118	66-133	
Methylene chloride	ug/L	20	20.6	103	56-135	
Tetrachloroethene	ug/L	20	23.5	117	64-143	
Toluene	ug/L	20	22.7	114	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.4	107	67-149	
trans-1,3-Dichloropropene	ug/L	20	24.8	124	66-138	
Trichloroethene	ug/L	20	21.9	109	71-130	
Trichlorofluoromethane	ug/L	20	19.4	97	58-158	
Vinyl chloride	ug/L	20	21.0	105	41-160	
Xylene (Total)	ug/L	60	69.5	116	67-130	
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Dibromofluoromethane (S)	%			96	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1193616

Parameter	Units	60144983001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.090	20	20.8	104	52-160	
1,1,2,2-Tetrachloroethane	ug/L	<0.15	20	16.4	82	46-157	
1,1,2-Trichloroethane	ug/L	<0.19	20	17.6	88	52-150	
1,1-Dichloroethane	ug/L	<0.090	20	17.7	89	59-155	
1,1-Dichloroethene	ug/L	<0.16	20	20.6	103	14-160	
1,2-Dichlorobenzene	ug/L	<0.14	20	17.4	87	18-145	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Project No.: 60145336

MATRIX SPIKE SAMPLE:		1193616						
Parameter	Units	60144983001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
1,2-Dichloroethane	ug/L	<0.090	20	17.9	90	49-155		
1,2-Dichloropropane	ug/L	<0.12	20	19.5	98	12-160		
1,3-Dichlorobenzene	ug/L	<0.080	20	17.9	89	59-146		
1,4-Dichlorobenzene	ug/L	<0.11	20	17.8	88	18-147		
2-Chloroethylvinyl ether	ug/L	<0.090	20	16.4	82	10-160		
Benzene	ug/L	<0.080	20	19.5	98	37-151		
Bromodichloromethane	ug/L	<0.25	20	18.1	91	35-155		
Bromoform	ug/L	<0.36	20	16.7	84	45-133		
Bromomethane	ug/L	<0.22	20	31.9	160	10-160		
Carbon tetrachloride	ug/L	<0.16	20	20.7	104	70-140		
Chlorobenzene	ug/L	<0.070	20	18.9	94	37-153		
Chloroethane	ug/L	<0.17	20	17.1	86	14-160		
Chloroform	ug/L	0.36J	20	18.2	89	51-138		
Chloromethane	ug/L	<0.19	20	20.1	101	10-160		
cis-1,2-Dichloroethene	ug/L	<0.12	20	19.2	96	19-160		
cis-1,3-Dichloropropene	ug/L	<0.090	20	18.7	94	10-160		
Dibromochloromethane	ug/L	<0.090	20	17.8	89	53-149		
Ethylbenzene	ug/L	<0.16	20	19.5	97	37-154		
Methylene chloride	ug/L	<0.23	20	17.9	90	15-156		
Tetrachloroethene	ug/L	<0.20	20	20.9	105	64-148		
Toluene	ug/L	<0.10	20	19.9	99	47-150		
trans-1,2-Dichloroethene	ug/L	<0.080	20	19.4	97	54-156		
trans-1,3-Dichloropropene	ug/L	<0.050	20	19.7	99	17-160		
Trichloroethene	ug/L	<0.16	20	18.8	94	71-157		
Trichlorofluoromethane	ug/L	<0.080	20	18.0	90	17-160		
Vinyl chloride	ug/L	<0.080	20	18.6	93	10-160		
Xylene (Total)	ug/L	<0.25	60	58.7	98	12-153		
1,2-Dichloroethane-d4 (S)	%				98	80-120		
4-Bromofluorobenzene (S)	%				100	80-120		
Dibromofluoromethane (S)	%				96	80-120		
Toluene-d8 (S)	%				101	80-120		
Preservation pH		7.0		7.0				

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

QC Batch: OEXT/38554 Analysis Method: EPA 625

QC Batch Method: EPA 625 Analysis Description: 625 MSS

Associated Lab Samples: 60145336001, 60145336003

METHOD BLANK: 1193409 Matrix: Water

Associated Lab Samples: 60145336001, 60145336003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/28/13 14:40	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/28/13 14:40	
2,4-Dichlorophenol	ug/L	ND	5.0	05/28/13 14:40	
2,4-Dimethylphenol	ug/L	ND	5.0	05/28/13 14:40	
2,4-Dinitrophenol	ug/L	ND	50.0	05/28/13 14:40	
2,4-Dinitrotoluene	ug/L	ND	6.0	05/28/13 14:40	
2,6-Dinitrotoluene	ug/L	ND	5.0	05/28/13 14:40	
2-Chloronaphthalene	ug/L	ND	5.0	05/28/13 14:40	
2-Chlorophenol	ug/L	ND	5.0	05/28/13 14:40	
2-Nitrophenol	ug/L	ND	5.0	05/28/13 14:40	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	05/28/13 14:40	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/28/13 14:40	
4-Bromophenylphenyl ether	ug/L	ND	5.0	05/28/13 14:40	
4-Chloro-3-methylphenol	ug/L	ND	5.0	05/28/13 14:40	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	05/28/13 14:40	
4-Nitrophenol	ug/L	ND	5.0	05/28/13 14:40	
Acenaphthene	ug/L	ND	5.0	05/28/13 14:40	
Acenaphthylene	ug/L	ND	5.0	05/28/13 14:40	
Anthracene	ug/L	ND	5.0	05/28/13 14:40	
Benzidine	ug/L	ND	50.0	05/28/13 14:40	
Benzo(a)anthracene	ug/L	ND	5.0	05/28/13 14:40	
Benzo(a)pyrene	ug/L	ND	5.0	05/28/13 14:40	
Benzo(b)fluoranthene	ug/L	ND	5.0	05/28/13 14:40	
Benzo(g,h,i)perylene	ug/L	ND	5.0	05/28/13 14:40	
Benzo(k)fluoranthene	ug/L	ND	5.0	05/28/13 14:40	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	05/28/13 14:40	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	05/28/13 14:40	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	05/28/13 14:40	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	05/28/13 14:40	
Butylbenzylphthalate	ug/L	ND	5.0	05/28/13 14:40	
Chrysene	ug/L	ND	5.0	05/28/13 14:40	
Di-n-butylphthalate	ug/L	ND	5.0	05/28/13 14:40	
Di-n-octylphthalate	ug/L	ND	5.0	05/28/13 14:40	
Dibenz(a,h)anthracene	ug/L	ND	5.0	05/28/13 14:40	
Diethylphthalate	ug/L	ND	5.0	05/28/13 14:40	
Dimethylphthalate	ug/L	ND	5.0	05/28/13 14:40	
Fluoranthene	ug/L	ND	5.0	05/28/13 14:40	
Fluorene	ug/L	ND	5.0	05/28/13 14:40	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/28/13 14:40	
Hexachlorobenzene	ug/L	ND	5.0	05/28/13 14:40	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/28/13 14:40	
Hexachloroethane	ug/L	ND	5.0	05/28/13 14:40	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	05/28/13 14:40	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

METHOD BLANK: 1193409

Matrix: Water

Associated Lab Samples: 60145336001, 60145336003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	05/28/13 14:40	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	05/28/13 14:40	
N-Nitrosodimethylamine	ug/L	ND	5.0	05/28/13 14:40	
N-Nitrosodiphenylamine	ug/L	ND	5.0	05/28/13 14:40	
Naphthalene	ug/L	ND	5.0	05/28/13 14:40	
Nitrobenzene	ug/L	ND	5.0	05/28/13 14:40	
Pentachlorophenol	ug/L	ND	5.0	05/28/13 14:40	
Phenanthrene	ug/L	ND	5.0	05/28/13 14:40	
Phenol	ug/L	ND	5.0	05/28/13 14:40	
Pyrene	ug/L	ND	5.0	05/28/13 14:40	
2,4,6-Tribromophenol (S)	%	76	39-119	05/28/13 14:40	
2-Fluorobiphenyl (S)	%	77	36-120	05/28/13 14:40	
2-Fluorophenol (S)	%	44	18-120	05/28/13 14:40	
Nitrobenzene-d5 (S)	%	75	32-120	05/28/13 14:40	
Phenol-d6 (S)	%	29	12-120	05/28/13 14:40	
Terphenyl-d14 (S)	%	86	44-120	05/28/13 14:40	

LABORATORY CONTROL SAMPLE: 1193410

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	37.3	75	44-120	
2,4,6-Trichlorophenol	ug/L	50	39.5	79	48-120	
2,4-Dichlorophenol	ug/L	50	37.7	75	48-120	
2,4-Dimethylphenol	ug/L	50	34.0	68	37-119	
2,4-Dinitrophenol	ug/L	50	35.9J	72	15-153	
2,4-Dinitrotoluene	ug/L	50	41.5	83	54-120	
2,6-Dinitrotoluene	ug/L	50	40.6	81	52-120	
2-Chloronaphthalene	ug/L	50	38.2	76	60-118	
2-Chlorophenol	ug/L	50	35.9	72	44-120	
2-Nitrophenol	ug/L	50	39.3	79	43-120	
3,3'-Dichlorobenzidine	ug/L	50	43.8	88	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	40.9	82	31-147	
4-Bromophenylphenyl ether	ug/L	50	40.5	81	53-120	
4-Chloro-3-methylphenol	ug/L	50	38.9	78	50-120	
4-Chlorophenylphenyl ether	ug/L	50	40.0	80	54-120	
4-Nitrophenol	ug/L	50	15.5	31	10-120	
Acenaphthene	ug/L	50	39.5	79	51-120	
Acenaphthylene	ug/L	50	39.2	78	51-120	
Anthracene	ug/L	50	40.1	80	54-120	
Benzidine	ug/L	50	19J	38	1-124	
Benzo(a)anthracene	ug/L	50	41.6	83	54-120	
Benzo(a)pyrene	ug/L	50	41.3	83	54-120	
Benzo(b)fluoranthene	ug/L	50	43.5	87	57-120	
Benzo(g,h,i)perylene	ug/L	50	40.7	81	54-120	
Benzo(k)fluoranthene	ug/L	50	40.8	82	52-121	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

LABORATORY CONTROL SAMPLE: 1193410

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	50	38.9	78	51-120	
bis(2-Chloroethyl) ether	ug/L	50	38.1	76	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	37.9	76	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	43.2	86	51-126	
Butylbenzylphthalate	ug/L	50	43.3	87	45-129	
Chrysene	ug/L	50	41.1	82	54-120	
Di-n-butylphthalate	ug/L	50	42.1	84	57-118	
Di-n-octylphthalate	ug/L	50	43.2	86	48-130	
Dibenz(a,h)anthracene	ug/L	50	41.7	83	56-119	
Diethylphthalate	ug/L	50	40.2	80	55-114	
Dimethylphthalate	ug/L	50	40.5	81	54-112	
Fluoranthene	ug/L	50	40.8	82	56-120	
Fluorene	ug/L	50	40.2	80	59-120	
Hexachloro-1,3-butadiene	ug/L	50	37.5	75	41-116	
Hexachlorobenzene	ug/L	50	40.5	81	53-120	
Hexachlorocyclopentadiene	ug/L	100	66.5	66	31-120	
Hexachloroethane	ug/L	50	36.3	73	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	41.3	83	55-120	
Isophorone	ug/L	50	39.0	78	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	39.1	78	47-120	
N-Nitrosodimethylamine	ug/L	50	24.2	48	28-120	
N-Nitrosodiphenylamine	ug/L	50	39.7	79	53-120	
Naphthalene	ug/L	50	37.7	75	48-120	
Nitrobenzene	ug/L	50	38.4	77	47-120	
Pentachlorophenol	ug/L	50	41.2	82	43-127	
Phenanthrene	ug/L	50	39.8	80	55-120	
Phenol	ug/L	50	15.0	30	15-112	
Pyrene	ug/L	50	41.9	84	55-115	
2,4,6-Tribromophenol (S)	%			82	39-119	
2-Fluorobiphenyl (S)	%			78	36-120	
2-Fluorophenol (S)	%			43	18-120	
Nitrobenzene-d5 (S)	%			75	32-120	
Phenol-d6 (S)	%			29	12-120	
Terphenyl-d14 (S)	%			84	44-120	

MATRIX SPIKE SAMPLE: 1193411

Parameter	Units	60145176001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	38.6	77	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	40.9	82	37-121	
2,4-Dichlorophenol	ug/L	ND	50	40.1	80	39-120	
2,4-Dimethylphenol	ug/L	ND	50	21.6	43	32-119	
2,4-Dinitrophenol	ug/L	ND	50	34.5J	69	20-157	
2,4-Dinitrotoluene	ug/L	ND	50	41.1	82	39-130	
2,6-Dinitrotoluene	ug/L	ND	50	40.8	82	50-128	
2-Chloronaphthalene	ug/L	ND	50	38.9	78	60-118	
2-Chlorophenol	ug/L	ND	50	35.1	70	35-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Project No.: 60145336

MATRIX SPIKE SAMPLE:		1193411						
Parameter	Units	60145176001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
2-Nitrophenol	ug/L	ND	50	40.3	81	29-123		
3,3'-Dichlorobenzidine	ug/L	ND	50	2.8J	6	10-160	M1	
4,6-Dinitro-2-methylphenol	ug/L	ND	50	42.3	85	27-146		
4-Bromophenylphenyl ether	ug/L	ND	50	42.4	85	53-124		
4-Chloro-3-methylphenol	ug/L	ND	50	40.8	82	33-123		
4-Chlorophenylphenyl ether	ug/L	ND	50	40.1	80	34-125		
4-Nitrophenol	ug/L	ND	50	16.8	34	10-120		
Acenaphthene	ug/L	ND	50	38.4	77	47-120		
Acenaphthylene	ug/L	ND	50	38.4	77	33-120		
Anthracene	ug/L	ND	50	38.4	77	36-121		
Benzidine	ug/L	ND	50	ND	0	1-120	M1	
Benzo(a)anthracene	ug/L	ND	50	41.5	83	37-127		
Benzo(a)pyrene	ug/L	ND	50	38.8	78	34-125		
Benzo(b)fluoranthene	ug/L	ND	50	43.6	87	37-131		
Benzo(g,h,i)perylene	ug/L	ND	50	40.2	80	35-128		
Benzo(k)fluoranthene	ug/L	ND	50	42.1	84	34-130		
bis(2-Chloroethoxy)methane	ug/L	ND	50	39.4	79	33-120		
bis(2-Chloroethyl) ether	ug/L	ND	50	38.9	78	32-120		
bis(2-Chloroisopropyl) ether	ug/L	ND	50	35.9	72	36-120		
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	45.6	91	38-137		
Butylbenzylphthalate	ug/L	ND	50	44.2	88	43-136		
Chrysene	ug/L	ND	50	41.7	83	36-127		
Di-n-butylphthalate	ug/L	ND	50	43.2	86	38-118		
Di-n-octylphthalate	ug/L	ND	50	44.4	89	40-140		
Dibenz(a,h)anthracene	ug/L	ND	50	41.4	83	35-131		
Diethylphthalate	ug/L	ND	50	39.8	80	33-114		
Dimethylphthalate	ug/L	ND	50	39.8	80	34-112		
Fluoranthene	ug/L	ND	50	42.0	84	38-125		
Fluorene	ug/L	ND	50	39.2	78	59-121		
Hexachloro-1,3-butadiene	ug/L	ND	50	40.3	81	27-116		
Hexachlorobenzene	ug/L	ND	50	41.8	84	34-124		
Hexachlorocyclopentadiene	ug/L	ND	100	65.8	66	11-120		
Hexachloroethane	ug/L	ND	50	36.2	72	40-113		
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	41.2	82	38-127		
Isophorone	ug/L	ND	50	40.0	80	31-120		
N-Nitroso-di-n-propylamine	ug/L	ND	50	39.5	79	30-120		
N-Nitrosodimethylamine	ug/L	ND	50	25.4	51	29-120		
N-Nitrosodiphenylamine	ug/L	ND	50	38.6	77	10-139		
Naphthalene	ug/L	ND	50	38.4	77	32-120		
Nitrobenzene	ug/L	ND	50	41.5	83	35-128		
Pentachlorophenol	ug/L	ND	50	41.9	84	38-133		
Phenanthrene	ug/L	ND	50	40.7	81	54-120		
Phenol	ug/L	ND	50	14.8	30	13-112		
Pyrene	ug/L	ND	50	42.3	85	52-115		
2,4,6-Tribromophenol (S)	%				84	39-119		
2-Fluorobiphenyl (S)	%				77	36-120		
2-Fluorophenol (S)	%				40	18-120		
Nitrobenzene-d5 (S)	%				77	32-120		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

MATRIX SPIKE SAMPLE:		1193411					
Parameter	Units	60145176001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenol-d6 (S)	%				27	12-120	
Terphenyl-d14 (S)	%				86	44-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

QC Batch:	WET/41508	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60145336001, 60145336003		

METHOD BLANK: 1194901 Matrix: Water

Associated Lab Samples: 60145336001, 60145336003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	05/28/13 07:50	

LABORATORY CONTROL SAMPLE: 1194902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	37.9	95	78-114	

MATRIX SPIKE SAMPLE: 1194914

Parameter	Units	60145409001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	102	41.2	137	83	78-114	

SAMPLE DUPLICATE: 1194915

Parameter	Units	60144888002 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 142/145-MSD

Pace Project No.: 60145336

QC Batch: WETA/24888 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60145336001, 60145336003

METHOD BLANK: 1195483 Matrix: Water

Associated Lab Samples: 60145336001, 60145336003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/29/13 17:08	

LABORATORY CONTROL SAMPLE: 1195484

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

MATRIX SPIKE SAMPLE: 1195485

Parameter	Units	60145322002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.18	2	1.7	77	90-110	M1

MATRIX SPIKE SAMPLE: 1195486

Parameter	Units	60145046001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	12.4	10	20.7	83	90-110	M1

SAMPLE DUPLICATE: 1195487

Parameter	Units	60145151001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.92	0.93	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

QC Batch: WETA/24908 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60145336001, 60145336003

METHOD BLANK: 1196155 Matrix: Water

Associated Lab Samples: 60145336001, 60145336003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	05/31/13 09:13	

LABORATORY CONTROL SAMPLE: 1196156

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	49.9	100	90-110	

MATRIX SPIKE SAMPLE: 1196157

Parameter	Units	60144714001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	58.0	105	90-110	

MATRIX SPIKE SAMPLE: 1196159

Parameter	Units	60145530001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	20300	10000	28700	84	90-110	M1

SAMPLE DUPLICATE: 1196158

Parameter	Units	60145529001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	24700	24600	0	25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 142/145-MSD

Pace Project No.: 60145336

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.

D9 Dissolved result is greater than the total. Data is within laboratory control limits.

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 142/145-MSD

Pace Project No.: 60145336

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145336001	145-MSD	EPA 200.7	MPRP/22810	EPA 200.7	ICP/18058
60145336003	142-MSD	EPA 200.7	MPRP/22810	EPA 200.7	ICP/18058
60145336001	145-MSD	EPA 200.7	MPRP/22859	EPA 200.7	ICP/18086
60145336003	142-MSD	EPA 200.7	MPRP/22859	EPA 200.7	ICP/18086
60145336001	145-MSD	EPA 245.1	MERP/7379	EPA 245.1	MERC/7336
60145336003	142-MSD	EPA 245.1	MERP/7379	EPA 245.1	MERC/7336
60145336001	145-MSD	EPA 245.1	MERP/7386	EPA 245.1	MERC/7341
60145336003	142-MSD	EPA 245.1	MERP/7386	EPA 245.1	MERC/7341
60145336001	145-MSD	EPA 625	OEXT/38554	EPA 625	MSSV/12196
60145336003	142-MSD	EPA 625	OEXT/38554	EPA 625	MSSV/12196
60145336003	142-MSD	EPA 624 Low	MSV/53901		
60145336004	TRIP BLANK	EPA 624 Low	MSV/53901		
60145336001	145-MSD	EPA 1664A	WET/41508		
60145336003	142-MSD	EPA 1664A	WET/41508		
60145336001	145-MSD	EPA 350.1	WETA/24888		
60145336003	142-MSD	EPA 350.1	WETA/24888		
60145336001	145-MSD	EPA 410.4	WETA/24908		
60145336003	142-MSD	EPA 410.4	WETA/24908		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60145336

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: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 3.6, 4.0
Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: 5-23-13 B.A.

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input 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>WOT</u>		13.	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.	
Exceptions: <u>VOA</u> , coliform, <u>TOC</u> , O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed	Lot # of added preservative
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank lot # (if purchased): <u>covered</u>		15.	
Headspace in VOA vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>(Recollect) (Proceed)</u> 16. <u>4 of 5 "145msd" 5 of 5 "142msd"</u>	
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State:	

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

Person Contacted: Bill Date/Time: _____

Comments/ Resolution: Will recollect 145msd VOC; proceed w/ 142msd VOC

Project Manager Review: [Signature]

Date: 5/23/13

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: _____ of _____

Section A
Required Client Information

Company: BARR ENGINEERING	
Address: _____	
Email To: _____	
Phone: _____	Fax: _____
Requested Due Date/TAT: 5 BUSINESS DAY	

Section B
Required Project Information:

Report To: ED GALBRAITH	
Copy To: SCOTT C. FEDAK	
Purchase Order No.: _____	
Project Name: BRIDGETON LANDFILL	
Project Number: _____	

Section C
Invoice Information:

Attention: _____	
Company Name: REPUBLIC SERVICES	
Address: _____	
Pace Quote Reference: 130426_7588	
Pace Project Manager: Angie Brown 913-563-1402	
Pace Profile #: 6787 line 2	

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	COLLECTED COMPOSITE START COMPOSITE END/GRAB	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.					
						DATE	TIME	DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other			Analysis Test	Y/N	Y/N		
1	145-MSD	3AG14 2AG14 1BP34					5/22/13	5/23/13	13	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5/23/13	*Metals list: <i>CS</i>
2	TRIP Blank								2	<input checked="" type="checkbox"/>													20/9/13	Al, Co, As, Be, Cd, Cr <i>ON</i>
3																								Co, Cu, Fe, Pb, Ni, Se, Ag, Ti, Zn and Mercury
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	<i>Dan Feezor PACE</i>	5/22/13	16:57	<i>Bill Chace PACE</i>	5/22	16:57	3.6	Y	Y	Y
SITE ADDRESS: BRIDGETON LF					5/23/13	0315	4.0	Y	Y	Y
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: Dan Feezor		DATE Signed (MM/DD/YY): 5/24/13	
SIGNATURE of SAMPLER: <i>[Signature]</i>		Temp in °C	
		Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)
		Samples Intact (Y/N)	

Page 33 of 34

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: BARR ENGINEERING		Report To: ED GALBRAITH		Attention:	
Address:		Copy To: SCOTT C. FEDAK		Company Name: REPUBLIC SERVICES	
Email To:		Purchase Order No.:		Address:	
Phone: Fax:		Project Name: BRIDGETON LANDFILL		Pace Quote Reference: 130426_7588	
Requested Due Date/TAT:		Project Number:		Pace Project Manager: Angie Brown 913-563-1402	
				Pace Profile #: 6787 line 2	
				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	
				STATE: MO	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMIP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.				
					COMPOSITE START	COMPOSITE END/GRAB	DATE	TIME			DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other					COD 410	pH 5.0-6.0	LF Dis. Metals 200.7/245 Z	Total Metals 200.7/245*
1	142-MSD	3AG1U	OT	G			5/24	16:53	13	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	50694	*Metals list: (L)
2	TRIP BLANK	025107							2	✓																20694	Al,Sb,A.s,Be,Cd,Cr	
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	DAVID FEI	5/21/13	16:53	YFA 564 Dunk Ops / PACE	5/22	16:55	3.6	Y	Y	Y	
SITE ADDRESS: BRIDGETON LF					5-23-13	0315	4.0	Y	Y	Y	
13570 ST. CHARLES ROCK RD											
BRIDGETON MO 63044											

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	DANIEL FEI				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	5/22/13		

Page 34 of 34

May 30, 2013

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

RE: Project: BRIDGETON LF 148 MSD
Pace Project No.: 60145395

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 24, 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 148 MSD

Pace Project No.: 60145395

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 148 MSD

Pace Project No.: 60145395

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145395001	148-MSD BOD	Water	05/23/13 14:57	05/24/13 03:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 148 MSD

Pace Project No.: 60145395

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145395001	148-MSD BOD	SM 2540D	RAS	1
		SM 4500-H+B	JML	1
		SM 5210B	NDL	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 148 MSD

Pace Project No.: 60145395

Sample: 148-MSD BOD		Lab ID: 60145395001	Collected: 05/23/13 14:57	Received: 05/24/13 03:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	1610	mg/L	5.0	1		05/28/13 11:09		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.4	Std. Units	0.10	1		05/24/13 14:15		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	25900	mg/L	2.0	1	05/25/13 10:12	05/30/13 08:53		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148 MSD

Pace Project No.: 60145395

QC Batch: WET/41522

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60145395001

METHOD BLANK: 1195066

Matrix: Water

Associated Lab Samples: 60145395001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/28/13 10:59	

SAMPLE DUPLICATE: 1195067

Parameter	Units	60145450007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2020	2020	0	25	

SAMPLE DUPLICATE: 1195068

Parameter	Units	60145409001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	272	276	1	25	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148 MSD

Pace Project No.: 60145395

QC Batch: WET/41491 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60145395001

SAMPLE DUPLICATE: 1193902

Parameter	Units	60145365001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.1	8.1	0	5	H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148 MSD

Pace Project No.: 60145395

QC Batch: WET/41493

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60145395001

METHOD BLANK: 1194556

Matrix: Water

Associated Lab Samples: 60145395001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/30/13 08:47	

LABORATORY CONTROL SAMPLE: 1194557

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	225	113	85-115	

SAMPLE DUPLICATE: 1194558

Parameter	Units	60145458002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	3.4	3.2	5	17	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 148 MSD

Pace Project No.: 60145395

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 148 MSD

Pace Project No.: 60145395

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145395001	148-MSD BOD	SM 2540D	WET/41522		
60145395001	148-MSD BOD	SM 4500-H+B	WET/41491		
60145395001	148-MSD BOD	SM 5210B	WET/41493	SM 5210B	WET/41569

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO# : 60145395



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 2PC

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

Cooler Temperature: 0.6

Date and initials of person examining contents: 5-24-13 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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>BOD, pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input 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: 5/24/13

June 03, 2013

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

RE: Project: BRIDGETON LF 148-MSD
Pace Project No.: 60145428

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 24, 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 148-MSD

Pace Project No.: 60145428

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 148-MSD

Pace Project No.: 60145428

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145428001	148-MSD	Water	05/23/13 14:57	05/24/13 03:15
60145428002	TRIP BLANK	Water	05/23/13 00:00	05/24/13 03:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145428001	148-MSD	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	JKL	38
		EPA 1664A	JMC1	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
60145428002	TRIP BLANK	EPA 624 Low	JKL	38

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

Sample: 148-MSD		Lab ID: 60145428001	Collected: 05/23/13 14:57	Received: 05/24/13 03:15	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	9870 ug/L		150	2	05/28/13 10:13	05/29/13 17:45	7429-90-5	
Antimony	23.9 ug/L		20.0	2	05/28/13 10:13	05/29/13 17:45	7440-36-0	
Arsenic	701 ug/L		20.0	2	05/28/13 10:13	05/29/13 17:45	7440-38-2	
Beryllium	ND ug/L		2.0	2	05/28/13 10:13	05/29/13 17:45	7440-41-7	D3
Cadmium	ND ug/L		10.0	2	05/28/13 10:13	05/29/13 17:45	7440-43-9	D3
Chromium	274 ug/L		15.0	3	05/28/13 10:13	05/29/13 18:05	7440-47-3	
Cobalt	27.7 ug/L		10.0	2	05/28/13 10:13	05/29/13 17:45	7440-48-4	
Copper	28.5 ug/L		20.0	2	05/28/13 10:13	05/29/13 17:45	7440-50-8	
Iron	890000 ug/L		100	2	05/28/13 10:13	05/29/13 17:45	7439-89-6	
Lead	182 ug/L		10.0	2	05/28/13 10:13	05/29/13 17:45	7439-92-1	
Nickel	97.6 ug/L		10.0	2	05/28/13 10:13	05/29/13 17:45	7440-02-0	
Selenium	ND ug/L		45.0	3	05/28/13 10:13	05/29/13 18:05	7782-49-2	D3
Silver	ND ug/L		14.0	2	05/28/13 10:13	05/29/13 17:45	7440-22-4	D3
Thallium	ND ug/L		60.0	3	05/28/13 10:13	05/29/13 18:05	7440-28-0	D3
Zinc	17200 ug/L		100	2	05/28/13 10:13	05/29/13 17:45	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	4800 ug/L		150	2	05/30/13 17:40	05/31/13 11:10	7429-90-5	
Antimony, Dissolved	30.2 ug/L		20.0	2	05/30/13 17:40	05/31/13 11:10	7440-36-0	D9
Arsenic, Dissolved	717 ug/L		20.0	2	05/30/13 17:40	05/31/13 11:10	7440-38-2	D9
Beryllium, Dissolved	ND ug/L		2.0	2	05/30/13 17:40	05/31/13 11:10	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		10.0	2	05/30/13 17:40	05/31/13 11:10	7440-43-9	D3
Chromium, Dissolved	226 ug/L		15.0	3	05/30/13 17:40	05/31/13 11:33	7440-47-3	
Cobalt, Dissolved	25.8 ug/L		10.0	2	05/30/13 17:40	05/31/13 11:10	7440-48-4	
Copper, Dissolved	ND ug/L		20.0	2	05/30/13 17:40	05/31/13 11:10	7440-50-8	D3
Iron, Dissolved	687000 ug/L		100	2	05/30/13 17:40	05/31/13 11:10	7439-89-6	M1
Lead, Dissolved	86.0 ug/L		10.0	2	05/30/13 17:40	05/31/13 11:10	7439-92-1	
Nickel, Dissolved	84.5 ug/L		10.0	2	05/30/13 17:40	05/31/13 11:10	7440-02-0	
Selenium, Dissolved	ND ug/L		45.0	3	05/30/13 17:40	05/31/13 11:33	7782-49-2	D3,M1
Silver, Dissolved	ND ug/L		14.0	2	05/30/13 17:40	05/31/13 11:10	7440-22-4	D3,M1
Thallium, Dissolved	ND ug/L		60.0	3	05/30/13 17:40	05/31/13 11:33	7440-28-0	D3
Zinc, Dissolved	16600 ug/L		100	2	05/30/13 17:40	05/31/13 11:10	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	37.7 ug/L		1.0	5	05/29/13 16:45	05/30/13 12:54	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	05/29/13 16:45	05/30/13 10:30	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		2500	50	05/29/13 00:00	05/30/13 10:17	83-32-9	
Acenaphthylene	ND ug/L		2500	50	05/29/13 00:00	05/30/13 10:17	208-96-8	
Anthracene	ND ug/L		2500	50	05/29/13 00:00	05/30/13 10:17	120-12-7	
Benzidine	ND ug/L		25000	50	05/29/13 00:00	05/30/13 10:17	92-87-5	
Benzo(a)anthracene	ND ug/L		2500	50	05/29/13 00:00	05/30/13 10:17	56-55-3	
Benzo(a)pyrene	ND ug/L		2500	50	05/29/13 00:00	05/30/13 10:17	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

Sample: 148-MSD		Lab ID: 60145428001	Collected: 05/23/13 14:57	Received: 05/24/13 03:15	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	2500	50	05/29/13 00:00	05/30/13 10:17	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	207-08-9	
4-Bromophenylphenyl ether	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	101-55-3	
Butylbenzylphthalate	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	59-50-7	
bis(2-Chloroethoxy)methane	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	3000	50	05/29/13 00:00	05/30/13 10:17	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	3000	50	05/29/13 00:00	05/30/13 10:17	39638-32-9	
2-Chloronaphthalene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	91-58-7	
2-Chlorophenol	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	7005-72-3	
Chrysene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	53-70-3	
3,3'-Dichlorobenzidine	ND	ug/L	10000	50	05/29/13 00:00	05/30/13 10:17	91-94-1	
2,4-Dichlorophenol	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	120-83-2	
Diethylphthalate	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	84-66-2	
2,4-Dimethylphenol	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	105-67-9	
Dimethylphthalate	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	131-11-3	
Di-n-butylphthalate	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	12500	50	05/29/13 00:00	05/30/13 10:17	534-52-1	
2,4-Dinitrophenol	ND	ug/L	25000	50	05/29/13 00:00	05/30/13 10:17	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	3000	50	05/29/13 00:00	05/30/13 10:17	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	606-20-2	
Di-n-octylphthalate	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	117-81-7	
Fluoranthene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	206-44-0	
Fluorene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	87-68-3	
Hexachlorobenzene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	77-47-4	
Hexachloroethane	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	193-39-5	
Isophorone	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	78-59-1	
Naphthalene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	91-20-3	
Nitrobenzene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	98-95-3	
2-Nitrophenol	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	88-75-5	
4-Nitrophenol	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	86-30-6	
Pentachlorophenol	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	87-86-5	
Phenanthrene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	85-01-8	
Phenol	13100	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	108-95-2	
Pyrene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:17	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

Sample: 148-MSD	Lab ID: 60145428001	Collected: 05/23/13 14:57	Received: 05/24/13 03:15	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	50	05/29/13 00:00	05/30/13 10:17	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	50	05/29/13 00:00	05/30/13 10:17	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	50	05/29/13 00:00	05/30/13 10:17	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	50	05/29/13 00:00	05/30/13 10:17	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	50	05/29/13 00:00	05/30/13 10:17	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	50	05/29/13 00:00	05/30/13 10:17	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		05/30/13 13:12	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/30/13 13:12	75-27-4	
Bromoform	ND ug/L		200	200		05/30/13 13:12	75-25-2	
Bromomethane	ND ug/L		1000	200		05/30/13 13:12	74-83-9	L3
Carbon tetrachloride	ND ug/L		200	200		05/30/13 13:12	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/30/13 13:12	108-90-7	
Chloroethane	ND ug/L		200	200		05/30/13 13:12	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/30/13 13:12	110-75-8	M1
Chloroform	ND ug/L		200	200		05/30/13 13:12	67-66-3	
Chloromethane	ND ug/L		200	200		05/30/13 13:12	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/30/13 13:12	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/30/13 13:12	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/30/13 13:12	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/30/13 13:12	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/30/13 13:12	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/30/13 13:12	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/30/13 13:12	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/30/13 13:12	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/30/13 13:12	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/30/13 13:12	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/30/13 13:12	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/30/13 13:12	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/30/13 13:12	100-41-4	
Methylene chloride	ND ug/L		200	200		05/30/13 13:12	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/30/13 13:12	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/30/13 13:12	127-18-4	
Toluene	ND ug/L		200	200		05/30/13 13:12	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/30/13 13:12	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/30/13 13:12	79-00-5	
Trichloroethene	ND ug/L		200	200		05/30/13 13:12	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/30/13 13:12	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/30/13 13:12	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/30/13 13:12	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96 %		80-120	200		05/30/13 13:12	1868-53-7	D3
4-Bromofluorobenzene (S)	102 %		80-120	200		05/30/13 13:12	460-00-4	
Toluene-d8 (S)	101 %		80-120	200		05/30/13 13:12	2037-26-5	
1,2-Dichloroethane-d4 (S)	89 %		80-120	200		05/30/13 13:12	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

Sample: 148-MSD		Lab ID: 60145428001	Collected: 05/23/13 14:57	Received: 05/24/13 03:15	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		05/30/13 13:12		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	580	mg/L	5.0	1		05/30/13 07:55		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	599	mg/L	20.0	200		05/30/13 10:22	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	29100	mg/L	5000	500		06/01/13 09:19		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

Sample: TRIP BLANK	Lab ID: 60145428002	Collected: 05/23/13 00:00	Received: 05/24/13 03:15	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		05/30/13 11:48	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		05/30/13 11:48	75-27-4	
Bromoform	ND ug/L		1.0	1		05/30/13 11:48	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/30/13 11:48	74-83-9	L3
Carbon tetrachloride	ND ug/L		1.0	1		05/30/13 11:48	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/30/13 11:48	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/30/13 11:48	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		05/30/13 11:48	110-75-8	
Chloroform	ND ug/L		1.0	1		05/30/13 11:48	67-66-3	
Chloromethane	ND ug/L		1.0	1		05/30/13 11:48	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		05/30/13 11:48	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/30/13 11:48	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/30/13 11:48	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/30/13 11:48	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		05/30/13 11:48	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/30/13 11:48	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/30/13 11:48	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/30/13 11:48	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/30/13 11:48	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		05/30/13 11:48	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		05/30/13 11:48	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		05/30/13 11:48	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		05/30/13 11:48	100-41-4	
Methylene chloride	ND ug/L		1.0	1		05/30/13 11:48	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/30/13 11:48	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/30/13 11:48	127-18-4	
Toluene	ND ug/L		1.0	1		05/30/13 11:48	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/30/13 11:48	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/30/13 11:48	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/30/13 11:48	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/30/13 11:48	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		05/30/13 11:48	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/30/13 11:48	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99 %		80-120	1		05/30/13 11:48	1868-53-7	
4-Bromofluorobenzene (S)	100 %		80-120	1		05/30/13 11:48	460-00-4	
Toluene-d8 (S)	103 %		80-120	1		05/30/13 11:48	2037-26-5	
1,2-Dichloroethane-d4 (S)	90 %		80-120	1		05/30/13 11:48	17060-07-0	
Preservation pH	7.0			1		05/30/13 11:48		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

QC Batch:	MERP/7385	Analysis Method:	EPA 245.1
QC Batch Method:	EPA 245.1	Analysis Description:	245.1 Mercury
Associated Lab Samples:	60145428001		

METHOD BLANK: 1195759 Matrix: Water
Associated Lab Samples: 60145428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/30/13 10:53	

LABORATORY CONTROL SAMPLE: 1195760

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1195761 1195762

Parameter	Units	60145102001		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Mercury	ug/L	ND	5	5	5.2	5.1	104	102	70-130	2	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

QC Batch: MERP/7386

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60145428001

METHOD BLANK: 1195833

Matrix: Water

Associated Lab Samples: 60145428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/30/13 10:22	

LABORATORY CONTROL SAMPLE: 1195834

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1195835

1195836

Parameter	Units	60145231001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Mercury, Dissolved	ug/L	ND	5	4.5	5	4.6	90	91	70-130	1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

QC Batch: MPRP/22810

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60145428001

METHOD BLANK: 1195056

Matrix: Water

Associated Lab Samples: 60145428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	05/29/13 17:30	
Antimony	ug/L	ND	10.0	05/29/13 17:30	
Arsenic	ug/L	ND	10.0	05/29/13 17:30	
Beryllium	ug/L	ND	1.0	05/29/13 17:30	
Cadmium	ug/L	ND	5.0	05/29/13 17:30	
Chromium	ug/L	ND	5.0	05/29/13 17:30	
Cobalt	ug/L	ND	5.0	05/29/13 17:30	
Copper	ug/L	ND	10.0	05/29/13 17:30	
Iron	ug/L	ND	50.0	05/29/13 17:30	
Lead	ug/L	ND	5.0	05/29/13 17:30	
Nickel	ug/L	ND	5.0	05/29/13 17:30	
Selenium	ug/L	ND	15.0	05/29/13 17:30	
Silver	ug/L	ND	7.0	05/29/13 17:30	
Thallium	ug/L	ND	20.0	05/29/13 17:30	
Zinc	ug/L	ND	50.0	05/29/13 17:30	

LABORATORY CONTROL SAMPLE: 1195057

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9750	97	85-115	
Antimony	ug/L	1000	981	98	85-115	
Arsenic	ug/L	1000	951	95	85-115	
Beryllium	ug/L	1000	961	96	85-115	
Cadmium	ug/L	1000	968	97	85-115	
Chromium	ug/L	1000	1000	100	85-115	
Cobalt	ug/L	1000	983	98	85-115	
Copper	ug/L	1000	965	97	85-115	
Iron	ug/L	10000	9680	97	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	990	99	85-115	
Silver	ug/L	500	514	103	85-115	
Thallium	ug/L	1000	992	99	85-115	
Zinc	ug/L	1000	1030	103	85-115	

SAMPLE DUPLICATE: 1195058

Parameter	Units	60145336001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	9330	8960	4	20	
Antimony	ug/L	ND	26.2		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

SAMPLE DUPLICATE: 1195058

Parameter	Units	60145336001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	743	765	3	20	
Beryllium	ug/L	ND	ND		20	D3
Cadmium	ug/L	ND	ND		20	D3
Chromium	ug/L	260	258	1	20	
Cobalt	ug/L	36.0	34.0	6	20	
Copper	ug/L	59.7	60.5	1	20	
Iron	ug/L	885000	885000	0	20	
Lead	ug/L	156	167	7	20	
Nickel	ug/L	114	113	1	20	
Selenium	ug/L	ND	ND		20	D3
Silver	ug/L	ND	4.7J		20	D3
Thallium	ug/L	ND	ND		20	D3
Zinc	ug/L	13700	13700	0	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148-MSD
Pace Project No.: 60145428

QC Batch: MPRP/22859 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60145428001

METHOD BLANK: 1196732 Matrix: Water
Associated Lab Samples: 60145428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	05/31/13 11:01	
Antimony, Dissolved	ug/L	ND	10.0	05/31/13 11:01	
Arsenic, Dissolved	ug/L	ND	10.0	05/31/13 11:01	
Beryllium, Dissolved	ug/L	ND	1.0	05/31/13 11:01	
Cadmium, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Chromium, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Cobalt, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Copper, Dissolved	ug/L	ND	10.0	05/31/13 11:01	
Iron, Dissolved	ug/L	ND	50.0	05/31/13 11:01	
Lead, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Nickel, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Selenium, Dissolved	ug/L	ND	15.0	05/31/13 11:01	
Silver, Dissolved	ug/L	ND	7.0	05/31/13 11:01	
Thallium, Dissolved	ug/L	ND	20.0	05/31/13 11:01	
Zinc, Dissolved	ug/L	ND	50.0	05/31/13 11:01	

LABORATORY CONTROL SAMPLE: 1196733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9490	95	85-115	
Antimony, Dissolved	ug/L	1000	984	98	85-115	
Arsenic, Dissolved	ug/L	1000	978	98	85-115	
Beryllium, Dissolved	ug/L	1000	992	99	85-115	
Cadmium, Dissolved	ug/L	1000	982	98	85-115	
Chromium, Dissolved	ug/L	1000	991	99	85-115	
Cobalt, Dissolved	ug/L	1000	1010	101	85-115	
Copper, Dissolved	ug/L	1000	961	96	85-115	
Iron, Dissolved	ug/L	10000	9640	96	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1020	102	85-115	
Selenium, Dissolved	ug/L	1000	970	97	85-115	
Silver, Dissolved	ug/L	500	484	97	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	1030	103	85-115	

MATRIX SPIKE SAMPLE: 1196734

Parameter	Units	60145428001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	4800	10000	15100	103	70-130	
Antimony, Dissolved	ug/L	30.2	1000	1070	104	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

MATRIX SPIKE SAMPLE:		1196734					
Parameter	Units	60145428001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	717	1000	2000	129	70-130	
Beryllium, Dissolved	ug/L	ND	1000	927	93	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1100	110	70-130	
Chromium, Dissolved	ug/L	226	1000	1180	95	70-130	
Cobalt, Dissolved	ug/L	25.8	1000	953	93	70-130	
Copper, Dissolved	ug/L	ND	1000	1120	110	70-130	
Iron, Dissolved	ug/L	687000	10000	713000	256	70-130	M1
Lead, Dissolved	ug/L	86.0	1000	955	87	70-130	
Nickel, Dissolved	ug/L	84.5	1000	995	91	70-130	
Selenium, Dissolved	ug/L	ND	1000	1310	131	70-130	M1
Silver, Dissolved	ug/L	ND	500	72.8	13	70-130	M1
Thallium, Dissolved	ug/L	ND	1000	764	76	70-130	
Zinc, Dissolved	ug/L	16600	1000	17400	82	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

QC Batch: MSV/54002 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60145428001, 60145428002

METHOD BLANK: 1196201 Matrix: Water

Associated Lab Samples: 60145428001, 60145428002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1-Dichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1-Dichloroethene	ug/L	ND	1.0	05/30/13 11:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
1,2-Dichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,2-Dichloropropane	ug/L	ND	1.0	05/30/13 11:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
2-Chloroethylvinyl ether	ug/L	ND	10.0	05/30/13 11:27	
Benzene	ug/L	ND	1.0	05/30/13 11:27	
Bromodichloromethane	ug/L	ND	1.0	05/30/13 11:27	
Bromoform	ug/L	ND	1.0	05/30/13 11:27	
Bromomethane	ug/L	ND	5.0	05/30/13 11:27	
Carbon tetrachloride	ug/L	ND	1.0	05/30/13 11:27	
Chlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
Chloroethane	ug/L	ND	1.0	05/30/13 11:27	
Chloroform	ug/L	ND	1.0	05/30/13 11:27	
Chloromethane	ug/L	ND	1.0	05/30/13 11:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/30/13 11:27	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/30/13 11:27	
Dibromochloromethane	ug/L	ND	1.0	05/30/13 11:27	
Ethylbenzene	ug/L	ND	1.0	05/30/13 11:27	
Methylene chloride	ug/L	ND	1.0	05/30/13 11:27	
Tetrachloroethene	ug/L	ND	1.0	05/30/13 11:27	
Toluene	ug/L	ND	1.0	05/30/13 11:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/30/13 11:27	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/30/13 11:27	
Trichloroethene	ug/L	ND	1.0	05/30/13 11:27	
Trichlorofluoromethane	ug/L	ND	1.0	05/30/13 11:27	
Vinyl chloride	ug/L	ND	1.0	05/30/13 11:27	
Xylene (Total)	ug/L	ND	3.0	05/30/13 11:27	
1,2-Dichloroethane-d4 (S)	%	90	80-120	05/30/13 11:27	
4-Bromofluorobenzene (S)	%	102	80-120	05/30/13 11:27	
Dibromofluoromethane (S)	%	101	80-120	05/30/13 11:27	
Toluene-d8 (S)	%	102	80-120	05/30/13 11:27	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

LABORATORY CONTROL SAMPLE: 1196202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.0	105	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	98	59-138	
1,1,2-Trichloroethane	ug/L	20	19.4	97	69-127	
1,1-Dichloroethane	ug/L	20	19.2	96	69-126	
1,1-Dichloroethene	ug/L	20	21.2	106	65-153	
1,2-Dichlorobenzene	ug/L	20	19.6	98	66-126	
1,2-Dichloroethane	ug/L	20	19.1	95	71-129	
1,2-Dichloropropane	ug/L	20	21.7	108	66-140	
1,3-Dichlorobenzene	ug/L	20	19.7	99	63-127	
1,4-Dichlorobenzene	ug/L	20	19.2	96	68-124	
2-Chloroethylvinyl ether	ug/L	20	28.4	142	33-159	
Benzene	ug/L	20	21.6	108	73-129	
Bromodichloromethane	ug/L	20	20.0	100	63-129	
Bromoform	ug/L	20	19.0	95	52-123	
Bromomethane	ug/L	20	32.3	162	10-160	L0
Carbon tetrachloride	ug/L	20	20.9	105	70-140	
Chlorobenzene	ug/L	20	20.4	102	68-127	
Chloroethane	ug/L	20	21.9	109	42-160	
Chloroform	ug/L	20	20.0	100	60-120	
Chloromethane	ug/L	20	22.8	114	10-160	
cis-1,2-Dichloroethene	ug/L	20	20.8	104	70-125	
cis-1,3-Dichloropropene	ug/L	20	21.2	106	66-132	
Dibromochloromethane	ug/L	20	19.3	96	63-134	
Ethylbenzene	ug/L	20	20.6	103	66-133	
Methylene chloride	ug/L	20	19.9	99	56-135	
Tetrachloroethene	ug/L	20	21.4	107	64-143	
Toluene	ug/L	20	21.4	107	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	67-149	
trans-1,3-Dichloropropene	ug/L	20	22.6	113	66-138	
Trichloroethene	ug/L	20	20.1	101	71-130	
Trichlorofluoromethane	ug/L	20	17.4	87	58-158	
Vinyl chloride	ug/L	20	20.7	103	41-160	
Xylene (Total)	ug/L	60	61.8	103	67-130	
1,2-Dichloroethane-d4 (S)	%			90	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Dibromofluoromethane (S)	%			93	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1196203

Parameter	Units	60145428001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4330	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4250	106	46-157	
1,1,2-Trichloroethane	ug/L	ND	4000	4060	101	52-150	
1,1-Dichloroethane	ug/L	ND	4000	3960	99	59-155	
1,1-Dichloroethene	ug/L	ND	4000	4310	108	14-160	
1,2-Dichlorobenzene	ug/L	ND	4000	4080	102	18-145	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

MATRIX SPIKE SAMPLE:		1196203					
Parameter	Units	60145428001 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	4420	111	12-160	
1,3-Dichlorobenzene	ug/L	ND	4000	4130	103	59-146	
1,4-Dichlorobenzene	ug/L	ND	4000	4230	104	18-147	
2-Chloroethylvinyl ether	ug/L	ND	4000	7760	194	10-160	M1
Benzene	ug/L	ND	4000	4370	109	37-151	
Bromodichloromethane	ug/L	ND	4000	4010	100	35-155	
Bromoform	ug/L	ND	4000	3830	96	45-133	
Bromomethane	ug/L	ND	4000	4760	119	10-160	
Carbon tetrachloride	ug/L	ND	4000	4220	106	70-140	
Chlorobenzene	ug/L	ND	4000	4190	105	37-153	
Chloroethane	ug/L	ND	4000	3710	93	14-160	
Chloroform	ug/L	ND	4000	4090	101	51-138	
Chloromethane	ug/L	ND	4000	4250	106	10-160	
cis-1,2-Dichloroethene	ug/L	ND	4000	4270	107	19-160	
cis-1,3-Dichloropropene	ug/L	ND	4000	4220	106	10-160	
Dibromochloromethane	ug/L	ND	4000	3990	100	53-149	
Ethylbenzene	ug/L	ND	4000	4290	107	37-154	
Methylene chloride	ug/L	ND	4000	4010	100	15-156	
Tetrachloroethene	ug/L	ND	4000	4310	108	64-148	
Toluene	ug/L	ND	4000	4390	110	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4060	102	54-156	
trans-1,3-Dichloropropene	ug/L	ND	4000	4580	114	17-160	
Trichloroethene	ug/L	ND	4000	4070	102	71-157	
Trichlorofluoromethane	ug/L	ND	4000	3610	90	17-160	
Vinyl chloride	ug/L	ND	4000	3790	95	10-160	
Xylene (Total)	ug/L	ND	12000	12700	106	12-153	
1,2-Dichloroethane-d4 (S)	%					92	80-120
4-Bromofluorobenzene (S)	%					102	80-120
Dibromofluoromethane (S)	%					93	80-120
Toluene-d8 (S)	%					99	80-120
Preservation pH			7.0		7.0		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148-MSD
Pace Project No.: 60145428

QC Batch: OEXT/38596 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60145428001

METHOD BLANK: 1195309 Matrix: Water
Associated Lab Samples: 60145428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/30/13 08:31	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/30/13 08:31	
2,4-Dichlorophenol	ug/L	ND	5.0	05/30/13 08:31	
2,4-Dimethylphenol	ug/L	ND	5.0	05/30/13 08:31	
2,4-Dinitrophenol	ug/L	ND	50.0	05/30/13 08:31	
2,4-Dinitrotoluene	ug/L	ND	6.0	05/30/13 08:31	
2,6-Dinitrotoluene	ug/L	ND	5.0	05/30/13 08:31	
2-Chloronaphthalene	ug/L	ND	5.0	05/30/13 08:31	
2-Chlorophenol	ug/L	ND	5.0	05/30/13 08:31	
2-Nitrophenol	ug/L	ND	5.0	05/30/13 08:31	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	05/30/13 08:31	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/30/13 08:31	
4-Bromophenylphenyl ether	ug/L	ND	5.0	05/30/13 08:31	
4-Chloro-3-methylphenol	ug/L	ND	5.0	05/30/13 08:31	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	05/30/13 08:31	
4-Nitrophenol	ug/L	ND	5.0	05/30/13 08:31	
Acenaphthene	ug/L	ND	5.0	05/30/13 08:31	
Acenaphthylene	ug/L	ND	5.0	05/30/13 08:31	
Anthracene	ug/L	ND	5.0	05/30/13 08:31	
Benzidine	ug/L	ND	50.0	05/30/13 08:31	
Benzo(a)anthracene	ug/L	ND	5.0	05/30/13 08:31	
Benzo(a)pyrene	ug/L	ND	5.0	05/30/13 08:31	
Benzo(b)fluoranthene	ug/L	ND	5.0	05/30/13 08:31	
Benzo(g,h,i)perylene	ug/L	ND	5.0	05/30/13 08:31	
Benzo(k)fluoranthene	ug/L	ND	5.0	05/30/13 08:31	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	05/30/13 08:31	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	05/30/13 08:31	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	05/30/13 08:31	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	05/30/13 08:31	
Butylbenzylphthalate	ug/L	ND	5.0	05/30/13 08:31	
Chrysene	ug/L	ND	5.0	05/30/13 08:31	
Di-n-butylphthalate	ug/L	ND	5.0	05/30/13 08:31	
Di-n-octylphthalate	ug/L	ND	5.0	05/30/13 08:31	
Dibenz(a,h)anthracene	ug/L	ND	5.0	05/30/13 08:31	
Diethylphthalate	ug/L	ND	5.0	05/30/13 08:31	
Dimethylphthalate	ug/L	ND	5.0	05/30/13 08:31	
Fluoranthene	ug/L	ND	5.0	05/30/13 08:31	
Fluorene	ug/L	ND	5.0	05/30/13 08:31	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/30/13 08:31	
Hexachlorobenzene	ug/L	ND	5.0	05/30/13 08:31	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/30/13 08:31	
Hexachloroethane	ug/L	ND	5.0	05/30/13 08:31	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	05/30/13 08:31	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148-MSD

Project No.: 60145428

METHOD BLANK: 1195309

Matrix: Water

Associated Lab Samples: 60145428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	05/30/13 08:31	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	05/30/13 08:31	
N-Nitrosodimethylamine	ug/L	ND	5.0	05/30/13 08:31	
N-Nitrosodiphenylamine	ug/L	ND	5.0	05/30/13 08:31	
Naphthalene	ug/L	ND	5.0	05/30/13 08:31	
Nitrobenzene	ug/L	ND	5.0	05/30/13 08:31	
Pentachlorophenol	ug/L	ND	5.0	05/30/13 08:31	
Phenanthrene	ug/L	ND	5.0	05/30/13 08:31	
Phenol	ug/L	ND	5.0	05/30/13 08:31	
Pyrene	ug/L	ND	5.0	05/30/13 08:31	
2,4,6-Tribromophenol (S)	%	73	39-119	05/30/13 08:31	
2-Fluorobiphenyl (S)	%	67	36-120	05/30/13 08:31	
2-Fluorophenol (S)	%	37	18-120	05/30/13 08:31	
Nitrobenzene-d5 (S)	%	68	32-120	05/30/13 08:31	
Phenol-d6 (S)	%	25	12-120	05/30/13 08:31	
Terphenyl-d14 (S)	%	73	44-120	05/30/13 08:31	

LABORATORY CONTROL SAMPLE: 1195310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	40.2	80	44-120	
2,4,6-Trichlorophenol	ug/L	50	42.6	85	48-120	
2,4-Dichlorophenol	ug/L	50	41.1	82	48-120	
2,4-Dimethylphenol	ug/L	50	37.4	75	37-119	
2,4-Dinitrophenol	ug/L	50	38.9J	78	15-153	
2,4-Dinitrotoluene	ug/L	50	45.3	91	54-120	
2,6-Dinitrotoluene	ug/L	50	43.4	87	52-120	
2-Chloronaphthalene	ug/L	50	40.4	81	60-118	
2-Chlorophenol	ug/L	50	35.8	72	44-120	
2-Nitrophenol	ug/L	50	41.9	84	43-120	
3,3'-Dichlorobenzidine	ug/L	50	40.2	80	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	46.0	92	31-147	
4-Bromophenylphenyl ether	ug/L	50	44.6	89	53-120	
4-Chloro-3-methylphenol	ug/L	50	43.3	87	50-120	
4-Chlorophenylphenyl ether	ug/L	50	42.6	85	54-120	
4-Nitrophenol	ug/L	50	17.6	35	10-120	
Acenaphthene	ug/L	50	41.3	83	51-120	
Acenaphthylene	ug/L	50	40.0	80	51-120	
Anthracene	ug/L	50	43.0	86	54-120	
Benzidine	ug/L	50	12.8J	26	1-124	
Benzo(a)anthracene	ug/L	50	44.6	89	54-120	
Benzo(a)pyrene	ug/L	50	42.5	85	54-120	
Benzo(b)fluoranthene	ug/L	50	46.4	93	57-120	
Benzo(g,h,i)perylene	ug/L	50	42.9	86	54-120	
Benzo(k)fluoranthene	ug/L	50	43.6	87	52-121	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

LABORATORY CONTROL SAMPLE: 1195310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	50	40.5	81	51-120	
bis(2-Chloroethyl) ether	ug/L	50	38.7	77	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	36.5	73	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	46.5	93	51-126	
Butylbenzylphthalate	ug/L	50	46.3	93	45-129	
Chrysene	ug/L	50	43.5	87	54-120	
Di-n-butylphthalate	ug/L	50	45.3	91	57-118	
Di-n-octylphthalate	ug/L	50	47.5	95	48-130	
Dibenz(a,h)anthracene	ug/L	50	44.1	88	56-119	
Diethylphthalate	ug/L	50	43.9	88	55-114	
Dimethylphthalate	ug/L	50	43.5	87	54-112	
Fluoranthene	ug/L	50	44.4	89	56-120	
Fluorene	ug/L	50	42.3	85	59-120	
Hexachloro-1,3-butadiene	ug/L	50	40.6	81	41-116	
Hexachlorobenzene	ug/L	50	44.2	88	53-120	
Hexachlorocyclopentadiene	ug/L	100	51.2	51	31-120	
Hexachloroethane	ug/L	50	37.5	75	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	43.0	86	55-120	
Isophorone	ug/L	50	41.7	83	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	40.6	81	47-120	
N-Nitrosodimethylamine	ug/L	50	24.3	49	28-120	
N-Nitrosodiphenylamine	ug/L	50	41.6	83	53-120	
Naphthalene	ug/L	50	39.8	80	48-120	
Nitrobenzene	ug/L	50	41.3	83	47-120	
Pentachlorophenol	ug/L	50	45.6	91	43-127	
Phenanthrene	ug/L	50	43.2	86	55-120	
Phenol	ug/L	50	15.0	30	15-112	
Pyrene	ug/L	50	45.0	90	55-115	
2,4,6-Tribromophenol (S)	%			94	39-119	
2-Fluorobiphenyl (S)	%			82	36-120	
2-Fluorophenol (S)	%			42	18-120	
Nitrobenzene-d5 (S)	%			81	32-120	
Phenol-d6 (S)	%			28	12-120	
Terphenyl-d14 (S)	%			92	44-120	

MATRIX SPIKE SAMPLE: 1195311

Parameter	Units	60145340001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	34.2	68	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	37.9	76	37-121	
2,4-Dichlorophenol	ug/L	ND	50	36.1	72	39-120	
2,4-Dimethylphenol	ug/L	ND	50	21.6	43	32-119	
2,4-Dinitrophenol	ug/L	ND	50	34.8J	70	20-157	
2,4-Dinitrotoluene	ug/L	ND	50	38.0	76	39-130	
2,6-Dinitrotoluene	ug/L	ND	50	37.0	74	50-128	
2-Chloronaphthalene	ug/L	ND	50	34.6	69	60-118	
2-Chlorophenol	ug/L	ND	50	31.3	63	35-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

MATRIX SPIKE SAMPLE:		1195311						
Parameter	Units	60145340001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
2-Nitrophenol	ug/L	ND	50	37.3	75	29-123		
3,3'-Dichlorobenzidine	ug/L	ND	50	ND	0	10-160	M1	
4,6-Dinitro-2-methylphenol	ug/L	ND	50	40.0	80	27-146		
4-Bromophenylphenyl ether	ug/L	ND	50	38.8	78	53-124		
4-Chloro-3-methylphenol	ug/L	ND	50	37.8	76	33-123		
4-Chlorophenylphenyl ether	ug/L	ND	50	36.9	74	34-125		
4-Nitrophenol	ug/L	ND	50	14.4	29	10-120		
Acenaphthene	ug/L	ND	50	35.5	71	47-120		
Acenaphthylene	ug/L	ND	50	35.2	70	33-120		
Anthracene	ug/L	ND	50	36.0	72	36-121		
Benzidine	ug/L	ND	50	ND	0	1-120	M1	
Benzo(a)anthracene	ug/L	ND	50	37.3	75	37-127		
Benzo(a)pyrene	ug/L	ND	50	34.8	70	34-125		
Benzo(b)fluoranthene	ug/L	ND	50	39.7	79	37-131		
Benzo(g,h,i)perylene	ug/L	ND	50	37.2	74	35-128		
Benzo(k)fluoranthene	ug/L	ND	50	36.3	73	34-130		
bis(2-Chloroethoxy)methane	ug/L	ND	50	36.3	73	33-120		
bis(2-Chloroethyl) ether	ug/L	ND	50	36.5	73	32-120		
bis(2-Chloroisopropyl) ether	ug/L	ND	50	32.8	66	36-120		
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	41.4	83	38-137		
Butylbenzylphthalate	ug/L	ND	50	40.2	80	43-136		
Chrysene	ug/L	ND	50	37.5	75	36-127		
Di-n-butylphthalate	ug/L	ND	50	39.9	80	38-118		
Di-n-octylphthalate	ug/L	ND	50	40.5	81	40-140		
Dibenz(a,h)anthracene	ug/L	ND	50	37.8	76	35-131		
Diethylphthalate	ug/L	ND	50	36.4	73	33-114		
Dimethylphthalate	ug/L	ND	50	36.9	74	34-112		
Fluoranthene	ug/L	ND	50	38.1	76	38-125		
Fluorene	ug/L	ND	50	36.3	73	59-121		
Hexachloro-1,3-butadiene	ug/L	ND	50	35.5	71	27-116		
Hexachlorobenzene	ug/L	ND	50	38.5	77	34-124		
Hexachlorocyclopentadiene	ug/L	ND	100	48.7	49	11-120		
Hexachloroethane	ug/L	ND	50	32.0	64	40-113		
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	37.3	75	38-127		
Isophorone	ug/L	ND	50	37.3	75	31-120		
N-Nitroso-di-n-propylamine	ug/L	ND	50	37.5	75	30-120		
N-Nitrosodimethylamine	ug/L	ND	50	21.4	43	29-120		
N-Nitrosodiphenylamine	ug/L	ND	50	35.1	70	10-139		
Naphthalene	ug/L	ND	50	34.5	69	32-120		
Nitrobenzene	ug/L	ND	50	39.9	80	35-128		
Pentachlorophenol	ug/L	ND	50	39.9	80	38-133		
Phenanthrene	ug/L	ND	50	37.5	75	54-120		
Phenol	ug/L	ND	50	12.6	25	13-112		
Pyrene	ug/L	ND	50	39.0	78	52-115		
2,4,6-Tribromophenol (S)	%				79	39-119		
2-Fluorobiphenyl (S)	%				72	36-120		
2-Fluorophenol (S)	%				35	18-120		
Nitrobenzene-d5 (S)	%				71	32-120		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

MATRIX SPIKE SAMPLE:		1195311					
Parameter	Units	60145340001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenol-d6 (S)	%				24	12-120	
Terphenyl-d14 (S)	%				79	44-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

QC Batch:	WET/41560	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60145428001		

METHOD BLANK: 1196072 Matrix: Water

Associated Lab Samples: 60145428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	05/30/13 07:53	

LABORATORY CONTROL SAMPLE: 1196073

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

MATRIX SPIKE SAMPLE: 1196074

Parameter	Units	60145172001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.4	40.3	92	78-114	

SAMPLE DUPLICATE: 1196076

Parameter	Units	60145160002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	ND	2.3J		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

QC Batch:	WETA/24904	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	60145428001		

METHOD BLANK: 1196047 Matrix: Water
Associated Lab Samples: 60145428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/30/13 09:55	

LABORATORY CONTROL SAMPLE: 1196048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	2	2.0	100	90-110	

MATRIX SPIKE SAMPLE: 1196049

Parameter	Units	60145142002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.34	2	1.7	66	90-110	M1

MATRIX SPIKE SAMPLE: 1196050

Parameter	Units	60145417002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1.8	2	2.9	53	90-110	M1

SAMPLE DUPLICATE: 1196051

Parameter	Units	60145417003 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	ND		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

QC Batch: WETA/24930 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60145428001

METHOD BLANK: 1197236 Matrix: Water

Associated Lab Samples: 60145428001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/01/13 08:58	

LABORATORY CONTROL SAMPLE: 1197237

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.9	108	90-110	

MATRIX SPIKE SAMPLE: 1197238

Parameter	Units	60145120002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	206	100	229	24	90-110	M1

MATRIX SPIKE SAMPLE: 1197240

Parameter	Units	60145172001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	80.9	50	128	94	90-110	

SAMPLE DUPLICATE: 1197239

Parameter	Units	60145120003 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	101	105	3	25	

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QUALIFIERS

Project: BRIDGETON LF 148-MSD

Pace Project No.: 60145428

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.

D9 Dissolved result is greater than the total. Data is within laboratory control limits.

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 148-MSD

Pace Project No.: 60145428

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145428001	148-MSD	EPA 200.7	MPRP/22810	EPA 200.7	ICP/18058
60145428001	148-MSD	EPA 200.7	MPRP/22859	EPA 200.7	ICP/18086
60145428001	148-MSD	EPA 245.1	MERP/7385	EPA 245.1	MERC/7342
60145428001	148-MSD	EPA 245.1	MERP/7386	EPA 245.1	MERC/7341
60145428001	148-MSD	EPA 625	OEXT/38596	EPA 625	MSSV/12201
60145428001	148-MSD	EPA 624 Low	MSV/54002		
60145428002	TRIP BLANK	EPA 624 Low	MSV/54002		
60145428001	148-MSD	EPA 1664A	WET/41560		
60145428001	148-MSD	EPA 350.1	WETA/24904		
60145428001	148-MSD	EPA 410.4	WETA/24930		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60145428
60145428

Client Name: Barr Eng.

Courier: Fed Ex UPS USPS Client Commercial Pace Other WTA 89 5-24-B

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: T112 / T-194 Type of Ice: Wet Blue None Samples received on ice, cooling process has begun.

Cooler Temperature: 0.6

Date and initials of person examining contents: 5-24-13 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.	
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
Includes date/time/ID/analyses	Matrix: <u>W</u>	13.	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. Added 2.5 mL HNO3 to metal container. pH went to 3.5. Added 2.0 mL H2SO4 to COP container. pH went from 4.5 to 3.0.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Exceptions: <u>VOA</u> , coliform, TOC, <u>6&C</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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.	
Pace Trip Blank lot # (if purchased): <u>covered by label</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: 5/24/13



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: / of /

Section A

Required Client Information:

Company: BARR ENGINEERING
 Address:
 Email To:
 Phone: Fax:
 Requested Due Date/TAT: 5 BUSINESS DAY

Section B

Required Project Information:

Report To: ED GALBRAITH
 Copy To: SCOTT C. FEDAK
 Purchase Order No.:
 Project Name: BRIDGETON LANDFILL
 Project Number:

Section C

Invoice Information:

Attention:
 Company Name: REPUBLIC SERVICES
 Address:
 Pace Quote Reference: 130426_7588
 Pace Project Manager: Angie Brown 913-563-1402
 Pace Profile #: 6787 line 2

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

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMIP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)				
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	Analysis Test ↓	COD 410	PF-SM-550H-B-N/A	LF Dis. Metals 200.7/245 Z	total Metals 200.7/245*	Ammonia EPA 350	Oil/Grease EPA 1664	625 SVOCs	624 VOCs		PCE-SM25-10B-N/A			
					DATE	TIME	DATE	TIME																									
1	3A914 148-MSD	2A91H 1B234	OT	G				5/23/13	13	✓	✓	✓								✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1B234	1B234	5D494 *Metals list:	
2	TRIP BLANK	2D494							2	✓																						Al,Sb,As,Be,Cd,Cr	
3																															Co,Cu,Fe,Pb,Ni,Se,Ag,Tl,Zn		
4																															and Mercury		
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

ADDITIONAL COMMENTS	RELEASED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SITE CONTACT: BILL ABERNATHY 314-502-1299	<i>William Abernathy</i>	5/23/13	1627	<i>Bill</i>	5/23	1630	0.6	Y	Y	Y
SITE ADDRESS: BRIDGETON LF				Branch Office / PALE	5-24-13	0315				
13570 ST. CHARLES ROCK RD										
BRIDGETON MO 63044										

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>WILLIAM ABERNATHY</i>				
SIGNATURE of SAMPLER:	<i>William Abernathy</i>				
	DATE Signed (MM/DD/YY): 5/23/13				

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

May 31, 2013

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

RE: Project: BRIDGETON LF 145-MSD
Pace Project No.: 60145434

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 24, 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 145-MSD

Pace Project No.: 60145434

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 145-MSD

Pace Project No.: 60145434

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145434001	145-MSD (R)	Water	05/23/13 11:59	05/24/13 03:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 145-MSD

Pace Project No.: 60145434

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145434001	145-MSD (R)	EPA 624 Low	JKL	38

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 145-MSD

Pace Project No.: 60145434

Sample: 145-MSD (R)	Lab ID: 60145434001	Collected: 05/23/13 11:59	Received: 05/24/13 03:15	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		200	200		05/30/13 13:55	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/30/13 13:55	75-27-4	
Bromoform	ND ug/L		200	200		05/30/13 13:55	75-25-2	
Bromomethane	ND ug/L		1000	200		05/30/13 13:55	74-83-9	L1
Carbon tetrachloride	ND ug/L		200	200		05/30/13 13:55	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/30/13 13:55	108-90-7	
Chloroethane	ND ug/L		200	200		05/30/13 13:55	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/30/13 13:55	110-75-8	
Chloroform	ND ug/L		200	200		05/30/13 13:55	67-66-3	
Chloromethane	ND ug/L		200	200		05/30/13 13:55	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/30/13 13:55	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/30/13 13:55	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/30/13 13:55	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/30/13 13:55	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/30/13 13:55	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/30/13 13:55	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/30/13 13:55	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/30/13 13:55	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/30/13 13:55	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/30/13 13:55	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/30/13 13:55	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/30/13 13:55	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/30/13 13:55	100-41-4	
Methylene chloride	ND ug/L		200	200		05/30/13 13:55	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/30/13 13:55	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/30/13 13:55	127-18-4	
Toluene	ND ug/L		200	200		05/30/13 13:55	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/30/13 13:55	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/30/13 13:55	79-00-5	
Trichloroethene	ND ug/L		200	200		05/30/13 13:55	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/30/13 13:55	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/30/13 13:55	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/30/13 13:55	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	96 %		80-120	200		05/30/13 13:55	1868-53-7	D3
4-Bromofluorobenzene (S)	102 %		80-120	200		05/30/13 13:55	460-00-4	
Toluene-d8 (S)	100 %		80-120	200		05/30/13 13:55	2037-26-5	
1,2-Dichloroethane-d4 (S)	92 %		80-120	200		05/30/13 13:55	17060-07-0	
Preservation pH	7.0			1.0	200	05/30/13 13:55		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 145-MSD
Pace Project No.: 60145434

QC Batch: MSV/54002 Analysis Method: EPA 624 Low
QC Batch Method: EPA 624 Low Analysis Description: 624 MSV
Associated Lab Samples: 60145434001

METHOD BLANK: 1196201 Matrix: Water
Associated Lab Samples: 60145434001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1-Dichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1-Dichloroethene	ug/L	ND	1.0	05/30/13 11:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
1,2-Dichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,2-Dichloropropane	ug/L	ND	1.0	05/30/13 11:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
2-Chloroethylvinyl ether	ug/L	ND	10.0	05/30/13 11:27	
Benzene	ug/L	ND	1.0	05/30/13 11:27	
Bromodichloromethane	ug/L	ND	1.0	05/30/13 11:27	
Bromoform	ug/L	ND	1.0	05/30/13 11:27	
Bromomethane	ug/L	ND	5.0	05/30/13 11:27	
Carbon tetrachloride	ug/L	ND	1.0	05/30/13 11:27	
Chlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
Chloroethane	ug/L	ND	1.0	05/30/13 11:27	
Chloroform	ug/L	ND	1.0	05/30/13 11:27	
Chloromethane	ug/L	ND	1.0	05/30/13 11:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/30/13 11:27	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/30/13 11:27	
Dibromochloromethane	ug/L	ND	1.0	05/30/13 11:27	
Ethylbenzene	ug/L	ND	1.0	05/30/13 11:27	
Methylene chloride	ug/L	ND	1.0	05/30/13 11:27	
Tetrachloroethene	ug/L	ND	1.0	05/30/13 11:27	
Toluene	ug/L	ND	1.0	05/30/13 11:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/30/13 11:27	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/30/13 11:27	
Trichloroethene	ug/L	ND	1.0	05/30/13 11:27	
Trichlorofluoromethane	ug/L	ND	1.0	05/30/13 11:27	
Vinyl chloride	ug/L	ND	1.0	05/30/13 11:27	
Xylene (Total)	ug/L	ND	3.0	05/30/13 11:27	
1,2-Dichloroethane-d4 (S)	%	90	80-120	05/30/13 11:27	
4-Bromofluorobenzene (S)	%	102	80-120	05/30/13 11:27	
Dibromofluoromethane (S)	%	101	80-120	05/30/13 11:27	
Toluene-d8 (S)	%	102	80-120	05/30/13 11:27	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 145-MSD

Pace Project No.: 60145434

LABORATORY CONTROL SAMPLE: 1196202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.0	105	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	98	59-138	
1,1,2-Trichloroethane	ug/L	20	19.4	97	69-127	
1,1-Dichloroethane	ug/L	20	19.2	96	69-126	
1,1-Dichloroethene	ug/L	20	21.2	106	65-153	
1,2-Dichlorobenzene	ug/L	20	19.6	98	66-126	
1,2-Dichloroethane	ug/L	20	19.1	95	71-129	
1,2-Dichloropropane	ug/L	20	21.7	108	66-140	
1,3-Dichlorobenzene	ug/L	20	19.7	99	63-127	
1,4-Dichlorobenzene	ug/L	20	19.2	96	68-124	
2-Chloroethylvinyl ether	ug/L	20	28.4	142	33-159	
Benzene	ug/L	20	21.6	108	73-129	
Bromodichloromethane	ug/L	20	20.0	100	63-129	
Bromoform	ug/L	20	19.0	95	52-123	
Bromomethane	ug/L	20	32.3	162	10-160	L0
Carbon tetrachloride	ug/L	20	20.9	105	70-140	
Chlorobenzene	ug/L	20	20.4	102	68-127	
Chloroethane	ug/L	20	21.9	109	42-160	
Chloroform	ug/L	20	20.0	100	60-120	
Chloromethane	ug/L	20	22.8	114	10-160	
cis-1,2-Dichloroethene	ug/L	20	20.8	104	70-125	
cis-1,3-Dichloropropene	ug/L	20	21.2	106	66-132	
Dibromochloromethane	ug/L	20	19.3	96	63-134	
Ethylbenzene	ug/L	20	20.6	103	66-133	
Methylene chloride	ug/L	20	19.9	99	56-135	
Tetrachloroethene	ug/L	20	21.4	107	64-143	
Toluene	ug/L	20	21.4	107	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	67-149	
trans-1,3-Dichloropropene	ug/L	20	22.6	113	66-138	
Trichloroethene	ug/L	20	20.1	101	71-130	
Trichlorofluoromethane	ug/L	20	17.4	87	58-158	
Vinyl chloride	ug/L	20	20.7	103	41-160	
Xylene (Total)	ug/L	60	61.8	103	67-130	
1,2-Dichloroethane-d4 (S)	%			90	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Dibromofluoromethane (S)	%			93	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1196203

Parameter	Units	60145428001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4330	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4250	106	46-157	
1,1,2-Trichloroethane	ug/L	ND	4000	4060	101	52-150	
1,1-Dichloroethane	ug/L	ND	4000	3960	99	59-155	
1,1-Dichloroethene	ug/L	ND	4000	4310	108	14-160	
1,2-Dichlorobenzene	ug/L	ND	4000	4080	102	18-145	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 145-MSD

Pace Project No.: 60145434

MATRIX SPIKE SAMPLE:		1196203					
Parameter	Units	60145428001 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	4420	111	12-160	
1,3-Dichlorobenzene	ug/L	ND	4000	4130	103	59-146	
1,4-Dichlorobenzene	ug/L	ND	4000	4230	104	18-147	
2-Chloroethylvinyl ether	ug/L	ND	4000	7760	194	10-160	M1
Benzene	ug/L	ND	4000	4370	109	37-151	
Bromodichloromethane	ug/L	ND	4000	4010	100	35-155	
Bromoform	ug/L	ND	4000	3830	96	45-133	
Bromomethane	ug/L	ND	4000	4760	119	10-160	
Carbon tetrachloride	ug/L	ND	4000	4220	106	70-140	
Chlorobenzene	ug/L	ND	4000	4190	105	37-153	
Chloroethane	ug/L	ND	4000	3710	93	14-160	
Chloroform	ug/L	ND	4000	4090	101	51-138	
Chloromethane	ug/L	ND	4000	4250	106	10-160	
cis-1,2-Dichloroethene	ug/L	ND	4000	4270	107	19-160	
cis-1,3-Dichloropropene	ug/L	ND	4000	4220	106	10-160	
Dibromochloromethane	ug/L	ND	4000	3990	100	53-149	
Ethylbenzene	ug/L	ND	4000	4290	107	37-154	
Methylene chloride	ug/L	ND	4000	4010	100	15-156	
Tetrachloroethene	ug/L	ND	4000	4310	108	64-148	
Toluene	ug/L	ND	4000	4390	110	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4060	102	54-156	
trans-1,3-Dichloropropene	ug/L	ND	4000	4580	114	17-160	
Trichloroethene	ug/L	ND	4000	4070	102	71-157	
Trichlorofluoromethane	ug/L	ND	4000	3610	90	17-160	
Vinyl chloride	ug/L	ND	4000	3790	95	10-160	
Xylene (Total)	ug/L	ND	12000	12700	106	12-153	
1,2-Dichloroethane-d4 (S)	%					92	80-120
4-Bromofluorobenzene (S)	%					102	80-120
Dibromofluoromethane (S)	%					93	80-120
Toluene-d8 (S)	%					99	80-120
Preservation pH			7.0		7.0		

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 145-MSD

Pace Project No.: 60145434

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.

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

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 145-MSD

Pace Project No.: 60145434

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145434001	145-MSD (R)	EPA 624 Low	MSV/54002		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60145434
60145434

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 2PC

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

Cooler Temperature: 0.6
Temperature should be above freezing to 6°C

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: 5-24-13 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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>WOT</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 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: 5/24

May 30, 2013

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

RE: Project: BRIDGETON LF 153-MSD
Pace Project No.: 60145537

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 25, 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 153-MSD

Pace Project No.: 60145537

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 153-MSD
Pace Project No.: 60145537

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145537001	153-MSD-BOD	Water	05/24/13 12:59	05/25/13 03:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145537

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145537001	153-MSD-BOD	SM 2540D	RAS	1
		SM 4500-H+B	NDL	1
		SM 5210B	NDL	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145537

Sample: 153-MSD-BOD		Lab ID: 60145537001	Collected: 05/24/13 12:59	Received: 05/25/13 03:15	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	1220	mg/L	5.0	1		05/28/13 11:04		
4500H+ pH, Electrometric		Analytical Method: SM 4500-H+B						
pH at 25 Degrees C	5.5	Std. Units	0.10	1		05/29/13 15:30		H6
5210B BOD, 5 day		Analytical Method: SM 5210B Preparation Method: SM 5210B						
BOD, 5 day	25800	mg/L	2.0	1	05/25/13 10:47	05/30/13 09:19		

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145537

QC Batch: WET/41522

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60145537001

METHOD BLANK: 1195066

Matrix: Water

Associated Lab Samples: 60145537001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/28/13 10:59	

SAMPLE DUPLICATE: 1195067

Parameter	Units	60145450007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	2020	2020	0	25	

SAMPLE DUPLICATE: 1195068

Parameter	Units	60145409001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	272	276	1	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145537

QC Batch: WET/41545 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60145537001

SAMPLE DUPLICATE: 1195802

Parameter	Units	60145528001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.8	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145537

QC Batch: WET/41493

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60145537001

METHOD BLANK: 1194556

Matrix: Water

Associated Lab Samples: 60145537001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	05/30/13 08:47	

LABORATORY CONTROL SAMPLE: 1194557

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	225	113	85-115	

SAMPLE DUPLICATE: 1194558

Parameter	Units	60145458002 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	3.4	3.2	5	17	

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QUALIFIERS

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145537

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145537

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145537001	153-MSD-BOD	SM 2540D	WET/41522		
60145537001	153-MSD-BOD	SM 4500-H+B	WET/41545		
60145537001	153-MSD-BOD	SM 5210B	WET/41493	SM 5210B	WET/41569

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60145537
Barcode: 60145537

Client Name: Barr Eng

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

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 [] Foam [] None [] Other [x] 22PIC

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

Cooler Temperature: 1.0

Optional
Proj Due Date:
Proj Name:

Temperature should be above freezing to 6°C

Date and initials of person examining contents: JVS-25-13

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: [] Yes [] No [x] N/A. Row 17: All containers needing preservation are found to be in compliance with EPA recommendation: [] Yes [] No [x] N/A. Row 18: Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics: [] Yes [] No. Row 19: Trip Blank present: [] Yes [] No [x] N/A. Row 20: Pace Trip Blank lot # (if purchased):. Row 21: Headspace in VOA vials (>6mm): [] Yes [] No [x] N/A. Row 22: Project sampled in USDA Regulated Area: [] Yes [] No [x] N/A.

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date:



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information: Company: BARR ENGINEERING Address: Email To: Phone: Fax: Requested Due Date/TAT: 5 BUSINESS DAY		Section B Required Project Information: Report To: ED GALBRAITH Copy To: SCOTT C. FEDAK Purchase Order No.: Project Name: BRIDGETON LANDFILL Project Number:		Section C Invoice Information: Attention: Company Name: REPUBLIC SERVICES Address: Pace Quote Reference: 130426_7588 Pace Project Manager: Angie Brown 913-563-1402 Pace Profile #: 6787 line 2		REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____ Site Location: MO STATE: _____	
--	--	--	--	---	--	---	--

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB U=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)									Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.				
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	Preservatives							Analysis Test ↓			Y/N	N		
					DATE	TIME	DATE	TIME				H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other							
1	153-MSD BOD		OT	G			5/24/13	1259	1															10145537	10145537
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS SITE CONTACT: BILL ABERNATHY 314-502-1299 SITE ADDRESS: BRIDGETON LF 13570 ST. CHARLES ROCK RD BRIDGETON MO 63044		RELINQUISHED BY / AFFILIATION <i>Milkys Albert</i>		DATE TIME 5/24/13 1555		ACCEPTED BY / AFFILIATION <i>William Abernathy</i>		DATE TIME 5/24/13 0315		SAMPLE CONDITIONS 1.0 <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: WILLIAM ABERNATHY SIGNATURE of SAMPLER: <i>Milkys Albert</i>					DATE Signed (MM/DD/YY): 5/24/13		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)		

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

June 04, 2013

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

RE: Project: BRIDGETON LF 153-MSD
Pace Project No.: 60145543

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 25, 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 153-MSD

Pace Project No.: 60145543

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A2LA Certification #: 2456.01

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Utah Certification #: KS000212013-3

Illinois Certification #: 003097

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145543001	153-MSD	Water	05/24/13 12:59	05/25/13 03:15
60145543002	TRIP BLANK	Water	05/24/13 00:00	05/25/13 03:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145543001	153-MSD	EPA 200.7	JGP	15
		EPA 200.7	JGP	15
		EPA 245.1	TJT	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	JKL	38
		EPA 1664A	JMC1	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
60145543002	TRIP BLANK	EPA 624 Low	JKL	38

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

Sample: 153-MSD		Lab ID: 60145543001	Collected: 05/24/13 12:59	Received: 05/25/13 03:15	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	18700	ug/L	150	2	05/28/13 10:13	05/29/13 17:48	7429-90-5	
Antimony	ND	ug/L	20.0	2	05/28/13 10:13	05/29/13 17:48	7440-36-0	D3
Arsenic	739	ug/L	20.0	2	05/28/13 10:13	05/29/13 17:48	7440-38-2	
Beryllium	ND	ug/L	2.0	2	05/28/13 10:13	05/29/13 17:48	7440-41-7	D3
Cadmium	ND	ug/L	10.0	2	05/28/13 10:13	05/29/13 17:48	7440-43-9	D3
Chromium	276	ug/L	15.0	3	05/28/13 10:13	05/29/13 18:07	7440-47-3	
Cobalt	58.8	ug/L	10.0	2	05/28/13 10:13	05/29/13 17:48	7440-48-4	
Copper	73.4	ug/L	20.0	2	05/28/13 10:13	05/29/13 17:48	7440-50-8	
Iron	912000	ug/L	100	2	05/28/13 10:13	05/29/13 17:48	7439-89-6	
Lead	201	ug/L	10.0	2	05/28/13 10:13	05/29/13 17:48	7439-92-1	
Nickel	168	ug/L	10.0	2	05/28/13 10:13	05/29/13 17:48	7440-02-0	
Selenium	ND	ug/L	45.0	3	05/28/13 10:13	05/29/13 18:07	7782-49-2	D3
Silver	ND	ug/L	14.0	2	05/28/13 10:13	05/29/13 17:48	7440-22-4	D3
Thallium	ND	ug/L	60.0	3	05/28/13 10:13	05/29/13 18:07	7440-28-0	D3
Zinc	15100	ug/L	100	2	05/28/13 10:13	05/29/13 17:48	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	4430	ug/L	150	2	05/30/13 17:40	05/31/13 11:15	7429-90-5	
Antimony, Dissolved	38.5	ug/L	20.0	2	05/30/13 17:40	05/31/13 11:15	7440-36-0	D9
Arsenic, Dissolved	758	ug/L	20.0	2	05/30/13 17:40	05/31/13 11:15	7440-38-2	D9
Beryllium, Dissolved	ND	ug/L	2.0	2	05/30/13 17:40	05/31/13 11:15	7440-41-7	D3
Cadmium, Dissolved	ND	ug/L	10.0	2	05/30/13 17:40	05/31/13 11:15	7440-43-9	D3
Chromium, Dissolved	208	ug/L	15.0	3	05/30/13 17:40	05/31/13 11:38	7440-47-3	
Cobalt, Dissolved	47.4	ug/L	10.0	2	05/30/13 17:40	05/31/13 11:15	7440-48-4	
Copper, Dissolved	ND	ug/L	20.0	2	05/30/13 17:40	05/31/13 11:15	7440-50-8	D3
Iron, Dissolved	679000	ug/L	100	2	05/30/13 17:40	05/31/13 11:15	7439-89-6	
Lead, Dissolved	90.8	ug/L	10.0	2	05/30/13 17:40	05/31/13 11:15	7439-92-1	
Nickel, Dissolved	137	ug/L	10.0	2	05/30/13 17:40	05/31/13 11:15	7440-02-0	
Selenium, Dissolved	ND	ug/L	45.0	3	05/30/13 17:40	05/31/13 11:38	7782-49-2	D3
Silver, Dissolved	ND	ug/L	14.0	2	05/30/13 17:40	05/31/13 11:15	7440-22-4	D3
Thallium, Dissolved	ND	ug/L	60.0	3	05/30/13 17:40	05/31/13 11:38	7440-28-0	D3
Zinc, Dissolved	14200	ug/L	100	2	05/30/13 17:40	05/31/13 11:15	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	41.6	ug/L	1.0	5	05/29/13 16:45	05/30/13 12:56	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	05/29/13 16:45	05/30/13 10:39	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	83-32-9	
Acenaphthylene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	208-96-8	
Anthracene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	120-12-7	
Benzidine	ND	ug/L	25000	50	05/29/13 00:00	05/30/13 10:38	92-87-5	
Benzo(a)anthracene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	56-55-3	
Benzo(a)pyrene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

Sample: 153-MSD	Lab ID: 60145543001	Collected: 05/24/13 12:59	Received: 05/25/13 03:15	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	2500	50	05/29/13 00:00	05/30/13 10:38	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	207-08-9	
4-Bromophenylphenyl ether	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	101-55-3	
Butylbenzylphthalate	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	59-50-7	
bis(2-Chloroethoxy)methane	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	3000	50	05/29/13 00:00	05/30/13 10:38	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	3000	50	05/29/13 00:00	05/30/13 10:38	39638-32-9	
2-Chloronaphthalene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	91-58-7	
2-Chlorophenol	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	7005-72-3	
Chrysene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	53-70-3	
3,3'-Dichlorobenzidine	ND	ug/L	10000	50	05/29/13 00:00	05/30/13 10:38	91-94-1	
2,4-Dichlorophenol	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	120-83-2	
Diethylphthalate	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	84-66-2	
2,4-Dimethylphenol	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	105-67-9	
Dimethylphthalate	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	131-11-3	
Di-n-butylphthalate	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	12500	50	05/29/13 00:00	05/30/13 10:38	534-52-1	
2,4-Dinitrophenol	ND	ug/L	25000	50	05/29/13 00:00	05/30/13 10:38	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	3000	50	05/29/13 00:00	05/30/13 10:38	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	606-20-2	
Di-n-octylphthalate	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	117-81-7	
Fluoranthene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	206-44-0	
Fluorene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	87-68-3	
Hexachlorobenzene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	77-47-4	
Hexachloroethane	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	193-39-5	
Isophorone	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	78-59-1	
Naphthalene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	91-20-3	
Nitrobenzene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	98-95-3	
2-Nitrophenol	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	88-75-5	
4-Nitrophenol	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	86-30-6	
Pentachlorophenol	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	87-86-5	
Phenanthrene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	85-01-8	
Phenol	16100	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	108-95-2	
Pyrene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	120-82-1	
2,4,6-Trichlorophenol	ND	ug/L	2500	50	05/29/13 00:00	05/30/13 10:38	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

Sample: 153-MSD	Lab ID: 60145543001	Collected: 05/24/13 12:59	Received: 05/25/13 03:15	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	50	05/29/13 00:00	05/30/13 10:38	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	50	05/29/13 00:00	05/30/13 10:38	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	50	05/29/13 00:00	05/30/13 10:38	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	50	05/29/13 00:00	05/30/13 10:38	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	50	05/29/13 00:00	05/30/13 10:38	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	50	05/29/13 00:00	05/30/13 10:38	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		05/30/13 14:16	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/30/13 14:16	75-27-4	
Bromoform	ND ug/L		200	200		05/30/13 14:16	75-25-2	
Bromomethane	ND ug/L		1000	200		05/30/13 14:16	74-83-9	L3
Carbon tetrachloride	ND ug/L		200	200		05/30/13 14:16	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/30/13 14:16	108-90-7	
Chloroethane	ND ug/L		200	200		05/30/13 14:16	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/30/13 14:16	110-75-8	
Chloroform	ND ug/L		200	200		05/30/13 14:16	67-66-3	
Chloromethane	ND ug/L		200	200		05/30/13 14:16	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/30/13 14:16	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/30/13 14:16	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/30/13 14:16	541-73-1	
1,4-Dichlorobenzene	228 ug/L		200	200		05/30/13 14:16	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/30/13 14:16	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/30/13 14:16	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/30/13 14:16	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/30/13 14:16	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/30/13 14:16	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/30/13 14:16	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/30/13 14:16	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/30/13 14:16	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/30/13 14:16	100-41-4	
Methylene chloride	ND ug/L		200	200		05/30/13 14:16	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/30/13 14:16	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/30/13 14:16	127-18-4	
Toluene	ND ug/L		200	200		05/30/13 14:16	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/30/13 14:16	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/30/13 14:16	79-00-5	
Trichloroethene	ND ug/L		200	200		05/30/13 14:16	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/30/13 14:16	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/30/13 14:16	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/30/13 14:16	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	102 %		80-120	200		05/30/13 14:16	1868-53-7	D3
4-Bromofluorobenzene (S)	106 %		80-120	200		05/30/13 14:16	460-00-4	
Toluene-d8 (S)	102 %		80-120	200		05/30/13 14:16	2037-26-5	
1,2-Dichloroethane-d4 (S)	93 %		80-120	200		05/30/13 14:16	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

Sample: 153-MSD		Lab ID: 60145543001	Collected: 05/24/13 12:59	Received: 05/25/13 03:15	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		05/30/13 14:16		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	437	mg/L	5.0	1		05/30/13 08:01		
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	528	mg/L	20.0	200		05/30/13 15:31	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	43600	mg/L	5000	500		06/04/13 07:55		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

Sample: TRIP BLANK	Lab ID: 60145543002	Collected: 05/24/13 00:00	Received: 05/25/13 03:15	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		05/30/13 12:09	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		05/30/13 12:09	75-27-4	
Bromoform	ND ug/L		1.0	1		05/30/13 12:09	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/30/13 12:09	74-83-9	L3
Carbon tetrachloride	ND ug/L		1.0	1		05/30/13 12:09	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/30/13 12:09	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/30/13 12:09	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		05/30/13 12:09	110-75-8	
Chloroform	ND ug/L		1.0	1		05/30/13 12:09	67-66-3	
Chloromethane	ND ug/L		1.0	1		05/30/13 12:09	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		05/30/13 12:09	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/30/13 12:09	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/30/13 12:09	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/30/13 12:09	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		05/30/13 12:09	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/30/13 12:09	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/30/13 12:09	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/30/13 12:09	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/30/13 12:09	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		05/30/13 12:09	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		05/30/13 12:09	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		05/30/13 12:09	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		05/30/13 12:09	100-41-4	
Methylene chloride	ND ug/L		1.0	1		05/30/13 12:09	75-09-2	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		05/30/13 12:09	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/30/13 12:09	127-18-4	
Toluene	ND ug/L		1.0	1		05/30/13 12:09	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/30/13 12:09	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/30/13 12:09	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/30/13 12:09	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/30/13 12:09	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		05/30/13 12:09	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/30/13 12:09	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99 %		80-120	1		05/30/13 12:09	1868-53-7	
4-Bromofluorobenzene (S)	101 %		80-120	1		05/30/13 12:09	460-00-4	
Toluene-d8 (S)	101 %		80-120	1		05/30/13 12:09	2037-26-5	
1,2-Dichloroethane-d4 (S)	90 %		80-120	1		05/30/13 12:09	17060-07-0	
Preservation pH	7.0			1		05/30/13 12:09		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD
Pace Project No.: 60145543

QC Batch: MERP/7385 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60145543001

METHOD BLANK: 1195759 Matrix: Water
Associated Lab Samples: 60145543001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	05/30/13 10:53	

LABORATORY CONTROL SAMPLE: 1195760

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1195761 1195762

Parameter	Units	60145102001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD
Mercury	ug/L	ND	5	5	5.2	5.1	104	102	70-130	2	20

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

QC Batch: MERP/7386

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60145543001

METHOD BLANK: 1195833

Matrix: Water

Associated Lab Samples: 60145543001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/30/13 10:22	

LABORATORY CONTROL SAMPLE: 1195834

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1195835

1195836

Parameter	Units	60145231001		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual	
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD		RPD
Mercury, Dissolved	ug/L					4.5	4.6				1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

QC Batch: MPRP/22810 Analysis Method: EPA 200.7
 QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
 Associated Lab Samples: 60145543001

METHOD BLANK: 1195056 Matrix: Water

Associated Lab Samples: 60145543001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	05/29/13 17:30	
Antimony	ug/L	ND	10.0	05/29/13 17:30	
Arsenic	ug/L	ND	10.0	05/29/13 17:30	
Beryllium	ug/L	ND	1.0	05/29/13 17:30	
Cadmium	ug/L	ND	5.0	05/29/13 17:30	
Chromium	ug/L	ND	5.0	05/29/13 17:30	
Cobalt	ug/L	ND	5.0	05/29/13 17:30	
Copper	ug/L	ND	10.0	05/29/13 17:30	
Iron	ug/L	ND	50.0	05/29/13 17:30	
Lead	ug/L	ND	5.0	05/29/13 17:30	
Nickel	ug/L	ND	5.0	05/29/13 17:30	
Selenium	ug/L	ND	15.0	05/29/13 17:30	
Silver	ug/L	ND	7.0	05/29/13 17:30	
Thallium	ug/L	ND	20.0	05/29/13 17:30	
Zinc	ug/L	ND	50.0	05/29/13 17:30	

LABORATORY CONTROL SAMPLE: 1195057

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	9750	97	85-115	
Antimony	ug/L	1000	981	98	85-115	
Arsenic	ug/L	1000	951	95	85-115	
Beryllium	ug/L	1000	961	96	85-115	
Cadmium	ug/L	1000	968	97	85-115	
Chromium	ug/L	1000	1000	100	85-115	
Cobalt	ug/L	1000	983	98	85-115	
Copper	ug/L	1000	965	97	85-115	
Iron	ug/L	10000	9680	97	85-115	
Lead	ug/L	1000	1020	102	85-115	
Nickel	ug/L	1000	1020	102	85-115	
Selenium	ug/L	1000	990	99	85-115	
Silver	ug/L	500	514	103	85-115	
Thallium	ug/L	1000	992	99	85-115	
Zinc	ug/L	1000	1030	103	85-115	

SAMPLE DUPLICATE: 1195058

Parameter	Units	60145336001 Result	Dup Result	RPD	Max RPD	Qualifiers
Aluminum	ug/L	9330	8960	4	20	
Antimony	ug/L	ND	26.2		20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

SAMPLE DUPLICATE: 1195058

Parameter	Units	60145336001 Result	Dup Result	RPD	Max RPD	Qualifiers
Arsenic	ug/L	743	765	3	20	
Beryllium	ug/L	ND	ND		20	D3
Cadmium	ug/L	ND	ND		20	D3
Chromium	ug/L	260	258	1	20	
Cobalt	ug/L	36.0	34.0	6	20	
Copper	ug/L	59.7	60.5	1	20	
Iron	ug/L	885000	885000	0	20	
Lead	ug/L	156	167	7	20	
Nickel	ug/L	114	113	1	20	
Selenium	ug/L	ND	ND		20	D3
Silver	ug/L	ND	4.7J		20	D3
Thallium	ug/L	ND	ND		20	D3
Zinc	ug/L	13700	13700	0	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD
Pace Project No.: 60145543

QC Batch: MPRP/22859 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60145543001

METHOD BLANK: 1196732 Matrix: Water
Associated Lab Samples: 60145543001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	05/31/13 11:01	
Antimony, Dissolved	ug/L	ND	10.0	05/31/13 11:01	
Arsenic, Dissolved	ug/L	ND	10.0	05/31/13 11:01	
Beryllium, Dissolved	ug/L	ND	1.0	05/31/13 11:01	
Cadmium, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Chromium, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Cobalt, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Copper, Dissolved	ug/L	ND	10.0	05/31/13 11:01	
Iron, Dissolved	ug/L	ND	50.0	05/31/13 11:01	
Lead, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Nickel, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Selenium, Dissolved	ug/L	ND	15.0	05/31/13 11:01	
Silver, Dissolved	ug/L	ND	7.0	05/31/13 11:01	
Thallium, Dissolved	ug/L	ND	20.0	05/31/13 11:01	
Zinc, Dissolved	ug/L	ND	50.0	05/31/13 11:01	

LABORATORY CONTROL SAMPLE: 1196733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9490	95	85-115	
Antimony, Dissolved	ug/L	1000	984	98	85-115	
Arsenic, Dissolved	ug/L	1000	978	98	85-115	
Beryllium, Dissolved	ug/L	1000	992	99	85-115	
Cadmium, Dissolved	ug/L	1000	982	98	85-115	
Chromium, Dissolved	ug/L	1000	991	99	85-115	
Cobalt, Dissolved	ug/L	1000	1010	101	85-115	
Copper, Dissolved	ug/L	1000	961	96	85-115	
Iron, Dissolved	ug/L	10000	9640	96	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1020	102	85-115	
Selenium, Dissolved	ug/L	1000	970	97	85-115	
Silver, Dissolved	ug/L	500	484	97	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	1030	103	85-115	

MATRIX SPIKE SAMPLE: 1196734

Parameter	Units	60145428001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	4800	10000	15100	103	70-130	
Antimony, Dissolved	ug/L	30.2	1000	1070	104	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

MATRIX SPIKE SAMPLE:		1196734					
Parameter	Units	60145428001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	717	1000	2000	129	70-130	
Beryllium, Dissolved	ug/L	ND	1000	927	93	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1100	110	70-130	
Chromium, Dissolved	ug/L	226	1000	1180	95	70-130	
Cobalt, Dissolved	ug/L	25.8	1000	953	93	70-130	
Copper, Dissolved	ug/L	ND	1000	1120	110	70-130	
Iron, Dissolved	ug/L	687000	10000	713000	256	70-130	M1
Lead, Dissolved	ug/L	86.0	1000	955	87	70-130	
Nickel, Dissolved	ug/L	84.5	1000	995	91	70-130	
Selenium, Dissolved	ug/L	ND	1000	1310	131	70-130	M1
Silver, Dissolved	ug/L	ND	500	72.8	13	70-130	M1
Thallium, Dissolved	ug/L	ND	1000	764	76	70-130	
Zinc, Dissolved	ug/L	16600	1000	17400	82	70-130	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

QC Batch: MSV/54002 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60145543001, 60145543002

METHOD BLANK: 1196201 Matrix: Water

Associated Lab Samples: 60145543001, 60145543002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1-Dichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1-Dichloroethene	ug/L	ND	1.0	05/30/13 11:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
1,2-Dichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,2-Dichloropropane	ug/L	ND	1.0	05/30/13 11:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
2-Chloroethylvinyl ether	ug/L	ND	10.0	05/30/13 11:27	
Benzene	ug/L	ND	1.0	05/30/13 11:27	
Bromodichloromethane	ug/L	ND	1.0	05/30/13 11:27	
Bromoform	ug/L	ND	1.0	05/30/13 11:27	
Bromomethane	ug/L	ND	5.0	05/30/13 11:27	
Carbon tetrachloride	ug/L	ND	1.0	05/30/13 11:27	
Chlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
Chloroethane	ug/L	ND	1.0	05/30/13 11:27	
Chloroform	ug/L	ND	1.0	05/30/13 11:27	
Chloromethane	ug/L	ND	1.0	05/30/13 11:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/30/13 11:27	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/30/13 11:27	
Dibromochloromethane	ug/L	ND	1.0	05/30/13 11:27	
Ethylbenzene	ug/L	ND	1.0	05/30/13 11:27	
Methylene chloride	ug/L	ND	1.0	05/30/13 11:27	
Tetrachloroethene	ug/L	ND	1.0	05/30/13 11:27	
Toluene	ug/L	ND	1.0	05/30/13 11:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/30/13 11:27	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/30/13 11:27	
Trichloroethene	ug/L	ND	1.0	05/30/13 11:27	
Trichlorofluoromethane	ug/L	ND	1.0	05/30/13 11:27	
Vinyl chloride	ug/L	ND	1.0	05/30/13 11:27	
Xylene (Total)	ug/L	ND	3.0	05/30/13 11:27	
1,2-Dichloroethane-d4 (S)	%	90	80-120	05/30/13 11:27	
4-Bromofluorobenzene (S)	%	102	80-120	05/30/13 11:27	
Dibromofluoromethane (S)	%	101	80-120	05/30/13 11:27	
Toluene-d8 (S)	%	102	80-120	05/30/13 11:27	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

LABORATORY CONTROL SAMPLE: 1196202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.0	105	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	98	59-138	
1,1,2-Trichloroethane	ug/L	20	19.4	97	69-127	
1,1-Dichloroethane	ug/L	20	19.2	96	69-126	
1,1-Dichloroethene	ug/L	20	21.2	106	65-153	
1,2-Dichlorobenzene	ug/L	20	19.6	98	66-126	
1,2-Dichloroethane	ug/L	20	19.1	95	71-129	
1,2-Dichloropropane	ug/L	20	21.7	108	66-140	
1,3-Dichlorobenzene	ug/L	20	19.7	99	63-127	
1,4-Dichlorobenzene	ug/L	20	19.2	96	68-124	
2-Chloroethylvinyl ether	ug/L	20	28.4	142	33-159	
Benzene	ug/L	20	21.6	108	73-129	
Bromodichloromethane	ug/L	20	20.0	100	63-129	
Bromoform	ug/L	20	19.0	95	52-123	
Bromomethane	ug/L	20	32.3	162	10-160	L0
Carbon tetrachloride	ug/L	20	20.9	105	70-140	
Chlorobenzene	ug/L	20	20.4	102	68-127	
Chloroethane	ug/L	20	21.9	109	42-160	
Chloroform	ug/L	20	20.0	100	60-120	
Chloromethane	ug/L	20	22.8	114	10-160	
cis-1,2-Dichloroethene	ug/L	20	20.8	104	70-125	
cis-1,3-Dichloropropene	ug/L	20	21.2	106	66-132	
Dibromochloromethane	ug/L	20	19.3	96	63-134	
Ethylbenzene	ug/L	20	20.6	103	66-133	
Methylene chloride	ug/L	20	19.9	99	56-135	
Tetrachloroethene	ug/L	20	21.4	107	64-143	
Toluene	ug/L	20	21.4	107	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	67-149	
trans-1,3-Dichloropropene	ug/L	20	22.6	113	66-138	
Trichloroethene	ug/L	20	20.1	101	71-130	
Trichlorofluoromethane	ug/L	20	17.4	87	58-158	
Vinyl chloride	ug/L	20	20.7	103	41-160	
Xylene (Total)	ug/L	60	61.8	103	67-130	
1,2-Dichloroethane-d4 (S)	%			90	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Dibromofluoromethane (S)	%			93	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1196203

Parameter	Units	60145428001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4330	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4250	106	46-157	
1,1,2-Trichloroethane	ug/L	ND	4000	4060	101	52-150	
1,1-Dichloroethane	ug/L	ND	4000	3960	99	59-155	
1,1-Dichloroethene	ug/L	ND	4000	4310	108	14-160	
1,2-Dichlorobenzene	ug/L	ND	4000	4080	102	18-145	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

MATRIX SPIKE SAMPLE:		1196203					
Parameter	Units	60145428001 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	4420	111	12-160	
1,3-Dichlorobenzene	ug/L	ND	4000	4130	103	59-146	
1,4-Dichlorobenzene	ug/L	ND	4000	4230	104	18-147	
2-Chloroethylvinyl ether	ug/L	ND	4000	7760	194	10-160	M1
Benzene	ug/L	ND	4000	4370	109	37-151	
Bromodichloromethane	ug/L	ND	4000	4010	100	35-155	
Bromoform	ug/L	ND	4000	3830	96	45-133	
Bromomethane	ug/L	ND	4000	4760	119	10-160	
Carbon tetrachloride	ug/L	ND	4000	4220	106	70-140	
Chlorobenzene	ug/L	ND	4000	4190	105	37-153	
Chloroethane	ug/L	ND	4000	3710	93	14-160	
Chloroform	ug/L	ND	4000	4090	101	51-138	
Chloromethane	ug/L	ND	4000	4250	106	10-160	
cis-1,2-Dichloroethene	ug/L	ND	4000	4270	107	19-160	
cis-1,3-Dichloropropene	ug/L	ND	4000	4220	106	10-160	
Dibromochloromethane	ug/L	ND	4000	3990	100	53-149	
Ethylbenzene	ug/L	ND	4000	4290	107	37-154	
Methylene chloride	ug/L	ND	4000	4010	100	15-156	
Tetrachloroethene	ug/L	ND	4000	4310	108	64-148	
Toluene	ug/L	ND	4000	4390	110	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4060	102	54-156	
trans-1,3-Dichloropropene	ug/L	ND	4000	4580	114	17-160	
Trichloroethene	ug/L	ND	4000	4070	102	71-157	
Trichlorofluoromethane	ug/L	ND	4000	3610	90	17-160	
Vinyl chloride	ug/L	ND	4000	3790	95	10-160	
Xylene (Total)	ug/L	ND	12000	12700	106	12-153	
1,2-Dichloroethane-d4 (S)	%				92	80-120	
4-Bromofluorobenzene (S)	%				102	80-120	
Dibromofluoromethane (S)	%				93	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 153-MSD

Pace Project No.: 60145543

QC Batch: OEXT/38596

Analysis Method: EPA 625

QC Batch Method: EPA 625

Analysis Description: 625 MSS

Associated Lab Samples: 60145543001

METHOD BLANK: 1195309

Matrix: Water

Associated Lab Samples: 60145543001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	05/30/13 08:31	
2,4,6-Trichlorophenol	ug/L	ND	5.0	05/30/13 08:31	
2,4-Dichlorophenol	ug/L	ND	5.0	05/30/13 08:31	
2,4-Dimethylphenol	ug/L	ND	5.0	05/30/13 08:31	
2,4-Dinitrophenol	ug/L	ND	50.0	05/30/13 08:31	
2,4-Dinitrotoluene	ug/L	ND	6.0	05/30/13 08:31	
2,6-Dinitrotoluene	ug/L	ND	5.0	05/30/13 08:31	
2-Chloronaphthalene	ug/L	ND	5.0	05/30/13 08:31	
2-Chlorophenol	ug/L	ND	5.0	05/30/13 08:31	
2-Nitrophenol	ug/L	ND	5.0	05/30/13 08:31	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	05/30/13 08:31	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	05/30/13 08:31	
4-Bromophenylphenyl ether	ug/L	ND	5.0	05/30/13 08:31	
4-Chloro-3-methylphenol	ug/L	ND	5.0	05/30/13 08:31	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	05/30/13 08:31	
4-Nitrophenol	ug/L	ND	5.0	05/30/13 08:31	
Acenaphthene	ug/L	ND	5.0	05/30/13 08:31	
Acenaphthylene	ug/L	ND	5.0	05/30/13 08:31	
Anthracene	ug/L	ND	5.0	05/30/13 08:31	
Benzidine	ug/L	ND	50.0	05/30/13 08:31	
Benzo(a)anthracene	ug/L	ND	5.0	05/30/13 08:31	
Benzo(a)pyrene	ug/L	ND	5.0	05/30/13 08:31	
Benzo(b)fluoranthene	ug/L	ND	5.0	05/30/13 08:31	
Benzo(g,h,i)perylene	ug/L	ND	5.0	05/30/13 08:31	
Benzo(k)fluoranthene	ug/L	ND	5.0	05/30/13 08:31	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	05/30/13 08:31	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	05/30/13 08:31	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	05/30/13 08:31	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	05/30/13 08:31	
Butylbenzylphthalate	ug/L	ND	5.0	05/30/13 08:31	
Chrysene	ug/L	ND	5.0	05/30/13 08:31	
Di-n-butylphthalate	ug/L	ND	5.0	05/30/13 08:31	
Di-n-octylphthalate	ug/L	ND	5.0	05/30/13 08:31	
Dibenz(a,h)anthracene	ug/L	ND	5.0	05/30/13 08:31	
Diethylphthalate	ug/L	ND	5.0	05/30/13 08:31	
Dimethylphthalate	ug/L	ND	5.0	05/30/13 08:31	
Fluoranthene	ug/L	ND	5.0	05/30/13 08:31	
Fluorene	ug/L	ND	5.0	05/30/13 08:31	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	05/30/13 08:31	
Hexachlorobenzene	ug/L	ND	5.0	05/30/13 08:31	
Hexachlorocyclopentadiene	ug/L	ND	5.0	05/30/13 08:31	
Hexachloroethane	ug/L	ND	5.0	05/30/13 08:31	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	05/30/13 08:31	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD

Project No.: 60145543

METHOD BLANK: 1195309

Matrix: Water

Associated Lab Samples: 60145543001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	05/30/13 08:31	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	05/30/13 08:31	
N-Nitrosodimethylamine	ug/L	ND	5.0	05/30/13 08:31	
N-Nitrosodiphenylamine	ug/L	ND	5.0	05/30/13 08:31	
Naphthalene	ug/L	ND	5.0	05/30/13 08:31	
Nitrobenzene	ug/L	ND	5.0	05/30/13 08:31	
Pentachlorophenol	ug/L	ND	5.0	05/30/13 08:31	
Phenanthrene	ug/L	ND	5.0	05/30/13 08:31	
Phenol	ug/L	ND	5.0	05/30/13 08:31	
Pyrene	ug/L	ND	5.0	05/30/13 08:31	
2,4,6-Tribromophenol (S)	%	73	39-119	05/30/13 08:31	
2-Fluorobiphenyl (S)	%	67	36-120	05/30/13 08:31	
2-Fluorophenol (S)	%	37	18-120	05/30/13 08:31	
Nitrobenzene-d5 (S)	%	68	32-120	05/30/13 08:31	
Phenol-d6 (S)	%	25	12-120	05/30/13 08:31	
Terphenyl-d14 (S)	%	73	44-120	05/30/13 08:31	

LABORATORY CONTROL SAMPLE: 1195310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	40.2	80	44-120	
2,4,6-Trichlorophenol	ug/L	50	42.6	85	48-120	
2,4-Dichlorophenol	ug/L	50	41.1	82	48-120	
2,4-Dimethylphenol	ug/L	50	37.4	75	37-119	
2,4-Dinitrophenol	ug/L	50	38.9J	78	15-153	
2,4-Dinitrotoluene	ug/L	50	45.3	91	54-120	
2,6-Dinitrotoluene	ug/L	50	43.4	87	52-120	
2-Chloronaphthalene	ug/L	50	40.4	81	60-118	
2-Chlorophenol	ug/L	50	35.8	72	44-120	
2-Nitrophenol	ug/L	50	41.9	84	43-120	
3,3'-Dichlorobenzidine	ug/L	50	40.2	80	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	46.0	92	31-147	
4-Bromophenylphenyl ether	ug/L	50	44.6	89	53-120	
4-Chloro-3-methylphenol	ug/L	50	43.3	87	50-120	
4-Chlorophenylphenyl ether	ug/L	50	42.6	85	54-120	
4-Nitrophenol	ug/L	50	17.6	35	10-120	
Acenaphthene	ug/L	50	41.3	83	51-120	
Acenaphthylene	ug/L	50	40.0	80	51-120	
Anthracene	ug/L	50	43.0	86	54-120	
Benzidine	ug/L	50	12.8J	26	1-124	
Benzo(a)anthracene	ug/L	50	44.6	89	54-120	
Benzo(a)pyrene	ug/L	50	42.5	85	54-120	
Benzo(b)fluoranthene	ug/L	50	46.4	93	57-120	
Benzo(g,h,i)perylene	ug/L	50	42.9	86	54-120	
Benzo(k)fluoranthene	ug/L	50	43.6	87	52-121	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

LABORATORY CONTROL SAMPLE: 1195310

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	50	40.5	81	51-120	
bis(2-Chloroethyl) ether	ug/L	50	38.7	77	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	36.5	73	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	46.5	93	51-126	
Butylbenzylphthalate	ug/L	50	46.3	93	45-129	
Chrysene	ug/L	50	43.5	87	54-120	
Di-n-butylphthalate	ug/L	50	45.3	91	57-118	
Di-n-octylphthalate	ug/L	50	47.5	95	48-130	
Dibenz(a,h)anthracene	ug/L	50	44.1	88	56-119	
Diethylphthalate	ug/L	50	43.9	88	55-114	
Dimethylphthalate	ug/L	50	43.5	87	54-112	
Fluoranthene	ug/L	50	44.4	89	56-120	
Fluorene	ug/L	50	42.3	85	59-120	
Hexachloro-1,3-butadiene	ug/L	50	40.6	81	41-116	
Hexachlorobenzene	ug/L	50	44.2	88	53-120	
Hexachlorocyclopentadiene	ug/L	100	51.2	51	31-120	
Hexachloroethane	ug/L	50	37.5	75	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	43.0	86	55-120	
Isophorone	ug/L	50	41.7	83	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	40.6	81	47-120	
N-Nitrosodimethylamine	ug/L	50	24.3	49	28-120	
N-Nitrosodiphenylamine	ug/L	50	41.6	83	53-120	
Naphthalene	ug/L	50	39.8	80	48-120	
Nitrobenzene	ug/L	50	41.3	83	47-120	
Pentachlorophenol	ug/L	50	45.6	91	43-127	
Phenanthrene	ug/L	50	43.2	86	55-120	
Phenol	ug/L	50	15.0	30	15-112	
Pyrene	ug/L	50	45.0	90	55-115	
2,4,6-Tribromophenol (S)	%			94	39-119	
2-Fluorobiphenyl (S)	%			82	36-120	
2-Fluorophenol (S)	%			42	18-120	
Nitrobenzene-d5 (S)	%			81	32-120	
Phenol-d6 (S)	%			28	12-120	
Terphenyl-d14 (S)	%			92	44-120	

MATRIX SPIKE SAMPLE: 1195311

Parameter	Units	60145340001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	34.2	68	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	37.9	76	37-121	
2,4-Dichlorophenol	ug/L	ND	50	36.1	72	39-120	
2,4-Dimethylphenol	ug/L	ND	50	21.6	43	32-119	
2,4-Dinitrophenol	ug/L	ND	50	34.8J	70	20-157	
2,4-Dinitrotoluene	ug/L	ND	50	38.0	76	39-130	
2,6-Dinitrotoluene	ug/L	ND	50	37.0	74	50-128	
2-Chloronaphthalene	ug/L	ND	50	34.6	69	60-118	
2-Chlorophenol	ug/L	ND	50	31.3	63	35-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

MATRIX SPIKE SAMPLE:		1195311						
Parameter	Units	60145340001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
2-Nitrophenol	ug/L	ND	50	37.3	75	29-123		
3,3'-Dichlorobenzidine	ug/L	ND	50	ND	0	10-160	M1	
4,6-Dinitro-2-methylphenol	ug/L	ND	50	40.0	80	27-146		
4-Bromophenylphenyl ether	ug/L	ND	50	38.8	78	53-124		
4-Chloro-3-methylphenol	ug/L	ND	50	37.8	76	33-123		
4-Chlorophenylphenyl ether	ug/L	ND	50	36.9	74	34-125		
4-Nitrophenol	ug/L	ND	50	14.4	29	10-120		
Acenaphthene	ug/L	ND	50	35.5	71	47-120		
Acenaphthylene	ug/L	ND	50	35.2	70	33-120		
Anthracene	ug/L	ND	50	36.0	72	36-121		
Benzidine	ug/L	ND	50	ND	0	1-120	M1	
Benzo(a)anthracene	ug/L	ND	50	37.3	75	37-127		
Benzo(a)pyrene	ug/L	ND	50	34.8	70	34-125		
Benzo(b)fluoranthene	ug/L	ND	50	39.7	79	37-131		
Benzo(g,h,i)perylene	ug/L	ND	50	37.2	74	35-128		
Benzo(k)fluoranthene	ug/L	ND	50	36.3	73	34-130		
bis(2-Chloroethoxy)methane	ug/L	ND	50	36.3	73	33-120		
bis(2-Chloroethyl) ether	ug/L	ND	50	36.5	73	32-120		
bis(2-Chloroisopropyl) ether	ug/L	ND	50	32.8	66	36-120		
bis(2-Ethylhexyl)phthalate	ug/L	ND	50	41.4	83	38-137		
Butylbenzylphthalate	ug/L	ND	50	40.2	80	43-136		
Chrysene	ug/L	ND	50	37.5	75	36-127		
Di-n-butylphthalate	ug/L	ND	50	39.9	80	38-118		
Di-n-octylphthalate	ug/L	ND	50	40.5	81	40-140		
Dibenz(a,h)anthracene	ug/L	ND	50	37.8	76	35-131		
Diethylphthalate	ug/L	ND	50	36.4	73	33-114		
Dimethylphthalate	ug/L	ND	50	36.9	74	34-112		
Fluoranthene	ug/L	ND	50	38.1	76	38-125		
Fluorene	ug/L	ND	50	36.3	73	59-121		
Hexachloro-1,3-butadiene	ug/L	ND	50	35.5	71	27-116		
Hexachlorobenzene	ug/L	ND	50	38.5	77	34-124		
Hexachlorocyclopentadiene	ug/L	ND	100	48.7	49	11-120		
Hexachloroethane	ug/L	ND	50	32.0	64	40-113		
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	37.3	75	38-127		
Isophorone	ug/L	ND	50	37.3	75	31-120		
N-Nitroso-di-n-propylamine	ug/L	ND	50	37.5	75	30-120		
N-Nitrosodimethylamine	ug/L	ND	50	21.4	43	29-120		
N-Nitrosodiphenylamine	ug/L	ND	50	35.1	70	10-139		
Naphthalene	ug/L	ND	50	34.5	69	32-120		
Nitrobenzene	ug/L	ND	50	39.9	80	35-128		
Pentachlorophenol	ug/L	ND	50	39.9	80	38-133		
Phenanthrene	ug/L	ND	50	37.5	75	54-120		
Phenol	ug/L	ND	50	12.6	25	13-112		
Pyrene	ug/L	ND	50	39.0	78	52-115		
2,4,6-Tribromophenol (S)	%				79	39-119		
2-Fluorobiphenyl (S)	%				72	36-120		
2-Fluorophenol (S)	%				35	18-120		
Nitrobenzene-d5 (S)	%				71	32-120		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

MATRIX SPIKE SAMPLE:		1195311					
Parameter	Units	60145340001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenol-d6 (S)	%					24	12-120
Terphenyl-d14 (S)	%					79	44-120

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

QC Batch:	WET/41561	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60145543001		

METHOD BLANK: 1196077 Matrix: Water

Associated Lab Samples: 60145543001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	05/30/13 08:00	

LABORATORY CONTROL SAMPLE: 1196078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	35.3	88	78-114	

MATRIX SPIKE SAMPLE: 1196081

Parameter	Units	60145274002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	40.8	41.4	98	78-114	

SAMPLE DUPLICATE: 1196080

Parameter	Units	60145543001 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	437	420	4	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

QC Batch: WETA/24907 Analysis Method: EPA 350.1
 QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
 Associated Lab Samples: 60145543001

METHOD BLANK: 1196062 Matrix: Water

Associated Lab Samples: 60145543001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/30/13 15:01	

LABORATORY CONTROL SAMPLE: 1196063

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

MATRIX SPIKE SAMPLE: 1196064

Parameter	Units	60145388001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	93	90-110	

MATRIX SPIKE SAMPLE: 1196065

Parameter	Units	60145389005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	87	90-110	M1

SAMPLE DUPLICATE: 1196066

Parameter	Units	60145391001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	.067J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

QC Batch: WETA/24954 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 60145543001

METHOD BLANK: 1198290 Matrix: Water

Associated Lab Samples: 60145543001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/04/13 07:53	

LABORATORY CONTROL SAMPLE: 1198291

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.4	107	90-110	

MATRIX SPIKE SAMPLE: 1198292

Parameter	Units	60145053001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	35.7	50	86.0	101	90-110	

MATRIX SPIKE SAMPLE: 1198294

Parameter	Units	60145053003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	55.6	101	90-110	

SAMPLE DUPLICATE: 1198293

Parameter	Units	60145053002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	ND	12.1		25	

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QUALIFIERS

Project: BRIDGETON LF 153-MSD

Pace Project No.: 60145543

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.

D9 Dissolved result is greater than the total. Data is within laboratory control limits.

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 153-MSD

Pace Project No.: 60145543

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145543001	153-MSD	EPA 200.7	MPRP/22810	EPA 200.7	ICP/18058
60145543001	153-MSD	EPA 200.7	MPRP/22859	EPA 200.7	ICP/18086
60145543001	153-MSD	EPA 245.1	MERP/7385	EPA 245.1	MERC/7342
60145543001	153-MSD	EPA 245.1	MERP/7386	EPA 245.1	MERC/7341
60145543001	153-MSD	EPA 625	OEXT/38596	EPA 625	MSSV/12201
60145543001	153-MSD	EPA 624 Low	MSV/54002		
60145543002	TRIP BLANK	EPA 624 Low	MSV/54002		
60145543001	153-MSD	EPA 1664A	WET/41561		
60145543001	153-MSD	EPA 350.1	WETA/24907		
60145543001	153-MSD	EPA 410.4	WETA/24954		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60145543



60145543

Client Name: Bar 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 *2 PIC*

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

Cooler Temperature: 1.0

Date and initials of person examining contents: PVS-25-13

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>wt</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p><i>Added 2.5 Hno3 to BP3N</i> <i>pH 6.0/4.0</i> <i>Added 3.0 H2so4 to 8785</i> <i>pH 6.0/1.0</i></p>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Exceptions: VOA, coliform, TOC, <u>O&G</u> , WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Lot # of added preservative <u>12510</u>
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: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: BARR ENGINEERING		Report To: ED GALBRAITH		Attention:	
Address:		Copy To: SCOTT C. FEDAK		Company Name: REPUBLIC SERVICES	
Email To:		Purchase Order No.:		Address:	
Phone:		Project Name: BRIDGETON LANDFILL		Pace Quote Reference: 130426_7588	
Requested Due Date/TAT: 5 BUSINESS DAY		Project Number:		Pace Project Manager: Angie Brown 913-563-1402	
Fax:		Pace Profile #: 6787 line 2		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	
				STATE: <u>MO</u>	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMIP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	COD 410	LF Dis. Metals 200.7/245 z	total Metals 200.7/245*	Ammonia EPA 350	Oil/Grease EPA 1664	625 SVOCs	624 VOCs	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.								
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																		
					DATE	TIME	DATE	TIME																												
1	1B23U 1B23S 1953-MSD 1B23W 4-0			GTG			5/24/13	1259	13	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	*Metals list: 161
2	TRIP BLANK								2	✓																									Al,Sb,As,Be,Cd,Cr 122	
3																																		Cc,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 314-502-1293	<i>[Signature]</i>	5/24/13	1555	<i>[Signature]</i>	5/24/13	1555	
SITE ADDRESS: BRIDGETON LF							
13570 ST. CHARLES ROCK RD							
BRIDGETON MO 63044							
					5/24/13	0315	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:	<i>WILLIAM ABERNATHY</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	5/24/13		

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

June 04, 2013

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

RE: Project: UNTREATED COMMINGLED
Pace Project No.: 60145559

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 25, 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: UNTREATED COMMINGLED

Pace Project No.: 60145559

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

Pace Project No.: 60145559

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145559001	UNTREATD COMMINGLEDTCPLP(5/23)7	Water	05/23/13 17:07	05/25/13 10:55
60145559002	UNTREATED COMMINGLEDTOC(5/23)7	Water	05/23/13 17:17	05/25/13 10:55
60145559003	UNTREATED COMMINGLEDTS(5/23) 7	Water	05/23/13 17:27	05/25/13 10:55
60145559004	UNTREATED COMMINGLED (5/23) 25	Water	05/23/13 17:35	05/25/13 10:55
60145559005	UNTREATED COMMINGLED (5/23) 26	Water	05/23/13 17:46	05/25/13 10:55
60145559006	UNTREATED COMMINGLED (5/23) 27	Water	05/23/13 17:57	05/25/13 10:55
60145559007	UNTREATED COMMINGLED (5/23) 28	Water	05/23/13 18:18	05/25/13 10:55
60145559008	TRIP BLANK	Water	05/23/13 00:00	05/25/13 10:55

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SAMPLE ANALYTE COUNT

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145559001	UNTREATD COMMINGLEDTCLP(5/23)7	EPA 8260	RAB	14
60145559002	UNTREATED COMMINGLEDTOC(5/23)7	EPA 9060	JML	5
60145559003	UNTREATED COMMINGLEDTS(5/23) 7	SM 2540B	JML	1
60145559004	UNTREATED COMMINGLED (5/23) 25	EPA 8270	JMT	73
		EPA 5030B/8260	PRG	70
60145559005	UNTREATED COMMINGLED (5/23) 26	EPA 8270	JMT	73
		EPA 5030B/8260	PRG	70
60145559006	UNTREATED COMMINGLED (5/23) 27	EPA 8270	JMT	73
		EPA 5030B/8260	PRG	70
60145559007	UNTREATED COMMINGLED (5/23) 28	EPA 8270	JMT	73
		EPA 5030B/8260	PRG	70
60145559008	TRIP BLANK	EPA 5030B/8260	PRG	70

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: UNTREATD **Lab ID:** 60145559001 Collected: 05/23/13 17:07 Received: 05/25/13 10:55 Matrix: Water
COMMINGLEDTCPLP(5/23)7

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP									
Analytical Method: EPA 8260 Leachate Method/Date: EPA 1311; 05/30/13 00:00									
Benzene	ND	ug/L	250	500	5		05/30/13 13:48	71-43-2	
2-Butanone (MEK)	34100	ug/L	5000	200000	5		05/30/13 13:48	78-93-3	
Carbon tetrachloride	ND	ug/L	250	500	5		05/30/13 13:48	56-23-5	
Chlorobenzene	ND	ug/L	250	100000	5		05/30/13 13:48	108-90-7	
Chloroform	ND	ug/L	1000	6000	5		05/30/13 13:48	67-66-3	
1,2-Dichloroethane	ND	ug/L	250	500	5		05/30/13 13:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	250	700	5		05/30/13 13:48	75-35-4	
Tetrachloroethene	ND	ug/L	250	700	5		05/30/13 13:48	127-18-4	
Trichloroethene	ND	ug/L	250	500	5		05/30/13 13:48	79-01-6	
Vinyl chloride	ND	ug/L	500	200	5		05/30/13 13:48	75-01-4	
Surrogates									
1,2-Dichloroethane-d4 (S)	99 %		80-120		5		05/30/13 13:48	17060-07-0	
Toluene-d8 (S)	103 %		80-120		5		05/30/13 13:48	2037-26-5	
4-Bromofluorobenzene (S)	101 %		80-120		5		05/30/13 13:48	460-00-4	
Dibromofluoromethane (S)	105 %		80-120		5		05/30/13 13:48	1868-53-7	

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: UNTREATED **Lab ID:** 60145559002 Collected: 05/23/13 17:17 Received: 05/25/13 10:55 Matrix: Water
COMMINGLED TOC(5/23)7

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
Total Organic Carbon		Analytical Method: EPA 9060							
Mean Total Organic Carbon	17900	mg/L	1000		1000		06/04/13 11:30	7440-44-0	
Total Organic Carbon	17600	mg/L	1000		1000		06/04/13 11:30	7440-44-0	
Total Organic Carbon	17900	mg/L	1000		1000		06/04/13 11:30	7440-44-0	
Total Organic Carbon	17900	mg/L	1000		1000		06/04/13 11:30	7440-44-0	
Total Organic Carbon	18000	mg/L	1000		1000		06/04/13 11:30	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: UNTREATED **Lab ID:** 60145559003 Collected: 05/23/13 17:27 Received: 05/25/13 10:55 Matrix: Water
COMMINGLEDTS(5/23) 7

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
2540B Total Solids									
Analytical Method: SM 2540B									
Total Solids	39000	mg/L	5.0		1		05/29/13 17:22		

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: UNTREATED **Lab ID:** 60145559004 Collected: 05/23/13 17:35 Received: 05/25/13 10:55 Matrix: Water
COMMINGLED (5/23) 25

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Acenaphthene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	83-32-9	
Acenaphthylene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	208-96-8	
Anthracene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	120-12-7	
Benzo(a)anthracene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	56-55-3	
Benzo(a)pyrene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	207-08-9	
Benzoic acid	25100	ug/L	25000		50	05/30/13 00:00	05/31/13 18:56	65-85-0	
Benzyl alcohol	6360J	ug/L	10000		50	05/30/13 00:00	05/31/13 18:56	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	101-55-3	
Butylbenzylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	85-68-7	
Carbazole	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	10000		50	05/30/13 00:00	05/31/13 18:56	59-50-7	
4-Chloroaniline	ND	ug/L	10000		50	05/30/13 00:00	05/31/13 18:56	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	39638-32-9	
2-Chloronaphthalene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	91-58-7	
2-Chlorophenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	7005-72-3	
Chrysene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	53-70-3	
Dibenzofuran	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10000		50	05/30/13 00:00	05/31/13 18:56	91-94-1	
2,4-Dichlorophenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	120-83-2	
Diethylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	84-66-2	
2,4-Dimethylphenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	105-67-9	
Dimethylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	131-11-3	
Di-n-butylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 18:56	534-52-1	
2,4-Dinitrophenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 18:56	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	606-20-2	
Di-n-octylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	117-81-7	
Fluoranthene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	206-44-0	
Fluorene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	87-68-3	
Hexachlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	77-47-4	
Hexachloroethane	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	67-72-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: UNTREATED **Lab ID:** 60145559004 Collected: 05/23/13 17:35 Received: 05/25/13 10:55 Matrix: Water
COMMINGLED (5/23) 25

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Indeno(1,2,3-cd)pyrene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	193-39-5	
Isophorone	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	78-59-1	
2-Methylnaphthalene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	95-48-7	
3&4-Methylphenol(m&p Cresol)	9320	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56		
Naphthalene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	91-20-3	
2-Nitroaniline	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 18:56	88-74-4	
3-Nitroaniline	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 18:56	99-09-2	
4-Nitroaniline	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 18:56	100-01-6	
Nitrobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	98-95-3	
2-Nitrophenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	88-75-5	
4-Nitrophenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 18:56	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	86-30-6	
Pentachlorophenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 18:56	87-86-5	
Phenanthrene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	85-01-8	
Phenol	14900	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	108-95-2	
Pyrene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	129-00-0	
Pyridine	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 18:56	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 18:56	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	0 %		10-159		50	05/30/13 00:00	05/31/13 18:56	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		15-149		50	05/30/13 00:00	05/31/13 18:56	321-60-8	S4
Terphenyl-d14 (S)	0 %		25-142		50	05/30/13 00:00	05/31/13 18:56	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120		50	05/30/13 00:00	05/31/13 18:56	13127-88-3	S4
2-Fluorophenol (S)	0 %		16-120		50	05/30/13 00:00	05/31/13 18:56	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		37-120		50	05/30/13 00:00	05/31/13 18:56	118-79-6	S4
8260 MSV Analytical Method: EPA 5030B/8260									
Acetone	92900	ug/L	2000		200		05/30/13 22:25	67-64-1	
Benzene	317	ug/L	200		200		05/30/13 22:25	71-43-2	
Bromobenzene	ND	ug/L	200		200		05/30/13 22:25	108-86-1	
Bromochloromethane	ND	ug/L	200		200		05/30/13 22:25	74-97-5	
Bromodichloromethane	ND	ug/L	200		200		05/30/13 22:25	75-27-4	
Bromoform	ND	ug/L	200		200		05/30/13 22:25	75-25-2	
Bromomethane	ND	ug/L	1000		200		05/30/13 22:25	74-83-9	
2-Butanone (MEK)	47000	ug/L	2000		200		05/30/13 22:25	78-93-3	
n-Butylbenzene	ND	ug/L	200		200		05/30/13 22:25	104-51-8	
sec-Butylbenzene	ND	ug/L	200		200		05/30/13 22:25	135-98-8	
tert-Butylbenzene	ND	ug/L	200		200		05/30/13 22:25	98-06-6	
Carbon disulfide	ND	ug/L	1000		200		05/30/13 22:25	75-15-0	
Carbon tetrachloride	ND	ug/L	200		200		05/30/13 22:25	56-23-5	
Chlorobenzene	ND	ug/L	200		200		05/30/13 22:25	108-90-7	

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: **UNTREATED** Lab ID: **60145559004** Collected: 05/23/13 17:35 Received: 05/25/13 10:55 Matrix: Water
COMMINGLED (5/23) 25

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 5030B/8260									
Chloroethane	ND	ug/L	200		200		05/30/13 22:25	75-00-3	
Chloroform	ND	ug/L	200		200		05/30/13 22:25	67-66-3	
Chloromethane	ND	ug/L	200		200		05/30/13 22:25	74-87-3	
2-Chlorotoluene	ND	ug/L	200		200		05/30/13 22:25	95-49-8	
4-Chlorotoluene	ND	ug/L	200		200		05/30/13 22:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	500		200		05/30/13 22:25	96-12-8	
Dibromochloromethane	ND	ug/L	200		200		05/30/13 22:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	200		200		05/30/13 22:25	106-93-4	
Dibromomethane	ND	ug/L	200		200		05/30/13 22:25	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200		200		05/30/13 22:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200		200		05/30/13 22:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	200		200		05/30/13 22:25	106-46-7	
Dichlorodifluoromethane	ND	ug/L	200		200		05/30/13 22:25	75-71-8	
1,1-Dichloroethane	ND	ug/L	200		200		05/30/13 22:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	200		200		05/30/13 22:25	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	200		200		05/30/13 22:25	540-59-0	
1,1-Dichloroethene	ND	ug/L	200		200		05/30/13 22:25	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200		200		05/30/13 22:25	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200		200		05/30/13 22:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	200		200		05/30/13 22:25	78-87-5	
1,3-Dichloropropane	ND	ug/L	200		200		05/30/13 22:25	142-28-9	
2,2-Dichloropropane	ND	ug/L	200		200		05/30/13 22:25	594-20-7	
1,1-Dichloropropene	ND	ug/L	200		200		05/30/13 22:25	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200		200		05/30/13 22:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200		200		05/30/13 22:25	10061-02-6	
Ethylbenzene	ND	ug/L	200		200		05/30/13 22:25	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200		200		05/30/13 22:25	87-68-3	
2-Hexanone	ND	ug/L	2000		200		05/30/13 22:25	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	200		200		05/30/13 22:25	98-82-8	
p-Isopropyltoluene	416	ug/L	200		200		05/30/13 22:25	99-87-6	
Methylene chloride	ND	ug/L	200		200		05/30/13 22:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2000		200		05/30/13 22:25	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200		200		05/30/13 22:25	1634-04-4	
Naphthalene	ND	ug/L	2000		200		05/30/13 22:25	91-20-3	
n-Propylbenzene	ND	ug/L	200		200		05/30/13 22:25	103-65-1	
Styrene	ND	ug/L	200		200		05/30/13 22:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200		200		05/30/13 22:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200		200		05/30/13 22:25	79-34-5	
Tetrachloroethene	ND	ug/L	200		200		05/30/13 22:25	127-18-4	
Toluene	ND	ug/L	200		200		05/30/13 22:25	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200		200		05/30/13 22:25	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200		200		05/30/13 22:25	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200		200		05/30/13 22:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200		200		05/30/13 22:25	79-00-5	
Trichloroethene	ND	ug/L	200		200		05/30/13 22:25	79-01-6	

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: UNTREATED **Lab ID:** 60145559004 Collected: 05/23/13 17:35 Received: 05/25/13 10:55 Matrix: Water
COMMINGLED (5/23) 25

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 5030B/8260									
Trichlorofluoromethane	ND	ug/L	200		200		05/30/13 22:25	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	500		200		05/30/13 22:25	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	200		200		05/30/13 22:25	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	200		200		05/30/13 22:25	108-67-8	
Vinyl chloride	ND	ug/L	200		200		05/30/13 22:25	75-01-4	
Xylene (Total)	ND	ug/L	600		200		05/30/13 22:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		200		05/30/13 22:25	460-00-4	
Dibromofluoromethane (S)	102	%	80-120		200		05/30/13 22:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	80-120		200		05/30/13 22:25	17060-07-0	
Toluene-d8 (S)	101	%	80-120		200		05/30/13 22:25	2037-26-5	
Preservation pH	1.0		0.10		200		05/30/13 22:25		

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: UNTREATED **Lab ID:** 60145559005 Collected: 05/23/13 17:46 Received: 05/25/13 10:55 Matrix: Water
COMMINGLED (5/23) 26

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Acenaphthene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	83-32-9	
Acenaphthylene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	208-96-8	
Anthracene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	120-12-7	
Benzo(a)anthracene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	56-55-3	
Benzo(a)pyrene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	207-08-9	
Benzoic acid	24100J	ug/L	25000		50	05/30/13 00:00	05/31/13 19:17	65-85-0	
Benzyl alcohol	5780J	ug/L	10000		50	05/30/13 00:00	05/31/13 19:17	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	101-55-3	
Butylbenzylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	85-68-7	
Carbazole	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	10000		50	05/30/13 00:00	05/31/13 19:17	59-50-7	
4-Chloroaniline	ND	ug/L	10000		50	05/30/13 00:00	05/31/13 19:17	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	39638-32-9	
2-Chloronaphthalene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	91-58-7	
2-Chlorophenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	7005-72-3	
Chrysene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	53-70-3	
Dibenzofuran	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10000		50	05/30/13 00:00	05/31/13 19:17	91-94-1	
2,4-Dichlorophenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	120-83-2	
Diethylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	84-66-2	
2,4-Dimethylphenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	105-67-9	
Dimethylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	131-11-3	
Di-n-butylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:17	534-52-1	
2,4-Dinitrophenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:17	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	606-20-2	
Di-n-octylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	117-81-7	
Fluoranthene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	206-44-0	
Fluorene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	87-68-3	
Hexachlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	77-47-4	
Hexachloroethane	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	67-72-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: UNTREATED **Lab ID:** 60145559005 Collected: 05/23/13 17:46 Received: 05/25/13 10:55 Matrix: Water
COMMINGLED (5/23) 26

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Indeno(1,2,3-cd)pyrene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	193-39-5	
Isophorone	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	78-59-1	
2-Methylnaphthalene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	95-48-7	
3&4-Methylphenol(m&p Cresol)	8840	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17		
Naphthalene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	91-20-3	
2-Nitroaniline	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:17	88-74-4	
3-Nitroaniline	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:17	99-09-2	
4-Nitroaniline	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:17	100-01-6	
Nitrobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	98-95-3	
2-Nitrophenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	88-75-5	
4-Nitrophenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:17	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	86-30-6	
Pentachlorophenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:17	87-86-5	
Phenanthrene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	85-01-8	
Phenol	14000	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	108-95-2	
Pyrene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	129-00-0	
Pyridine	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:17	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:17	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	0 %		10-159		50	05/30/13 00:00	05/31/13 19:17	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		15-149		50	05/30/13 00:00	05/31/13 19:17	321-60-8	S4
Terphenyl-d14 (S)	0 %		25-142		50	05/30/13 00:00	05/31/13 19:17	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120		50	05/30/13 00:00	05/31/13 19:17	13127-88-3	S4
2-Fluorophenol (S)	0 %		16-120		50	05/30/13 00:00	05/31/13 19:17	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		37-120		50	05/30/13 00:00	05/31/13 19:17	118-79-6	S4
8260 MSV Analytical Method: EPA 5030B/8260									
Acetone	95800	ug/L	2000		200		05/30/13 22:40	67-64-1	
Benzene	364	ug/L	200		200		05/30/13 22:40	71-43-2	
Bromobenzene	ND	ug/L	200		200		05/30/13 22:40	108-86-1	
Bromochloromethane	ND	ug/L	200		200		05/30/13 22:40	74-97-5	
Bromodichloromethane	ND	ug/L	200		200		05/30/13 22:40	75-27-4	
Bromoform	ND	ug/L	200		200		05/30/13 22:40	75-25-2	
Bromomethane	ND	ug/L	1000		200		05/30/13 22:40	74-83-9	
2-Butanone (MEK)	48100	ug/L	2000		200		05/30/13 22:40	78-93-3	
n-Butylbenzene	ND	ug/L	200		200		05/30/13 22:40	104-51-8	
sec-Butylbenzene	ND	ug/L	200		200		05/30/13 22:40	135-98-8	
tert-Butylbenzene	ND	ug/L	200		200		05/30/13 22:40	98-06-6	
Carbon disulfide	ND	ug/L	1000		200		05/30/13 22:40	75-15-0	
Carbon tetrachloride	ND	ug/L	200		200		05/30/13 22:40	56-23-5	
Chlorobenzene	ND	ug/L	200		200		05/30/13 22:40	108-90-7	

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: **UNTREATED** Lab ID: **60145559005** Collected: 05/23/13 17:46 Received: 05/25/13 10:55 Matrix: Water
COMMINGLED (5/23) 26

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 5030B/8260									
Chloroethane	ND	ug/L	200		200		05/30/13 22:40	75-00-3	
Chloroform	ND	ug/L	200		200		05/30/13 22:40	67-66-3	
Chloromethane	ND	ug/L	200		200		05/30/13 22:40	74-87-3	
2-Chlorotoluene	ND	ug/L	200		200		05/30/13 22:40	95-49-8	
4-Chlorotoluene	ND	ug/L	200		200		05/30/13 22:40	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	500		200		05/30/13 22:40	96-12-8	
Dibromochloromethane	ND	ug/L	200		200		05/30/13 22:40	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	200		200		05/30/13 22:40	106-93-4	
Dibromomethane	ND	ug/L	200		200		05/30/13 22:40	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200		200		05/30/13 22:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200		200		05/30/13 22:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	200		200		05/30/13 22:40	106-46-7	
Dichlorodifluoromethane	ND	ug/L	200		200		05/30/13 22:40	75-71-8	
1,1-Dichloroethane	ND	ug/L	200		200		05/30/13 22:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	200		200		05/30/13 22:40	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	200		200		05/30/13 22:40	540-59-0	
1,1-Dichloroethene	ND	ug/L	200		200		05/30/13 22:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200		200		05/30/13 22:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200		200		05/30/13 22:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	200		200		05/30/13 22:40	78-87-5	
1,3-Dichloropropane	ND	ug/L	200		200		05/30/13 22:40	142-28-9	
2,2-Dichloropropane	ND	ug/L	200		200		05/30/13 22:40	594-20-7	
1,1-Dichloropropene	ND	ug/L	200		200		05/30/13 22:40	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200		200		05/30/13 22:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200		200		05/30/13 22:40	10061-02-6	
Ethylbenzene	ND	ug/L	200		200		05/30/13 22:40	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200		200		05/30/13 22:40	87-68-3	
2-Hexanone	ND	ug/L	2000		200		05/30/13 22:40	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	200		200		05/30/13 22:40	98-82-8	
p-Isopropyltoluene	638	ug/L	200		200		05/30/13 22:40	99-87-6	
Methylene chloride	ND	ug/L	200		200		05/30/13 22:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2000		200		05/30/13 22:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200		200		05/30/13 22:40	1634-04-4	
Naphthalene	ND	ug/L	2000		200		05/30/13 22:40	91-20-3	
n-Propylbenzene	ND	ug/L	200		200		05/30/13 22:40	103-65-1	
Styrene	ND	ug/L	200		200		05/30/13 22:40	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200		200		05/30/13 22:40	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200		200		05/30/13 22:40	79-34-5	
Tetrachloroethene	ND	ug/L	200		200		05/30/13 22:40	127-18-4	
Toluene	ND	ug/L	200		200		05/30/13 22:40	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200		200		05/30/13 22:40	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200		200		05/30/13 22:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200		200		05/30/13 22:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200		200		05/30/13 22:40	79-00-5	
Trichloroethene	ND	ug/L	200		200		05/30/13 22:40	79-01-6	

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: UNTREATED **Lab ID:** 60145559005 Collected: 05/23/13 17:46 Received: 05/25/13 10:55 Matrix: Water
COMMINGLED (5/23) 26

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 5030B/8260									
Trichlorofluoromethane	ND	ug/L	200		200		05/30/13 22:40	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	500		200		05/30/13 22:40	96-18-4	
1,2,4-Trimethylbenzene	201	ug/L	200		200		05/30/13 22:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	200		200		05/30/13 22:40	108-67-8	
Vinyl chloride	ND	ug/L	200		200		05/30/13 22:40	75-01-4	
Xylene (Total)	ND	ug/L	600		200		05/30/13 22:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		200		05/30/13 22:40	460-00-4	
Dibromofluoromethane (S)	102	%	80-120		200		05/30/13 22:40	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	80-120		200		05/30/13 22:40	17060-07-0	
Toluene-d8 (S)	103	%	80-120		200		05/30/13 22:40	2037-26-5	
Preservation pH	1.0		0.10		200		05/30/13 22:40		

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: UNTREATED **Lab ID:** 60145559006 Collected: 05/23/13 17:57 Received: 05/25/13 10:55 Matrix: Water
COMMINGLED (5/23) 27

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Acenaphthene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	83-32-9	
Acenaphthylene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	208-96-8	
Anthracene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	120-12-7	
Benzo(a)anthracene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	56-55-3	
Benzo(a)pyrene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	207-08-9	
Benzoic acid	24400J	ug/L	25000		50	05/30/13 00:00	05/31/13 19:38	65-85-0	
Benzyl alcohol	6000J	ug/L	10000		50	05/30/13 00:00	05/31/13 19:38	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	101-55-3	
Butylbenzylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	85-68-7	
Carbazole	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	10000		50	05/30/13 00:00	05/31/13 19:38	59-50-7	
4-Chloroaniline	ND	ug/L	10000		50	05/30/13 00:00	05/31/13 19:38	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	39638-32-9	
2-Chloronaphthalene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	91-58-7	
2-Chlorophenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	7005-72-3	
Chrysene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	53-70-3	
Dibenzofuran	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10000		50	05/30/13 00:00	05/31/13 19:38	91-94-1	
2,4-Dichlorophenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	120-83-2	
Diethylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	84-66-2	
2,4-Dimethylphenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	105-67-9	
Dimethylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	131-11-3	
Di-n-butylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:38	534-52-1	
2,4-Dinitrophenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:38	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	606-20-2	
Di-n-octylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	117-81-7	
Fluoranthene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	206-44-0	
Fluorene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	87-68-3	
Hexachlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	77-47-4	
Hexachloroethane	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	67-72-1	

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: UNTREATED **Lab ID:** 60145559006 Collected: 05/23/13 17:57 Received: 05/25/13 10:55 Matrix: Water
COMMINGLED (5/23) 27

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Indeno(1,2,3-cd)pyrene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	193-39-5	
Isophorone	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	78-59-1	
2-Methylnaphthalene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	95-48-7	
3&4-Methylphenol(m&p Cresol)	9220	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38		
Naphthalene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	91-20-3	
2-Nitroaniline	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:38	88-74-4	
3-Nitroaniline	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:38	99-09-2	
4-Nitroaniline	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:38	100-01-6	
Nitrobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	98-95-3	
2-Nitrophenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	88-75-5	
4-Nitrophenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:38	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	86-30-6	
Pentachlorophenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:38	87-86-5	
Phenanthrene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	85-01-8	
Phenol	15100	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	108-95-2	
Pyrene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	129-00-0	
Pyridine	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:38	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:38	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	0 %		10-159		50	05/30/13 00:00	05/31/13 19:38	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		15-149		50	05/30/13 00:00	05/31/13 19:38	321-60-8	S4
Terphenyl-d14 (S)	0 %		25-142		50	05/30/13 00:00	05/31/13 19:38	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120		50	05/30/13 00:00	05/31/13 19:38	13127-88-3	S4
2-Fluorophenol (S)	0 %		16-120		50	05/30/13 00:00	05/31/13 19:38	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		37-120		50	05/30/13 00:00	05/31/13 19:38	118-79-6	S4
8260 MSV Analytical Method: EPA 5030B/8260									
Acetone	95700	ug/L	2000		200		05/30/13 22:54	67-64-1	
Benzene	365	ug/L	200		200		05/30/13 22:54	71-43-2	
Bromobenzene	ND	ug/L	200		200		05/30/13 22:54	108-86-1	
Bromochloromethane	ND	ug/L	200		200		05/30/13 22:54	74-97-5	
Bromodichloromethane	ND	ug/L	200		200		05/30/13 22:54	75-27-4	
Bromoform	ND	ug/L	200		200		05/30/13 22:54	75-25-2	
Bromomethane	ND	ug/L	1000		200		05/30/13 22:54	74-83-9	
2-Butanone (MEK)	44700	ug/L	2000		200		05/30/13 22:54	78-93-3	
n-Butylbenzene	ND	ug/L	200		200		05/30/13 22:54	104-51-8	
sec-Butylbenzene	ND	ug/L	200		200		05/30/13 22:54	135-98-8	
tert-Butylbenzene	ND	ug/L	200		200		05/30/13 22:54	98-06-6	
Carbon disulfide	ND	ug/L	1000		200		05/30/13 22:54	75-15-0	
Carbon tetrachloride	ND	ug/L	200		200		05/30/13 22:54	56-23-5	
Chlorobenzene	ND	ug/L	200		200		05/30/13 22:54	108-90-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: UNTREATED **Lab ID:** 60145559006 Collected: 05/23/13 17:57 Received: 05/25/13 10:55 Matrix: Water
COMMINGLED (5/23) 27

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 5030B/8260									
Chloroethane	ND	ug/L	200		200		05/30/13 22:54	75-00-3	
Chloroform	ND	ug/L	200		200		05/30/13 22:54	67-66-3	
Chloromethane	ND	ug/L	200		200		05/30/13 22:54	74-87-3	
2-Chlorotoluene	ND	ug/L	200		200		05/30/13 22:54	95-49-8	
4-Chlorotoluene	ND	ug/L	200		200		05/30/13 22:54	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	500		200		05/30/13 22:54	96-12-8	
Dibromochloromethane	ND	ug/L	200		200		05/30/13 22:54	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	200		200		05/30/13 22:54	106-93-4	
Dibromomethane	ND	ug/L	200		200		05/30/13 22:54	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200		200		05/30/13 22:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200		200		05/30/13 22:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	200		200		05/30/13 22:54	106-46-7	
Dichlorodifluoromethane	ND	ug/L	200		200		05/30/13 22:54	75-71-8	
1,1-Dichloroethane	ND	ug/L	200		200		05/30/13 22:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	200		200		05/30/13 22:54	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	200		200		05/30/13 22:54	540-59-0	
1,1-Dichloroethene	ND	ug/L	200		200		05/30/13 22:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200		200		05/30/13 22:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200		200		05/30/13 22:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	200		200		05/30/13 22:54	78-87-5	
1,3-Dichloropropane	ND	ug/L	200		200		05/30/13 22:54	142-28-9	
2,2-Dichloropropane	ND	ug/L	200		200		05/30/13 22:54	594-20-7	
1,1-Dichloropropene	ND	ug/L	200		200		05/30/13 22:54	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200		200		05/30/13 22:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200		200		05/30/13 22:54	10061-02-6	
Ethylbenzene	ND	ug/L	200		200		05/30/13 22:54	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200		200		05/30/13 22:54	87-68-3	
2-Hexanone	ND	ug/L	2000		200		05/30/13 22:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	200		200		05/30/13 22:54	98-82-8	
p-Isopropyltoluene	841	ug/L	200		200		05/30/13 22:54	99-87-6	
Methylene chloride	ND	ug/L	200		200		05/30/13 22:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2000		200		05/30/13 22:54	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200		200		05/30/13 22:54	1634-04-4	
Naphthalene	ND	ug/L	2000		200		05/30/13 22:54	91-20-3	
n-Propylbenzene	ND	ug/L	200		200		05/30/13 22:54	103-65-1	
Styrene	ND	ug/L	200		200		05/30/13 22:54	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200		200		05/30/13 22:54	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200		200		05/30/13 22:54	79-34-5	
Tetrachloroethene	ND	ug/L	200		200		05/30/13 22:54	127-18-4	
Toluene	ND	ug/L	200		200		05/30/13 22:54	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200		200		05/30/13 22:54	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200		200		05/30/13 22:54	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200		200		05/30/13 22:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200		200		05/30/13 22:54	79-00-5	
Trichloroethene	ND	ug/L	200		200		05/30/13 22:54	79-01-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: UNTREATED **Lab ID:** 60145559006 Collected: 05/23/13 17:57 Received: 05/25/13 10:55 Matrix: Water
 COMMINGLED (5/23) 27

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 5030B/8260									
Trichlorofluoromethane	ND	ug/L	200		200		05/30/13 22:54	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	500		200		05/30/13 22:54	96-18-4	
1,2,4-Trimethylbenzene	261	ug/L	200		200		05/30/13 22:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	200		200		05/30/13 22:54	108-67-8	
Vinyl chloride	ND	ug/L	200		200		05/30/13 22:54	75-01-4	
Xylene (Total)	ND	ug/L	600		200		05/30/13 22:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100 %		80-120		200		05/30/13 22:54	460-00-4	
Dibromofluoromethane (S)	100 %		80-120		200		05/30/13 22:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	100 %		80-120		200		05/30/13 22:54	17060-07-0	
Toluene-d8 (S)	101 %		80-120		200		05/30/13 22:54	2037-26-5	
Preservation pH	1.0		0.10		200		05/30/13 22:54		

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: UNTREATED **Lab ID:** 60145559007 Collected: 05/23/13 18:18 Received: 05/25/13 10:55 Matrix: Water
COMMINGLED (5/23) 28

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Acenaphthene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	83-32-9	
Acenaphthylene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	208-96-8	
Anthracene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	120-12-7	
Benzo(a)anthracene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	56-55-3	
Benzo(a)pyrene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	207-08-9	
Benzoic acid	22000J	ug/L	25000		50	05/30/13 00:00	05/31/13 19:59	65-85-0	
Benzyl alcohol	5760J	ug/L	10000		50	05/30/13 00:00	05/31/13 19:59	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	101-55-3	
Butylbenzylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	85-68-7	
Carbazole	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	10000		50	05/30/13 00:00	05/31/13 19:59	59-50-7	
4-Chloroaniline	ND	ug/L	10000		50	05/30/13 00:00	05/31/13 19:59	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	39638-32-9	
2-Chloronaphthalene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	91-58-7	
2-Chlorophenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	7005-72-3	
Chrysene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	53-70-3	
Dibenzofuran	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	10000		50	05/30/13 00:00	05/31/13 19:59	91-94-1	
2,4-Dichlorophenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	120-83-2	
Diethylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	84-66-2	
2,4-Dimethylphenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	105-67-9	
Dimethylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	131-11-3	
Di-n-butylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:59	534-52-1	
2,4-Dinitrophenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:59	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	606-20-2	
Di-n-octylphthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	117-81-7	
Fluoranthene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	206-44-0	
Fluorene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	87-68-3	
Hexachlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	77-47-4	
Hexachloroethane	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	67-72-1	

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: UNTREATED **Lab ID:** 60145559007 Collected: 05/23/13 18:18 Received: 05/25/13 10:55 Matrix: Water
COMMINGLED (5/23) 28

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Indeno(1,2,3-cd)pyrene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	193-39-5	
Isophorone	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	78-59-1	
2-Methylnaphthalene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	95-48-7	
3&4-Methylphenol(m&p Cresol)	9080	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59		
Naphthalene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	91-20-3	
2-Nitroaniline	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:59	88-74-4	
3-Nitroaniline	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:59	99-09-2	
4-Nitroaniline	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:59	100-01-6	
Nitrobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	98-95-3	
2-Nitrophenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	88-75-5	
4-Nitrophenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:59	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	86-30-6	
Pentachlorophenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:59	87-86-5	
Phenanthrene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	85-01-8	
Phenol	14600	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	108-95-2	
Pyrene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	129-00-0	
Pyridine	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	25000		50	05/30/13 00:00	05/31/13 19:59	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	5000		50	05/30/13 00:00	05/31/13 19:59	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	0 %		10-159		50	05/30/13 00:00	05/31/13 19:59	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		15-149		50	05/30/13 00:00	05/31/13 19:59	321-60-8	S4
Terphenyl-d14 (S)	0 %		25-142		50	05/30/13 00:00	05/31/13 19:59	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120		50	05/30/13 00:00	05/31/13 19:59	13127-88-3	S4
2-Fluorophenol (S)	0 %		16-120		50	05/30/13 00:00	05/31/13 19:59	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		37-120		50	05/30/13 00:00	05/31/13 19:59	118-79-6	S4
8260 MSV Analytical Method: EPA 5030B/8260									
Acetone	98900	ug/L	2000		200		05/30/13 23:09	67-64-1	
Benzene	427	ug/L	200		200		05/30/13 23:09	71-43-2	
Bromobenzene	ND	ug/L	200		200		05/30/13 23:09	108-86-1	
Bromochloromethane	ND	ug/L	200		200		05/30/13 23:09	74-97-5	
Bromodichloromethane	ND	ug/L	200		200		05/30/13 23:09	75-27-4	
Bromoform	ND	ug/L	200		200		05/30/13 23:09	75-25-2	
Bromomethane	ND	ug/L	1000		200		05/30/13 23:09	74-83-9	
2-Butanone (MEK)	45200	ug/L	2000		200		05/30/13 23:09	78-93-3	
n-Butylbenzene	ND	ug/L	200		200		05/30/13 23:09	104-51-8	
sec-Butylbenzene	ND	ug/L	200		200		05/30/13 23:09	135-98-8	
tert-Butylbenzene	ND	ug/L	200		200		05/30/13 23:09	98-06-6	
Carbon disulfide	ND	ug/L	1000		200		05/30/13 23:09	75-15-0	
Carbon tetrachloride	ND	ug/L	200		200		05/30/13 23:09	56-23-5	
Chlorobenzene	ND	ug/L	200		200		05/30/13 23:09	108-90-7	

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: UNTREATED **Lab ID:** 60145559007 Collected: 05/23/13 18:18 Received: 05/25/13 10:55 Matrix: Water
COMMINGLED (5/23) 28

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 5030B/8260									
Chloroethane	ND	ug/L	200		200		05/30/13 23:09	75-00-3	
Chloroform	ND	ug/L	200		200		05/30/13 23:09	67-66-3	
Chloromethane	ND	ug/L	200		200		05/30/13 23:09	74-87-3	
2-Chlorotoluene	ND	ug/L	200		200		05/30/13 23:09	95-49-8	
4-Chlorotoluene	ND	ug/L	200		200		05/30/13 23:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	500		200		05/30/13 23:09	96-12-8	
Dibromochloromethane	ND	ug/L	200		200		05/30/13 23:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	200		200		05/30/13 23:09	106-93-4	
Dibromomethane	ND	ug/L	200		200		05/30/13 23:09	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	200		200		05/30/13 23:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	200		200		05/30/13 23:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	200		200		05/30/13 23:09	106-46-7	
Dichlorodifluoromethane	ND	ug/L	200		200		05/30/13 23:09	75-71-8	
1,1-Dichloroethane	ND	ug/L	200		200		05/30/13 23:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	200		200		05/30/13 23:09	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	200		200		05/30/13 23:09	540-59-0	
1,1-Dichloroethene	ND	ug/L	200		200		05/30/13 23:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	200		200		05/30/13 23:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	200		200		05/30/13 23:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	200		200		05/30/13 23:09	78-87-5	
1,3-Dichloropropane	ND	ug/L	200		200		05/30/13 23:09	142-28-9	
2,2-Dichloropropane	ND	ug/L	200		200		05/30/13 23:09	594-20-7	
1,1-Dichloropropene	ND	ug/L	200		200		05/30/13 23:09	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	200		200		05/30/13 23:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	200		200		05/30/13 23:09	10061-02-6	
Ethylbenzene	ND	ug/L	200		200		05/30/13 23:09	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	200		200		05/30/13 23:09	87-68-3	
2-Hexanone	ND	ug/L	2000		200		05/30/13 23:09	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	200		200		05/30/13 23:09	98-82-8	
p-Isopropyltoluene	640	ug/L	200		200		05/30/13 23:09	99-87-6	
Methylene chloride	ND	ug/L	200		200		05/30/13 23:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	2000		200		05/30/13 23:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	200		200		05/30/13 23:09	1634-04-4	
Naphthalene	ND	ug/L	2000		200		05/30/13 23:09	91-20-3	
n-Propylbenzene	ND	ug/L	200		200		05/30/13 23:09	103-65-1	
Styrene	ND	ug/L	200		200		05/30/13 23:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	200		200		05/30/13 23:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	200		200		05/30/13 23:09	79-34-5	
Tetrachloroethene	ND	ug/L	200		200		05/30/13 23:09	127-18-4	
Toluene	ND	ug/L	200		200		05/30/13 23:09	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	200		200		05/30/13 23:09	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	200		200		05/30/13 23:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	200		200		05/30/13 23:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	200		200		05/30/13 23:09	79-00-5	
Trichloroethene	ND	ug/L	200		200		05/30/13 23:09	79-01-6	

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: UNTREATED **Lab ID:** 60145559007 Collected: 05/23/13 18:18 Received: 05/25/13 10:55 Matrix: Water
 COMMINGLED (5/23) 28

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 5030B/8260									
Trichlorofluoromethane	ND	ug/L	200		200		05/30/13 23:09	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	500		200		05/30/13 23:09	96-18-4	
1,2,4-Trimethylbenzene	217	ug/L	200		200		05/30/13 23:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	200		200		05/30/13 23:09	108-67-8	
Vinyl chloride	ND	ug/L	200		200		05/30/13 23:09	75-01-4	
Xylene (Total)	ND	ug/L	600		200		05/30/13 23:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		200		05/30/13 23:09	460-00-4	
Dibromofluoromethane (S)	101	%	80-120		200		05/30/13 23:09	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	80-120		200		05/30/13 23:09	17060-07-0	
Toluene-d8 (S)	102	%	80-120		200		05/30/13 23:09	2037-26-5	
Preservation pH	1.0		0.10		200		05/30/13 23:09		

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: TRIP BLANK Lab ID: 60145559008 Collected: 05/23/13 00:00 Received: 05/25/13 10:55 Matrix: Water									
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 5030B/8260									
Acetone	ND	ug/L	10.0		1		05/30/13 23:23	67-64-1	
Benzene	ND	ug/L	1.0		1		05/30/13 23:23	71-43-2	
Bromobenzene	ND	ug/L	1.0		1		05/30/13 23:23	108-86-1	
Bromochloromethane	ND	ug/L	1.0		1		05/30/13 23:23	74-97-5	
Bromodichloromethane	ND	ug/L	1.0		1		05/30/13 23:23	75-27-4	
Bromoform	ND	ug/L	1.0		1		05/30/13 23:23	75-25-2	
Bromomethane	ND	ug/L	5.0		1		05/30/13 23:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0		1		05/30/13 23:23	78-93-3	
n-Butylbenzene	ND	ug/L	1.0		1		05/30/13 23:23	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0		1		05/30/13 23:23	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0		1		05/30/13 23:23	98-06-6	
Carbon disulfide	ND	ug/L	5.0		1		05/30/13 23:23	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0		1		05/30/13 23:23	56-23-5	
Chlorobenzene	ND	ug/L	1.0		1		05/30/13 23:23	108-90-7	
Chloroethane	ND	ug/L	1.0		1		05/30/13 23:23	75-00-3	
Chloroform	ND	ug/L	1.0		1		05/30/13 23:23	67-66-3	
Chloromethane	ND	ug/L	1.0		1		05/30/13 23:23	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0		1		05/30/13 23:23	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0		1		05/30/13 23:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5		1		05/30/13 23:23	96-12-8	
Dibromochloromethane	ND	ug/L	1.0		1		05/30/13 23:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0		1		05/30/13 23:23	106-93-4	
Dibromomethane	ND	ug/L	1.0		1		05/30/13 23:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0		1		05/30/13 23:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0		1		05/30/13 23:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0		1		05/30/13 23:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0		1		05/30/13 23:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0		1		05/30/13 23:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0		1		05/30/13 23:23	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0		1		05/30/13 23:23	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0		1		05/30/13 23:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0		1		05/30/13 23:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0		1		05/30/13 23:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0		1		05/30/13 23:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0		1		05/30/13 23:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0		1		05/30/13 23:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0		1		05/30/13 23:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0		1		05/30/13 23:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0		1		05/30/13 23:23	10061-02-6	
Ethylbenzene	ND	ug/L	1.0		1		05/30/13 23:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0		1		05/30/13 23:23	87-68-3	
2-Hexanone	ND	ug/L	10.0		1		05/30/13 23:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0		1		05/30/13 23:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0		1		05/30/13 23:23	99-87-6	
Methylene chloride	ND	ug/L	1.0		1		05/30/13 23:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0		1		05/30/13 23:23	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

Sample: TRIP BLANK **Lab ID: 60145559008** Collected: 05/23/13 00:00 Received: 05/25/13 10:55 Matrix: Water

Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 5030B/8260									
Methyl-tert-butyl ether	ND	ug/L	1.0		1		05/30/13 23:23	1634-04-4	
Naphthalene	ND	ug/L	10.0		1		05/30/13 23:23	91-20-3	
n-Propylbenzene	ND	ug/L	1.0		1		05/30/13 23:23	103-65-1	
Styrene	ND	ug/L	1.0		1		05/30/13 23:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0		1		05/30/13 23:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0		1		05/30/13 23:23	79-34-5	
Tetrachloroethene	ND	ug/L	1.0		1		05/30/13 23:23	127-18-4	
Toluene	ND	ug/L	1.0		1		05/30/13 23:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0		1		05/30/13 23:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0		1		05/30/13 23:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0		1		05/30/13 23:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0		1		05/30/13 23:23	79-00-5	
Trichloroethene	ND	ug/L	1.0		1		05/30/13 23:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0		1		05/30/13 23:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5		1		05/30/13 23:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0		1		05/30/13 23:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0		1		05/30/13 23:23	108-67-8	
Vinyl chloride	ND	ug/L	1.0		1		05/30/13 23:23	75-01-4	
Xylene (Total)	ND	ug/L	3.0		1		05/30/13 23:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104 %		80-120		1		05/30/13 23:23	460-00-4	
Dibromofluoromethane (S)	96 %		80-120		1		05/30/13 23:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	95 %		80-120		1		05/30/13 23:23	17060-07-0	
Toluene-d8 (S)	102 %		80-120		1		05/30/13 23:23	2037-26-5	
Preservation pH	1.0		0.10		1		05/30/13 23:23		

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QUALITY CONTROL DATA

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

QC Batch: MSV/54013 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 60145559001

METHOD BLANK: 1196427 Matrix: Water

Associated Lab Samples: 60145559001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	50.0	05/30/13 13:02	
1,2-Dichloroethane	ug/L	ND	50.0	05/30/13 13:02	
2-Butanone (MEK)	ug/L	ND	1000	05/30/13 13:02	
Benzene	ug/L	ND	50.0	05/30/13 13:02	
Carbon tetrachloride	ug/L	ND	50.0	05/30/13 13:02	
Chlorobenzene	ug/L	ND	50.0	05/30/13 13:02	
Chloroform	ug/L	ND	200	05/30/13 13:02	
Tetrachloroethene	ug/L	ND	50.0	05/30/13 13:02	
Trichloroethene	ug/L	ND	50.0	05/30/13 13:02	
Vinyl chloride	ug/L	ND	100	05/30/13 13:02	
1,2-Dichloroethane-d4 (S)	%	103	80-120	05/30/13 13:02	
4-Bromofluorobenzene (S)	%	101	80-120	05/30/13 13:02	
Dibromofluoromethane (S)	%	107	80-120	05/30/13 13:02	
Toluene-d8 (S)	%	105	80-120	05/30/13 13:02	

LABORATORY CONTROL SAMPLE: 1196428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	1000	946	95	70-127	
1,2-Dichloroethane	ug/L	1000	861	86	72-122	
2-Butanone (MEK)	ug/L	5000	3950	79	69-124	
Benzene	ug/L	1000	854	85	73-122	
Carbon tetrachloride	ug/L	1000	933	93	73-125	
Chlorobenzene	ug/L	1000	848	85	80-120	
Chloroform	ug/L	1000	846	85	76-120	
Tetrachloroethene	ug/L	1000	857	86	79-122	
Trichloroethene	ug/L	1000	872	87	76-120	
Vinyl chloride	ug/L	1000	862	86	57-140	
1,2-Dichloroethane-d4 (S)	%			106	80-120	
4-Bromofluorobenzene (S)	%			103	80-120	
Dibromofluoromethane (S)	%			110	80-120	
Toluene-d8 (S)	%			105	80-120	

MATRIX SPIKE SAMPLE: 1196429

Parameter	Units	60145361001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	ND	1000	815	81	66-142	
1,2-Dichloroethane	ug/L	ND	1000	855	85	53-144	
2-Butanone (MEK)	ug/L	ND	5000	3910	78	54-127	
Benzene	ug/L	0.064 mg/L	1000	872	81	48-150	

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QUALITY CONTROL DATA

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

MATRIX SPIKE SAMPLE:		1196429					
Parameter	Units	60145361001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	ND	1000	845	85	68-145	
Chlorobenzene	ug/L	ND	1000	837	84	68-131	
Chloroform	ug/L	ND	1000	857	86	69-126	
Tetrachloroethene	ug/L	ND	1000	797	80	66-139	
Trichloroethene	ug/L	ND	1000	821	82	67-130	
Vinyl chloride	ug/L	ND	1000	598	60	47-159	
1,2-Dichloroethane-d4 (S)	%				104	80-120	
4-Bromofluorobenzene (S)	%				107	80-120	
Dibromofluoromethane (S)	%				110	80-120	
Toluene-d8 (S)	%				106	80-120	

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QUALITY CONTROL DATA

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

QC Batch: MSV/54015 Analysis Method: EPA 5030B/8260
 QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
 Associated Lab Samples: 60145559004, 60145559005, 60145559006, 60145559007, 60145559008

METHOD BLANK: 1196474 Matrix: Water

Associated Lab Samples: 60145559004, 60145559005, 60145559006, 60145559007, 60145559008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/30/13 21:27	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/30/13 21:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/30/13 21:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/30/13 21:27	
1,1-Dichloroethane	ug/L	ND	1.0	05/30/13 21:27	
1,1-Dichloroethene	ug/L	ND	1.0	05/30/13 21:27	
1,1-Dichloropropene	ug/L	ND	1.0	05/30/13 21:27	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/30/13 21:27	
1,2,3-Trichloropropane	ug/L	ND	2.5	05/30/13 21:27	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/30/13 21:27	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/30/13 21:27	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	05/30/13 21:27	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/30/13 21:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/30/13 21:27	
1,2-Dichloroethane	ug/L	ND	1.0	05/30/13 21:27	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	05/30/13 21:27	
1,2-Dichloropropane	ug/L	ND	1.0	05/30/13 21:27	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/30/13 21:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/30/13 21:27	
1,3-Dichloropropane	ug/L	ND	1.0	05/30/13 21:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/30/13 21:27	
2,2-Dichloropropane	ug/L	ND	1.0	05/30/13 21:27	
2-Butanone (MEK)	ug/L	ND	10.0	05/30/13 21:27	
2-Chlorotoluene	ug/L	ND	1.0	05/30/13 21:27	
2-Hexanone	ug/L	ND	10.0	05/30/13 21:27	
4-Chlorotoluene	ug/L	ND	1.0	05/30/13 21:27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/30/13 21:27	
Acetone	ug/L	ND	10.0	05/30/13 21:27	
Benzene	ug/L	ND	1.0	05/30/13 21:27	
Bromobenzene	ug/L	ND	1.0	05/30/13 21:27	
Bromochloromethane	ug/L	ND	1.0	05/30/13 21:27	
Bromodichloromethane	ug/L	ND	1.0	05/30/13 21:27	
Bromoform	ug/L	ND	1.0	05/30/13 21:27	
Bromomethane	ug/L	ND	5.0	05/30/13 21:27	
Carbon disulfide	ug/L	ND	5.0	05/30/13 21:27	
Carbon tetrachloride	ug/L	ND	1.0	05/30/13 21:27	
Chlorobenzene	ug/L	ND	1.0	05/30/13 21:27	
Chloroethane	ug/L	ND	1.0	05/30/13 21:27	
Chloroform	ug/L	ND	1.0	05/30/13 21:27	
Chloromethane	ug/L	ND	1.0	05/30/13 21:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/30/13 21:27	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/30/13 21:27	
Dibromochloromethane	ug/L	ND	1.0	05/30/13 21:27	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

METHOD BLANK: 1196474

Matrix: Water

Associated Lab Samples: 60145559004, 60145559005, 60145559006, 60145559007, 60145559008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	05/30/13 21:27	
Dichlorodifluoromethane	ug/L	ND	1.0	05/30/13 21:27	
Ethylbenzene	ug/L	ND	1.0	05/30/13 21:27	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/30/13 21:27	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/30/13 21:27	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/30/13 21:27	
Methylene chloride	ug/L	ND	1.0	05/30/13 21:27	
n-Butylbenzene	ug/L	ND	1.0	05/30/13 21:27	
n-Propylbenzene	ug/L	ND	1.0	05/30/13 21:27	
Naphthalene	ug/L	ND	10.0	05/30/13 21:27	
p-Isopropyltoluene	ug/L	ND	1.0	05/30/13 21:27	
sec-Butylbenzene	ug/L	ND	1.0	05/30/13 21:27	
Styrene	ug/L	ND	1.0	05/30/13 21:27	
tert-Butylbenzene	ug/L	ND	1.0	05/30/13 21:27	
Tetrachloroethene	ug/L	ND	1.0	05/30/13 21:27	
Toluene	ug/L	ND	1.0	05/30/13 21:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/30/13 21:27	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/30/13 21:27	
Trichloroethene	ug/L	ND	1.0	05/30/13 21:27	
Trichlorofluoromethane	ug/L	ND	1.0	05/30/13 21:27	
Vinyl chloride	ug/L	ND	1.0	05/30/13 21:27	
Xylene (Total)	ug/L	ND	3.0	05/30/13 21:27	
1,2-Dichloroethane-d4 (S)	%	98	80-120	05/30/13 21:27	
4-Bromofluorobenzene (S)	%	102	80-120	05/30/13 21:27	
Dibromofluoromethane (S)	%	95	80-120	05/30/13 21:27	
Toluene-d8 (S)	%	103	80-120	05/30/13 21:27	

LABORATORY CONTROL SAMPLE: 1196475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.6	103	79-121	
1,1,1-Trichloroethane	ug/L	20	19.6	98	75-124	
1,1,2,2-Tetrachloroethane	ug/L	20	18.3	91	73-120	
1,1,2-Trichloroethane	ug/L	20	18.1	90	76-120	
1,1-Dichloroethane	ug/L	20	18.4	92	73-120	
1,1-Dichloroethene	ug/L	20	20.5	102	70-127	
1,1-Dichloropropene	ug/L	20	20.0	100	79-124	
1,2,3-Trichlorobenzene	ug/L	20	20.7	104	68-130	
1,2,3-Trichloropropane	ug/L	20	18.6	93	72-124	
1,2,4-Trichlorobenzene	ug/L	20	19.7	98	73-125	
1,2,4-Trimethylbenzene	ug/L	20	20.6	103	76-120	
1,2-Dibromo-3-chloropropane	ug/L	20	18.5	93	68-126	
1,2-Dibromoethane (EDB)	ug/L	20	19.7	99	79-121	
1,2-Dichlorobenzene	ug/L	20	19.7	98	79-120	
1,2-Dichloroethane	ug/L	20	19.3	97	72-122	

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QUALITY CONTROL DATA

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

LABORATORY CONTROL SAMPLE: 1196475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	39.7	99	77-120	
1,2-Dichloropropane	ug/L	20	20.1	101	77-120	
1,3,5-Trimethylbenzene	ug/L	20	20.6	103	75-120	
1,3-Dichlorobenzene	ug/L	20	19.4	97	80-120	
1,3-Dichloropropane	ug/L	20	18.4	92	76-120	
1,4-Dichlorobenzene	ug/L	20	19.4	97	80-120	
2,2-Dichloropropane	ug/L	20	17.0	85	52-135	
2-Butanone (MEK)	ug/L	100	92.3	92	69-124	
2-Chlorotoluene	ug/L	20	20.7	103	78-120	
2-Hexanone	ug/L	100	89.0	89	70-125	
4-Chlorotoluene	ug/L	20	21.9	109	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	88.3	88	72-123	
Acetone	ug/L	100	88.9	89	60-126	
Benzene	ug/L	20	19.0	95	73-122	
Bromobenzene	ug/L	20	19.1	96	79-120	
Bromochloromethane	ug/L	20	19.8	99	76-125	
Bromodichloromethane	ug/L	20	18.9	95	73-120	
Bromoform	ug/L	20	18.1	90	74-120	
Bromomethane	ug/L	20	26.8	134	40-146	
Carbon disulfide	ug/L	20	18.9	94	62-125	
Carbon tetrachloride	ug/L	20	19.2	96	73-125	
Chlorobenzene	ug/L	20	19.6	98	80-120	
Chloroethane	ug/L	20	23.8	119	56-159	
Chloroform	ug/L	20	18.9	95	76-120	
Chloromethane	ug/L	20	15.8	79	40-148	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	69-120	
cis-1,3-Dichloropropene	ug/L	20	18.2	91	76-120	
Dibromochloromethane	ug/L	20	20.1	101	79-121	
Dibromomethane	ug/L	20	19.5	98	77-120	
Dichlorodifluoromethane	ug/L	20	15.3	76	40-141	
Ethylbenzene	ug/L	20	21.0	105	76-123	
Hexachloro-1,3-butadiene	ug/L	20	21.4	107	69-125	
Isopropylbenzene (Cumene)	ug/L	20	21.1	105	80-130	
Methyl-tert-butyl ether	ug/L	20	18.5	93	67-128	
Methylene chloride	ug/L	20	19.3	96	71-123	
n-Butylbenzene	ug/L	20	21.0	105	77-124	
n-Propylbenzene	ug/L	20	20.0	100	78-120	
Naphthalene	ug/L	20	19.5	97	64-127	
p-Isopropyltoluene	ug/L	20	21.9	110	78-120	
sec-Butylbenzene	ug/L	20	20.8	104	77-122	
Styrene	ug/L	20	19.2	96	79-120	
tert-Butylbenzene	ug/L	20	20.5	103	76-123	
Tetrachloroethene	ug/L	20	20.2	101	79-122	
Toluene	ug/L	20	19.7	99	76-122	
trans-1,2-Dichloroethene	ug/L	20	20.6	103	78-126	
trans-1,3-Dichloropropene	ug/L	20	20.3	102	79-124	
Trichloroethene	ug/L	20	18.8	94	76-120	
Trichlorofluoromethane	ug/L	20	18.7	93	69-133	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

LABORATORY CONTROL SAMPLE: 1196475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	19.0	95	57-140	
Xylene (Total)	ug/L	60	59.7	99	76-122	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Dibromofluoromethane (S)	%			99	80-120	
Toluene-d8 (S)	%			99	80-120	

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QUALITY CONTROL DATA

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

QC Batch: OEXT/38615 Analysis Method: EPA 8270
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
 Associated Lab Samples: 60145559004, 60145559005, 60145559006, 60145559007

METHOD BLANK: 1196090 Matrix: Water

Associated Lab Samples: 60145559004, 60145559005, 60145559006, 60145559007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	05/31/13 10:06	
1,2-Dichlorobenzene	ug/L	ND	10.0	05/31/13 10:06	
1,3-Dichlorobenzene	ug/L	ND	10.0	05/31/13 10:06	
1,4-Dichlorobenzene	ug/L	ND	10.0	05/31/13 10:06	
2,4,5-Trichlorophenol	ug/L	ND	50.0	05/31/13 10:06	
2,4,6-Trichlorophenol	ug/L	ND	10.0	05/31/13 10:06	
2,4-Dichlorophenol	ug/L	ND	10.0	05/31/13 10:06	
2,4-Dimethylphenol	ug/L	ND	10.0	05/31/13 10:06	
2,4-Dinitrophenol	ug/L	ND	50.0	05/31/13 10:06	
2,4-Dinitrotoluene	ug/L	ND	10.0	05/31/13 10:06	
2,6-Dinitrotoluene	ug/L	ND	10.0	05/31/13 10:06	
2-Chloronaphthalene	ug/L	ND	10.0	05/31/13 10:06	
2-Chlorophenol	ug/L	ND	10.0	05/31/13 10:06	
2-Methylnaphthalene	ug/L	ND	10.0	05/31/13 10:06	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	05/31/13 10:06	
2-Nitroaniline	ug/L	ND	50.0	05/31/13 10:06	
2-Nitrophenol	ug/L	ND	10.0	05/31/13 10:06	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	05/31/13 10:06	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	05/31/13 10:06	
3-Nitroaniline	ug/L	ND	50.0	05/31/13 10:06	
4,6-Dinitro-2-methylphenol	ug/L	ND	50.0	05/31/13 10:06	
4-Bromophenylphenyl ether	ug/L	ND	10.0	05/31/13 10:06	
4-Chloro-3-methylphenol	ug/L	ND	20.0	05/31/13 10:06	
4-Chloroaniline	ug/L	ND	20.0	05/31/13 10:06	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	05/31/13 10:06	
4-Nitroaniline	ug/L	ND	50.0	05/31/13 10:06	
4-Nitrophenol	ug/L	ND	50.0	05/31/13 10:06	
Acenaphthene	ug/L	ND	10.0	05/31/13 10:06	
Acenaphthylene	ug/L	ND	10.0	05/31/13 10:06	
Anthracene	ug/L	ND	10.0	05/31/13 10:06	
Benzo(a)anthracene	ug/L	ND	10.0	05/31/13 10:06	
Benzo(a)pyrene	ug/L	ND	10.0	05/31/13 10:06	
Benzo(b)fluoranthene	ug/L	ND	10.0	05/31/13 10:06	
Benzo(g,h,i)perylene	ug/L	ND	10.0	05/31/13 10:06	
Benzo(k)fluoranthene	ug/L	ND	10.0	05/31/13 10:06	
Benzoic acid	ug/L	ND	50.0	05/31/13 10:06	
Benzyl alcohol	ug/L	ND	20.0	05/31/13 10:06	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	05/31/13 10:06	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	05/31/13 10:06	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	05/31/13 10:06	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	05/31/13 10:06	
Butylbenzylphthalate	ug/L	ND	10.0	05/31/13 10:06	
Carbazole	ug/L	ND	10.0	05/31/13 10:06	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

METHOD BLANK: 1196090

Matrix: Water

Associated Lab Samples: 60145559004, 60145559005, 60145559006, 60145559007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chrysene	ug/L	ND	10.0	05/31/13 10:06	
Di-n-butylphthalate	ug/L	ND	10.0	05/31/13 10:06	
Di-n-octylphthalate	ug/L	ND	10.0	05/31/13 10:06	
Dibenz(a,h)anthracene	ug/L	ND	10.0	05/31/13 10:06	
Dibenzofuran	ug/L	ND	10.0	05/31/13 10:06	
Diethylphthalate	ug/L	ND	10.0	05/31/13 10:06	
Dimethylphthalate	ug/L	ND	10.0	05/31/13 10:06	
Fluoranthene	ug/L	ND	10.0	05/31/13 10:06	
Fluorene	ug/L	ND	10.0	05/31/13 10:06	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	05/31/13 10:06	
Hexachlorobenzene	ug/L	ND	10.0	05/31/13 10:06	
Hexachlorocyclopentadiene	ug/L	ND	10.0	05/31/13 10:06	
Hexachloroethane	ug/L	ND	10.0	05/31/13 10:06	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	05/31/13 10:06	
Isophorone	ug/L	ND	10.0	05/31/13 10:06	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	05/31/13 10:06	
N-Nitrosodiphenylamine	ug/L	ND	10.0	05/31/13 10:06	
Naphthalene	ug/L	ND	10.0	05/31/13 10:06	
Nitrobenzene	ug/L	ND	10.0	05/31/13 10:06	
Pentachlorophenol	ug/L	ND	50.0	05/31/13 10:06	
Phenanthrene	ug/L	ND	10.0	05/31/13 10:06	
Phenol	ug/L	ND	10.0	05/31/13 10:06	
Pyrene	ug/L	ND	10.0	05/31/13 10:06	
Pyridine	ug/L	ND	10.0	05/31/13 10:06	
2,4,6-Tribromophenol (S)	%	80	37-120	05/31/13 10:06	
2-Fluorobiphenyl (S)	%	73	15-149	05/31/13 10:06	
2-Fluorophenol (S)	%	41	16-120	05/31/13 10:06	
Nitrobenzene-d5 (S)	%	73	10-159	05/31/13 10:06	
Phenol-d6 (S)	%	28	12-120	05/31/13 10:06	
Terphenyl-d14 (S)	%	81	25-142	05/31/13 10:06	

LABORATORY CONTROL SAMPLE: 1196091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	40.3	81	45-120	
1,2-Dichlorobenzene	ug/L	50	38.2	76	43-120	
1,3-Dichlorobenzene	ug/L	50	36.7	73	42-120	
1,4-Dichlorobenzene	ug/L	50	37.3	75	42-120	
2,4,5-Trichlorophenol	ug/L	50	42J	84	52-120	
2,4,6-Trichlorophenol	ug/L	50	42.6	85	52-120	
2,4-Dichlorophenol	ug/L	50	40.4	81	50-120	
2,4-Dimethylphenol	ug/L	50	37.0	74	37-120	
2,4-Dinitrophenol	ug/L	50	37.3J	75	37-138	
2,4-Dinitrotoluene	ug/L	50	44.9	90	59-120	
2,6-Dinitrotoluene	ug/L	50	42.4	85	58-120	

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QUALITY CONTROL DATA

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

LABORATORY CONTROL SAMPLE: 1196091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloronaphthalene	ug/L	50	40.5	81	51-120	
2-Chlorophenol	ug/L	50	36.5	73	46-120	
2-Methylnaphthalene	ug/L	50	39.6	79	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	33.5	67	38-120	
2-Nitroaniline	ug/L	50	44.2J	88	54-120	
2-Nitrophenol	ug/L	50	40.7	81	48-120	
3&4-Methylphenol(m&p Cresol)	ug/L	50	32.2	64	33-120	
3,3'-Dichlorobenzidine	ug/L	50	44.0	88	16-160	
3-Nitroaniline	ug/L	50	48.7J	97	55-152	
4,6-Dinitro-2-methylphenol	ug/L	50	45.5J	91	50-122	
4-Bromophenylphenyl ether	ug/L	50	43.7	87	58-120	
4-Chloro-3-methylphenol	ug/L	50	43.1	86	52-120	
4-Chloroaniline	ug/L	50	75.6	151	27-160	
4-Chlorophenylphenyl ether	ug/L	50	44.0	88	57-120	
4-Nitroaniline	ug/L	50	43.8J	88	55-152	
4-Nitrophenol	ug/L	50	19.4J	39	10-120	
Acenaphthene	ug/L	50	41.2	82	54-120	
Acenaphthylene	ug/L	50	41.2	82	54-120	
Anthracene	ug/L	50	42.6	85	59-120	
Benzo(a)anthracene	ug/L	50	43.7	87	59-120	
Benzo(a)pyrene	ug/L	50	42.1	84	57-120	
Benzo(b)fluoranthene	ug/L	50	44.9	90	58-120	
Benzo(g,h,i)perylene	ug/L	50	42.4	85	59-120	
Benzo(k)fluoranthene	ug/L	50	41.1	82	59-120	
Benzoic acid	ug/L	50	ND	15	10-120	
Benzyl alcohol	ug/L	50	35.9	72	45-120	
bis(2-Chloroethoxy)methane	ug/L	50	40.9	82	53-120	
bis(2-Chloroethyl) ether	ug/L	50	38.9	78	50-120	
bis(2-Chloroisopropyl) ether	ug/L	50	35.3	71	47-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	44.8	90	58-120	
Butylbenzylphthalate	ug/L	50	44.5	89	55-120	
Carbazole	ug/L	50	42.1	84	61-120	
Chrysene	ug/L	50	42.7	85	60-120	
Di-n-butylphthalate	ug/L	50	44.1	88	60-120	
Di-n-octylphthalate	ug/L	50	43.5	87	54-122	
Dibenz(a,h)anthracene	ug/L	50	43.7	87	59-120	
Dibenzofuran	ug/L	50	41.7	83	56-120	
Diethylphthalate	ug/L	50	43.4	87	58-120	
Dimethylphthalate	ug/L	50	43.1	86	58-120	
Fluoranthene	ug/L	50	43.7	87	59-120	
Fluorene	ug/L	50	43.4	87	57-120	
Hexachloro-1,3-butadiene	ug/L	50	44.0	88	42-120	
Hexachlorobenzene	ug/L	50	45.8	92	58-120	
Hexachlorocyclopentadiene	ug/L	100	58.0	58	29-120	
Hexachloroethane	ug/L	50	38.5	77	39-120	
Indeno(1,2,3-cd)pyrene	ug/L	50	42.9	86	58-120	
Isophorone	ug/L	50	42.0	84	52-120	
N-Nitroso-di-n-propylamine	ug/L	50	40.9	82	48-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

LABORATORY CONTROL SAMPLE: 1196091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
N-Nitrosodiphenylamine	ug/L	50	41.8	84	56-120	
Naphthalene	ug/L	50	39.1	78	49-120	
Nitrobenzene	ug/L	50	41.5	83	47-120	
Pentachlorophenol	ug/L	50	44.3J	89	45-120	
Phenanthrene	ug/L	50	42.1	84	60-120	
Phenol	ug/L	50	16.2	32	15-120	
Pyrene	ug/L	50	44.0	88	59-120	
Pyridine	ug/L	50	15.3	31	10-120	
2,4,6-Tribromophenol (S)	%			94	37-120	
2-Fluorobiphenyl (S)	%			82	15-149	
2-Fluorophenol (S)	%			43	16-120	
Nitrobenzene-d5 (S)	%			81	10-159	
Phenol-d6 (S)	%			30	12-120	
Terphenyl-d14 (S)	%			89	25-142	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

QC Batch: WET/41551

Analysis Method: SM 2540B

QC Batch Method: SM 2540B

Analysis Description: 2540B Total Solids

Associated Lab Samples: 60145559003

METHOD BLANK: 1195986

Matrix: Water

Associated Lab Samples: 60145559003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Solids	mg/L	ND	5.0	05/29/13 17:22	

LABORATORY CONTROL SAMPLE: 1195987

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	mg/L	1000	1040	104	80-120	

SAMPLE DUPLICATE: 1195988

Parameter	Units	60145208001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	mg/L	17200	17000	1	10	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

QC Batch:	WETA/24965	Analysis Method:	EPA 9060
QC Batch Method:	EPA 9060	Analysis Description:	9060 TOC
Associated Lab Samples:	60145559002		

METHOD BLANK: 1198515 Matrix: Water

Associated Lab Samples: 60145559002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mean Total Organic Carbon	mg/L	ND	1.0	06/04/13 10:26	
Total Organic Carbon	mg/L	ND	1.0	06/04/13 10:26	
Total Organic Carbon	mg/L	ND	1.0	06/04/13 10:26	
Total Organic Carbon	mg/L	ND	1.0	06/04/13 10:26	
Total Organic Carbon	mg/L	ND	1.0	06/04/13 10:26	

LABORATORY CONTROL SAMPLE: 1198516

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	4.9	98	84-120	
Total Organic Carbon	mg/L	5	5.0	99	84-120	
Total Organic Carbon	mg/L	5	4.9	99	84-120	
Total Organic Carbon	mg/L	5	4.9	97	84-120	

MATRIX SPIKE SAMPLE: 1198517

Parameter	Units	60145559002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mean Total Organic Carbon	mg/L	17900	5000	22400	91	59-144	
Total Organic Carbon	mg/L	17900	5000	22500	91	59-144	
Total Organic Carbon	mg/L	17900	5000	22200	87	59-144	
Total Organic Carbon	mg/L	17600	5000	22300	93	59-144	
Total Organic Carbon	mg/L	18000	5000	22600	92	59-144	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: UNTREATED COMMINGLED

Pace Project No.: 60145559

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/38615

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

Batch: MSV/54015

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

ANALYTE QUALIFIERS

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

Pace Project No.: 60145559

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145559004	UNTREATED COMMINGLED (5/23) 25	EPA 3510	OEXT/38615	EPA 8270	MSSV/12212
60145559005	UNTREATED COMMINGLED (5/23) 26	EPA 3510	OEXT/38615	EPA 8270	MSSV/12212
60145559006	UNTREATED COMMINGLED (5/23) 27	EPA 3510	OEXT/38615	EPA 8270	MSSV/12212
60145559007	UNTREATED COMMINGLED (5/23) 28	EPA 3510	OEXT/38615	EPA 8270	MSSV/12212
60145559001	UNTREATD COMMINGLEDTCLP(5/23)7	EPA 8260	MSV/54013		
60145559004	UNTREATED COMMINGLED (5/23) 25	EPA 5030B/8260	MSV/54015		
60145559005	UNTREATED COMMINGLED (5/23) 26	EPA 5030B/8260	MSV/54015		
60145559006	UNTREATED COMMINGLED (5/23) 27	EPA 5030B/8260	MSV/54015		
60145559007	UNTREATED COMMINGLED (5/23) 28	EPA 5030B/8260	MSV/54015		
60145559008	TRIP BLANK	EPA 5030B/8260	MSV/54015		
60145559003	UNTREATED COMMINGLEDTS(5/23) 7	SM 2540B	WET/41551		
60145559002	UNTREATED COMMINGLEDTOC(5/23)7	EPA 9060	WETA/24965		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60145559



Client Name: Bart 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 PLS-25-13

Packing Material: Bubble Wrap Bubble Bags Foam None Other 2 PIC

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

Cooler Temperature: 6.8

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: PLS-25-13

Temperature should be above freezing to 6°C

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.	
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Includes date/time/ID/analyses Matrix: <u>WT</u>		13.	
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Exceptions: <u>VOA</u> , coliform, <u>TDC</u> O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed	Lot # of added preservative
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank lot # (if purchased): <u>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: [Signature]

Date: 5/28/13

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: BARR ENGINEERING		Report To: ED GALBRAITH		Attention:	
Address:		Copy To: SCOTT FEDAK/BRIDGETON LANDFILL		Company Name:	
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 checked="" type="checkbox"/> RCRA	<input type="checkbox"/> OTHER
Site Location	MO	
STATE:	<u> </u>	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							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		
1	UNTREATED COMMINGLED TCLP (5/23/13)		OT	G	--	--	5/23/13	1707	4	4																1w6Fu 3D66u	u1	
2	UNTREATED COMMINGLED TOC (5/23/13)				--	--		1717	1	1																1A63S	u2	
3	UNTREATED COMMINGLED SOLIDS (5/23/13)				--	--		1727	1	1																1BP3u	u3	
4	UNTREATED COMMINGLED VOX/VOA (5/23/13)				--	--		1735	5	2			3													2D66H 2A61u	u4	
5	UNTREATED COMMINGLED VOX/VOA (5/23/13)				--	--		1746																				
6	UNTREATED COMMINGLED VOX/VOA (5/23/13)				--	--		1757																				
7	UNTREATED COMMINGLED VOX/VOA (5/23/13)				--	--		1818																				
8	Trip Blank				--	--		--	3				2														2D66H	u8
9	(Large blue scribble across rows 9-12)																											
10	(Large blue scribble across rows 9-12)																											
11	(Large blue scribble across rows 9-12)																											
12	(Large blue scribble across rows 9-12)																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
Note: HCL preservative in VOA vials may be low due to difficulty filling VOA vials.	Scott G Fedak / LBG	5/23/13	1955	Scott G Fedak / LBG	5/24/13	0600			
	Scott G Fedak / LBG	5/24/13	1555	Scott G Fedak / LBG	5/24/13	1555			
				PT 52	5/25	0315	OE	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: <u>SCOTT C. FEDAK</u>				
SIGNATURE of SAMPLER: <u>Scott C. Fedak</u>				
DATE Signed (MM/DD/YY): <u>05/23/13</u>				

June 04, 2013

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

RE: Project: BRIDGETON LF 157-MSD
Pace Project No.: 60145606

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 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 157-MSD

Pace Project No.: 60145606

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 157-MSD

Pace Project No.: 60145606

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145606001	157-MSD	Water	05/27/13 13:57	05/29/13 03:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145606

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145606001	157-MSD	SM 5210B	NDL	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145606

Sample: 157-MSD	Lab ID: 60145606001	Collected: 05/27/13 13:57	Received: 05/29/13 03:35	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	29400	mg/L	2.0	1	05/29/13 11:54	06/03/13 10:37		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145606

QC Batch: WET/41543

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60145606001

METHOD BLANK: 1195575

Matrix: Water

Associated Lab Samples: 60145606001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/03/13 10:32	

LABORATORY CONTROL SAMPLE: 1195576

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

SAMPLE DUPLICATE: 1195577

Parameter	Units	60145606001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	29400	27800	5	17	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145606

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 157-MSD

Pace Project No.: 60145606

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145606001	157-MSD	SM 5210B	WET/41543	SM 5210B	WET/41624

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60145606



60145606

Client Name: Barr Eng

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 [] None [] Other [X] 2 PK

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

Cooler Temperature: 2-2

Date and initials of person examining contents: [Signature] 5-29-13

Temperature should be above freezing to 6°C

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

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: 5/29/13

June 05, 2013

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

RE: Project: BRIDGETON LF 157-MSD
Pace Project No.: 60145607

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 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 157-MSD

Pace Project No.: 60145607

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 157-MSD

Pace Project No.: 60145607

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145607001	157-MSD	Water	05/27/13 13:57	05/29/13 03:35
60145607002	TRIP BLANK	Water	05/27/13 00:00	05/29/13 03:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145607001	157-MSD	EPA 200.7	SMW	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	JKL	38
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAS	1
		SM 4500-H+B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
		60145607002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

Sample: 157-MSD		Lab ID: 60145607001	Collected: 05/27/13 13:57	Received: 05/29/13 03:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	8430	ug/L	150	2	05/31/13 16:30	06/04/13 14:10	7429-90-5	
Antimony	40.8	ug/L	20.0	2	05/31/13 16:30	06/04/13 14:10	7440-36-0	
Arsenic	637	ug/L	20.0	2	05/31/13 16:30	06/04/13 14:10	7440-38-2	
Beryllium	ND	ug/L	2.0	2	05/31/13 16:30	06/04/13 14:10	7440-41-7	D3
Cadmium	ND	ug/L	10.0	2	05/31/13 16:30	06/04/13 14:10	7440-43-9	
Chromium	239	ug/L	25.0	5	05/31/13 16:30	06/04/13 14:28	7440-47-3	
Cobalt	33.2	ug/L	10.0	2	05/31/13 16:30	06/04/13 14:10	7440-48-4	
Copper	25.3	ug/L	20.0	2	05/31/13 16:30	06/04/13 14:10	7440-50-8	
Iron	708000	ug/L	100	2	05/31/13 16:30	06/04/13 14:10	7439-89-6	
Lead	112	ug/L	10.0	2	05/31/13 16:30	06/04/13 14:10	7439-92-1	
Nickel	112	ug/L	10.0	2	05/31/13 16:30	06/04/13 14:10	7440-02-0	
Selenium	98.6	ug/L	75.0	5	05/31/13 16:30	06/04/13 14:28	7782-49-2	
Silver	ND	ug/L	14.0	2	05/31/13 16:30	06/04/13 14:10	7440-22-4	
Thallium	ND	ug/L	100	5	05/31/13 16:30	06/04/13 14:28	7440-28-0	D3
Zinc	15300	ug/L	100	2	05/31/13 16:30	06/04/13 14:10	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	4710	ug/L	150	2	05/30/13 17:40	05/31/13 11:18	7429-90-5	
Antimony, Dissolved	28.7	ug/L	20.0	2	05/30/13 17:40	05/31/13 11:18	7440-36-0	
Arsenic, Dissolved	620	ug/L	20.0	2	05/30/13 17:40	05/31/13 11:18	7440-38-2	
Beryllium, Dissolved	ND	ug/L	2.0	2	05/30/13 17:40	05/31/13 11:18	7440-41-7	D3
Cadmium, Dissolved	ND	ug/L	10.0	2	05/30/13 17:40	05/31/13 11:18	7440-43-9	D3
Chromium, Dissolved	230	ug/L	15.0	3	05/30/13 17:40	05/31/13 11:40	7440-47-3	
Cobalt, Dissolved	31.4	ug/L	10.0	2	05/30/13 17:40	05/31/13 11:18	7440-48-4	
Copper, Dissolved	ND	ug/L	20.0	2	05/30/13 17:40	05/31/13 11:18	7440-50-8	D3
Iron, Dissolved	680000	ug/L	100	2	05/30/13 17:40	05/31/13 11:18	7439-89-6	
Lead, Dissolved	108	ug/L	10.0	2	05/30/13 17:40	05/31/13 11:18	7439-92-1	
Nickel, Dissolved	99.2	ug/L	10.0	2	05/30/13 17:40	05/31/13 11:18	7440-02-0	
Selenium, Dissolved	ND	ug/L	45.0	3	05/30/13 17:40	05/31/13 11:40	7782-49-2	D3
Silver, Dissolved	ND	ug/L	14.0	2	05/30/13 17:40	05/31/13 11:18	7440-22-4	D3
Thallium, Dissolved	ND	ug/L	60.0	3	05/30/13 17:40	05/31/13 11:40	7440-28-0	D3
Zinc, Dissolved	14900	ug/L	100	2	05/30/13 17:40	05/31/13 11:18	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	5.4	ug/L	0.20	1	06/03/13 16:05	06/04/13 11:33	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	05/29/13 16:45	05/30/13 10:42	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND	ug/L	2500	50	05/31/13 00:00	06/03/13 22:10	83-32-9	
Acenaphthylene	ND	ug/L	2500	50	05/31/13 00:00	06/03/13 22:10	208-96-8	
Anthracene	ND	ug/L	2500	50	05/31/13 00:00	06/03/13 22:10	120-12-7	
Benzidine	ND	ug/L	25000	50	05/31/13 00:00	06/03/13 22:10	92-87-5	
Benzo(a)anthracene	ND	ug/L	2500	50	05/31/13 00:00	06/03/13 22:10	56-55-3	
Benzo(a)pyrene	ND	ug/L	2500	50	05/31/13 00:00	06/03/13 22:10	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

Sample: 157-MSD		Lab ID: 60145607001	Collected: 05/27/13 13:57	Received: 05/29/13 03:35	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		2500	50	05/31/13 00:00	06/03/13 22:10	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	191-24-2	
Benzo(k)fluoranthene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	207-08-9	
4-Bromophenylphenyl ether	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	101-55-3	
Butylbenzylphthalate	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	85-68-7	
4-Chloro-3-methylphenol	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	59-50-7	
bis(2-Chloroethoxy)methane	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		3000	50	05/31/13 00:00	06/03/13 22:10	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		3000	50	05/31/13 00:00	06/03/13 22:10	39638-32-9	
2-Chloronaphthalene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	91-58-7	
2-Chlorophenol	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	7005-72-3	
Chrysene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	53-70-3	
3,3'-Dichlorobenzidine	ND ug/L		10000	50	05/31/13 00:00	06/03/13 22:10	91-94-1	
2,4-Dichlorophenol	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	120-83-2	
Diethylphthalate	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	84-66-2	
2,4-Dimethylphenol	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	105-67-9	
Dimethylphthalate	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	131-11-3	
Di-n-butylphthalate	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		12500	50	05/31/13 00:00	06/03/13 22:10	534-52-1	
2,4-Dinitrophenol	ND ug/L		25000	50	05/31/13 00:00	06/03/13 22:10	51-28-5	
2,4-Dinitrotoluene	ND ug/L		3000	50	05/31/13 00:00	06/03/13 22:10	121-14-2	
2,6-Dinitrotoluene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	606-20-2	
Di-n-octylphthalate	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	117-81-7	
Fluoranthene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	206-44-0	
Fluorene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	87-68-3	
Hexachlorobenzene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	77-47-4	
Hexachloroethane	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	193-39-5	
Isophorone	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	78-59-1	
Naphthalene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	91-20-3	
Nitrobenzene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	98-95-3	
2-Nitrophenol	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	88-75-5	
4-Nitrophenol	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	100-02-7	
N-Nitrosodimethylamine	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	86-30-6	
Pentachlorophenol	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	87-86-5	
Phenanthrene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	85-01-8	
Phenol	12800 ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	108-95-2	
Pyrene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:10	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

Sample: 157-MSD		Lab ID: 60145607001	Collected: 05/27/13 13:57	Received: 05/29/13 03:35	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	50	05/31/13 00:00	06/03/13 22:10	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	50	05/31/13 00:00	06/03/13 22:10	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	50	05/31/13 00:00	06/03/13 22:10	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	50	05/31/13 00:00	06/03/13 22:10	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	50	05/31/13 00:00	06/03/13 22:10	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	50	05/31/13 00:00	06/03/13 22:10	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		05/30/13 14:37	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/30/13 14:37	75-27-4	
Bromoform	ND ug/L		200	200		05/30/13 14:37	75-25-2	
Bromomethane	ND ug/L		1000	200		05/30/13 14:37	74-83-9	L3
Carbon tetrachloride	ND ug/L		200	200		05/30/13 14:37	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/30/13 14:37	108-90-7	
Chloroethane	ND ug/L		200	200		05/30/13 14:37	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/30/13 14:37	110-75-8	
Chloroform	ND ug/L		200	200		05/30/13 14:37	67-66-3	
Chloromethane	ND ug/L		200	200		05/30/13 14:37	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/30/13 14:37	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/30/13 14:37	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/30/13 14:37	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/30/13 14:37	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/30/13 14:37	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/30/13 14:37	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/30/13 14:37	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/30/13 14:37	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/30/13 14:37	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/30/13 14:37	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/30/13 14:37	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/30/13 14:37	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/30/13 14:37	100-41-4	
Methylene chloride	ND ug/L		200	200		05/30/13 14:37	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/30/13 14:37	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/30/13 14:37	127-18-4	
Toluene	ND ug/L		200	200		05/30/13 14:37	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/30/13 14:37	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/30/13 14:37	79-00-5	
Trichloroethene	ND ug/L		200	200		05/30/13 14:37	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/30/13 14:37	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/30/13 14:37	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/30/13 14:37	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	100 %		80-120	200		05/30/13 14:37	1868-53-7	D3
4-Bromofluorobenzene (S)	100 %		80-120	200		05/30/13 14:37	460-00-4	
Toluene-d8 (S)	101 %		80-120	200		05/30/13 14:37	2037-26-5	
1,2-Dichloroethane-d4 (S)	95 %		80-120	200		05/30/13 14:37	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

Sample: 157-MSD		Lab ID: 60145607001	Collected: 05/27/13 13:57	Received: 05/29/13 03:35	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		05/30/13 14:37		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	211	mg/L	5.0	1		06/01/13 08:00		
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	ND	mg/L	5.0	1		06/03/13 08:28		
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	730	mg/L	5.0	1		05/30/13 08:37		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.5	Std. Units	0.10	1		05/29/13 15:30		H6
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	572	mg/L	20.0	200		05/30/13 15:34	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	45500	mg/L	5000	500		06/04/13 08:08		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

Sample: TRIP BLANK		Lab ID: 60145607002	Collected: 05/27/13 00:00	Received: 05/29/13 03:35	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		05/30/13 12:30	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		05/30/13 12:30	75-27-4	
Bromoform	ND ug/L		1.0	1		05/30/13 12:30	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/30/13 12:30	74-83-9	L3
Carbon tetrachloride	ND ug/L		1.0	1		05/30/13 12:30	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/30/13 12:30	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/30/13 12:30	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		05/30/13 12:30	110-75-8	
Chloroform	ND ug/L		1.0	1		05/30/13 12:30	67-66-3	
Chloromethane	ND ug/L		1.0	1		05/30/13 12:30	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		05/30/13 12:30	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/30/13 12:30	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/30/13 12:30	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/30/13 12:30	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		05/30/13 12:30	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/30/13 12:30	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/30/13 12:30	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/30/13 12:30	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/30/13 12:30	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		05/30/13 12:30	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		05/30/13 12:30	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		05/30/13 12:30	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		05/30/13 12:30	100-41-4	
Methylene chloride	ND ug/L		1.0	1		05/30/13 12:30	75-09-2	
1,1,1,2-Tetrachloroethane	ND ug/L		1.0	1		05/30/13 12:30	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/30/13 12:30	127-18-4	
Toluene	ND ug/L		1.0	1		05/30/13 12:30	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/30/13 12:30	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/30/13 12:30	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/30/13 12:30	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/30/13 12:30	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		05/30/13 12:30	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/30/13 12:30	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97 %		80-120	1		05/30/13 12:30	1868-53-7	
4-Bromofluorobenzene (S)	98 %		80-120	1		05/30/13 12:30	460-00-4	
Toluene-d8 (S)	103 %		80-120	1		05/30/13 12:30	2037-26-5	
1,2-Dichloroethane-d4 (S)	87 %		80-120	1		05/30/13 12:30	17060-07-0	
Preservation pH	7.0			1		05/30/13 12:30		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD
Pace Project No.: 60145607

QC Batch: MERP/7394 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
Associated Lab Samples: 60145607001

METHOD BLANK: 1198285 Matrix: Water
Associated Lab Samples: 60145607001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/04/13 11:28	

LABORATORY CONTROL SAMPLE: 1198286

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: 1198287 1198288

Parameter	Units	60145680001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Mercury	ug/L	ND	5	5	4.2	4.1	84	82	70-130	2	20	

MATRIX SPIKE SAMPLE: 1198289

Parameter	Units	60145970001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	3.0	59	70-130	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD
Pace Project No.: 60145607

QC Batch: MERP/7386 Analysis Method: EPA 245.1
QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury - Dissolved
Associated Lab Samples: 60145607001

METHOD BLANK: 1195833 Matrix: Water
Associated Lab Samples: 60145607001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/30/13 10:22	

LABORATORY CONTROL SAMPLE: 1195834

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1195835 1195836

Parameter	Units	60145231001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Mercury, Dissolved	ug/L				4.5	4.6					1	20	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

QC Batch: MPRP/22876

Analysis Method: EPA 200.7

QC Batch Method: EPA 200.7

Analysis Description: 200.7 Metals, Total

Associated Lab Samples: 60145607001

METHOD BLANK: 1197479

Matrix: Water

Associated Lab Samples: 60145607001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/04/13 14:06	
Antimony	ug/L	ND	10.0	06/04/13 14:06	
Arsenic	ug/L	ND	10.0	06/04/13 14:06	
Beryllium	ug/L	ND	1.0	06/04/13 14:06	
Cadmium	ug/L	ND	5.0	06/04/13 14:06	
Chromium	ug/L	ND	5.0	06/04/13 14:06	
Cobalt	ug/L	ND	5.0	06/04/13 14:06	
Copper	ug/L	ND	10.0	06/04/13 14:06	
Iron	ug/L	ND	50.0	06/04/13 14:06	
Lead	ug/L	ND	5.0	06/04/13 14:06	
Nickel	ug/L	ND	5.0	06/04/13 14:06	
Selenium	ug/L	ND	15.0	06/04/13 14:06	
Silver	ug/L	ND	7.0	06/04/13 14:06	
Thallium	ug/L	ND	20.0	06/04/13 14:06	
Zinc	ug/L	ND	50.0	06/04/13 14:06	

LABORATORY CONTROL SAMPLE: 1197480

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	8900	89	85-115	
Antimony	ug/L	1000	945	95	85-115	
Arsenic	ug/L	1000	902	90	85-115	
Beryllium	ug/L	1000	915	91	85-115	
Cadmium	ug/L	1000	913	91	85-115	
Chromium	ug/L	1000	917	92	85-115	
Cobalt	ug/L	1000	930	93	85-115	
Copper	ug/L	1000	915	92	85-115	
Iron	ug/L	10000	9070	91	85-115	
Lead	ug/L	1000	959	96	85-115	
Nickel	ug/L	1000	964	96	85-115	
Selenium	ug/L	1000	915	92	85-115	
Silver	ug/L	500	467	93	85-115	
Thallium	ug/L	1000	960	96	85-115	
Zinc	ug/L	1000	928	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1197481

1197482

Parameter	Units	60145609001		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	8810	10000	10000	22400	22200	136	134	70-130	1	8	M1	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1197481 1197482												
Parameter	Units	60145609001		MS	MSD	MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Antimony	ug/L	34.3	1000	1000	1010	1010	98	97	70-130	1	7	
Arsenic	ug/L	654	1000	1000	1930	1890	128	124	70-130	2	10	
Beryllium	ug/L	ND	1000	1000	915	898	91	90	70-130	2	7	
Cadmium	ug/L	ND	1000	1000	1090	1070	109	107	70-130	2	10	
Chromium	ug/L	244	1000	1000	1210	1200	96	95	70-130	1	10	
Cobalt	ug/L	29.7	1000	1000	933	920	90	89	70-130	1	6	
Copper	ug/L	ND	1000	1000	1120	1110	110	109	70-130	1	11	
Iron	ug/L	788000	10000	10000	804000	792000	158	44	70-130	1	10	M1
Lead	ug/L	117	1000	1000	969	959	85	84	70-130	1	10	
Nickel	ug/L	105	1000	1000	1010	992	90	89	70-130	2	10	
Selenium	ug/L	76.0	1000	1000	1260	1310	119	124	70-130	4	10	
Silver	ug/L	ND	500	500	29.3	30.7	5	5	70-130	5	10	M1
Thallium	ug/L	ND	1000	1000	815	808	82	81	70-130	1	6	
Zinc	ug/L	14200	1000	1000	15100	14900	93	72	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD
Pace Project No.: 60145607

QC Batch: MPRP/22859 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Dissolved
Associated Lab Samples: 60145607001

METHOD BLANK: 1196732 Matrix: Water
Associated Lab Samples: 60145607001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	05/31/13 11:01	
Antimony, Dissolved	ug/L	ND	10.0	05/31/13 11:01	
Arsenic, Dissolved	ug/L	ND	10.0	05/31/13 11:01	
Beryllium, Dissolved	ug/L	ND	1.0	05/31/13 11:01	
Cadmium, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Chromium, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Cobalt, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Copper, Dissolved	ug/L	ND	10.0	05/31/13 11:01	
Iron, Dissolved	ug/L	ND	50.0	05/31/13 11:01	
Lead, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Nickel, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Selenium, Dissolved	ug/L	ND	15.0	05/31/13 11:01	
Silver, Dissolved	ug/L	ND	7.0	05/31/13 11:01	
Thallium, Dissolved	ug/L	ND	20.0	05/31/13 11:01	
Zinc, Dissolved	ug/L	ND	50.0	05/31/13 11:01	

LABORATORY CONTROL SAMPLE: 1196733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9490	95	85-115	
Antimony, Dissolved	ug/L	1000	984	98	85-115	
Arsenic, Dissolved	ug/L	1000	978	98	85-115	
Beryllium, Dissolved	ug/L	1000	992	99	85-115	
Cadmium, Dissolved	ug/L	1000	982	98	85-115	
Chromium, Dissolved	ug/L	1000	991	99	85-115	
Cobalt, Dissolved	ug/L	1000	1010	101	85-115	
Copper, Dissolved	ug/L	1000	961	96	85-115	
Iron, Dissolved	ug/L	10000	9640	96	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1020	102	85-115	
Selenium, Dissolved	ug/L	1000	970	97	85-115	
Silver, Dissolved	ug/L	500	484	97	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	1030	103	85-115	

MATRIX SPIKE SAMPLE: 1196734

Parameter	Units	60145428001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	4800	10000	15100	103	70-130	
Antimony, Dissolved	ug/L	30.2	1000	1070	104	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

MATRIX SPIKE SAMPLE:		1196734					
Parameter	Units	60145428001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	717	1000	2000	129	70-130	
Beryllium, Dissolved	ug/L	ND	1000	927	93	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1100	110	70-130	
Chromium, Dissolved	ug/L	226	1000	1180	95	70-130	
Cobalt, Dissolved	ug/L	25.8	1000	953	93	70-130	
Copper, Dissolved	ug/L	ND	1000	1120	110	70-130	
Iron, Dissolved	ug/L	687000	10000	713000	256	70-130	M1
Lead, Dissolved	ug/L	86.0	1000	955	87	70-130	
Nickel, Dissolved	ug/L	84.5	1000	995	91	70-130	
Selenium, Dissolved	ug/L	ND	1000	1310	131	70-130	M1
Silver, Dissolved	ug/L	ND	500	72.8	13	70-130	M1
Thallium, Dissolved	ug/L	ND	1000	764	76	70-130	
Zinc, Dissolved	ug/L	16600	1000	17400	82	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

QC Batch: MSV/54002 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60145607001, 60145607002

METHOD BLANK: 1196201 Matrix: Water

Associated Lab Samples: 60145607001, 60145607002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1-Dichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1-Dichloroethene	ug/L	ND	1.0	05/30/13 11:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
1,2-Dichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,2-Dichloropropane	ug/L	ND	1.0	05/30/13 11:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
2-Chloroethylvinyl ether	ug/L	ND	10.0	05/30/13 11:27	
Benzene	ug/L	ND	1.0	05/30/13 11:27	
Bromodichloromethane	ug/L	ND	1.0	05/30/13 11:27	
Bromoform	ug/L	ND	1.0	05/30/13 11:27	
Bromomethane	ug/L	ND	5.0	05/30/13 11:27	
Carbon tetrachloride	ug/L	ND	1.0	05/30/13 11:27	
Chlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
Chloroethane	ug/L	ND	1.0	05/30/13 11:27	
Chloroform	ug/L	ND	1.0	05/30/13 11:27	
Chloromethane	ug/L	ND	1.0	05/30/13 11:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/30/13 11:27	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/30/13 11:27	
Dibromochloromethane	ug/L	ND	1.0	05/30/13 11:27	
Ethylbenzene	ug/L	ND	1.0	05/30/13 11:27	
Methylene chloride	ug/L	ND	1.0	05/30/13 11:27	
Tetrachloroethene	ug/L	ND	1.0	05/30/13 11:27	
Toluene	ug/L	ND	1.0	05/30/13 11:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/30/13 11:27	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/30/13 11:27	
Trichloroethene	ug/L	ND	1.0	05/30/13 11:27	
Trichlorofluoromethane	ug/L	ND	1.0	05/30/13 11:27	
Vinyl chloride	ug/L	ND	1.0	05/30/13 11:27	
Xylene (Total)	ug/L	ND	3.0	05/30/13 11:27	
1,2-Dichloroethane-d4 (S)	%	90	80-120	05/30/13 11:27	
4-Bromofluorobenzene (S)	%	102	80-120	05/30/13 11:27	
Dibromofluoromethane (S)	%	101	80-120	05/30/13 11:27	
Toluene-d8 (S)	%	102	80-120	05/30/13 11:27	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

LABORATORY CONTROL SAMPLE: 1196202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.0	105	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	98	59-138	
1,1,2-Trichloroethane	ug/L	20	19.4	97	69-127	
1,1-Dichloroethane	ug/L	20	19.2	96	69-126	
1,1-Dichloroethene	ug/L	20	21.2	106	65-153	
1,2-Dichlorobenzene	ug/L	20	19.6	98	66-126	
1,2-Dichloroethane	ug/L	20	19.1	95	71-129	
1,2-Dichloropropane	ug/L	20	21.7	108	66-140	
1,3-Dichlorobenzene	ug/L	20	19.7	99	63-127	
1,4-Dichlorobenzene	ug/L	20	19.2	96	68-124	
2-Chloroethylvinyl ether	ug/L	20	28.4	142	33-159	
Benzene	ug/L	20	21.6	108	73-129	
Bromodichloromethane	ug/L	20	20.0	100	63-129	
Bromoform	ug/L	20	19.0	95	52-123	
Bromomethane	ug/L	20	32.3	162	10-160	L0
Carbon tetrachloride	ug/L	20	20.9	105	70-140	
Chlorobenzene	ug/L	20	20.4	102	68-127	
Chloroethane	ug/L	20	21.9	109	42-160	
Chloroform	ug/L	20	20.0	100	60-120	
Chloromethane	ug/L	20	22.8	114	10-160	
cis-1,2-Dichloroethene	ug/L	20	20.8	104	70-125	
cis-1,3-Dichloropropene	ug/L	20	21.2	106	66-132	
Dibromochloromethane	ug/L	20	19.3	96	63-134	
Ethylbenzene	ug/L	20	20.6	103	66-133	
Methylene chloride	ug/L	20	19.9	99	56-135	
Tetrachloroethene	ug/L	20	21.4	107	64-143	
Toluene	ug/L	20	21.4	107	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	67-149	
trans-1,3-Dichloropropene	ug/L	20	22.6	113	66-138	
Trichloroethene	ug/L	20	20.1	101	71-130	
Trichlorofluoromethane	ug/L	20	17.4	87	58-158	
Vinyl chloride	ug/L	20	20.7	103	41-160	
Xylene (Total)	ug/L	60	61.8	103	67-130	
1,2-Dichloroethane-d4 (S)	%			90	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Dibromofluoromethane (S)	%			93	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1196203

Parameter	Units	60145428001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4330	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4250	106	46-157	
1,1,2-Trichloroethane	ug/L	ND	4000	4060	101	52-150	
1,1-Dichloroethane	ug/L	ND	4000	3960	99	59-155	
1,1-Dichloroethene	ug/L	ND	4000	4310	108	14-160	
1,2-Dichlorobenzene	ug/L	ND	4000	4080	102	18-145	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

MATRIX SPIKE SAMPLE:		1196203					
Parameter	Units	60145428001 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	4420	111	12-160	
1,3-Dichlorobenzene	ug/L	ND	4000	4130	103	59-146	
1,4-Dichlorobenzene	ug/L	ND	4000	4230	104	18-147	
2-Chloroethylvinyl ether	ug/L	ND	4000	7760	194	10-160	M1
Benzene	ug/L	ND	4000	4370	109	37-151	
Bromodichloromethane	ug/L	ND	4000	4010	100	35-155	
Bromoform	ug/L	ND	4000	3830	96	45-133	
Bromomethane	ug/L	ND	4000	4760	119	10-160	
Carbon tetrachloride	ug/L	ND	4000	4220	106	70-140	
Chlorobenzene	ug/L	ND	4000	4190	105	37-153	
Chloroethane	ug/L	ND	4000	3710	93	14-160	
Chloroform	ug/L	ND	4000	4090	101	51-138	
Chloromethane	ug/L	ND	4000	4250	106	10-160	
cis-1,2-Dichloroethene	ug/L	ND	4000	4270	107	19-160	
cis-1,3-Dichloropropene	ug/L	ND	4000	4220	106	10-160	
Dibromochloromethane	ug/L	ND	4000	3990	100	53-149	
Ethylbenzene	ug/L	ND	4000	4290	107	37-154	
Methylene chloride	ug/L	ND	4000	4010	100	15-156	
Tetrachloroethene	ug/L	ND	4000	4310	108	64-148	
Toluene	ug/L	ND	4000	4390	110	47-150	
trans-1,2-Dichloroethene	ug/L	ND	4000	4060	102	54-156	
trans-1,3-Dichloropropene	ug/L	ND	4000	4580	114	17-160	
Trichloroethene	ug/L	ND	4000	4070	102	71-157	
Trichlorofluoromethane	ug/L	ND	4000	3610	90	17-160	
Vinyl chloride	ug/L	ND	4000	3790	95	10-160	
Xylene (Total)	ug/L	ND	12000	12700	106	12-153	
1,2-Dichloroethane-d4 (S)	%					92	80-120
4-Bromofluorobenzene (S)	%					102	80-120
Dibromofluoromethane (S)	%					93	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 157-MSD
Pace Project No.: 60145607

QC Batch: OEXT/38637 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60145607001

METHOD BLANK: 1196802 Matrix: Water
Associated Lab Samples: 60145607001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/03/13 20:46	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/03/13 20:46	
2,4-Dichlorophenol	ug/L	ND	5.0	06/03/13 20:46	
2,4-Dimethylphenol	ug/L	ND	5.0	06/03/13 20:46	
2,4-Dinitrophenol	ug/L	ND	50.0	06/03/13 20:46	
2,4-Dinitrotoluene	ug/L	ND	6.0	06/03/13 20:46	
2,6-Dinitrotoluene	ug/L	ND	5.0	06/03/13 20:46	
2-Chloronaphthalene	ug/L	ND	5.0	06/03/13 20:46	
2-Chlorophenol	ug/L	ND	5.0	06/03/13 20:46	
2-Nitrophenol	ug/L	ND	5.0	06/03/13 20:46	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	06/03/13 20:46	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/03/13 20:46	
4-Bromophenylphenyl ether	ug/L	ND	5.0	06/03/13 20:46	
4-Chloro-3-methylphenol	ug/L	ND	5.0	06/03/13 20:46	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	06/03/13 20:46	
4-Nitrophenol	ug/L	ND	5.0	06/03/13 20:46	
Acenaphthene	ug/L	ND	5.0	06/03/13 20:46	
Acenaphthylene	ug/L	ND	5.0	06/03/13 20:46	
Anthracene	ug/L	ND	5.0	06/03/13 20:46	
Benzidine	ug/L	ND	50.0	06/03/13 20:46	
Benzo(a)anthracene	ug/L	ND	5.0	06/03/13 20:46	
Benzo(a)pyrene	ug/L	ND	5.0	06/03/13 20:46	
Benzo(b)fluoranthene	ug/L	ND	5.0	06/03/13 20:46	
Benzo(g,h,i)perylene	ug/L	ND	5.0	06/03/13 20:46	
Benzo(k)fluoranthene	ug/L	ND	5.0	06/03/13 20:46	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	06/03/13 20:46	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	06/03/13 20:46	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	06/03/13 20:46	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	06/03/13 20:46	
Butylbenzylphthalate	ug/L	ND	5.0	06/03/13 20:46	
Chrysene	ug/L	ND	5.0	06/03/13 20:46	
Di-n-butylphthalate	ug/L	ND	5.0	06/03/13 20:46	
Di-n-octylphthalate	ug/L	ND	5.0	06/03/13 20:46	
Dibenz(a,h)anthracene	ug/L	ND	5.0	06/03/13 20:46	
Diethylphthalate	ug/L	ND	5.0	06/03/13 20:46	
Dimethylphthalate	ug/L	ND	5.0	06/03/13 20:46	
Fluoranthene	ug/L	ND	5.0	06/03/13 20:46	
Fluorene	ug/L	ND	5.0	06/03/13 20:46	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/03/13 20:46	
Hexachlorobenzene	ug/L	ND	5.0	06/03/13 20:46	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/03/13 20:46	
Hexachloroethane	ug/L	ND	5.0	06/03/13 20:46	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	06/03/13 20:46	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD
Project No.: 60145607

METHOD BLANK: 1196802 Matrix: Water

Associated Lab Samples: 60145607001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	06/03/13 20:46	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	06/03/13 20:46	
N-Nitrosodimethylamine	ug/L	ND	5.0	06/03/13 20:46	
N-Nitrosodiphenylamine	ug/L	ND	5.0	06/03/13 20:46	
Naphthalene	ug/L	ND	5.0	06/03/13 20:46	
Nitrobenzene	ug/L	ND	5.0	06/03/13 20:46	
Pentachlorophenol	ug/L	ND	5.0	06/03/13 20:46	
Phenanthrene	ug/L	ND	5.0	06/03/13 20:46	
Phenol	ug/L	ND	5.0	06/03/13 20:46	
Pyrene	ug/L	ND	5.0	06/03/13 20:46	
2,4,6-Tribromophenol (S)	%	68	39-119	06/03/13 20:46	
2-Fluorobiphenyl (S)	%	72	36-120	06/03/13 20:46	
2-Fluorophenol (S)	%	39	18-120	06/03/13 20:46	
Nitrobenzene-d5 (S)	%	66	32-120	06/03/13 20:46	
Phenol-d6 (S)	%	27	12-120	06/03/13 20:46	
Terphenyl-d14 (S)	%	72	44-120	06/03/13 20:46	

LABORATORY CONTROL SAMPLE: 1196803

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	34.0	68	44-120	
2,4,6-Trichlorophenol	ug/L	50	36.1	72	48-120	
2,4-Dichlorophenol	ug/L	50	34.9	70	48-120	
2,4-Dimethylphenol	ug/L	50	33.2	66	37-119	
2,4-Dinitrophenol	ug/L	50	33.3J	67	15-153	
2,4-Dinitrotoluene	ug/L	50	38.6	77	54-120	
2,6-Dinitrotoluene	ug/L	50	38.5	77	52-120	
2-Chloronaphthalene	ug/L	50	36.4	73	60-118	
2-Chlorophenol	ug/L	50	33.2	66	44-120	
2-Nitrophenol	ug/L	50	37.0	74	43-120	
3,3'-Dichlorobenzidine	ug/L	50	46.3	93	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	39.9	80	31-147	
4-Bromophenylphenyl ether	ug/L	50	39.2	78	53-120	
4-Chloro-3-methylphenol	ug/L	50	36.1	72	50-120	
4-Chlorophenylphenyl ether	ug/L	50	38.1	76	54-120	
4-Nitrophenol	ug/L	50	16.5	33	10-120	
Acenaphthene	ug/L	50	35.4	71	51-120	
Acenaphthylene	ug/L	50	36.5	73	51-120	
Anthracene	ug/L	50	39.4	79	54-120	
Benzidine	ug/L	50	17.7J	35	1-124	
Benzo(a)anthracene	ug/L	50	39.2	78	54-120	
Benzo(a)pyrene	ug/L	50	39.7	79	54-120	
Benzo(b)fluoranthene	ug/L	50	37.7	75	57-120	
Benzo(g,h,i)perylene	ug/L	50	39.8	80	54-120	
Benzo(k)fluoranthene	ug/L	50	41.9	84	52-121	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

LABORATORY CONTROL SAMPLE: 1196803

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	50	36.3	73	51-120	
bis(2-Chloroethyl) ether	ug/L	50	33.6	67	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	31.4	63	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	40.2	80	51-126	
Butylbenzylphthalate	ug/L	50	39.7	79	45-129	
Chrysene	ug/L	50	39.3	79	54-120	
Di-n-butylphthalate	ug/L	50	40.2	80	57-118	
Di-n-octylphthalate	ug/L	50	40.4	81	48-130	
Dibenz(a,h)anthracene	ug/L	50	39.3	79	56-119	
Diethylphthalate	ug/L	50	39.2	78	55-114	
Dimethylphthalate	ug/L	50	38.8	78	54-112	
Fluoranthene	ug/L	50	39.6	79	56-120	
Fluorene	ug/L	50	38.0	76	59-120	
Hexachloro-1,3-butadiene	ug/L	50	33.6	67	41-116	
Hexachlorobenzene	ug/L	50	38.8	78	53-120	
Hexachlorocyclopentadiene	ug/L	100	63.9	64	31-120	
Hexachloroethane	ug/L	50	32.6	65	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	39.2	78	55-120	
Isophorone	ug/L	50	35.9	72	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	35.9	72	47-120	
N-Nitrosodimethylamine	ug/L	50	21.3	43	28-120	
N-Nitrosodiphenylamine	ug/L	50	38.8	78	53-120	
Naphthalene	ug/L	50	34.6	69	48-120	
Nitrobenzene	ug/L	50	35.6	71	47-120	
Pentachlorophenol	ug/L	50	39.1	78	43-127	
Phenanthrene	ug/L	50	38.5	77	55-120	
Phenol	ug/L	50	14.5	29	15-112	
Pyrene	ug/L	50	38.5	77	55-115	
2,4,6-Tribromophenol (S)	%			80	39-119	
2-Fluorobiphenyl (S)	%			76	36-120	
2-Fluorophenol (S)	%			41	18-120	
Nitrobenzene-d5 (S)	%			69	32-120	
Phenol-d6 (S)	%			27	12-120	
Terphenyl-d14 (S)	%			79	44-120	

MATRIX SPIKE SAMPLE: 1196804

Parameter	Units	60145748001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	26.8	54	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	28.0	56	37-121	
2,4-Dichlorophenol	ug/L	ND	50	26.6	53	39-120	
2,4-Dimethylphenol	ug/L	ND	50	26.4	53	32-119	
2,4-Dinitrophenol	ug/L	ND	50	27.8J	56	20-157	
2,4-Dinitrotoluene	ug/L	ND	50	31.6	63	39-130	
2,6-Dinitrotoluene	ug/L	ND	50	30.8	62	50-128	
2-Chloronaphthalene	ug/L	ND	50	27.7	55	60-118 M1	
2-Chlorophenol	ug/L	ND	50	24.6	49	35-120	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

MATRIX SPIKE SAMPLE:		1196804						
Parameter	Units	60145748001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
2-Nitrophenol	ug/L	ND	50	27.0	54	29-123		
3,3'-Dichlorobenzidine	ug/L	ND	50	33.9	68	10-160		
4,6-Dinitro-2-methylphenol	ug/L	ND	50	31.8	64	27-146		
4-Bromophenylphenyl ether	ug/L	ND	50	30.7	61	53-124		
4-Chloro-3-methylphenol	ug/L	ND	50	28.4	57	33-123		
4-Chlorophenylphenyl ether	ug/L	ND	50	30.4	61	34-125		
4-Nitrophenol	ug/L	ND	50	12.3	25	10-120		
Acenaphthene	ug/L	ND	50	26.4	53	47-120		
Acenaphthylene	ug/L	ND	50	29.2	58	33-120		
Anthracene	ug/L	ND	50	31.0	62	36-121		
Benzidine	ug/L	ND	50	21.2J	42	1-120		
Benzo(a)anthracene	ug/L	ND	50	29.8	60	37-127		
Benzo(a)pyrene	ug/L	ND	50	29.6	59	34-125		
Benzo(b)fluoranthene	ug/L	ND	50	30.1	60	37-131		
Benzo(g,h,i)perylene	ug/L	ND	50	29.8	60	35-128		
Benzo(k)fluoranthene	ug/L	ND	50	31.2	62	34-130		
bis(2-Chloroethoxy)methane	ug/L	ND	50	27.9	56	33-120		
bis(2-Chloroethyl) ether	ug/L	ND	50	25.9	52	32-120		
bis(2-Chloroisopropyl) ether	ug/L	ND	50	26.7	53	36-120		
bis(2-Ethylhexyl)phthalate	ug/L	20.5	50	51.3	62	38-137		
Butylbenzylphthalate	ug/L	ND	50	31.1	62	43-136		
Chrysene	ug/L	ND	50	30.1	60	36-127		
Di-n-butylphthalate	ug/L	ND	50	31.9	64	38-118		
Di-n-octylphthalate	ug/L	ND	50	30.7	61	40-140		
Dibenz(a,h)anthracene	ug/L	ND	50	30.3	61	35-131		
Diethylphthalate	ug/L	ND	50	31.3	63	33-114		
Dimethylphthalate	ug/L	ND	50	31.0	62	34-112		
Fluoranthene	ug/L	ND	50	31.6	63	38-125		
Fluorene	ug/L	ND	50	30.3	61	59-121		
Hexachloro-1,3-butadiene	ug/L	ND	50	26.7	53	27-116		
Hexachlorobenzene	ug/L	ND	50	30.8	62	34-124		
Hexachlorocyclopentadiene	ug/L	ND	100	51.3	51	11-120		
Hexachloroethane	ug/L	ND	50	25.8	52	40-113		
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	30.2	60	38-127		
Isophorone	ug/L	ND	50	27.8	56	31-120		
N-Nitroso-di-n-propylamine	ug/L	ND	50	27.3	55	30-120		
N-Nitrosodimethylamine	ug/L	ND	50	16.0	32	29-120		
N-Nitrosodiphenylamine	ug/L	ND	50	30.4	61	10-139		
Naphthalene	ug/L	ND	50	27.0	54	32-120		
Nitrobenzene	ug/L	ND	50	27.1	54	35-128		
Pentachlorophenol	ug/L	ND	50	30.9	62	38-133		
Phenanthrene	ug/L	ND	50	30.3	61	54-120		
Phenol	ug/L	ND	50	10.1	20	13-112		
Pyrene	ug/L	ND	50	30.6	61	52-115		
2,4,6-Tribromophenol (S)	%				64	39-119		
2-Fluorobiphenyl (S)	%				57	36-120		
2-Fluorophenol (S)	%				28	18-120		
Nitrobenzene-d5 (S)	%				52	32-120		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

MATRIX SPIKE SAMPLE:		1196804					
Parameter	Units	60145748001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenol-d6 (S)	%					19	12-120
Terphenyl-d14 (S)	%					60	44-120

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

QC Batch:	WET/41608	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60145607001		

METHOD BLANK: 1197608 Matrix: Water

Associated Lab Samples: 60145607001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/01/13 07:59	

LABORATORY CONTROL SAMPLE: 1197609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.6	92	78-114	

MATRIX SPIKE SAMPLE: 1197610

Parameter	Units	60145844001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	47.6	43.3	88	78-114	

SAMPLE DUPLICATE: 1197611

Parameter	Units	60145367002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	45.3	44.7	1	18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

QC Batch:	WET/41621	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 SGT-HEM, TPH
Associated Lab Samples:	60145607001		

METHOD BLANK: 1197980 Matrix: Water

Associated Lab Samples: 60145607001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/03/13 08:26	

LABORATORY CONTROL SAMPLE: 1197981

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	18.3	92	64-132	

MATRIX SPIKE SAMPLE: 1197985

Parameter	Units	60145237001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	20.2	14.4	71	64-132	

SAMPLE DUPLICATE: 1197984

Parameter	Units	60145239001 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 157-MSD

Pace Project No.: 60145607

QC Batch: WET/41563

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60145607001

METHOD BLANK: 1196127

Matrix: Water

Associated Lab Samples: 60145607001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/30/13 08:35	

SAMPLE DUPLICATE: 1196128

Parameter	Units	60145607001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	730	723	1	25	

SAMPLE DUPLICATE: 1196129

Parameter	Units	60145604002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	18.0	16.0	12	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

QC Batch: WET/41545 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60145607001

SAMPLE DUPLICATE: 1195802

Parameter	Units	60145528001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.8	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD
Pace Project No.: 60145607

QC Batch: WETA/24907 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60145607001

METHOD BLANK: 1196062 Matrix: Water
Associated Lab Samples: 60145607001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/30/13 15:01	

LABORATORY CONTROL SAMPLE: 1196063

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

MATRIX SPIKE SAMPLE: 1196064

Parameter	Units	60145388001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	93	90-110	

MATRIX SPIKE SAMPLE: 1196065

Parameter	Units	60145389005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	87	90-110	M1

SAMPLE DUPLICATE: 1196066

Parameter	Units	60145391001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	.067J		18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 157-MSD
Pace Project No.: 60145607

QC Batch: WETA/24954 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 60145607001

METHOD BLANK: 1198290 Matrix: Water
Associated Lab Samples: 60145607001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/04/13 07:53	

LABORATORY CONTROL SAMPLE: 1198291

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.4	107	90-110	

MATRIX SPIKE SAMPLE: 1198292

Parameter	Units	60145053001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	35.7	50	86.0	101	90-110	

MATRIX SPIKE SAMPLE: 1198294

Parameter	Units	60145053003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	55.6	101	90-110	

SAMPLE DUPLICATE: 1198293

Parameter	Units	60145053002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	ND	12.1		25	

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QUALIFIERS

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

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

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

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

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

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRIDGETON LF 157-MSD

Pace Project No.: 60145607

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145607001	157-MSD	EPA 200.7	MPRP/22876	EPA 200.7	ICP/18100
60145607001	157-MSD	EPA 200.7	MPRP/22859	EPA 200.7	ICP/18086
60145607001	157-MSD	EPA 245.1	MERP/7394	EPA 245.1	MERC/7351
60145607001	157-MSD	EPA 245.1	MERP/7386	EPA 245.1	MERC/7341
60145607001	157-MSD	EPA 625	OEXT/38637	EPA 625	MSSV/12221
60145607001	157-MSD	EPA 624 Low	MSV/54002		
60145607002	TRIP BLANK	EPA 624 Low	MSV/54002		
60145607001	157-MSD	EPA 1664A	WET/41608		
60145607001	157-MSD	EPA 1664A	WET/41621		
60145607001	157-MSD	SM 2540D	WET/41563		
60145607001	157-MSD	SM 4500-H+B	WET/41545		
60145607001	157-MSD	EPA 350.1	WETA/24907		
60145607001	157-MSD	EPA 410.4	WETA/24954		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60145607



Client Name: Barr Eng

Courier: Fed Ex UPS USPS Client Commercial Pace Other Exroad

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other 2PIC

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

Cooler Temperature: 2.2

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: PVS-27-13

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	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix:	<u>WT</u>	13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. <u>Added 2.0 ml of H2O2 to BPTs PH 6.0/1.5</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>Added 2.5 ml of H2O2 to BPTs PH 6.0/3.0</u>
Exceptions: <u>VOA</u> , coliform, TOC, <u>W&G</u> WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>pc</u> Lot # of added preservative: <u>12570</u>
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank lot # (if purchased): <u>COVER</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17. List State: <u>MO</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 5/29/13

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		Report To: ED GALBRAITH		Attention:	
Address:		Copy To: SCOTT C. FEDAK		Company Name: REPUBLIC SERVICES	
Email To:		Purchase Order No.:		Address:	
Phone:		Project Name: BRIDGETON LANDFILL		Pace Quote Reference: 130426_7588	
Requested Due Date/TAT: 5 BUSINESS DAY		Project Number:		Pace Project Manager: Angie Brown 913-563-1402	
				Pace Profile #: 6787 line 2	
				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	
				STATE: <u>MO</u>	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED COMPOSITE START / END	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.			
											Preservatives																
											Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test	COD 410	pH SM 4500H+B	LF Dis. Metals 200.7/245			total Metals 200.7/245*	Ammonia EPA 350	Oil/Grease EPA 1664
1	13P3U	157-MSD 10P35 ¹⁵ 13P3W ³⁰ 10P3U		OT G			5/27/13	1357		14	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	*Metals list: <i>WJ</i>	
2		TRIP BLANK								2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Al,Sb,As,Be,Cd,Cr <i>WJ</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>	5/28/13	1649	<i>Bill Abernathy</i> 554	5/28	1649	
SITE ADDRESS: BRIDGETON LF 13570 ST. CHARLES ROCK RD BRIDGETON MO 63044				<i>Bill Abernathy</i> PACE	5/29	0335	2-L Y Y Y

SAMPLER NAME AND SIGNATURE	Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER:				
SIGNATURE of SAMPLER: <i>William Abernathy</i>				
DATE Signed (MM/DD/YY): 5/27/13				

June 04, 2013

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

RE: Project: BRIDGETON LF 159-MSD
Pace Project No.: 60145608

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 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 159-MSD

Pace Project No.: 60145608

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 159-MSD

Pace Project No.: 60145608

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145608001	159-MSD	Water	05/27/13 14:25	05/29/13 03:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145608

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145608001	159-MSD	SM 5210B	NDL	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145608

Sample: 159-MSD	Lab ID: 60145608001	Collected: 05/27/13 14:25	Received: 05/29/13 03:35	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	33800	mg/L	2.0	1	05/29/13 12:00	06/03/13 10:52		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145608

QC Batch: WET/41543

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60145608001

METHOD BLANK: 1195575

Matrix: Water

Associated Lab Samples: 60145608001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/03/13 10:32	

LABORATORY CONTROL SAMPLE: 1195576

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

SAMPLE DUPLICATE: 1195577

Parameter	Units	60145606001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	29400	27800	5	17	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145608

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 159-MSD

Pace Project No.: 60145608

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145608001	159-MSD	SM 5210B	WET/41543	SM 5210B	WET/41624

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60145608



60145608

Client Name: Barr Engineering

Optional
Proj Due Date:
Proj Name:

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

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

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

Cooler Temperature: 1.8

(circle one)

Date and initials of person examining contents: 5/29/13

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>BOO, ph</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
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>OT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<u>initial ph BP3N 6.0, added 2.5 ml, final 3.5</u>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<u>initial ph BP3S 6.0, added 2.5 ml, final 3.5</u>
Exceptions: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
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: <u>MO</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 5/29/13

June 05, 2013

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

RE: Project: BRIDGETON LF 159-MSD
Pace Project No.: 60145609

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 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 159-MSD

Pace Project No.: 60145609

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 159-MSD

Pace Project No.: 60145609

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145609001	159-MSD	Water	05/27/13 14:25	05/29/13 03:35
60145609002	TRIP BLANK	Water	05/27/13 00:00	05/29/13 03:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145609001	159-MSD	EPA 200.7	SMW	15
		EPA 200.7	JGP	15
		EPA 245.1	TDS	1
		EPA 245.1	TJT	1
		EPA 625	JMT	59
		EPA 624 Low	JKL	38
		EPA 1664A	JMC1	1
		EPA 1664A	JMC1	1
		SM 2540D	RAS	1
		SM 4500-H+B	NDL	1
		EPA 350.1	AJM	1
		EPA 410.4	DJR	1
		60145609002	TRIP BLANK	EPA 624 Low

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

Sample: 159-MSD		Lab ID: 60145609001	Collected: 05/27/13 14:25	Received: 05/29/13 03:35	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.7 Metals, Total		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum	8810 ug/L		150	2	05/31/13 16:30	06/04/13 14:13	7429-90-5	M1
Antimony	34.3 ug/L		20.0	2	05/31/13 16:30	06/04/13 14:13	7440-36-0	
Arsenic	654 ug/L		20.0	2	05/31/13 16:30	06/04/13 14:13	7440-38-2	
Beryllium	ND ug/L		2.0	2	05/31/13 16:30	06/04/13 14:13	7440-41-7	D3
Cadmium	ND ug/L		10.0	2	05/31/13 16:30	06/04/13 14:13	7440-43-9	
Chromium	244 ug/L		25.0	5	05/31/13 16:30	06/04/13 15:13	7440-47-3	
Cobalt	29.7 ug/L		10.0	2	05/31/13 16:30	06/04/13 14:13	7440-48-4	
Copper	ND ug/L		20.0	2	05/31/13 16:30	06/04/13 14:13	7440-50-8	
Iron	788000 ug/L		100	2	05/31/13 16:30	06/04/13 14:13	7439-89-6	M1
Lead	117 ug/L		10.0	2	05/31/13 16:30	06/04/13 14:13	7439-92-1	
Nickel	105 ug/L		10.0	2	05/31/13 16:30	06/04/13 14:13	7440-02-0	
Selenium	76.0 ug/L		75.0	5	05/31/13 16:30	06/04/13 15:13	7782-49-2	
Silver	ND ug/L		14.0	2	05/31/13 16:30	06/04/13 14:13	7440-22-4	M1
Thallium	ND ug/L		100	5	05/31/13 16:30	06/04/13 15:13	7440-28-0	D3
Zinc	14200 ug/L		100	2	05/31/13 16:30	06/04/13 14:13	7440-66-6	
200.7 Metals, Dissolved (LF)		Analytical Method: EPA 200.7 Preparation Method: EPA 200.7						
Aluminum, Dissolved	4770 ug/L		150	2	05/30/13 17:40	05/31/13 11:21	7429-90-5	
Antimony, Dissolved	33.4 ug/L		20.0	2	05/30/13 17:40	05/31/13 11:21	7440-36-0	
Arsenic, Dissolved	605 ug/L		20.0	2	05/30/13 17:40	05/31/13 11:21	7440-38-2	
Beryllium, Dissolved	ND ug/L		2.0	2	05/30/13 17:40	05/31/13 11:21	7440-41-7	D3
Cadmium, Dissolved	ND ug/L		10.0	2	05/30/13 17:40	05/31/13 11:21	7440-43-9	D3
Chromium, Dissolved	223 ug/L		15.0	3	05/30/13 17:40	05/31/13 11:43	7440-47-3	
Cobalt, Dissolved	27.0 ug/L		10.0	2	05/30/13 17:40	05/31/13 11:21	7440-48-4	
Copper, Dissolved	ND ug/L		20.0	2	05/30/13 17:40	05/31/13 11:21	7440-50-8	D3
Iron, Dissolved	704000 ug/L		100	2	05/30/13 17:40	05/31/13 11:21	7439-89-6	
Lead, Dissolved	98.7 ug/L		10.0	2	05/30/13 17:40	05/31/13 11:21	7439-92-1	
Nickel, Dissolved	89.3 ug/L		10.0	2	05/30/13 17:40	05/31/13 11:21	7440-02-0	
Selenium, Dissolved	ND ug/L		45.0	3	05/30/13 17:40	05/31/13 11:43	7782-49-2	D3
Silver, Dissolved	ND ug/L		14.0	2	05/30/13 17:40	05/31/13 11:21	7440-22-4	D3
Thallium, Dissolved	ND ug/L		60.0	3	05/30/13 17:40	05/31/13 11:43	7440-28-0	D3
Zinc, Dissolved	14000 ug/L		100	2	05/30/13 17:40	05/31/13 11:21	7440-66-6	
245.1 Mercury		Analytical Method: EPA 245.1 Preparation Method: EPA 245.1						
Mercury	4.1 ug/L		0.20	1	06/03/13 16:05	06/04/13 11:39	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	05/29/13 16:45	05/30/13 10:48	7439-97-6	
625 MSSV		Analytical Method: EPA 625 Preparation Method: EPA 625						
Acenaphthene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	83-32-9	
Acenaphthylene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	208-96-8	
Anthracene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	120-12-7	
Benzidine	ND ug/L		25000	50	05/31/13 00:00	06/03/13 22:32	92-87-5	
Benzo(a)anthracene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	56-55-3	
Benzo(a)pyrene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

Sample: 159-MSD	Lab ID: 60145609001	Collected: 05/27/13 14:25	Received: 05/29/13 03:35	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		2500	50	05/31/13 00:00	06/03/13 22:32	205-99-2	
Benzo(g,h,i)perylene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	191-24-2	
Benzo(k)fluoranthene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	207-08-9	
4-Bromophenylphenyl ether	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	101-55-3	
Butylbenzylphthalate	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	85-68-7	
4-Chloro-3-methylphenol	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	59-50-7	
bis(2-Chloroethoxy)methane	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	111-91-1	
bis(2-Chloroethyl) ether	ND ug/L		3000	50	05/31/13 00:00	06/03/13 22:32	111-44-4	
bis(2-Chloroisopropyl) ether	ND ug/L		3000	50	05/31/13 00:00	06/03/13 22:32	39638-32-9	
2-Chloronaphthalene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	91-58-7	
2-Chlorophenol	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	95-57-8	
4-Chlorophenylphenyl ether	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	7005-72-3	
Chrysene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	218-01-9	
Dibenz(a,h)anthracene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	53-70-3	
3,3'-Dichlorobenzidine	ND ug/L		10000	50	05/31/13 00:00	06/03/13 22:32	91-94-1	
2,4-Dichlorophenol	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	120-83-2	
Diethylphthalate	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	84-66-2	
2,4-Dimethylphenol	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	105-67-9	
Dimethylphthalate	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	131-11-3	
Di-n-butylphthalate	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	84-74-2	
4,6-Dinitro-2-methylphenol	ND ug/L		12500	50	05/31/13 00:00	06/03/13 22:32	534-52-1	
2,4-Dinitrophenol	ND ug/L		25000	50	05/31/13 00:00	06/03/13 22:32	51-28-5	
2,4-Dinitrotoluene	ND ug/L		3000	50	05/31/13 00:00	06/03/13 22:32	121-14-2	
2,6-Dinitrotoluene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	606-20-2	
Di-n-octylphthalate	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	117-84-0	
bis(2-Ethylhexyl)phthalate	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	117-81-7	
Fluoranthene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	206-44-0	
Fluorene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	86-73-7	
Hexachloro-1,3-butadiene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	87-68-3	
Hexachlorobenzene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	118-74-1	
Hexachlorocyclopentadiene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	77-47-4	
Hexachloroethane	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	67-72-1	
Indeno(1,2,3-cd)pyrene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	193-39-5	
Isophorone	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	78-59-1	
Naphthalene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	91-20-3	
Nitrobenzene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	98-95-3	
2-Nitrophenol	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	88-75-5	
4-Nitrophenol	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	100-02-7	
N-Nitrosodimethylamine	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	62-75-9	
N-Nitroso-di-n-propylamine	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	621-64-7	
N-Nitrosodiphenylamine	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	86-30-6	
Pentachlorophenol	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	87-86-5	
Phenanthrene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	85-01-8	
Phenol	11500 ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	108-95-2	
Pyrene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	129-00-0	
1,2,4-Trichlorobenzene	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	120-82-1	
2,4,6-Trichlorophenol	ND ug/L		2500	50	05/31/13 00:00	06/03/13 22:32	88-06-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

Sample: 159-MSD		Lab ID: 60145609001	Collected: 05/27/13 14:25	Received: 05/29/13 03:35	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	50	05/31/13 00:00	06/03/13 22:32	4165-60-0	S4
2-Fluorobiphenyl (S)	0 %		36-120	50	05/31/13 00:00	06/03/13 22:32	321-60-8	S4
Terphenyl-d14 (S)	0 %		44-120	50	05/31/13 00:00	06/03/13 22:32	1718-51-0	S4
Phenol-d6 (S)	0 %		12-120	50	05/31/13 00:00	06/03/13 22:32	13127-88-3	S4
2-Fluorophenol (S)	0 %		18-120	50	05/31/13 00:00	06/03/13 22:32	367-12-4	S4
2,4,6-Tribromophenol (S)	0 %		39-119	50	05/31/13 00:00	06/03/13 22:32	118-79-6	S4
624 Volatile Organics		Analytical Method: EPA 624 Low						
Benzene	ND ug/L		200	200		05/30/13 14:58	71-43-2	
Bromodichloromethane	ND ug/L		200	200		05/30/13 14:58	75-27-4	
Bromoform	ND ug/L		200	200		05/30/13 14:58	75-25-2	
Bromomethane	ND ug/L		1000	200		05/30/13 14:58	74-83-9	L3
Carbon tetrachloride	ND ug/L		200	200		05/30/13 14:58	56-23-5	
Chlorobenzene	ND ug/L		200	200		05/30/13 14:58	108-90-7	
Chloroethane	ND ug/L		200	200		05/30/13 14:58	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		2000	200		05/30/13 14:58	110-75-8	
Chloroform	ND ug/L		200	200		05/30/13 14:58	67-66-3	
Chloromethane	ND ug/L		200	200		05/30/13 14:58	74-87-3	
Dibromochloromethane	ND ug/L		200	200		05/30/13 14:58	124-48-1	
1,2-Dichlorobenzene	ND ug/L		200	200		05/30/13 14:58	95-50-1	
1,3-Dichlorobenzene	ND ug/L		200	200		05/30/13 14:58	541-73-1	
1,4-Dichlorobenzene	ND ug/L		200	200		05/30/13 14:58	106-46-7	
1,1-Dichloroethane	ND ug/L		200	200		05/30/13 14:58	75-34-3	
1,2-Dichloroethane	ND ug/L		200	200		05/30/13 14:58	107-06-2	
1,1-Dichloroethene	ND ug/L		200	200		05/30/13 14:58	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		200	200		05/30/13 14:58	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		200	200		05/30/13 14:58	156-60-5	
1,2-Dichloropropane	ND ug/L		200	200		05/30/13 14:58	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		200	200		05/30/13 14:58	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		200	200		05/30/13 14:58	10061-02-6	
Ethylbenzene	ND ug/L		200	200		05/30/13 14:58	100-41-4	
Methylene chloride	ND ug/L		200	200		05/30/13 14:58	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		200	200		05/30/13 14:58	79-34-5	
Tetrachloroethene	ND ug/L		200	200		05/30/13 14:58	127-18-4	
Toluene	ND ug/L		200	200		05/30/13 14:58	108-88-3	
1,1,1-Trichloroethane	ND ug/L		200	200		05/30/13 14:58	71-55-6	
1,1,2-Trichloroethane	ND ug/L		200	200		05/30/13 14:58	79-00-5	
Trichloroethene	ND ug/L		200	200		05/30/13 14:58	79-01-6	
Trichlorofluoromethane	ND ug/L		200	200		05/30/13 14:58	75-69-4	
Vinyl chloride	ND ug/L		200	200		05/30/13 14:58	75-01-4	
Xylene (Total)	ND ug/L		600	200		05/30/13 14:58	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	97 %		80-120	200		05/30/13 14:58	1868-53-7	D3
4-Bromofluorobenzene (S)	99 %		80-120	200		05/30/13 14:58	460-00-4	
Toluene-d8 (S)	102 %		80-120	200		05/30/13 14:58	2037-26-5	
1,2-Dichloroethane-d4 (S)	90 %		80-120	200		05/30/13 14:58	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

Sample: 159-MSD		Lab ID: 60145609001	Collected: 05/27/13 14:25	Received: 05/29/13 03:35	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		05/30/13 14:58		
HEM, Oil and Grease	Analytical Method: EPA 1664A							
Oil and Grease	291	mg/L	5.0	1		06/01/13 08:01		
1664 SGT-HEM, TPH	Analytical Method: EPA 1664A							
Total Petroleum Hydrocarbons	47.8	mg/L	5.0	1		06/05/13 14:19		M1
2540D Total Suspended Solids	Analytical Method: SM 2540D							
Total Suspended Solids	723	mg/L	5.0	1		05/30/13 08:37		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B							
pH at 25 Degrees C	5.4	Std. Units	0.10	1		05/29/13 15:30		H6
350.1 Ammonia	Analytical Method: EPA 350.1							
Nitrogen, Ammonia	594	mg/L	20.0	200		05/30/13 15:35	7664-41-7	
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	51900	mg/L	5000	500		06/04/13 08:10		

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ANALYTICAL RESULTS

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

Sample: TRIP BLANK		Lab ID: 60145609002	Collected: 05/27/13 00:00	Received: 05/29/13 03:35	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		05/30/13 12:51	71-43-2	
Bromodichloromethane	ND ug/L		1.0	1		05/30/13 12:51	75-27-4	
Bromoform	ND ug/L		1.0	1		05/30/13 12:51	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/30/13 12:51	74-83-9	L3
Carbon tetrachloride	ND ug/L		1.0	1		05/30/13 12:51	56-23-5	
Chlorobenzene	ND ug/L		1.0	1		05/30/13 12:51	108-90-7	
Chloroethane	ND ug/L		1.0	1		05/30/13 12:51	75-00-3	
2-Chloroethylvinyl ether	ND ug/L		10.0	1		05/30/13 12:51	110-75-8	
Chloroform	ND ug/L		1.0	1		05/30/13 12:51	67-66-3	
Chloromethane	ND ug/L		1.0	1		05/30/13 12:51	74-87-3	
Dibromochloromethane	ND ug/L		1.0	1		05/30/13 12:51	124-48-1	
1,2-Dichlorobenzene	ND ug/L		1.0	1		05/30/13 12:51	95-50-1	
1,3-Dichlorobenzene	ND ug/L		1.0	1		05/30/13 12:51	541-73-1	
1,4-Dichlorobenzene	ND ug/L		1.0	1		05/30/13 12:51	106-46-7	
1,1-Dichloroethane	ND ug/L		1.0	1		05/30/13 12:51	75-34-3	
1,2-Dichloroethane	ND ug/L		1.0	1		05/30/13 12:51	107-06-2	
1,1-Dichloroethene	ND ug/L		1.0	1		05/30/13 12:51	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		1.0	1		05/30/13 12:51	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		1.0	1		05/30/13 12:51	156-60-5	
1,2-Dichloropropane	ND ug/L		1.0	1		05/30/13 12:51	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		1.0	1		05/30/13 12:51	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		1.0	1		05/30/13 12:51	10061-02-6	
Ethylbenzene	ND ug/L		1.0	1		05/30/13 12:51	100-41-4	
Methylene chloride	ND ug/L		1.0	1		05/30/13 12:51	75-09-2	
1,1,2,2-Tetrachloroethane	ND ug/L		1.0	1		05/30/13 12:51	79-34-5	
Tetrachloroethene	ND ug/L		1.0	1		05/30/13 12:51	127-18-4	
Toluene	ND ug/L		1.0	1		05/30/13 12:51	108-88-3	
1,1,1-Trichloroethane	ND ug/L		1.0	1		05/30/13 12:51	71-55-6	
1,1,2-Trichloroethane	ND ug/L		1.0	1		05/30/13 12:51	79-00-5	
Trichloroethene	ND ug/L		1.0	1		05/30/13 12:51	79-01-6	
Trichlorofluoromethane	ND ug/L		1.0	1		05/30/13 12:51	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		05/30/13 12:51	75-01-4	
Xylene (Total)	ND ug/L		3.0	1		05/30/13 12:51	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	94 %		80-120	1		05/30/13 12:51	1868-53-7	
4-Bromofluorobenzene (S)	100 %		80-120	1		05/30/13 12:51	460-00-4	
Toluene-d8 (S)	102 %		80-120	1		05/30/13 12:51	2037-26-5	
1,2-Dichloroethane-d4 (S)	85 %		80-120	1		05/30/13 12:51	17060-07-0	
Preservation pH	7.0			1		05/30/13 12:51		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

QC Batch: MERP/7394 Analysis Method: EPA 245.1
 QC Batch Method: EPA 245.1 Analysis Description: 245.1 Mercury
 Associated Lab Samples: 60145609001

METHOD BLANK: 1198285 Matrix: Water

Associated Lab Samples: 60145609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	06/04/13 11:28	

LABORATORY CONTROL SAMPLE: 1198286

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: 1198287 1198288

Parameter	Units	60145680001 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max		Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Mercury	ug/L	ND	5	5	4.2	4.1	84	82	70-130	2	20	

MATRIX SPIKE SAMPLE: 1198289

Parameter	Units	60145970001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	5	3.0	59	70-130	M1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

QC Batch: MERP/7386

Analysis Method: EPA 245.1

QC Batch Method: EPA 245.1

Analysis Description: 245.1 Mercury - Dissolved

Associated Lab Samples: 60145609001

METHOD BLANK: 1195833

Matrix: Water

Associated Lab Samples: 60145609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	05/30/13 10:22	

LABORATORY CONTROL SAMPLE: 1195834

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1195835

1195836

Parameter	Units	60145231001		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
Mercury, Dissolved	ug/L					4.5	4.6				1	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD
Pace Project No.: 60145609

QC Batch: MPRP/22876 Analysis Method: EPA 200.7
QC Batch Method: EPA 200.7 Analysis Description: 200.7 Metals, Total
Associated Lab Samples: 60145609001

METHOD BLANK: 1197479 Matrix: Water
Associated Lab Samples: 60145609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum	ug/L	ND	75.0	06/04/13 14:06	
Antimony	ug/L	ND	10.0	06/04/13 14:06	
Arsenic	ug/L	ND	10.0	06/04/13 14:06	
Beryllium	ug/L	ND	1.0	06/04/13 14:06	
Cadmium	ug/L	ND	5.0	06/04/13 14:06	
Chromium	ug/L	ND	5.0	06/04/13 14:06	
Cobalt	ug/L	ND	5.0	06/04/13 14:06	
Copper	ug/L	ND	10.0	06/04/13 14:06	
Iron	ug/L	ND	50.0	06/04/13 14:06	
Lead	ug/L	ND	5.0	06/04/13 14:06	
Nickel	ug/L	ND	5.0	06/04/13 14:06	
Selenium	ug/L	ND	15.0	06/04/13 14:06	
Silver	ug/L	ND	7.0	06/04/13 14:06	
Thallium	ug/L	ND	20.0	06/04/13 14:06	
Zinc	ug/L	ND	50.0	06/04/13 14:06	

LABORATORY CONTROL SAMPLE: 1197480

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum	ug/L	10000	8900	89	85-115	
Antimony	ug/L	1000	945	95	85-115	
Arsenic	ug/L	1000	902	90	85-115	
Beryllium	ug/L	1000	915	91	85-115	
Cadmium	ug/L	1000	913	91	85-115	
Chromium	ug/L	1000	917	92	85-115	
Cobalt	ug/L	1000	930	93	85-115	
Copper	ug/L	1000	915	92	85-115	
Iron	ug/L	10000	9070	91	85-115	
Lead	ug/L	1000	959	96	85-115	
Nickel	ug/L	1000	964	96	85-115	
Selenium	ug/L	1000	915	92	85-115	
Silver	ug/L	500	467	93	85-115	
Thallium	ug/L	1000	960	96	85-115	
Zinc	ug/L	1000	928	93	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1197481 1197482

Parameter	Units	60145609001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Aluminum	ug/L	8810	10000	10000	10000	22400	22200	136	134	70-130	1	8 M1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1197481 1197482												
Parameter	Units	60145609001		MS	MSD	MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Antimony	ug/L	34.3	1000	1000	1010	1010	98	97	70-130	1	7	
Arsenic	ug/L	654	1000	1000	1930	1890	128	124	70-130	2	10	
Beryllium	ug/L	ND	1000	1000	915	898	91	90	70-130	2	7	
Cadmium	ug/L	ND	1000	1000	1090	1070	109	107	70-130	2	10	
Chromium	ug/L	244	1000	1000	1210	1200	96	95	70-130	1	10	
Cobalt	ug/L	29.7	1000	1000	933	920	90	89	70-130	1	6	
Copper	ug/L	ND	1000	1000	1120	1110	110	109	70-130	1	11	
Iron	ug/L	788000	10000	10000	804000	792000	158	44	70-130	1	10	M1
Lead	ug/L	117	1000	1000	969	959	85	84	70-130	1	10	
Nickel	ug/L	105	1000	1000	1010	992	90	89	70-130	2	10	
Selenium	ug/L	76.0	1000	1000	1260	1310	119	124	70-130	4	10	
Silver	ug/L	ND	500	500	29.3	30.7	5	5	70-130	5	10	M1
Thallium	ug/L	ND	1000	1000	815	808	82	81	70-130	1	6	
Zinc	ug/L	14200	1000	1000	15100	14900	93	72	70-130	1	11	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

QC Batch:	MPRP/22859	Analysis Method:	EPA 200.7
QC Batch Method:	EPA 200.7	Analysis Description:	200.7 Metals, Dissolved
Associated Lab Samples:	60145609001		

METHOD BLANK: 1196732 Matrix: Water

Associated Lab Samples: 60145609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Aluminum, Dissolved	ug/L	ND	75.0	05/31/13 11:01	
Antimony, Dissolved	ug/L	ND	10.0	05/31/13 11:01	
Arsenic, Dissolved	ug/L	ND	10.0	05/31/13 11:01	
Beryllium, Dissolved	ug/L	ND	1.0	05/31/13 11:01	
Cadmium, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Chromium, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Cobalt, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Copper, Dissolved	ug/L	ND	10.0	05/31/13 11:01	
Iron, Dissolved	ug/L	ND	50.0	05/31/13 11:01	
Lead, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Nickel, Dissolved	ug/L	ND	5.0	05/31/13 11:01	
Selenium, Dissolved	ug/L	ND	15.0	05/31/13 11:01	
Silver, Dissolved	ug/L	ND	7.0	05/31/13 11:01	
Thallium, Dissolved	ug/L	ND	20.0	05/31/13 11:01	
Zinc, Dissolved	ug/L	ND	50.0	05/31/13 11:01	

LABORATORY CONTROL SAMPLE: 1196733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	10000	9490	95	85-115	
Antimony, Dissolved	ug/L	1000	984	98	85-115	
Arsenic, Dissolved	ug/L	1000	978	98	85-115	
Beryllium, Dissolved	ug/L	1000	992	99	85-115	
Cadmium, Dissolved	ug/L	1000	982	98	85-115	
Chromium, Dissolved	ug/L	1000	991	99	85-115	
Cobalt, Dissolved	ug/L	1000	1010	101	85-115	
Copper, Dissolved	ug/L	1000	961	96	85-115	
Iron, Dissolved	ug/L	10000	9640	96	85-115	
Lead, Dissolved	ug/L	1000	1010	101	85-115	
Nickel, Dissolved	ug/L	1000	1020	102	85-115	
Selenium, Dissolved	ug/L	1000	970	97	85-115	
Silver, Dissolved	ug/L	500	484	97	85-115	
Thallium, Dissolved	ug/L	1000	1020	102	85-115	
Zinc, Dissolved	ug/L	1000	1030	103	85-115	

MATRIX SPIKE SAMPLE: 1196734

Parameter	Units	60145428001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Aluminum, Dissolved	ug/L	4800	10000	15100	103	70-130	
Antimony, Dissolved	ug/L	30.2	1000	1070	104	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

MATRIX SPIKE SAMPLE:		1196734					
Parameter	Units	60145428001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	717	1000	2000	129	70-130	
Beryllium, Dissolved	ug/L	ND	1000	927	93	70-130	
Cadmium, Dissolved	ug/L	ND	1000	1100	110	70-130	
Chromium, Dissolved	ug/L	226	1000	1180	95	70-130	
Cobalt, Dissolved	ug/L	25.8	1000	953	93	70-130	
Copper, Dissolved	ug/L	ND	1000	1120	110	70-130	
Iron, Dissolved	ug/L	687000	10000	713000	256	70-130	M1
Lead, Dissolved	ug/L	86.0	1000	955	87	70-130	
Nickel, Dissolved	ug/L	84.5	1000	995	91	70-130	
Selenium, Dissolved	ug/L	ND	1000	1310	131	70-130	M1
Silver, Dissolved	ug/L	ND	500	72.8	13	70-130	M1
Thallium, Dissolved	ug/L	ND	1000	764	76	70-130	
Zinc, Dissolved	ug/L	16600	1000	17400	82	70-130	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

QC Batch: MSV/54002 Analysis Method: EPA 624 Low

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

Associated Lab Samples: 60145609001, 60145609002

METHOD BLANK: 1196201 Matrix: Water

Associated Lab Samples: 60145609001, 60145609002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1-Dichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,1-Dichloroethene	ug/L	ND	1.0	05/30/13 11:27	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
1,2-Dichloroethane	ug/L	ND	1.0	05/30/13 11:27	
1,2-Dichloropropane	ug/L	ND	1.0	05/30/13 11:27	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
2-Chloroethylvinyl ether	ug/L	ND	10.0	05/30/13 11:27	
Benzene	ug/L	ND	1.0	05/30/13 11:27	
Bromodichloromethane	ug/L	ND	1.0	05/30/13 11:27	
Bromoform	ug/L	ND	1.0	05/30/13 11:27	
Bromomethane	ug/L	ND	5.0	05/30/13 11:27	
Carbon tetrachloride	ug/L	ND	1.0	05/30/13 11:27	
Chlorobenzene	ug/L	ND	1.0	05/30/13 11:27	
Chloroethane	ug/L	ND	1.0	05/30/13 11:27	
Chloroform	ug/L	ND	1.0	05/30/13 11:27	
Chloromethane	ug/L	ND	1.0	05/30/13 11:27	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/30/13 11:27	
cis-1,3-Dichloropropene	ug/L	ND	1.0	05/30/13 11:27	
Dibromochloromethane	ug/L	ND	1.0	05/30/13 11:27	
Ethylbenzene	ug/L	ND	1.0	05/30/13 11:27	
Methylene chloride	ug/L	ND	1.0	05/30/13 11:27	
Tetrachloroethene	ug/L	ND	1.0	05/30/13 11:27	
Toluene	ug/L	ND	1.0	05/30/13 11:27	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/30/13 11:27	
trans-1,3-Dichloropropene	ug/L	ND	1.0	05/30/13 11:27	
Trichloroethene	ug/L	ND	1.0	05/30/13 11:27	
Trichlorofluoromethane	ug/L	ND	1.0	05/30/13 11:27	
Vinyl chloride	ug/L	ND	1.0	05/30/13 11:27	
Xylene (Total)	ug/L	ND	3.0	05/30/13 11:27	
1,2-Dichloroethane-d4 (S)	%	90	80-120	05/30/13 11:27	
4-Bromofluorobenzene (S)	%	102	80-120	05/30/13 11:27	
Dibromofluoromethane (S)	%	101	80-120	05/30/13 11:27	
Toluene-d8 (S)	%	102	80-120	05/30/13 11:27	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

LABORATORY CONTROL SAMPLE: 1196202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.0	105	71-139	
1,1,2,2-Tetrachloroethane	ug/L	20	19.5	98	59-138	
1,1,2-Trichloroethane	ug/L	20	19.4	97	69-127	
1,1-Dichloroethane	ug/L	20	19.2	96	69-126	
1,1-Dichloroethene	ug/L	20	21.2	106	65-153	
1,2-Dichlorobenzene	ug/L	20	19.6	98	66-126	
1,2-Dichloroethane	ug/L	20	19.1	95	71-129	
1,2-Dichloropropane	ug/L	20	21.7	108	66-140	
1,3-Dichlorobenzene	ug/L	20	19.7	99	63-127	
1,4-Dichlorobenzene	ug/L	20	19.2	96	68-124	
2-Chloroethylvinyl ether	ug/L	20	28.4	142	33-159	
Benzene	ug/L	20	21.6	108	73-129	
Bromodichloromethane	ug/L	20	20.0	100	63-129	
Bromoform	ug/L	20	19.0	95	52-123	
Bromomethane	ug/L	20	32.3	162	10-160	L0
Carbon tetrachloride	ug/L	20	20.9	105	70-140	
Chlorobenzene	ug/L	20	20.4	102	68-127	
Chloroethane	ug/L	20	21.9	109	42-160	
Chloroform	ug/L	20	20.0	100	60-120	
Chloromethane	ug/L	20	22.8	114	10-160	
cis-1,2-Dichloroethene	ug/L	20	20.8	104	70-125	
cis-1,3-Dichloropropene	ug/L	20	21.2	106	66-132	
Dibromochloromethane	ug/L	20	19.3	96	63-134	
Ethylbenzene	ug/L	20	20.6	103	66-133	
Methylene chloride	ug/L	20	19.9	99	56-135	
Tetrachloroethene	ug/L	20	21.4	107	64-143	
Toluene	ug/L	20	21.4	107	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.3	101	67-149	
trans-1,3-Dichloropropene	ug/L	20	22.6	113	66-138	
Trichloroethene	ug/L	20	20.1	101	71-130	
Trichlorofluoromethane	ug/L	20	17.4	87	58-158	
Vinyl chloride	ug/L	20	20.7	103	41-160	
Xylene (Total)	ug/L	60	61.8	103	67-130	
1,2-Dichloroethane-d4 (S)	%			90	80-120	
4-Bromofluorobenzene (S)	%			102	80-120	
Dibromofluoromethane (S)	%			93	80-120	
Toluene-d8 (S)	%			99	80-120	

MATRIX SPIKE SAMPLE: 1196203

Parameter	Units	60145428001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	4000	4330	108	52-160	
1,1,2,2-Tetrachloroethane	ug/L	ND	4000	4250	106	46-157	
1,1,2-Trichloroethane	ug/L	ND	4000	4060	101	52-150	
1,1-Dichloroethane	ug/L	ND	4000	3960	99	59-155	
1,1-Dichloroethene	ug/L	ND	4000	4310	108	14-160	
1,2-Dichlorobenzene	ug/L	ND	4000	4080	102	18-145	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

MATRIX SPIKE SAMPLE:		1196203		60145428001		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	4420	111			12-160		
1,3-Dichlorobenzene	ug/L	ND	4000	4130	103			59-146		
1,4-Dichlorobenzene	ug/L	ND	4000	4230	104			18-147		
2-Chloroethylvinyl ether	ug/L	ND	4000	7760	194			10-160	M1	
Benzene	ug/L	ND	4000	4370	109			37-151		
Bromodichloromethane	ug/L	ND	4000	4010	100			35-155		
Bromoform	ug/L	ND	4000	3830	96			45-133		
Bromomethane	ug/L	ND	4000	4760	119			10-160		
Carbon tetrachloride	ug/L	ND	4000	4220	106			70-140		
Chlorobenzene	ug/L	ND	4000	4190	105			37-153		
Chloroethane	ug/L	ND	4000	3710	93			14-160		
Chloroform	ug/L	ND	4000	4090	101			51-138		
Chloromethane	ug/L	ND	4000	4250	106			10-160		
cis-1,2-Dichloroethene	ug/L	ND	4000	4270	107			19-160		
cis-1,3-Dichloropropene	ug/L	ND	4000	4220	106			10-160		
Dibromochloromethane	ug/L	ND	4000	3990	100			53-149		
Ethylbenzene	ug/L	ND	4000	4290	107			37-154		
Methylene chloride	ug/L	ND	4000	4010	100			15-156		
Tetrachloroethene	ug/L	ND	4000	4310	108			64-148		
Toluene	ug/L	ND	4000	4390	110			47-150		
trans-1,2-Dichloroethene	ug/L	ND	4000	4060	102			54-156		
trans-1,3-Dichloropropene	ug/L	ND	4000	4580	114			17-160		
Trichloroethene	ug/L	ND	4000	4070	102			71-157		
Trichlorofluoromethane	ug/L	ND	4000	3610	90			17-160		
Vinyl chloride	ug/L	ND	4000	3790	95			10-160		
Xylene (Total)	ug/L	ND	12000	12700	106			12-153		
1,2-Dichloroethane-d4 (S)	%				92			80-120		
4-Bromofluorobenzene (S)	%				102			80-120		
Dibromofluoromethane (S)	%				93			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 159-MSD
Pace Project No.: 60145609

QC Batch: OEXT/38637 Analysis Method: EPA 625
QC Batch Method: EPA 625 Analysis Description: 625 MSS
Associated Lab Samples: 60145609001

METHOD BLANK: 1196802 Matrix: Water
Associated Lab Samples: 60145609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	5.0	06/03/13 20:46	
2,4,6-Trichlorophenol	ug/L	ND	5.0	06/03/13 20:46	
2,4-Dichlorophenol	ug/L	ND	5.0	06/03/13 20:46	
2,4-Dimethylphenol	ug/L	ND	5.0	06/03/13 20:46	
2,4-Dinitrophenol	ug/L	ND	50.0	06/03/13 20:46	
2,4-Dinitrotoluene	ug/L	ND	6.0	06/03/13 20:46	
2,6-Dinitrotoluene	ug/L	ND	5.0	06/03/13 20:46	
2-Chloronaphthalene	ug/L	ND	5.0	06/03/13 20:46	
2-Chlorophenol	ug/L	ND	5.0	06/03/13 20:46	
2-Nitrophenol	ug/L	ND	5.0	06/03/13 20:46	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	06/03/13 20:46	
4,6-Dinitro-2-methylphenol	ug/L	ND	25.0	06/03/13 20:46	
4-Bromophenylphenyl ether	ug/L	ND	5.0	06/03/13 20:46	
4-Chloro-3-methylphenol	ug/L	ND	5.0	06/03/13 20:46	
4-Chlorophenylphenyl ether	ug/L	ND	5.0	06/03/13 20:46	
4-Nitrophenol	ug/L	ND	5.0	06/03/13 20:46	
Acenaphthene	ug/L	ND	5.0	06/03/13 20:46	
Acenaphthylene	ug/L	ND	5.0	06/03/13 20:46	
Anthracene	ug/L	ND	5.0	06/03/13 20:46	
Benzidine	ug/L	ND	50.0	06/03/13 20:46	
Benzo(a)anthracene	ug/L	ND	5.0	06/03/13 20:46	
Benzo(a)pyrene	ug/L	ND	5.0	06/03/13 20:46	
Benzo(b)fluoranthene	ug/L	ND	5.0	06/03/13 20:46	
Benzo(g,h,i)perylene	ug/L	ND	5.0	06/03/13 20:46	
Benzo(k)fluoranthene	ug/L	ND	5.0	06/03/13 20:46	
bis(2-Chloroethoxy)methane	ug/L	ND	5.0	06/03/13 20:46	
bis(2-Chloroethyl) ether	ug/L	ND	6.0	06/03/13 20:46	
bis(2-Chloroisopropyl) ether	ug/L	ND	6.0	06/03/13 20:46	
bis(2-Ethylhexyl)phthalate	ug/L	ND	5.0	06/03/13 20:46	
Butylbenzylphthalate	ug/L	ND	5.0	06/03/13 20:46	
Chrysene	ug/L	ND	5.0	06/03/13 20:46	
Di-n-butylphthalate	ug/L	ND	5.0	06/03/13 20:46	
Di-n-octylphthalate	ug/L	ND	5.0	06/03/13 20:46	
Dibenz(a,h)anthracene	ug/L	ND	5.0	06/03/13 20:46	
Diethylphthalate	ug/L	ND	5.0	06/03/13 20:46	
Dimethylphthalate	ug/L	ND	5.0	06/03/13 20:46	
Fluoranthene	ug/L	ND	5.0	06/03/13 20:46	
Fluorene	ug/L	ND	5.0	06/03/13 20:46	
Hexachloro-1,3-butadiene	ug/L	ND	5.0	06/03/13 20:46	
Hexachlorobenzene	ug/L	ND	5.0	06/03/13 20:46	
Hexachlorocyclopentadiene	ug/L	ND	5.0	06/03/13 20:46	
Hexachloroethane	ug/L	ND	5.0	06/03/13 20:46	
Indeno(1,2,3-cd)pyrene	ug/L	ND	5.0	06/03/13 20:46	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD

Project No.: 60145609

METHOD BLANK: 1196802

Matrix: Water

Associated Lab Samples: 60145609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Isophorone	ug/L	ND	5.0	06/03/13 20:46	
N-Nitroso-di-n-propylamine	ug/L	ND	5.0	06/03/13 20:46	
N-Nitrosodimethylamine	ug/L	ND	5.0	06/03/13 20:46	
N-Nitrosodiphenylamine	ug/L	ND	5.0	06/03/13 20:46	
Naphthalene	ug/L	ND	5.0	06/03/13 20:46	
Nitrobenzene	ug/L	ND	5.0	06/03/13 20:46	
Pentachlorophenol	ug/L	ND	5.0	06/03/13 20:46	
Phenanthrene	ug/L	ND	5.0	06/03/13 20:46	
Phenol	ug/L	ND	5.0	06/03/13 20:46	
Pyrene	ug/L	ND	5.0	06/03/13 20:46	
2,4,6-Tribromophenol (S)	%	68	39-119	06/03/13 20:46	
2-Fluorobiphenyl (S)	%	72	36-120	06/03/13 20:46	
2-Fluorophenol (S)	%	39	18-120	06/03/13 20:46	
Nitrobenzene-d5 (S)	%	66	32-120	06/03/13 20:46	
Phenol-d6 (S)	%	27	12-120	06/03/13 20:46	
Terphenyl-d14 (S)	%	72	44-120	06/03/13 20:46	

LABORATORY CONTROL SAMPLE: 1196803

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	34.0	68	44-120	
2,4,6-Trichlorophenol	ug/L	50	36.1	72	48-120	
2,4-Dichlorophenol	ug/L	50	34.9	70	48-120	
2,4-Dimethylphenol	ug/L	50	33.2	66	37-119	
2,4-Dinitrophenol	ug/L	50	33.3J	67	15-153	
2,4-Dinitrotoluene	ug/L	50	38.6	77	54-120	
2,6-Dinitrotoluene	ug/L	50	38.5	77	52-120	
2-Chloronaphthalene	ug/L	50	36.4	73	60-118	
2-Chlorophenol	ug/L	50	33.2	66	44-120	
2-Nitrophenol	ug/L	50	37.0	74	43-120	
3,3'-Dichlorobenzidine	ug/L	50	46.3	93	23-160	
4,6-Dinitro-2-methylphenol	ug/L	50	39.9	80	31-147	
4-Bromophenylphenyl ether	ug/L	50	39.2	78	53-120	
4-Chloro-3-methylphenol	ug/L	50	36.1	72	50-120	
4-Chlorophenylphenyl ether	ug/L	50	38.1	76	54-120	
4-Nitrophenol	ug/L	50	16.5	33	10-120	
Acenaphthene	ug/L	50	35.4	71	51-120	
Acenaphthylene	ug/L	50	36.5	73	51-120	
Anthracene	ug/L	50	39.4	79	54-120	
Benzidine	ug/L	50	17.7J	35	1-124	
Benzo(a)anthracene	ug/L	50	39.2	78	54-120	
Benzo(a)pyrene	ug/L	50	39.7	79	54-120	
Benzo(b)fluoranthene	ug/L	50	37.7	75	57-120	
Benzo(g,h,i)perylene	ug/L	50	39.8	80	54-120	
Benzo(k)fluoranthene	ug/L	50	41.9	84	52-121	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

LABORATORY CONTROL SAMPLE: 1196803

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
bis(2-Chloroethoxy)methane	ug/L	50	36.3	73	51-120	
bis(2-Chloroethyl) ether	ug/L	50	33.6	67	48-120	
bis(2-Chloroisopropyl) ether	ug/L	50	31.4	63	43-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	40.2	80	51-126	
Butylbenzylphthalate	ug/L	50	39.7	79	45-129	
Chrysene	ug/L	50	39.3	79	54-120	
Di-n-butylphthalate	ug/L	50	40.2	80	57-118	
Di-n-octylphthalate	ug/L	50	40.4	81	48-130	
Dibenz(a,h)anthracene	ug/L	50	39.3	79	56-119	
Diethylphthalate	ug/L	50	39.2	78	55-114	
Dimethylphthalate	ug/L	50	38.8	78	54-112	
Fluoranthene	ug/L	50	39.6	79	56-120	
Fluorene	ug/L	50	38.0	76	59-120	
Hexachloro-1,3-butadiene	ug/L	50	33.6	67	41-116	
Hexachlorobenzene	ug/L	50	38.8	78	53-120	
Hexachlorocyclopentadiene	ug/L	100	63.9	64	31-120	
Hexachloroethane	ug/L	50	32.6	65	40-113	
Indeno(1,2,3-cd)pyrene	ug/L	50	39.2	78	55-120	
Isophorone	ug/L	50	35.9	72	51-120	
N-Nitroso-di-n-propylamine	ug/L	50	35.9	72	47-120	
N-Nitrosodimethylamine	ug/L	50	21.3	43	28-120	
N-Nitrosodiphenylamine	ug/L	50	38.8	78	53-120	
Naphthalene	ug/L	50	34.6	69	48-120	
Nitrobenzene	ug/L	50	35.6	71	47-120	
Pentachlorophenol	ug/L	50	39.1	78	43-127	
Phenanthrene	ug/L	50	38.5	77	55-120	
Phenol	ug/L	50	14.5	29	15-112	
Pyrene	ug/L	50	38.5	77	55-115	
2,4,6-Tribromophenol (S)	%			80	39-119	
2-Fluorobiphenyl (S)	%			76	36-120	
2-Fluorophenol (S)	%			41	18-120	
Nitrobenzene-d5 (S)	%			69	32-120	
Phenol-d6 (S)	%			27	12-120	
Terphenyl-d14 (S)	%			79	44-120	

MATRIX SPIKE SAMPLE: 1196804

Parameter	Units	60145748001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	50	26.8	54	44-120	
2,4,6-Trichlorophenol	ug/L	ND	50	28.0	56	37-121	
2,4-Dichlorophenol	ug/L	ND	50	26.6	53	39-120	
2,4-Dimethylphenol	ug/L	ND	50	26.4	53	32-119	
2,4-Dinitrophenol	ug/L	ND	50	27.8J	56	20-157	
2,4-Dinitrotoluene	ug/L	ND	50	31.6	63	39-130	
2,6-Dinitrotoluene	ug/L	ND	50	30.8	62	50-128	
2-Chloronaphthalene	ug/L	ND	50	27.7	55	60-118 M1	
2-Chlorophenol	ug/L	ND	50	24.6	49	35-120	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

MATRIX SPIKE SAMPLE:		1196804						
Parameter	Units	60145748001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers	
2-Nitrophenol	ug/L	ND	50	27.0	54	29-123		
3,3'-Dichlorobenzidine	ug/L	ND	50	33.9	68	10-160		
4,6-Dinitro-2-methylphenol	ug/L	ND	50	31.8	64	27-146		
4-Bromophenylphenyl ether	ug/L	ND	50	30.7	61	53-124		
4-Chloro-3-methylphenol	ug/L	ND	50	28.4	57	33-123		
4-Chlorophenylphenyl ether	ug/L	ND	50	30.4	61	34-125		
4-Nitrophenol	ug/L	ND	50	12.3	25	10-120		
Acenaphthene	ug/L	ND	50	26.4	53	47-120		
Acenaphthylene	ug/L	ND	50	29.2	58	33-120		
Anthracene	ug/L	ND	50	31.0	62	36-121		
Benzidine	ug/L	ND	50	21.2J	42	1-120		
Benzo(a)anthracene	ug/L	ND	50	29.8	60	37-127		
Benzo(a)pyrene	ug/L	ND	50	29.6	59	34-125		
Benzo(b)fluoranthene	ug/L	ND	50	30.1	60	37-131		
Benzo(g,h,i)perylene	ug/L	ND	50	29.8	60	35-128		
Benzo(k)fluoranthene	ug/L	ND	50	31.2	62	34-130		
bis(2-Chloroethoxy)methane	ug/L	ND	50	27.9	56	33-120		
bis(2-Chloroethyl) ether	ug/L	ND	50	25.9	52	32-120		
bis(2-Chloroisopropyl) ether	ug/L	ND	50	26.7	53	36-120		
bis(2-Ethylhexyl)phthalate	ug/L	20.5	50	51.3	62	38-137		
Butylbenzylphthalate	ug/L	ND	50	31.1	62	43-136		
Chrysene	ug/L	ND	50	30.1	60	36-127		
Di-n-butylphthalate	ug/L	ND	50	31.9	64	38-118		
Di-n-octylphthalate	ug/L	ND	50	30.7	61	40-140		
Dibenz(a,h)anthracene	ug/L	ND	50	30.3	61	35-131		
Diethylphthalate	ug/L	ND	50	31.3	63	33-114		
Dimethylphthalate	ug/L	ND	50	31.0	62	34-112		
Fluoranthene	ug/L	ND	50	31.6	63	38-125		
Fluorene	ug/L	ND	50	30.3	61	59-121		
Hexachloro-1,3-butadiene	ug/L	ND	50	26.7	53	27-116		
Hexachlorobenzene	ug/L	ND	50	30.8	62	34-124		
Hexachlorocyclopentadiene	ug/L	ND	100	51.3	51	11-120		
Hexachloroethane	ug/L	ND	50	25.8	52	40-113		
Indeno(1,2,3-cd)pyrene	ug/L	ND	50	30.2	60	38-127		
Isophorone	ug/L	ND	50	27.8	56	31-120		
N-Nitroso-di-n-propylamine	ug/L	ND	50	27.3	55	30-120		
N-Nitrosodimethylamine	ug/L	ND	50	16.0	32	29-120		
N-Nitrosodiphenylamine	ug/L	ND	50	30.4	61	10-139		
Naphthalene	ug/L	ND	50	27.0	54	32-120		
Nitrobenzene	ug/L	ND	50	27.1	54	35-128		
Pentachlorophenol	ug/L	ND	50	30.9	62	38-133		
Phenanthrene	ug/L	ND	50	30.3	61	54-120		
Phenol	ug/L	ND	50	10.1	20	13-112		
Pyrene	ug/L	ND	50	30.6	61	52-115		
2,4,6-Tribromophenol (S)	%				64	39-119		
2-Fluorobiphenyl (S)	%				57	36-120		
2-Fluorophenol (S)	%				28	18-120		
Nitrobenzene-d5 (S)	%				52	32-120		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

MATRIX SPIKE SAMPLE:		1196804					
Parameter	Units	60145748001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenol-d6 (S)	%					19	12-120
Terphenyl-d14 (S)	%					60	44-120

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

QC Batch:	WET/41608	Analysis Method:	EPA 1664A
QC Batch Method:	EPA 1664A	Analysis Description:	1664 HEM, Oil and Grease
Associated Lab Samples:	60145609001		

METHOD BLANK: 1197608 Matrix: Water

Associated Lab Samples: 60145609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	06/01/13 07:59	

LABORATORY CONTROL SAMPLE: 1197609

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	40	36.6	92	78-114	

MATRIX SPIKE SAMPLE: 1197610

Parameter	Units	60145844001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	ND	47.6	43.3	88	78-114	

SAMPLE DUPLICATE: 1197611

Parameter	Units	60145367002 Result	Dup Result	RPD	Max RPD	Qualifiers
Oil and Grease	mg/L	45.3	44.7	1	18	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

QC Batch: WET/41671

Analysis Method: EPA 1664A

QC Batch Method: EPA 1664A

Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 60145609001

METHOD BLANK: 1199295

Matrix: Water

Associated Lab Samples: 60145609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Petroleum Hydrocarbons	mg/L	ND	5.0	06/05/13 14:19	

LABORATORY CONTROL SAMPLE: 1199296

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	20	23.9	119	64-132	

MATRIX SPIKE SAMPLE: 1199297

Parameter	Units	60145609001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Petroleum Hydrocarbons	mg/L	47.8	21.1	159	531	64-132	M1

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

QC Batch: WET/41563

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 60145609001

METHOD BLANK: 1196127

Matrix: Water

Associated Lab Samples: 60145609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	5.0	05/30/13 08:35	

SAMPLE DUPLICATE: 1196128

Parameter	Units	60145607001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	730	723	1	25	

SAMPLE DUPLICATE: 1196129

Parameter	Units	60145604002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	18.0	16.0	12	25	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

QC Batch: WET/41545 Analysis Method: SM 4500-H+B

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

Associated Lab Samples: 60145609001

SAMPLE DUPLICATE: 1195802

Parameter	Units	60145528001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.8	1	5	H6

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD
Pace Project No.: 60145609

QC Batch: WETA/24907 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 60145609001

METHOD BLANK: 1196062 Matrix: Water
Associated Lab Samples: 60145609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	05/30/13 15:01	

LABORATORY CONTROL SAMPLE: 1196063

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

MATRIX SPIKE SAMPLE: 1196064

Parameter	Units	60145388001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.9	93	90-110	

MATRIX SPIKE SAMPLE: 1196065

Parameter	Units	60145389005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	ND	2	1.7	87	90-110	M1

SAMPLE DUPLICATE: 1196066

Parameter	Units	60145391001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	ND	.067J		18	

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QUALITY CONTROL DATA

Project: BRIDGETON LF 159-MSD
Pace Project No.: 60145609

QC Batch: WETA/24954 Analysis Method: EPA 410.4
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
Associated Lab Samples: 60145609001

METHOD BLANK: 1198290 Matrix: Water
Associated Lab Samples: 60145609001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	10.0	06/04/13 07:53	

LABORATORY CONTROL SAMPLE: 1198291

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	50	53.4	107	90-110	

MATRIX SPIKE SAMPLE: 1198292

Parameter	Units	60145053001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	35.7	50	86.0	101	90-110	

MATRIX SPIKE SAMPLE: 1198294

Parameter	Units	60145053003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	ND	50	55.6	101	90-110	

SAMPLE DUPLICATE: 1198293

Parameter	Units	60145053002 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	ND	12.1		25	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 159-MSD

Pace Project No.: 60145609

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

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

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

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

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

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 159-MSD

Pace Project No.: 60145609

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145609001	159-MSD	EPA 200.7	MPRP/22876	EPA 200.7	ICP/18100
60145609001	159-MSD	EPA 200.7	MPRP/22859	EPA 200.7	ICP/18086
60145609001	159-MSD	EPA 245.1	MERP/7394	EPA 245.1	MERC/7351
60145609001	159-MSD	EPA 245.1	MERP/7386	EPA 245.1	MERC/7341
60145609001	159-MSD	EPA 625	OEXT/38637	EPA 625	MSSV/12221
60145609001	159-MSD	EPA 624 Low	MSV/54002		
60145609002	TRIP BLANK	EPA 624 Low	MSV/54002		
60145609001	159-MSD	EPA 1664A	WET/41608		
60145609001	159-MSD	EPA 1664A	WET/41671		
60145609001	159-MSD	SM 2540D	WET/41563		
60145609001	159-MSD	SM 4500-H+B	WET/41545		
60145609001	159-MSD	EPA 350.1	WETA/24907		
60145609001	159-MSD	EPA 410.4	WETA/24954		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60145609



60145609

Client Name: Barr Engineering

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

Tracking #: _____ Pace Shipping Label Used? Yes No

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other

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

Cooler Temperature: 1.8

(circle one)

Date and initials of person examining contents: 5/29/13 [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, pH</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses Matrix: <u>OT</u>		13.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	initial pH BPSN 6.0, added 2.5 mL, Final 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	14. initial pH BPS5 6.0, added 2.5 mL, Final 3.5
Exceptions: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Trip Blank present.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): <u>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: <u>MO</u>

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 5/29/13

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:			
Company: BARR ENGINEERING		Report To: ED GALBRAITH		Attention:			
Address:		Copy To: SCOTT C. FEDAK		Company Name: REPUBLIC SERVICES		REGULATORY AGENCY	
Email To:		Purchase Order No.:		Address:			
Phone:	Fax:	Project Name: BRIDGETON LANDFILL		Pace Quote Reference: 130426_7588		<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 _____	
Requested Due Date/TAT: 5 BUSINESS DAY		Project Number:		Pace Project Manager: Angie Brown 913-563-1402		Site Location: _____ STATE: MO	
				Pace Profile #: 6787 line 2			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives											Y/N ↓ Analysis Test ↓	Requested Analysis Filtered (Y/N)											Residual Chlorine (Y/N)
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	COD 410	pH SM 4500H+B	LF Dis. Metals 200.7 /245 Z		total Metals 200.7/245*	Ammonia EPA 350	Oil/Grease EPA 1664	625 SVOCs	624 VOCs	TSS SM2540D						
					DATE	TIME	DATE	TIME																										
1	3A614	159-MSD 2A614	OT	G	---	---	5/27/13	1425	14	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	50FAU	1813N ^{3.5}	Metals list: 18035 ^{3.5}			
2		TRIP BLANK	---	---	---	---	---	---	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	209AU	CTB	Al,Sb,As,Be,Cd,Cr				
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>Bill Abernathy</i>	5/28/13	1649	<i>Bill Abernathy</i>	5/28/13	1649			
SITE ADDRESS: BRIDGETON LF				E Brackett Pace	5/29	0335	1-8	Y	Y
13570 ST. CHARLES ROCK RD									
BRIDGETON MO 63044									

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:			WILLIAM ABERNATHY
SIGNATURE of SAMPLER:			<i>William Abernathy</i>
DATE Signed (MM/DD/YY):		5/27/13	
Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)

June 05, 2013

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

RE: Project: BRIDGETON LF 165-MSD
Pace Project No.: 60145727

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 30, 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,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: BRIDGETON LF 165-MSD

Pace Project No.: 60145727

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 165-MSD

Pace Project No.: 60145727

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145727001	165-MSD	Water	05/29/13 10:16	05/30/13 02:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 165-MSD

Pace Project No.: 60145727

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145727001	165-MSD	SM 5210B	NDL	1

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: BRIDGETON LF 165-MSD

Pace Project No.: 60145727

Sample: 165-MSD	Lab ID: 60145727001	Collected: 05/29/13 10:16	Received: 05/30/13 02:00	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	51800	mg/L	2.0	1	05/30/13 15:42	06/04/13 14:54		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 165-MSD

Pace Project No.: 60145727

QC Batch: WET/41577

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60145727001

METHOD BLANK: 1196530

Matrix: Water

Associated Lab Samples: 60145727001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/04/13 13:47	

LABORATORY CONTROL SAMPLE: 1196531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	223	112	85-115	

SAMPLE DUPLICATE: 1196532

Parameter	Units	60145744001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	ND	ND		17	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 165-MSD

Pace Project No.: 60145727

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 165-MSD

Pace Project No.: 60145727

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145727001	165-MSD	SM 5210B	WET/41577	SM 5210B	WET/41653

REPORT OF LABORATORY ANALYSIS

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WO#: 60145727



60145727



Sample Condition Upon Receipt

Client Name: Barr Eng.

Courier: Fed Ex UPS USPS Client Commercial Pace Other LRoads

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: _____

Date and initials of person examining contents: 5-30-13 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 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>ROD</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input 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>WY</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: 5/30/13



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: BARR ENGINEERING	Report To: ED GALBRAITH	Attention:
Address:	Copy To: SCOTT C. FEDAK	Company Name: REPUBLIC SERVICES
Email To:	Purchase Order No.:	Address:
Phone: / Fax:	Project Name: BRIDGETON LANDFILL	Pace Quote Reference: 130426_7588
Requested Due Date/TAT: 5 BUSINESS DAY	Project Number:	Pace Project Manager: Angie Brown 913-563-1402
		Pace Profile #: 6787 line 2

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	STATE: <u>MO</u>	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)					
										DATE	TIME	DATE	TIME	UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3		Methanol	Other	BOD SM 5210B	N	N
1	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE		COMPOSITE START				1		Analysis Test																
	165-MSD																								

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>	5/29/13	1700	<i>Bill Abernathy</i>	5/29	1701	
SITE ADDRESS: BRIDGETON LF				Bill Abernathy / PACE	5-30-13	0200	62 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 (MM/DD/YY): 5/29/13						

June 06, 2013

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

RE: Project: BRIDGETON LF 172-MSD
Pace Project No.: 60145818

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 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 172-MSD

Pace Project No.: 60145818

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 172-MSD

Pace Project No.: 60145818

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145818001	172-MSD	Water	05/30/13 13:06	05/31/13 01:17

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 172-MSD

Pace Project No.: 60145818

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145818001	172-MSD	SM 5210B	NDL	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 172-MSD

Pace Project No.: 60145818

Sample: 172-MSD	Lab ID: 60145818001	Collected: 05/30/13 13:06	Received: 05/31/13 01:17	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	05/31/13 10:54	06/05/13 11:40		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 172-MSD

Pace Project No.: 60145818

QC Batch: WET/41600

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60145818001

METHOD BLANK: 1196986

Matrix: Water

Associated Lab Samples: 60145818001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/05/13 11:02	

LABORATORY CONTROL SAMPLE: 1196987

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	197	100	85-115	

SAMPLE DUPLICATE: 1196988

Parameter	Units	60145806001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	120	117	3	17	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 172-MSD

Pace Project No.: 60145818

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 172-MSD

Pace Project No.: 60145818

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145818001	172-MSD	SM 5210B	WET/41600	SM 5210B	WET/41667

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60145818



Client Name: Barr Eng.

Optional
Proj Due Date:
Proj Name:

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 ZIP

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

Cooler Temperature: 2.8

Date and initials of person examining contents: 5-31-13 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. BOD
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: MS

Date: 5/31/13



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		Report To: ED GALBRAITH		Attention:		REGULATORY AGENCY	
Address:		Copy To: SCOTT C. FEDAK		Company Name: REPUBLIC SERVICES			
Email To:		Purchase Order No.:		Address:		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER	
Phone: Fax:		Project Name: BRIDGETON LANDFILL		Pace Quote Reference: 130426_7588		<input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER	
Requested Due Date/TAT: 5 BUSINESS DAY		Project Number:		Pace Project Manager: Angie Brown 913-563-1402		Site Location: MO	
				Pace Profile #: 6787 line 2		STATE: MO	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)											Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.	
						Preservatives													
						Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test ↓	BOD SM 5210B				
1	178-MSD		COMPOSITE START: 5/30/13 1306		1														18224 61
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS SITE CONTACT: BILL ABERNATHY 314-502-1299 SITE ADDRESS: BRIDGETON LF 13570 ST. CHARLES ROCK RD BRIDGETON MO 63044	RELINQUISHED BY / AFFILIATION DATE : 5/30/13 TIME : 1645	ACCEPTED BY / AFFILIATION DATE : 5/30/13 TIME : 1645 BILL ABERNATHY / PACE	SAMPLE CONDITIONS Temp in °C: 2.8 Received on Ice (Y/N): Y Custody Sealed Cooler (Y/N): Y Samples Intact (Y/N): Y
--	--	---	--

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: WILLIAM ABERNATHY					
SIGNATURE of SAMPLER:					

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June 06, 2013

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

RE: Project: BRIDGETON LF 168-MSD
Pace Project No.: 60145827

Dear Ed Galbraith:

Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 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 168-MSD

Pace Project No.: 60145827

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 168-MSD

Pace Project No.: 60145827

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60145827001	168-MSD	Water	05/30/13 07:36	05/31/13 01:17

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRIDGETON LF 168-MSD

Pace Project No.: 60145827

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60145827001	168-MSD	SM 5210B	NDL	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRIDGETON LF 168-MSD

Pace Project No.: 60145827

Sample: 168-MSD	Lab ID: 60145827001	Collected: 05/30/13 07:36	Received: 05/31/13 01:17	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	36400	mg/L	2.0	1	05/31/13 16:28	06/05/13 13:41		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRIDGETON LF 168-MSD

Pace Project No.: 60145827

QC Batch: WET/41606

Analysis Method: SM 5210B

QC Batch Method: SM 5210B

Analysis Description: 5210B BOD, 5 day

Associated Lab Samples: 60145827001

METHOD BLANK: 1197250

Matrix: Water

Associated Lab Samples: 60145827001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	ND	2.0	06/05/13 13:35	

LABORATORY CONTROL SAMPLE: 1197251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	215	109	85-115	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRIDGETON LF 168-MSD

Pace Project No.: 60145827

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 168-MSD

Pace Project No.: 60145827

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60145827001	168-MSD	SM 5210B	WET/41606	SM 5210B	WET/41676

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

WO#: 60145827



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. (circle one)

Cooler Temperature: 2.6

Optional
Proj Due Date:
Proj Name:

Date and initials of person examining contents: 5/31/13 [Signature]

Temperature should be above freezing to 6°C

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>300</u>
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Includes date/time/ID/analyses	Matrix: <u>OT</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 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: 6/3/13

