

January 23, 2017

Mr. J.P. Ilves
JPI Associates, Inc.
725 Market Street
Gloucester City, NJ 08030

Certificate of Analysis

Project Name:	PA Samples without QC Needed	Workorder:	2201462
Purchase Order:		Workorder ID:	Blue Bell Sunoco

Dear Mr. Ilves:

Enclosed are the analytical results for samples received by the laboratory on Tuesday, January 10, 2017.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Debra J. Musser (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Ms. Debra J. Musser
Project Coordinator

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**SAMPLE SUMMARY**

Workorder: 2201462 Blue Bell Sunoco

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2201462001	SB1-1	Solid	1/9/2017 09:45	1/10/2017 19:20	Mr. J.P. Ilves
2201462002	SB1-2	Solid	1/9/2017 10:02	1/10/2017 19:20	Mr. J.P. Ilves
2201462003	SB2-1	Solid	1/9/2017 10:18	1/10/2017 19:20	Mr. J.P. Ilves
2201462004	SB2-2	Solid	1/9/2017 10:34	1/10/2017 19:20	Mr. J.P. Ilves
2201462005	SB3-1	Solid	1/9/2017 11:01	1/10/2017 19:20	Mr. J.P. Ilves
2201462006	SB4-1	Solid	1/9/2017 11:23	1/10/2017 19:20	Mr. J.P. Ilves
2201462007	SB5-2	Solid	1/9/2017 11:58	1/10/2017 19:20	Mr. J.P. Ilves
2201462008	SB6-2	Solid	1/9/2017 12:19	1/10/2017 19:20	Mr. J.P. Ilves
2201462009	SB7-1	Solid	1/9/2017 12:54	1/10/2017 19:20	Mr. J.P. Ilves
2201462010	SB8-2	Solid	1/9/2017 13:24	1/10/2017 19:20	Mr. J.P. Ilves
2201462011	SB9-1	Solid	1/9/2017 13:48	1/10/2017 19:20	Mr. J.P. Ilves
2201462012	SB7W	Water	1/9/2017 14:41	1/10/2017 19:20	Mr. J.P. Ilves
2201462013	FB	Water	1/9/2017 15:02	1/10/2017 19:20	Mr. J.P. Ilves
2201462014	Trip Blank	Water	1/10/2017 19:20	1/10/2017 19:20	Mr. J.P. Ilves

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**SAMPLE SUMMARY**

Workorder: 2201462 Blue Bell Sunoco

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 2201462 Blue Bell Sunoco

Lab ID: 2201462001
Sample ID: SB1-1

Date Collected: 1/9/2017 09:45 Matrix: Solid
Date Received: 1/10/2017 19:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	31.2	SW846 8260B	1/9/17 09:45	DD	1/13/17 15:01	DD	A
Ethylbenzene	845		ug/kg	31.2	SW846 8260B	1/9/17 09:45	DD	1/13/17 15:01	DD	A
Isopropylbenzene	1030		ug/kg	31.2	SW846 8260B	1/9/17 09:45	DD	1/13/17 15:01	DD	A
Methyl t-Butyl Ether	ND		ug/kg	31.2	SW846 8260B	1/9/17 09:45	DD	1/13/17 15:01	DD	A
Naphthalene	ND		ug/kg	62.4	SW846 8260B	1/9/17 09:45	DD	1/13/17 15:01	DD	A
Toluene	1530		ug/kg	31.2	SW846 8260B	1/9/17 09:45	DD	1/13/17 15:01	DD	A
Total Xylenes	7100		ug/kg	93.5	SW846 8260B	1/9/17 09:45	DD	1/13/17 15:01	DD	A
1,2,4-Trimethylbenzene	543		ug/kg	31.2	SW846 8260B	1/9/17 09:45	DD	1/13/17 15:01	DD	A
1,3,5-Trimethylbenzene	367		ug/kg	31.2	SW846 8260B	1/9/17 09:45	DD	1/13/17 15:01	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	123		%	71 - 146	SW846 8260B	1/9/17 09:45	DD	1/13/17 15:01	DD	A
4-Bromofluorobenzene (S)	117		%	46 - 138	SW846 8260B	1/9/17 09:45	DD	1/13/17 15:01	DD	A
Dibromofluoromethane (S)	86.4		%	42 - 143	SW846 8260B	1/9/17 09:45	DD	1/13/17 15:01	DD	A
Toluene-d8 (S)	107		%	54 - 141	SW846 8260B	1/9/17 09:45	DD	1/13/17 15:01	DD	A
WET CHEMISTRY										
Moisture	13.8		%	0.1	S2540G-11			1/20/17 10:34	VKB	
Total Solids	86.2		%	0.1	S2540G-11			1/20/17 10:34	VKB	

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ANALYTICAL RESULTS

Workorder: 2201462 Blue Bell Sunoco

Lab ID: 2201462002

Date Collected: 1/9/2017 10:02

Matrix: Solid

Sample ID: SB1-2

Date Received: 1/10/2017 19:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	6510		ug/kg	350	SW846 8260B	1/9/17 10:02	DD	1/13/17 18:28	DD	A
Ethylbenzene	23700		ug/kg	350	SW846 8260B	1/9/17 10:02	DD	1/13/17 18:28	DD	A
Isopropylbenzene	21600		ug/kg	350	SW846 8260B	1/9/17 10:02	DD	1/13/17 18:28	DD	A
Methyl t-Butyl Ether	ND		ug/kg	350	SW846 8260B	1/9/17 10:02	DD	1/13/17 18:28	DD	A
Naphthalene	1440		ug/kg	701	SW846 8260B	1/9/17 10:02	DD	1/13/17 18:28	DD	A
Toluene	85800		ug/kg	3500	SW846 8260B	1/9/17 10:02	SYB	1/17/17 04:52	SYB	A
Total Xylenes	159000		ug/kg	1050	SW846 8260B	1/9/17 10:02	DD	1/13/17 18:28	DD	A
1,2,4-Trimethylbenzene	32300		ug/kg	350	SW846 8260B	1/9/17 10:02	DD	1/13/17 18:28	DD	A
1,3,5-Trimethylbenzene	11100		ug/kg	350	SW846 8260B	1/9/17 10:02	DD	1/13/17 18:28	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	130		%	71 - 146	SW846 8260B	1/9/17 10:02	SYB	1/17/17 04:52	SYB	A
1,2-Dichloroethane-d4 (S)	267	2	%	71 - 146	SW846 8260B	1/9/17 10:02	DD	1/13/17 18:28	DD	A
4-Bromofluorobenzene (S)	260	4	%	46 - 138	SW846 8260B	1/9/17 10:02	DD	1/13/17 18:28	DD	A
4-Bromofluorobenzene (S)	16.2	5	%	46 - 138	SW846 8260B	1/9/17 10:02	SYB	1/17/17 04:52	SYB	A
Dibromofluoromethane (S)	186	1	%	42 - 143	SW846 8260B	1/9/17 10:02	DD	1/13/17 18:28	DD	A
Dibromofluoromethane (S)	65.2		%	42 - 143	SW846 8260B	1/9/17 10:02	SYB	1/17/17 04:52	SYB	A
Toluene-d8 (S)	244	3	%	54 - 141	SW846 8260B	1/9/17 10:02	DD	1/13/17 18:28	DD	A
Toluene-d8 (S)	64.5		%	54 - 141	SW846 8260B	1/9/17 10:02	SYB	1/17/17 04:52	SYB	A
WET CHEMISTRY										
Moisture	18.0		%	0.1	S2540G-11			1/20/17 10:34	VKB	
Total Solids	82.0		%	0.1	S2540G-11			1/20/17 10:34	VKB	

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ANALYTICAL RESULTS

Workorder: 2201462 Blue Bell Sunoco

Lab ID: 2201462003

Date Collected: 1/9/2017 10:18

Matrix: Solid

Sample ID: SB2-1

Date Received: 1/10/2017 19:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	1110		ug/kg	205	SW846 8260B	1/9/17 10:18	DD	1/13/17 18:51	DD	A
Ethylbenzene	653		ug/kg	205	SW846 8260B	1/9/17 10:18	DD	1/13/17 18:51	DD	A
Isopropylbenzene	298		ug/kg	205	SW846 8260B	1/9/17 10:18	DD	1/13/17 18:51	DD	A
Methyl t-Butyl Ether	ND		ug/kg	205	SW846 8260B	1/9/17 10:18	DD	1/13/17 18:51	DD	A
Naphthalene	ND		ug/kg	409	SW846 8260B	1/9/17 10:18	DD	1/13/17 18:51	DD	A
Toluene	9160		ug/kg	205	SW846 8260B	1/9/17 10:18	DD	1/13/17 18:51	DD	A
Total Xylenes	3640		ug/kg	614	SW846 8260B	1/9/17 10:18	DD	1/13/17 18:51	DD	A
1,2,4-Trimethylbenzene	752		ug/kg	205	SW846 8260B	1/9/17 10:18	DD	1/13/17 18:51	DD	A
1,3,5-Trimethylbenzene	246		ug/kg	205	SW846 8260B	1/9/17 10:18	DD	1/13/17 18:51	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	115		%	71 - 146	SW846 8260B	1/9/17 10:18	DD	1/13/17 18:51	DD	A
4-Bromofluorobenzene (S)	109		%	46 - 138	SW846 8260B	1/9/17 10:18	DD	1/13/17 18:51	DD	A
Dibromofluoromethane (S)	77.5		%	42 - 143	SW846 8260B	1/9/17 10:18	DD	1/13/17 18:51	DD	A
Toluene-d8 (S)	92.8		%	54 - 141	SW846 8260B	1/9/17 10:18	DD	1/13/17 18:51	DD	A
WET CHEMISTRY										
Moisture	9.5		%	0.1	S2540G-11			1/20/17 10:34	VKB	
Total Solids	90.5		%	0.1	S2540G-11			1/20/17 10:34	VKB	

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ANALYTICAL RESULTS

Workorder: 2201462 Blue Bell Sunoco

Lab ID: 2201462004

Date Collected: 1/9/2017 10:34

Matrix: Solid

Sample ID: SB2-2

Date Received: 1/10/2017 19:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	36.5	SW846 8260B	1/9/17 10:34	DD	1/13/17 15:24	DD	A
Ethylbenzene	ND		ug/kg	36.5	SW846 8260B	1/9/17 10:34	DD	1/13/17 15:24	DD	A
Isopropylbenzene	ND		ug/kg	36.5	SW846 8260B	1/9/17 10:34	DD	1/13/17 15:24	DD	A
Methyl t-Butyl Ether	ND		ug/kg	36.5	SW846 8260B	1/9/17 10:34	DD	1/13/17 15:24	DD	A
Naphthalene	ND		ug/kg	72.9	SW846 8260B	1/9/17 10:34	DD	1/13/17 15:24	DD	A
Toluene	ND		ug/kg	36.5	SW846 8260B	1/9/17 10:34	DD	1/13/17 15:24	DD	A
Total Xylenes	ND		ug/kg	109	SW846 8260B	1/9/17 10:34	DD	1/13/17 15:24	DD	A
1,2,4-Trimethylbenzene	ND		ug/kg	36.5	SW846 8260B	1/9/17 10:34	DD	1/13/17 15:24	DD	A
1,3,5-Trimethylbenzene	ND		ug/kg	36.5	SW846 8260B	1/9/17 10:34	DD	1/13/17 15:24	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	141		%	71 - 146	SW846 8260B	1/9/17 10:34	DD	1/13/17 15:24	DD	A
4-Bromofluorobenzene (S)	139	1	%	46 - 138	SW846 8260B	1/9/17 10:34	DD	1/13/17 15:24	DD	A
Dibromofluoromethane (S)	102		%	42 - 143	SW846 8260B	1/9/17 10:34	DD	1/13/17 15:24	DD	A
Toluene-d8 (S)	126		%	54 - 141	SW846 8260B	1/9/17 10:34	DD	1/13/17 15:24	DD	A
WET CHEMISTRY										
Moisture	16.3		%	0.1	S2540G-11			1/20/17 10:34	VKB	
Total Solids	83.7		%	0.1	S2540G-11			1/20/17 10:34	VKB	

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ANALYTICAL RESULTS

Workorder: 2201462 Blue Bell Sunoco

Lab ID: 2201462005
Sample ID: SB3-1

Date Collected: 1/9/2017 11:01 Matrix: Solid
Date Received: 1/10/2017 19:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	73.2		ug/kg	58.8	SW846 8260B	1/9/17 11:01	DD	1/13/17 15:46	DD	A
Ethylbenzene	235		ug/kg	58.8	SW846 8260B	1/9/17 11:01	DD	1/13/17 15:46	DD	A
Isopropylbenzene	237		ug/kg	58.8	SW846 8260B	1/9/17 11:01	DD	1/13/17 15:46	DD	A
Methyl t-Butyl Ether	ND		ug/kg	58.8	SW846 8260B	1/9/17 11:01	DD	1/13/17 15:46	DD	A
Naphthalene	ND		ug/kg	118	SW846 8260B	1/9/17 11:01	DD	1/13/17 15:46	DD	A
Toluene	1480		ug/kg	58.8	SW846 8260B	1/9/17 11:01	DD	1/13/17 15:46	DD	A
Total Xylenes	1490		ug/kg	176	SW846 8260B	1/9/17 11:01	DD	1/13/17 15:46	DD	A
1,2,4-Trimethylbenzene	412		ug/kg	58.8	SW846 8260B	1/9/17 11:01	DD	1/13/17 15:46	DD	A
1,3,5-Trimethylbenzene	140		ug/kg	58.8	SW846 8260B	1/9/17 11:01	DD	1/13/17 15:46	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	295	2	%	71 - 146	SW846 8260B	1/9/17 11:01	DD	1/13/17 15:46	DD	A
4-Bromofluorobenzene (S)	310	4	%	46 - 138	SW846 8260B	1/9/17 11:01	DD	1/13/17 15:46	DD	A
Dibromofluoromethane (S)	216	1	%	42 - 143	SW846 8260B	1/9/17 11:01	DD	1/13/17 15:46	DD	A
Toluene-d8 (S)	284	3	%	54 - 141	SW846 8260B	1/9/17 11:01	DD	1/13/17 15:46	DD	A
WET CHEMISTRY										
Moisture	20.6		%	0.1	S2540G-11			1/20/17 10:34	VKB	
Total Solids	79.4		%	0.1	S2540G-11			1/20/17 10:34	VKB	

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ANALYTICAL RESULTS

Workorder: 2201462 Blue Bell Sunoco

Lab ID: 2201462006
Sample ID: SB4-1

Date Collected: 1/9/2017 11:23 Matrix: Solid
Date Received: 1/10/2017 19:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	40.3	SW846 8260B	1/9/17 11:23	DD	1/13/17 16:10	DD	A
Ethylbenzene	ND		ug/kg	40.3	SW846 8260B	1/9/17 11:23	DD	1/13/17 16:10	DD	A
Isopropylbenzene	ND		ug/kg	40.3	SW846 8260B	1/9/17 11:23	DD	1/13/17 16:10	DD	A
Methyl t-Butyl Ether	ND		ug/kg	40.3	SW846 8260B	1/9/17 11:23	DD	1/13/17 16:10	DD	A
Naphthalene	ND		ug/kg	80.5	SW846 8260B	1/9/17 11:23	DD	1/13/17 16:10	DD	A
Toluene	ND		ug/kg	40.3	SW846 8260B	1/9/17 11:23	DD	1/13/17 16:10	DD	A
Total Xylenes	ND		ug/kg	121	SW846 8260B	1/9/17 11:23	DD	1/13/17 16:10	DD	A
1,2,4-Trimethylbenzene	ND		ug/kg	40.3	SW846 8260B	1/9/17 11:23	DD	1/13/17 16:10	DD	A
1,3,5-Trimethylbenzene	ND		ug/kg	40.3	SW846 8260B	1/9/17 11:23	DD	1/13/17 16:10	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	120		%	71 - 146	SW846 8260B	1/9/17 11:23	DD	1/13/17 16:10	DD	A
4-Bromofluorobenzene (S)	120		%	46 - 138	SW846 8260B	1/9/17 11:23	DD	1/13/17 16:10	DD	A
Dibromofluoromethane (S)	85.3		%	42 - 143	SW846 8260B	1/9/17 11:23	DD	1/13/17 16:10	DD	A
Toluene-d8 (S)	110		%	54 - 141	SW846 8260B	1/9/17 11:23	DD	1/13/17 16:10	DD	A
WET CHEMISTRY										
Moisture	20.0		%	0.1	S2540G-11			1/20/17 10:34	VKB	
Total Solids	80.0		%	0.1	S2540G-11			1/20/17 10:34	VKB	

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ANALYTICAL RESULTS

Workorder: 2201462 Blue Bell Sunoco

Lab ID: **2201462007**
Sample ID: **SB5-2**

Date Collected: 1/9/2017 11:58 Matrix: Solid
Date Received: 1/10/2017 19:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	53.5	SW846 8260B	1/9/17 11:58	DD	1/13/17 16:33	DD	A
Ethylbenzene	ND		ug/kg	53.5	SW846 8260B	1/9/17 11:58	DD	1/13/17 16:33	DD	A
Isopropylbenzene	ND		ug/kg	53.5	SW846 8260B	1/9/17 11:58	DD	1/13/17 16:33	DD	A
Methyl t-Butyl Ether	ND		ug/kg	53.5	SW846 8260B	1/9/17 11:58	DD	1/13/17 16:33	DD	A
Naphthalene	ND		ug/kg	107	SW846 8260B	1/9/17 11:58	DD	1/13/17 16:33	DD	A
Toluene	61.2		ug/kg	53.5	SW846 8260B	1/9/17 11:58	DD	1/13/17 16:33	DD	A
Total Xylenes	ND		ug/kg	161	SW846 8260B	1/9/17 11:58	DD	1/13/17 16:33	DD	A
1,2,4-Trimethylbenzene	ND		ug/kg	53.5	SW846 8260B	1/9/17 11:58	DD	1/13/17 16:33	DD	A
1,3,5-Trimethylbenzene	ND		ug/kg	53.5	SW846 8260B	1/9/17 11:58	DD	1/13/17 16:33	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	133		%	71 - 146	SW846 8260B	1/9/17 11:58	DD	1/13/17 16:33	DD	A
4-Bromofluorobenzene (S)	127		%	46 - 138	SW846 8260B	1/9/17 11:58	DD	1/13/17 16:33	DD	A
Dibromofluoromethane (S)	91.9		%	42 - 143	SW846 8260B	1/9/17 11:58	DD	1/13/17 16:33	DD	A
Toluene-d8 (S)	113		%	54 - 141	SW846 8260B	1/9/17 11:58	DD	1/13/17 16:33	DD	A
WET CHEMISTRY										
Moisture	18.2		%	0.1	S2540G-11			1/20/17 10:34	VKB	
Total Solids	81.8		%	0.1	S2540G-11			1/20/17 10:34	VKB	

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ANALYTICAL RESULTS

Workorder: 2201462 Blue Bell Sunoco

Lab ID: **2201462008**
Sample ID: **SB6-2**

Date Collected: 1/9/2017 12:19 Matrix: Solid
Date Received: 1/10/2017 19:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	37.5	SW846 8260B	1/9/17 12:19	DD	1/13/17 16:56	DD	A
Ethylbenzene	ND		ug/kg	37.5	SW846 8260B	1/9/17 12:19	DD	1/13/17 16:56	DD	A
Isopropylbenzene	ND		ug/kg	37.5	SW846 8260B	1/9/17 12:19	DD	1/13/17 16:56	DD	A
Methyl t-Butyl Ether	ND		ug/kg	37.5	SW846 8260B	1/9/17 12:19	DD	1/13/17 16:56	DD	A
Naphthalene	ND		ug/kg	75.0	SW846 8260B	1/9/17 12:19	DD	1/13/17 16:56	DD	A
Toluene	ND		ug/kg	37.5	SW846 8260B	1/9/17 12:19	DD	1/13/17 16:56	DD	A
Total Xylenes	ND		ug/kg	113	SW846 8260B	1/9/17 12:19	DD	1/13/17 16:56	DD	A
1,2,4-Trimethylbenzene	ND		ug/kg	37.5	SW846 8260B	1/9/17 12:19	DD	1/13/17 16:56	DD	A
1,3,5-Trimethylbenzene	ND		ug/kg	37.5	SW846 8260B	1/9/17 12:19	DD	1/13/17 16:56	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	138		%	71 - 146	SW846 8260B	1/9/17 12:19	DD	1/13/17 16:56	DD	A
4-Bromofluorobenzene (S)	131		%	46 - 138	SW846 8260B	1/9/17 12:19	DD	1/13/17 16:56	DD	A
Dibromofluoromethane (S)	93.4		%	42 - 143	SW846 8260B	1/9/17 12:19	DD	1/13/17 16:56	DD	A
Toluene-d8 (S)	119		%	54 - 141	SW846 8260B	1/9/17 12:19	DD	1/13/17 16:56	DD	A
WET CHEMISTRY										
Moisture	20.4		%	0.1	S2540G-11			1/20/17 10:34	VKB	
Total Solids	79.6		%	0.1	S2540G-11			1/20/17 10:34	VKB	

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ANALYTICAL RESULTS

Workorder: 2201462 Blue Bell Sunoco

Lab ID: 2201462009
Sample ID: SB7-1

Date Collected: 1/9/2017 12:54 Matrix: Solid
Date Received: 1/10/2017 19:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	34.2	SW846 8260B	1/9/17 12:54	DD	1/13/17 17:19	DD	A
Ethylbenzene	ND		ug/kg	34.2	SW846 8260B	1/9/17 12:54	DD	1/13/17 17:19	DD	A
Isopropylbenzene	38.4		ug/kg	34.2	SW846 8260B	1/9/17 12:54	DD	1/13/17 17:19	DD	A
Methyl t-Butyl Ether	ND		ug/kg	34.2	SW846 8260B	1/9/17 12:54	DD	1/13/17 17:19	DD	A
Naphthalene	ND		ug/kg	68.4	SW846 8260B	1/9/17 12:54	DD	1/13/17 17:19	DD	A
Toluene	94.7		ug/kg	34.2	SW846 8260B	1/9/17 12:54	DD	1/13/17 17:19	DD	A
Total Xylenes	227		ug/kg	103	SW846 8260B	1/9/17 12:54	DD	1/13/17 17:19	DD	A
1,2,4-Trimethylbenzene	65.5		ug/kg	34.2	SW846 8260B	1/9/17 12:54	DD	1/13/17 17:19	DD	A
1,3,5-Trimethylbenzene	ND		ug/kg	34.2	SW846 8260B	1/9/17 12:54	DD	1/13/17 17:19	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	131		%	71 - 146	SW846 8260B	1/9/17 12:54	DD	1/13/17 17:19	DD	A
4-Bromofluorobenzene (S)	121		%	46 - 138	SW846 8260B	1/9/17 12:54	DD	1/13/17 17:19	DD	A
Dibromofluoromethane (S)	90.2		%	42 - 143	SW846 8260B	1/9/17 12:54	DD	1/13/17 17:19	DD	A
Toluene-d8 (S)	111		%	54 - 141	SW846 8260B	1/9/17 12:54	DD	1/13/17 17:19	DD	A
WET CHEMISTRY										
Moisture	14.1		%	0.1	S2540G-11			1/20/17 10:34	VKB	
Total Solids	85.9		%	0.1	S2540G-11			1/20/17 10:34	VKB	

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ANALYTICAL RESULTS

Workorder: 2201462 Blue Bell Sunoco

Lab ID: **2201462010**
Sample ID: **SB8-2**

Date Collected: 1/9/2017 13:24 Matrix: Solid
Date Received: 1/10/2017 19:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	35.6	SW846 8260B	1/9/17 13:24	DD	1/13/17 17:42	DD	A
Ethylbenzene	ND		ug/kg	35.6	SW846 8260B	1/9/17 13:24	DD	1/13/17 17:42	DD	A
Isopropylbenzene	ND		ug/kg	35.6	SW846 8260B	1/9/17 13:24	DD	1/13/17 17:42	DD	A
Methyl t-Butyl Ether	ND		ug/kg	35.6	SW846 8260B	1/9/17 13:24	DD	1/13/17 17:42	DD	A
Naphthalene	ND		ug/kg	71.2	SW846 8260B	1/9/17 13:24	DD	1/13/17 17:42	DD	A
Toluene	ND		ug/kg	35.6	SW846 8260B	1/9/17 13:24	DD	1/13/17 17:42	DD	A
Total Xylenes	ND		ug/kg	107	SW846 8260B	1/9/17 13:24	DD	1/13/17 17:42	DD	A
1,2,4-Trimethylbenzene	ND		ug/kg	35.6	SW846 8260B	1/9/17 13:24	DD	1/13/17 17:42	DD	A
1,3,5-Trimethylbenzene	ND		ug/kg	35.6	SW846 8260B	1/9/17 13:24	DD	1/13/17 17:42	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	131		%	71 - 146	SW846 8260B	1/9/17 13:24	DD	1/13/17 17:42	DD	A
4-Bromofluorobenzene (S)	122		%	46 - 138	SW846 8260B	1/9/17 13:24	DD	1/13/17 17:42	DD	A
Dibromofluoromethane (S)	88.9		%	42 - 143	SW846 8260B	1/9/17 13:24	DD	1/13/17 17:42	DD	A
Toluene-d8 (S)	111		%	54 - 141	SW846 8260B	1/9/17 13:24	DD	1/13/17 17:42	DD	A
WET CHEMISTRY										
Moisture	21.6		%	0.1	S2540G-11			1/20/17 10:34	VKB	
Total Solids	78.4		%	0.1	S2540G-11			1/20/17 10:34	VKB	

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ANALYTICAL RESULTS

Workorder: 2201462 Blue Bell Sunoco

Lab ID: **2201462011**
Sample ID: **SB9-1**

Date Collected: 1/9/2017 13:48 Matrix: Solid
Date Received: 1/10/2017 19:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/kg	51.6	SW846 8260B	1/9/17 13:48	DD	1/13/17 18:05	DD	A
Ethylbenzene	ND		ug/kg	51.6	SW846 8260B	1/9/17 13:48	DD	1/13/17 18:05	DD	A
Isopropylbenzene	ND		ug/kg	51.6	SW846 8260B	1/9/17 13:48	DD	1/13/17 18:05	DD	A
Methyl t-Butyl Ether	ND		ug/kg	51.6	SW846 8260B	1/9/17 13:48	DD	1/13/17 18:05	DD	A
Naphthalene	ND		ug/kg	103	SW846 8260B	1/9/17 13:48	DD	1/13/17 18:05	DD	A
Toluene	ND		ug/kg	51.6	SW846 8260B	1/9/17 13:48	DD	1/13/17 18:05	DD	A
Total Xylenes	ND		ug/kg	155	SW846 8260B	1/9/17 13:48	DD	1/13/17 18:05	DD	A
1,2,4-Trimethylbenzene	ND		ug/kg	51.6	SW846 8260B	1/9/17 13:48	DD	1/13/17 18:05	DD	A
1,3,5-Trimethylbenzene	ND		ug/kg	51.6	SW846 8260B	1/9/17 13:48	DD	1/13/17 18:05	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	114		%	71 - 146	SW846 8260B	1/9/17 13:48	DD	1/13/17 18:05	DD	A
4-Bromofluorobenzene (S)	102		%	46 - 138	SW846 8260B	1/9/17 13:48	DD	1/13/17 18:05	DD	A
Dibromofluoromethane (S)	75.9		%	42 - 143	SW846 8260B	1/9/17 13:48	DD	1/13/17 18:05	DD	A
Toluene-d8 (S)	96.4		%	54 - 141	SW846 8260B	1/9/17 13:48	DD	1/13/17 18:05	DD	A
WET CHEMISTRY										
Moisture	15.6		%	0.1	S2540G-11			1/20/17 10:34	VKB	
Total Solids	84.4		%	0.1	S2540G-11			1/20/17 10:34	VKB	



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**ANALYTICAL RESULTS**

Workorder: 2201462 Blue Bell Sunoco

Lab ID: 2201462012

Date Collected: 1/9/2017 14:41

Matrix: Water

Sample ID: SB7W

Date Received: 1/10/2017 19:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	1.2		ug/L	1.0	SW846 8260B			1/13/17 11:53	DD	A
Ethylbenzene	3.6		ug/L	1.0	SW846 8260B			1/13/17 11:53	DD	A
Isopropylbenzene	3.3		ug/L	1.0	SW846 8260B			1/13/17 11:53	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			1/13/17 11:53	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			1/13/17 11:53	DD	A
Toluene	17.8		ug/L	1.0	SW846 8260B			1/13/17 11:53	DD	A
Total Xylenes	23.8		ug/L	3.0	SW846 8260B			1/13/17 11:53	DD	A
1,2,4-Trimethylbenzene	5.5		ug/L	1.0	SW846 8260B			1/13/17 11:53	DD	A
1,3,5-Trimethylbenzene	2.0		ug/L	1.0	SW846 8260B			1/13/17 11:53	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	104		%	62 - 133	SW846 8260B			1/13/17 11:53	DD	A
4-Bromofluorobenzene (S)	106		%	79 - 114	SW846 8260B			1/13/17 11:53	DD	A
Dibromofluoromethane (S)	90.9		%	78 - 116	SW846 8260B			1/13/17 11:53	DD	A
Toluene-d8 (S)	98.8		%	76 - 127	SW846 8260B			1/13/17 11:53	DD	A

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

ANALYTICAL RESULTS

Workorder: 2201462 Blue Bell Sunoco

Lab ID: **2201462013**
Sample ID: **FB**

Date Collected: 1/9/2017 15:02 Matrix: Water
Date Received: 1/10/2017 19:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			1/13/17 10:48	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			1/13/17 10:48	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			1/13/17 10:48	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			1/13/17 10:48	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			1/13/17 10:48	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B			1/13/17 10:48	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			1/13/17 10:48	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/13/17 10:48	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/13/17 10:48	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	107		%	62 - 133	SW846 8260B			1/13/17 10:48	DD	A
4-Bromofluorobenzene (S)	107		%	79 - 114	SW846 8260B			1/13/17 10:48	DD	A
Dibromofluoromethane (S)	91.1		%	78 - 116	SW846 8260B			1/13/17 10:48	DD	A
Toluene-d8 (S)	97.1		%	76 - 127	SW846 8260B			1/13/17 10:48	DD	A

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ANALYTICAL RESULTS

Workorder: 2201462 Blue Bell Sunoco

Lab ID: **2201462014**
Sample ID: **Trip Blank**

Date Collected: 1/10/2017 19:20 Matrix: Water
Date Received: 1/10/2017 19:20

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Benzene	ND		ug/L	1.0	SW846 8260B			1/13/17 11:10	DD	A
Ethylbenzene	ND		ug/L	1.0	SW846 8260B			1/13/17 11:10	DD	A
Isopropylbenzene	ND		ug/L	1.0	SW846 8260B			1/13/17 11:10	DD	A
Methyl t-Butyl Ether	ND		ug/L	1.0	SW846 8260B			1/13/17 11:10	DD	A
Naphthalene	ND		ug/L	2.0	SW846 8260B			1/13/17 11:10	DD	A
Toluene	ND		ug/L	1.0	SW846 8260B			1/13/17 11:10	DD	A
Total Xylenes	ND		ug/L	3.0	SW846 8260B			1/13/17 11:10	DD	A
1,2,4-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/13/17 11:10	DD	A
1,3,5-Trimethylbenzene	ND		ug/L	1.0	SW846 8260B			1/13/17 11:10	DD	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared</i>	<i>By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
1,2-Dichloroethane-d4 (S)	105		%	62 - 133	SW846 8260B			1/13/17 11:10	DD	A
4-Bromofluorobenzene (S)	107		%	79 - 114	SW846 8260B			1/13/17 11:10	DD	A
Dibromofluoromethane (S)	92.3		%	78 - 116	SW846 8260B			1/13/17 11:10	DD	A
Toluene-d8 (S)	98.4		%	76 - 127	SW846 8260B			1/13/17 11:10	DD	A



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Canada: Burlington · Calgary · Centre of Excellence · Edmonton · Fort McMurray · Fort St. John · Grande Prairie · London · Mississauga · Richmond Hill · Saskatoon · Thunder Bay
Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2201462002	1	SB1-2	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 186 and the control limits were 42 to 143. This result was reported at a dilution of 500.				
2201462002	2	SB1-2	SW846 8260B	1,2-Dichloroethane-d4
The surrogate 1,2-Dichloroethane-d4 for method SW846 8260B was outside of control limits. The % Recovery was reported as 267 and the control limits were 71 to 146. This result was reported at a dilution of 500.				
2201462002	3	SB1-2	SW846 8260B	Toluene-d8
The surrogate Toluene-d8 for method SW846 8260B was outside of control limits. The % Recovery was reported as 244 and the control limits were 54 to 141. This result was reported at a dilution of 500.				
2201462002	4	SB1-2	SW846 8260B	4-Bromofluorobenzene
The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 260 and the control limits were 46 to 138. This result was reported at a dilution of 500.				
2201462002	5	SB1-2	SW846 8260B	4-Bromofluorobenzene
The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 16.2 and the control limits were 46 to 138. This result was reported at a dilution of 5000.				
2201462004	1	SB2-2	SW846 8260B	4-Bromofluorobenzene
The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 139 and the control limits were 46 to 138. This result was reported at a dilution of 50.				
2201462005	1	SB3-1	SW846 8260B	Dibromofluoromethane
The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 216 and the control limits were 42 to 143. This result was reported at a dilution of 50.				
2201462005	2	SB3-1	SW846 8260B	1,2-Dichloroethane-d4
The surrogate 1,2-Dichloroethane-d4 for method SW846 8260B was outside of control limits. The % Recovery was reported as 295 and the control limits were 71 to 146. This result was reported at a dilution of 50.				
2201462005	3	SB3-1	SW846 8260B	Toluene-d8
The surrogate Toluene-d8 for method SW846 8260B was outside of control limits. The % Recovery was reported as 284 and the control limits were 54 to 141. This result was reported at a dilution of 50.				
2201462005	4	SB3-1	SW846 8260B	4-Bromofluorobenzene
The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 310 and the control limits were 46 to 138. This result was reported at a dilution of 50.				

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Vancouver Waterloo · Winnipeg · Yellowknife United States: Cincinnati · Everett · Fort Collins · Holland · Houston · Middletown · Salt Lake City · Spring City · York Mexico: Monterrey



34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

**CHAIN OF CUSTODY/
REQUEST FOR ANALYSIS**

Page 7 of 25

Courier:

Tracking the

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /
SAMPLER. INSTRUCTIONS ON THE BACK.



* 2 2 0 1 4 6 2 *

Co. Name: JPI Analytics, Inc.		Contact (Report to): JPI Labs		Address: 725 Market Street, Gloucester, NJ 08030		Phone: 856-456-6500	
Bill to (if different than Report to): SAME		Project Name#: Blue Ball Summit		ALS Quote #:		PO#:	
TAT: ☒ Normal-Standard TAT is 10-12 business days.		Date Required:		Approved By:			
☐ Rush-Subject to ALS approval and surcharges.							
Email? ☒	Fax? ☐	Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time		
		SB1-1	1.5-2.0 off top	10/11/17	0945		
		SB1-2	4.5-5.0 "		1002		
		SB2-1	1.5-2.0 off top		1018		
		SB2-2	4.5-5.0 "		1034		
		SB3-1	1.5-2.0 off top		1101		
		SB4-1	1.5-2.0 "		1123		
		SB5-2	4.5-5.0 off top		1158		
		SB6-2	4.5-5.0 off top	10/17/17	1215		
SAMPLED BY (Please Print): JPI Labs		Project Comments: Release - Intoxication Blue Ball Summit					
Retrieved By / Company Name		Date	Time	Retrieved By / Company Name			
Crimo Forensics		10/17/17	1350	Crimo Forensics			
Diner		11/01/17	1710	Diner			
		1-10	1910	11/10/17			
				10			

***Matrix: A=Air; D=WDrinking Water; G=WGroundwater; O=Oil; Q=Other Liquid; S=L=Sludge; SO=Soil; WP=Wipo; WW=Wastewater

***G=Grb; C=Composillo

Container: WHITE - ORIGINAL CANARY - CUSTOMER COPY

***Container Type: AG=Amber Glass; CG=Clear Glass PL=Plastic. Container Size: 250ml, 500ml, 1L, 5oz, etc. Preservative: HCl, HNO3, NaOH, etc.

Rev. 01-2013



34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

Page 2 of 2

Courier:

Tracking #:

Co. Name: TP Associates, Inc
Contact (Report to): JP Ives, PE Phone: 856.456.6500
Address: 725 Market Street
Gloucester City, NJ 08030

Bill to (if different than Report to): same PO#: 08030

Project Name/ID: Blue Bell Smuxco ALS Quote #:

TAT: ☒ Normal-Standard TAT is 10-12 business days.
☐ Rush-Subject to ALS approval and surcharges.

Email? ☒ Yes ☐ No
Fax? ☐ Yes ☐ No

Sample Description/Location (as it will appear on the lab report)	COC Comments	Sample Date	Military Time
1 SB7-1	1.5-2.0 ft bgs	1/17/17	12:54
2 SB8-2	4.5-5.0 ft bgs	1/17/17	13:24
3 SB9-1	1.5-2.0 ft bgs	1/17/17	13:48
4 SB7W	Downgrade by street (PA 73)	1/17/17	14:45
5			
6	2g. inside	1/17/17	15:02
7 Trip blank	trip blank	1/16/17	6:00
8			

SAMPLED BY (Please Print):			
<u>JP Ives, PE</u>			
Relinquished By / Company Name	Date	Time	Received By / Company Name
<u>JP Ives, PE</u>	1/16/17	13:50	2 Chris Palmer
<u>Chris Palmer</u>	1/16/17	17:10	4 Dina
<u>Dina</u>	1/16/17	19:20	6 Aileen
			8
			10

Project Comments: Relinquished to Blue Bell Smuxco
2890 Belknap Rd Blue Bell, PA 19380
1/17/17 13:50 - 20.3333

Container Type: CG CG CG
Container Size: 40L 40L 40L
Preservatives: None None None

ANALYSES/METHOD REQUESTED

Enter Number of Containers Per Analysis

Receipt Information (Completed by Sample Provider)

Received by: JP Ives
Cooler Temp: 1
Therm. ID: 352
No. of Coolers:
Notes:

Correct container? Y N N N N N
Correct sample volume? Y N N N N N
Correct preservation? Y N N N N N
Headspace/Volatiles? Y N N N N N
Container in good condition? Y N N N N N

Custody seals Present? Y N N N N N
(If present) Seals intact? Y N N N N N
Received on ice? Y N N N N N
COC/Labels complete/accurate? Y N N N N N
Container in good condition? Y N N N N N

ALS FIELD SERVICES

Pickup ☐ Labor ☐ Composite Sampling ☐ Rental Equipment ☐ Other: ☐

SDWA Form 7-10 ☐ CLP-like ☐ NJ-Reduced ☐ NJ-Full ☐ New ☐ If yes, format type:

Seta Samples Collected in?

DOB Criteria Required?

* G=Grab; C=Composites
** Matrix: AP=Air; DW=Drinking Water; GW=Groundwater; OL=Other Liquid; SL=Sludge; SQ=Soil; WP=Wipe; WWW=Wastewater
*** Container Type: AG=Amber Glass; CG=Clear Glass, PL=Plastic. Container Size: 250ml, 500ml, 1L, 50L, etc. Preservative: HCl, HNO3, NaOH, etc.

Table I: Summary of Soil & GW Sample Results for Organic Regulated Substances
 Location: Blue Bell Sunoco, 889 Dekalb Pike, Whitpain Township, Montgomery County, PA 19422
 PADEP Facility: #46-20382
 Sample date: January 9, 2017
 Concentration: Soil - mg/kg
 GW - ug/L

Sample ID	SB1-1	SB1-2	SB2-1	SB2-2	SB3-1	SB4-1	PADEP Residential Soil - MSCs Direct Contact 0 - 15 feet	PADEP Residential Soil - GW MSC VI Screen, used Aquifer	PADEP Residential GW - MSC VI Screen, used Aquifer	PADEP Residential GW - MSCgw Used Aquifer TDS <2500
Lab ID	2201462001	2201462002	2201462003	2201462004	2201462005	2201462006				
Sample depth	1.5 - 2.0 ftbgs	4.5 - 5.0 ftbgs	1.5 - 2.0 ftbgs	4.5 - 5.0 ftbgs	1.5 - 2.0 ftbgs	1.5 - 2.0 ftbgs				
Compound										
Benzene	<MDL	6.51	1.11	<MDL	0.0732	<MDL	57	0.50	5	5
Ethylbenzene	0.845	23.7	0.653	<MDL	0.235	<MDL	10,000	70	700	700
Cumene [isopropylb]	1.03	21.6	0.298	<MDL	0.237	<MDL	7,700	-	-	840
MTBE	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	10,000	2	20	20
Naphthalene	<MDL	1.44	<MDL	<MDL	<MDL	<MDL	4,400	-	-	100
Toluene	1.53	85.8	9.16	<MDL	1.48	<MDL	7,600	100	1,000	1,000
Xylenes [total]	7.1	1.59	3.64	<MDL	1.49	<MDL	10,000	1,000	10,000	10,000
1,2,4-TMB	0.543	32.3	0.752	<MDL	0.412	<MDL	130	-	-	15
1,3,5-TMB	0.367	11.1	0.246	<MDL	0.140	<MDL	110	-	-	420

PA Land Recycling Program [Act2], Chapter 250, Statewide Health Standards, Medium Specific Concentrations for Organic Substances in Groundwater, Appendix A, Table 1 & 3.

PA Land Recycling Program technical Guidance Manual, section IV.A.4, Vapor Intrusion into Buildings from Groundwater and Soil under the Act2, SHS.

None detected = <method detection limit

Table I: Summary of Soil & GW Sample Results for Organic Regulated Substances
Location: Blue Bell Sunoco, 889 Dekalb Pike, Whitpain Township, Montgomery County, PA 19422
PADEP Facility: #46-20382
Sample date: January 9, 2017
Concentration: Soil - mg/kg
 GW - ug/L

Sample ID	SB5 - 2	SB6 - 2	SB7 - 1	SB8 - 2	SB9 - 1	SB7W	PADEP Residential Soil - MSCs Direct Contact 0 - 15 feet	PADEP Residential Soil - GW MSC VI Screen, used Aquifer	PADEP Residential GW - MSC VI Screen, used Aquifer	PADEP Residential GW - MSCgw Used Aquifer TDS <2500
Lab ID	2201462007	2201462008	2201462009	2201462010	2201462011	2201462012				
Sample depth	4.5 - 5.0 ftbgs	4.5 - 5.0 ftbgs	1.5 - 2.0 ftbgs	4.5 - 5.0 ftbgs	1.5 - 2.0 ftbgs	6.0 ftbgs [est]				
Compound										
Benzene	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	57	0.50	5	5
Ethylbenzene	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	10,000	70	700	700
Cumene [isopropyl]	<MDL	<MDL	0.384	<MDL	<MDL	<MDL	7,700	-	-	840
MTBE	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	10,000	2	20	20
Naphthalene	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	4,400	-	-	100
Toluene	0.0612	<MDL	0.0947	<MDL	<MDL	<MDL	7,600	100	1,000	1,000
Xylenes [total]	<MDL	<MDL	0.227	<MDL	<MDL	<MDL	10,000	1,000	10,000	10,000
1,2,4-TMB	<MDL	<MDL	0.0655	<MDL	<MDL	<MDL	130	-	-	15
1,3,5-TMB	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL	110	-	-	420

PA Land Recycling Program [Act2], Chapter 250, Statewide Health Standards, Medium Specific Concentrations for Organic Substances in Groundwater, Appendix A, Table 1 & 3.

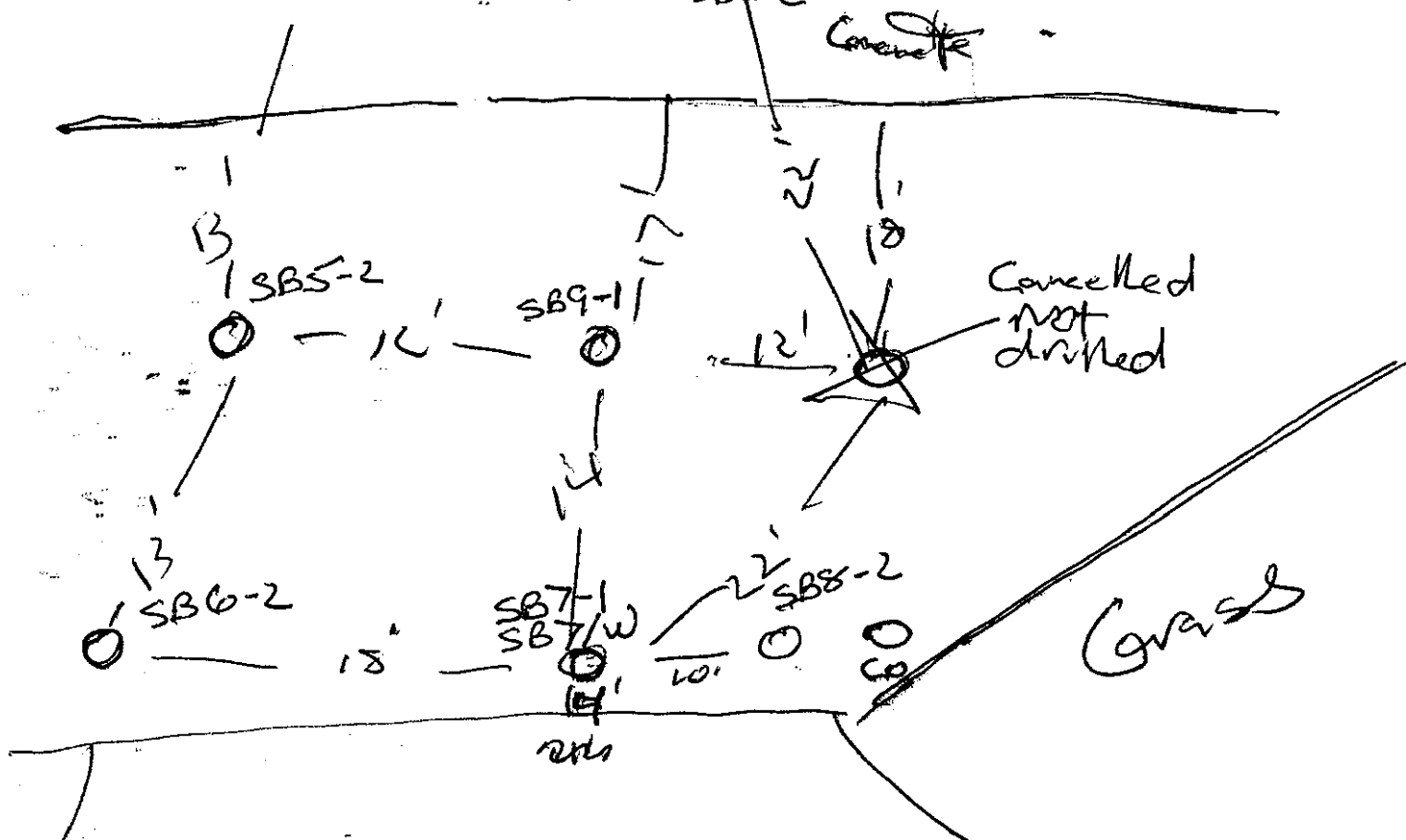
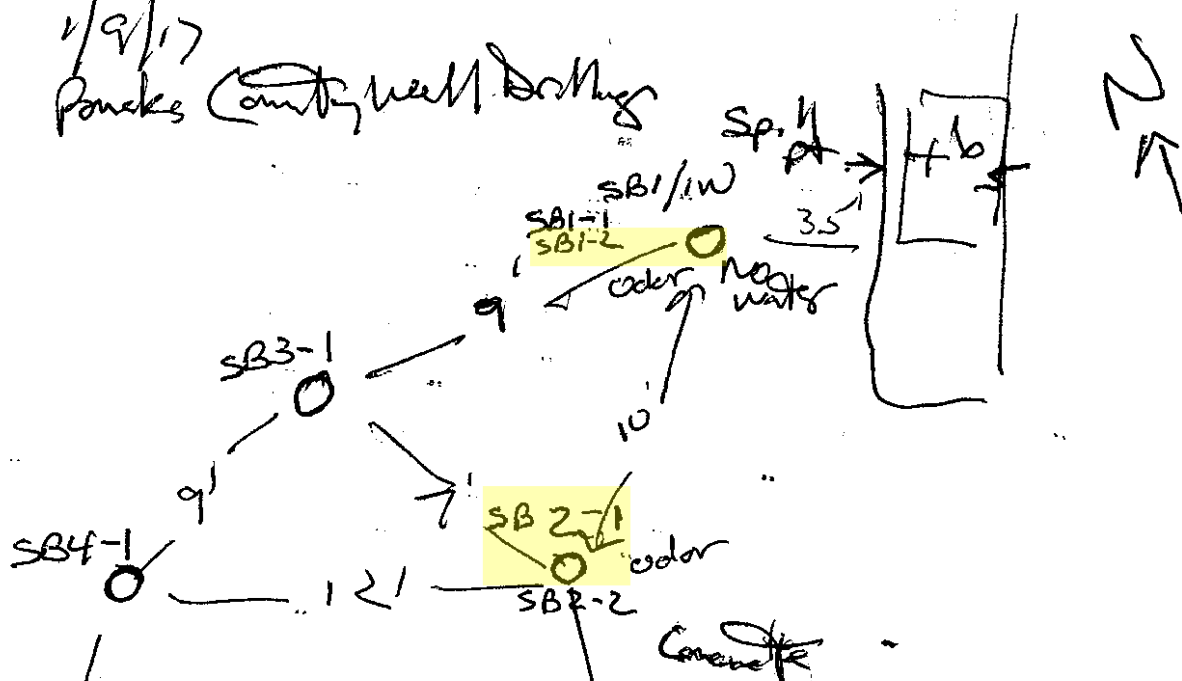
PA Land Recycling Program technical Guidance Manual, section IV.A.4, Vapor Intrusion into Buildings from Groundwater and Soil under the Act2, SHS.
 None detected = <method detection limit

Cored
1/4/17

Blue Bell Smoco

Samples 1/9/17

Poncha County well Drilling



Apium

PAST 73

Scale: As shown



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Edison

777 New Durham Road

Edison, NJ 08817

Tel: (732)549-3900

TestAmerica Job ID: 460-124339-1

Client Project/Site: Blue Bell Sunoco

For:

Environmental Contractors

240 Farmview Drive

Harleysville, Pennsylvania 19438

Attn: Dave Spause

Shalini Williams

Authorized for release by:

11/29/2016 3:51:54 PM

Shalini Williams, Project Management Assistant II

shalini.williams@testamericainc.com

Designee for

Jill Miller, Project Manager II

(732)549-3900

jill.miller@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAP and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: Environmental Contractors
Project/Site: Blue Bell Sunoco

TestAmerica Job ID: 460-124339-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
±	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Environmental Contractors
Project/Site: Blue Bell Sunoco

TestAmerica Job ID: 460-124339-1

Job ID: 460-124339-1

Laboratory: TestAmerica Edison

Narrative

Job Narrative
460-124339-1

Comments

No additional comments.

Receipt

The samples were received on 11/23/2016 1:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.3° C.

Receipt Exceptions

The following samples were moved into a separate job at the client's request. 11/28/16: S-1 (460-124339-1), S-2 (460-124339-2) and S-3 (460-124339-3).

The following sample was moved into a separate job at the client's request. 11/28/16: DISP-1 (460-124339-4).

The following sample was placed on hold by the client on 11/29/16: DISP-1 (460-124339-4).

GC/MS VOA

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: S-2 (460-124339-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: S-1 (460-124339-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: S-3 (460-124339-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Environmental Contractors
Project/Site: Blue Bell Sunoco

TestAmerica Job ID: 460-124339-1

Client Sample ID: S-1

Date Collected: 11/23/16 11:44

Date Received: 11/23/16 13:10

Lab Sample ID: 460-124339-1

Matrix: Solid

Percent Solids: 97.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1700		810		ug/Kg	☼	11/23/16 19:37	11/28/16 15:03	1000
Toluene	160000		810		ug/Kg	☼	11/23/16 19:37	11/28/16 15:03	1000
Ethylbenzene	55000		810		ug/Kg	☼	11/23/16 19:37	11/28/16 15:03	1000
Xylenes, Total	320000		1600		ug/Kg	☼	11/23/16 19:37	11/28/16 15:03	1000
MTBE	ND		810		ug/Kg	☼	11/23/16 19:37	11/28/16 15:03	1000
Naphthalene	9100		810		ug/Kg	☼	11/23/16 19:37	11/28/16 15:03	1000
1,2,4-Trimethylbenzene	100000		810		ug/Kg	☼	11/23/16 19:37	11/28/16 15:03	1000
1,3,5-Trimethylbenzene	35000		810		ug/Kg	☼	11/23/16 19:37	11/28/16 15:03	1000
Isopropylbenzene	55000		810		ug/Kg	☼	11/23/16 19:37	11/28/16 15:03	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	125		69 - 143	11/23/16 19:37	11/28/16 15:03	1000
Toluene-d8 (Surr)	96		67 - 127	11/23/16 19:37	11/28/16 15:03	1000
Bromofluorobenzene	82		61 - 137	11/23/16 19:37	11/28/16 15:03	1000
Dibromofluoromethane (Surr)	104		61 - 135	11/23/16 19:37	11/28/16 15:03	1000

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	2.7		1.0		%			11/28/16 11:58	1
Percent Solids	97.3		1.0		%			11/28/16 11:58	1

Client Sample ID: S-2

Date Collected: 11/23/16 11:57

Date Received: 11/23/16 13:10

Lab Sample ID: 460-124339-2

Matrix: Solid

Percent Solids: 95.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	290		130		ug/Kg	☼	11/23/16 19:37	11/29/16 04:23	250
Toluene	22000		130		ug/Kg	☼	11/23/16 19:37	11/29/16 04:23	250
Ethylbenzene	7800		130		ug/Kg	☼	11/23/16 19:37	11/29/16 04:23	250
Xylenes, Total	48000		270		ug/Kg	☼	11/23/16 19:37	11/29/16 04:23	250
MTBE	ND		130		ug/Kg	☼	11/23/16 19:37	11/29/16 04:23	250
Naphthalene	1900		130		ug/Kg	☼	11/23/16 19:37	11/29/16 04:23	250
1,2,4-Trimethylbenzene	19000		130		ug/Kg	☼	11/23/16 19:37	11/29/16 04:23	250
1,3,5-Trimethylbenzene	6000		130		ug/Kg	☼	11/23/16 19:37	11/29/16 04:23	250
Isopropylbenzene	9000		130		ug/Kg	☼	11/23/16 19:37	11/29/16 04:23	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	137		69 - 143	11/23/16 19:37	11/29/16 04:23	250
Toluene-d8 (Surr)	121		67 - 127	11/23/16 19:37	11/29/16 04:23	250
Bromofluorobenzene	113		61 - 137	11/23/16 19:37	11/29/16 04:23	250
Dibromofluoromethane (Surr)	132		61 - 135	11/23/16 19:37	11/29/16 04:23	250

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	4.7		1.0		%			11/28/16 11:58	1
Percent Solids	95.3		1.0		%			11/28/16 11:58	1

TestAmerica Edison

Client Sample Results

Client: Environmental Contractors
Project/Site: Blue Bell Sunoco

TestAmerica Job ID: 460-124339-1

Client Sample ID: S-3

Lab Sample ID: 460-124339-3

Date Collected: 11/23/16 12:07

Matrix: Solid

Date Received: 11/23/16 13:10

Percent Solids: 94.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	43		42		ug/Kg	☼	11/23/16 19:38	11/29/16 14:46	50
Toluene	1400		42		ug/Kg	☼	11/23/16 19:38	11/29/16 14:46	50
Ethylbenzene	440		42		ug/Kg	☼	11/23/16 19:38	11/29/16 14:46	50
Xylenes, Total	3000		85		ug/Kg	☼	11/23/16 19:38	11/29/16 14:46	50
MTBE	ND		42		ug/Kg	☼	11/23/16 19:38	11/29/16 14:46	50
Naphthalene	600		42		ug/Kg	☼	11/23/16 19:38	11/29/16 14:46	50
1,2,4-Trimethylbenzene	2900		42		ug/Kg	☼	11/23/16 19:38	11/29/16 14:46	50
1,3,5-Trimethylbenzene	830		42		ug/Kg	☼	11/23/16 19:38	11/29/16 14:46	50
Isopropylbenzene	770		42		ug/Kg	☼	11/23/16 19:38	11/29/16 14:46	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	143		69 - 143				11/23/16 19:38	11/29/16 14:46	50
Toluene-d8 (Surr)	118		67 - 127				11/23/16 19:38	11/29/16 14:46	50
Bromofluorobenzene	100		61 - 137				11/23/16 19:38	11/29/16 14:46	50
Dibromofluoromethane (Surr)	114		61 - 135				11/23/16 19:38	11/29/16 14:46	50

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	5.8		1.0		%			11/28/16 11:58	1
Percent Solids	94.2		1.0		%			11/28/16 11:58	1

Lab Chronicle

Client: Environmental Contractors
Project/Site: Blue Bell Sunoco

TestAmerica Job ID: 460-124339-1

Client Sample ID: S-1

Date Collected: 11/23/16 11:44

Date Received: 11/23/16 13:10

Lab Sample ID: 460-124339-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	406693	11/28/16 11:58	GTSV	TAL EDI

Client Sample ID: S-1

Date Collected: 11/23/16 11:44

Date Received: 11/23/16 13:10

Lab Sample ID: 460-124339-1

Matrix: Solid

Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			406193	11/23/16 19:37	AVM	TAL EDI
Total/NA	Analysis	8260C		1000	406639	11/28/16 15:03	EMM	TAL EDI

Client Sample ID: S-2

Date Collected: 11/23/16 11:57

Date Received: 11/23/16 13:10

Lab Sample ID: 460-124339-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	406693	11/28/16 11:58	GTSV	TAL EDI

Client Sample ID: S-2

Date Collected: 11/23/16 11:57

Date Received: 11/23/16 13:10

Lab Sample ID: 460-124339-2

Matrix: Solid

Percent Solids: 95.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			406193	11/23/16 19:37	AVM	TAL EDI
Total/NA	Analysis	8260C		250	406776	11/29/16 04:23	KLB	TAL EDI

Client Sample ID: S-3

Date Collected: 11/23/16 12:07

Date Received: 11/23/16 13:10

Lab Sample ID: 460-124339-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	406693	11/28/16 11:58	GTSV	TAL EDI

Client Sample ID: S-3

Date Collected: 11/23/16 12:07

Date Received: 11/23/16 13:10

Lab Sample ID: 460-124339-3

Matrix: Solid

Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			406193	11/23/16 19:38	AVM	TAL EDI
Total/NA	Analysis	8260C		50	406893	11/29/16 14:46	EMM	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TestAmerica Edison

Certification Summary

Client: Environmental Contractors
Project/Site: Blue Bell Sunoco

TestAmerica Job ID: 460-124339-1

Laboratory: TestAmerica Edison

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-16
New Jersey	NELAP	2	12028	06-30-17
New York	NELAP	2	11452	03-31-17
Pennsylvania	NELAP	3	68-00522	02-28-17
Rhode Island	State Program	1	LAO00132	12-30-16
USDA	Federal		NJCA-003-08	04-04-17

Method Summary

Client: Environmental Contractors
Project/Site: Blue Bell Sunoco

TestAmerica Job ID: 460-124339-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: Environmental Contractors
Project/Site: Blue Bell Sunoco

TestAmerica Job ID: 460-124339-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-124339-1	S-1	Solid	11/23/16 11:44	11/23/16 13:10
460-124339-2	S-2	Solid	11/23/16 11:57	11/23/16 13:10
460-124339-3	S-3	Solid	11/23/16 12:07	11/23/16 13:10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

5.5/5.3
v091

Page 1 of 1

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Name (for report and invoice) <u>David J. Skuse</u>		Samples Name (Printed) <u>DJS</u>		Site/Project Identification <u>1500 Bell Service</u>	
Company <u>ECG LLC</u>		P.O. # <u>4600000</u>		State (Location of site): NJ: ☐ NY: ☐ Other: ☐	
Address <u>240 Franklin PA</u>		Analysis Turnaround Time Standard ☐ Rush Charges Authorized For: 1 Week ☐ 2 Week ☐ Other ☒ ASAP		Regulatory Program: <u>AST Gas Cleanup</u>	
City <u>Harrisburg PA</u>		State <u>PA</u>		City <u>Harrisburg PA</u>	
Phone <u>717-853-8330</u>		Fax <u>717-853-8330</u>		Project No.: <u>124339</u>	
Sample Identification	Date	Time	Matrix	No. of Cont.	ANALYSIS REQUESTED (ENTER X BELOW TO INDICATE REQUEST)
S-1	11/73	11:49	So 2	2	X
S-2	11/73	11:57	So 2	2	X
S-3	12/07	12:07	So 2	2	X
DS-1	12/14	12:14	So 3	3	X
Preservation Used: 1 = ICE, 2 = HCl, 3 = H₂SO₄, 4 = HNO₃, 5 = NaOH Soil: ☐ Water: ☐ 6 = Other ☐ 7 = Other ☐					



460-124339 Chain of Custody

Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by <u>ECG LLC</u>	Company <u>ECG LLC</u>	Date / Time <u>11/73 13:10</u>	Received by <u>Albert Y. Moore</u>	Company <u>TAHOP</u>
Relinquished by <u>Albert Y. Moore</u>	Company <u>TAHOP</u>	Date / Time <u>11/23/16 14:00</u>	Received by <u>2)</u>	Company <u>TAHOP</u>
Relinquished by <u>TAHOP</u>	Company <u>TAHOP</u>	Date / Time <u>11/23 16:15</u>	Received by <u>3) Albert Y. Moore</u>	Company <u>TAHOP</u>
Relinquished by <u>TAHOP</u>	Company <u>TAHOP</u>	Date / Time <u>11/23 17:00</u>	Received by <u>4) Albert Y. Moore</u>	Company <u>TAHOP</u>

Lab/City Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NJ312), North Carolina (No. 578)

TAL - 0016 (0715)

Login Sample Receipt Checklist

Client: Environmental Contractors

Job Number: 460-124339-1

Login Number: 124339

List Source: TestAmerica Edison

List Number: 1

Creator: Gilmore, Julie L

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	IR KOP#1 5.3
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Table 3: Summary of Soil & GW Sample Results for Organic Regulated Substances Location: Blue Bell Sunoco, 889 Dekalb Pike, Whitpain Township, Montgomery County, PA 19422 PADEP Facility: #46-20382 Sample date: July 28, 2017 Concentration: Soil - mg/kg GW - ug/L									
Sample ID	SB10-2	SB11-2	SB12-2	SB13-1	SB13-2	SB14-2		PADEP Residential Soil - MSC, (used Aquifer)	PADEP Residential GW - MSCgw Used Aquifer TDS <2500
Lab ID	2249898001	2249898002	2249898003	2249898004	2249898005	2249898006			
Sample depth	4.5 – 5.0ftbgs	4.5 – 5.0ftbgs	4.5 – 5.0ftbgs	1.5 – 2.0ftbgs	4.5 – 5.0ftbgs	4.5 – 5.0ftbgs			
Compound									
Benzene	1.55	<MDL	<MDL	4.3	0.301	0.506		0.50	5
Ethylbenzene	1.16	<MDL	<MDL	72	0.399	0.399		70	700
Cumene [isopropylb]	0.326	<MDL	<MDL	94.2	0.201	0.201		84	840
MTBE	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL		2	20
Naphthalene	<MDL	<MDL	<MDL	18.3	<MDL	0.253		10	100
Toluene	16.2	<MDL	<MDL	237	0.0487	1.23		100	1,000
Xylenes [total]	5.38	<MDL	<MDL	460	0.147	1.24		1,000	10,000
1,2,4-TMB	0.325	<MDL	<MDL	138	0.0564	0.0298		1.5	15
1,3,5-TMB	<MDL	<MDL	<MDL	51.5	<MDL	0.098		42	420

PA Land Recycling Program [Act2], Chapter 250, Statewide Health Standards, Medium Specific Concentrations for Organic Substances in Groundwater, Appendix A, Table 1 & 3.

PA Land Recycling Program technical Guidance Manual, section IV.A.4, Vapor Intrusion into Buildings from Groundwater and Soil under the Act2, SHS.
None detected = <method detection limit

Table 3: Summary of Soil & GW Sample Results for Organic Regulated Substances Location: Blue Bell Sunoco, 889 Dekalb Pike, Whitpain Township, Montgomery County, PA 19422 PADEP Facility: #46-20382 Sample date: July 28, 2017 Concentration: Soil - mg/kg GW - ug/L									
Sample ID	SB15-1	SB15-2	SB16-1	SB17-1	SB180-1	SB19-1		PADEP Residential Soil - MSC, lused Aquifer1	PADEP Residential GW - MSCgw Used Aquifer TDS <2500
Lab ID	2249898007	2249898008	2249898009	2249898010	2249898011	2249898012			
Sample depth	1.5 – 2.0ftbgs	4.5 – 5.0ftbgs	1.5 – 2.0ftbgs	1.5 – 2.0ftbgs	1.5 – 2.0ftbgs	1.5 – 2.0ftbgs			
Compound									
Benzene	<MDL	0.0608	2.94	<MDL	<MDL	<MDL		0.50	5
Ethylbenzene	<MDL	<MDL	18.6	<MDL	<MDL	<MDL		70	700
Cumene [isopropylb]	<MDL	<MDL	17.6	<MDL	<MDL	<MDL		84	840
MTBE	<MDL	<MDL	<MDL	<MDL	<MDL	<MDL		2	20
Naphthalene	<MDL	<MDL	3.37	0.106	<MDL	<MDL		10	100
Toluene	<MDL	0.0608	85.8	<MDL	<MDL	<MDL		100	1,000
Xylenes [total]	<MDL	<MDL	107	<MDL	<MDL	<MDL		1,000	10,000
1,2,4-TMB	<MDL	<MDL	26.9	<MDL	<MDL	<MDL		1.5	15
1,3,5-TMB	<MDL	<MDL	9.55	<MDL	<MDL	<MDL		42	420

PA Land Recycling Program [Act2], Chapter 250, Statewide Health Standards, Medium Specific Concentrations for Organic Substances in Groundwater, Appendix A, Table 1 & 3.

PA Land Recycling Program technical Guidance Manual, section IV.A.4, Vapor Intrusion into Buildings from Groundwater and Soil under the Act2, SHS.

None detected = <method detection limit

Table 3: Summary of Soil & GW Sample Results for Organic Regulated Substances Location: Blue Bell Sunoco, 889 Dekalb Pike, Whitpain Township, Montgomery County, PA 19422 PADEP Facility: #46-20382 Sample date: July 28, 2017 Concentration: Soil - mg/kg GW - ug/L									
Sample ID	SB20-1		SB12W	SB16W	FB	TB		PADEP Residential Soil - MSC, Iused AquiferI	PADEP Residential GW - MSCgw Used Aquifer TDS <2500
Lab ID	2249898013		2249898014	2249898015	2249898016	2249898017			
Sample depth	1.5 – 2.0ftbgs		7.25ftbgs	6.65ftbgs	NA	NA			
Compound									
Benzene	<MDL		1.6	<MDL	<MDL	<MDL		0.50	5
Ethylbenzene	<MDL		<MDL	<MDL	<MDL	<MDL		70	700
Cumene [isopropylb]	<MDL		2.1	<MDL	<MDL	<MDL		84	840
MTBE	<MDL		4.4	<MDL	<MDL	<MDL		2	20
Naphthalene	<MDL		<MDL	<MDL	<MDL	<MDL		10	100
Toluene	<MDL		<MDL	<MDL	<MDL	<MDL		100	1,000
Xylenes [total]	<MDL		<MDL	<MDL	<MDL	<MDL		1,000	10,000
1,2,4-TMB	<MDL		<MDL	<MDL	<MDL	<MDL		1.5	15
1,3,5-TMB	<MDL		<MDL	<MDL	<MDL	<MDL		42	420

PA Land Recycling Program [Act2], Chapter 250, Statewide Health Standards, Medium Specific Concentrations for Organic Substances in Groundwater, Appendix A, Table 1 & 3.

PA Land Recycling Program technical Guidance Manual, section IV.A.4, Vapor Intrusion into Buildings from Groundwater and Soil under the Act2, SHS.

None detected = <method detection limit