ALS Environmental

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NELAP Certifications: NJ PA010 , NY 11759 , PA 22-293 DoD ELAP: A2LA 0818.01
State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

January 16, 2014

Mr. Tim Fogerty
Hilltop Enterprises, Inc.
1157 Phoenixville Pike
Suite 102
West Chester, PA 19380

Certificate of Analysis

Project Name:	**NJ Soil Cleanup Criteria**	Workorder:	**1066976**
Purchase Order:		Workorder ID:	**Chambers 2013**

Dear Mr. Fogerty,

Enclosed are the analytical results for samples received by the laboratory on Monday, January 13, 2014.

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 Susan Scherer (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.

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

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

CC: Mr. Jim Wegelin

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

Susan Scherer
Project Coordinator

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SAMPLE SUMMARY

Workorder: 1066976 Chambers 2013 Discard Date: 01/30/2014

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
1066976001	CPGP Composite of Grabs	Solid	12/23/13 00:00	1/13/14 20:30	Jim Wegelin
1066976002	CPGP Grab	Solid	12/30/13 00:00	1/13/14 20:30	Jim Wegelin

Workorder Comments:

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”.

Standard Acronyms/Flags

J, B	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

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ANALYTICAL RESULTS

Workorder: 1066976 Chambers 2013

Lab ID: **1066976001** Date Collected: 12/23/2013 00:00 Matrix: Solid

Sample ID: **CPGP Composite of Grabs** Date Received: 1/13/2014 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
SEMIVOLATILES										
Acenaphthene	ND		ug/kg	79.3	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Anthracene	ND		ug/kg	79.3	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Benzo(a)anthracene	ND		ug/kg	79.3	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Benzo(a)pyrene	ND		ug/kg	79.3	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Benzo(b)fluoranthene	ND		ug/kg	79.3	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Benzo(k)fluoranthene	ND		ug/kg	79.3	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Benzyl Alcohol	ND		ug/kg	856	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Butylbenzylphthalate	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
4-Chloro-3-methylphenol	ND		ug/kg	428	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
4-Chloroaniline	ND		ug/kg	428	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
bis(2-Chloroethyl)ether	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
bis(2-Chloroisopropyl)ether	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
2-Chlorophenol	ND		ug/kg	428	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Chrysene	ND		ug/kg	79.3	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
mp-Cresol	ND		ug/kg	428	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
o-Cresol	ND		ug/kg	428	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Di-n-Butylphthalate	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Di-n-Octylphthalate	ND		ug/kg	428	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Dibenzo(a,h)anthracene	ND		ug/kg	79.3	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
3,3-Dichlorobenzidine	ND		ug/kg	238	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
2,4-Dichlorophenol	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Diethylphthalate	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
2,4-Dimethylphenol	ND		ug/kg	428	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Dimethylphthalate	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
2,4-Dinitrophenol	ND		ug/kg	317	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
2,4-Dinitrotoluene	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
2,6-Dinitrotoluene	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Fluoranthene	ND		ug/kg	79.3	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Fluorene	ND		ug/kg	79.3	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Hexachlorobenzene	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Hexachlorobutadiene	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Hexachlorocyclopentadiene	ND		ug/kg	428	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Hexachloroethane	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	79.3	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Isophorone	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Nitrobenzene	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
N-Nitroso-di-n-propylamine	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
N-Nitrosodiphenylamine	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Pentachlorophenol	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A

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ANALYTICAL RESULTS

Workorder: 1066976 Chambers 2013

Lab ID: **1066976001** Date Collected: 12/23/2013 00:00 Matrix: Solid

Sample ID: **CPGP Composite of Grabs** Date Received: 1/13/2014 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Phenol	ND		ug/kg	428	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Pyrene	ND		ug/kg	79.3	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
2,4,5-Trichlorophenol	ND		ug/kg	428	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
2,4,6-Trichlorophenol	ND		ug/kg	159	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
2,4,6-Tribromophenol (S)	51		%	37-123	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
2-Fluorobiphenyl (S)	58.5		%	45-105	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
2-Fluorophenol (S)	25.5	5	%	35-104	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Nitrobenzene-d5 (S)	60.8		%	41-110	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Phenol-d5 (S)	62.2		%	40-100	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
Terphenyl-d14 (S)	53.4		%	38-113	SW846 8270D	1/14/14	MMM	1/14/14 08:35	CGS	A
PCBs										
Total Polychlorinated Biphenyl	ND		mg/kg	0.088	SW846 8082A	1/14/14	JJP	1/14/14 20:27	RWS	A
Aroclor-1016	ND		mg/kg	0.088	SW846 8082A	1/14/14	JJP	1/14/14 20:27	RWS	A
Aroclor-1221	ND		mg/kg	0.088	SW846 8082A	1/14/14	JJP	1/14/14 20:27	RWS	A
Aroclor-1232	ND		mg/kg	0.088	SW846 8082A	1/14/14	JJP	1/14/14 20:27	RWS	A
Aroclor-1242	ND		mg/kg	0.088	SW846 8082A	1/14/14	JJP	1/14/14 20:27	RWS	A
Aroclor-1248	ND		mg/kg	0.088	SW846 8082A	1/14/14	JJP	1/14/14 20:27	RWS	A
Aroclor-1254	ND		mg/kg	0.088	SW846 8082A	1/14/14	JJP	1/14/14 20:27	RWS	A
Aroclor-1260	ND		mg/kg	0.088	SW846 8082A	1/14/14	JJP	1/14/14 20:27	RWS	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyl (S)	56.7		%	46-120	SW846 8082A	1/14/14	JJP	1/14/14 20:27	RWS	A
Tetrachloro-m-xylene (S)	41.7	3	%	52-115	SW846 8082A	1/14/14	JJP	1/14/14 20:27	RWS	A
PESTICIDES										
Aldrin	ND		ug/kg	22.8	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
alpha-BHC	ND		ug/kg	22.8	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
beta-BHC	ND		ug/kg	22.8	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
delta-BHC	ND		ug/kg	22.8	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
gamma-BHC	ND		ug/kg	22.8	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
alpha-Chlordane	ND		ug/kg	22.8	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
gamma-Chlordane	ND		ug/kg	22.8	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
4,4'-DDD	ND		ug/kg	44.2	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
4,4'-DDE	ND		ug/kg	44.2	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
4,4'-DDT	ND		ug/kg	44.2	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
Dieldrin	ND		ug/kg	44.2	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
Endosulfan I	ND		ug/kg	22.8	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
Endosulfan II	ND		ug/kg	44.2	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A

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ANALYTICAL RESULTS

Workorder: 1066976 Chambers 2013

Lab ID: **1066976001** Date Collected: 12/23/2013 00:00 Matrix: Solid

Sample ID: **CPGP Composite of Grabs** Date Received: 1/13/2014 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
Endosulfan Sulfate	ND		ug/kg	44.2	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
Endrin	ND		ug/kg	44.2	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
Endrin Aldehyde	ND		ug/kg	44.2	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
Endrin Ketone	ND		ug/kg	44.2	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
Heptachlor	ND		ug/kg	22.8	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
Heptachlor Epoxide	ND		ug/kg	22.8	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
Methoxychlor	ND		ug/kg	44.2	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
Mirex	ND		ug/kg	44.2	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
Toxaphene	ND		ug/kg	174	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*
Decachlorobiphenyl (S)	56.1		%	30-135	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
Tetrachloro-m-xylene (S)	28	4	%	30-111	SW846 8081B	1/14/14	JJP	1/15/14 19:39	KJH	A
METALS										
Trivalent Chromium	19.4		mg/kg	3.2	Calculation			1/16/14 13:58	JWB	A
Antimony, Total	ND		mg/kg	9.5	SW846 6010C	1/14/14	AAM	1/15/14 05:56	SRT	A1
Arsenic, Total	44.1		mg/kg	9.5	SW846 6010C	1/14/14	AAM	1/15/14 05:56	SRT	A1
Barium, Total	147		mg/kg	3.2	SW846 6010C	1/14/14	AAM	1/16/14 01:26	SRT	A1
Beryllium, Total	ND		mg/kg	3.2	SW846 6010C	1/14/14	AAM	1/16/14 01:26	SRT	A1
Cadmium, Total	ND		mg/kg	0.64	SW846 6010C	1/14/14	AAM	1/15/14 05:56	SRT	A1
Chromium, Total	19.4		mg/kg	3.2	SW846 6010C	1/14/14	AAM	1/15/14 05:56	SRT	A1
Copper, Total	24.4		mg/kg	6.4	SW846 6010C	1/14/14	AAM	1/15/14 05:56	SRT	A1
Lead, Total	9.4		mg/kg	6.4	SW846 6010C	1/14/14	AAM	1/15/14 05:56	SRT	A1
Mercury, Total	0.74		mg/kg	0.076	SW846 7471B	1/15/14	MRT	1/15/14 11:42	MRT	A4
Nickel, Total	23.2		mg/kg	6.4	SW846 6010C	1/14/14	AAM	1/15/14 05:56	SRT	A1
Selenium, Total	17.6		mg/kg	15.9	SW846 6010C	1/14/14	AAM	1/15/14 05:56	SRT	A1
Silver, Total	ND		mg/kg	1.6	SW846 6010C	1/14/14	AAM	1/15/14 05:56	SRT	A1
Thallium, Total	0.91		mg/kg	0.78	SW846 6020A	1/14/14	AAM	1/15/14 10:08	MWO	A2
Vanadium, Total	59.6		mg/kg	3.2	SW846 6010C	1/14/14	AAM	1/15/14 05:56	SRT	A1
Zinc, Total	24.1		mg/kg	6.4	SW846 6010C	1/14/14	AAM	1/15/14 05:56	SRT	A1
WET CHEMISTRY										
Composite Sample	See comment	1			In-House			1/14/13 02:30	MSH	E
Cyanide, Total	ND	2	mg/kg	0.38	SW846 9012B	1/15/14	SYB	1/16/14 11:08	JEP	A5
Hexavalent Chromium	ND		mg/kg	3.1	SW846 7196A	1/14/14	VFB	1/14/14 13:30	VFB	A
Moisture	37.1		%	0.1	S2540G-97			1/14/14 05:14	ECI	A
Total Solids	62.9		%	0.1	S2540G-97			1/14/14 05:14	ECI	A

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ANALYTICAL RESULTS

Workorder: 1066976 Chambers 2013

Lab ID: **1066976001** Date Collected: 12/23/2013 00:00 Matrix: Solid

Sample ID: **CPGP Composite of Grabs** Date Received: 1/13/2014 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
TCLP METALS										
Arsenic, Total	0.065		mg/L	0.056	SW846 6010C	1/15/14	AAM	1/15/14 18:45	SRT	A6
Barium, Total	ND		mg/L	1.1	SW846 6010C	1/15/14	AAM	1/15/14 18:45	SRT	A6
Cadmium, Total	ND		mg/L	0.0044	SW846 6010C	1/15/14	AAM	1/15/14 18:45	SRT	A6
Chromium, Total	0.016		mg/L	0.011	SW846 6010C	1/15/14	AAM	1/15/14 18:45	SRT	A6
Lead, Total	0.014		mg/L	0.013	SW846 6010C	1/15/14	AAM	1/15/14 18:45	SRT	A6
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	1/15/14	MRT	1/15/14 13:22	MRT	A3
Selenium, Total	0.15		mg/L	0.044	SW846 6010C	1/15/14	AAM	1/15/14 18:45	SRT	A6
Silver, Total	ND		mg/L	0.0089	SW846 6010C	1/15/14	AAM	1/15/14 18:45	SRT	A6

Sample Comments:

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

Susan Scherer
Project Coordinator

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ANALYTICAL RESULTS

Workorder: 1066976 Chambers 2013

Lab ID: **1066976002** Date Collected: 12/30/2013 00:00 Matrix: Solid

Sample ID: **CPGP Grab** Date Received: 1/13/2014 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
VOLATILE ORGANICS										
Acetone	ND		ug/kg	37.7	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Acrylonitrile	ND		ug/kg	37.7	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Benzene	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Bromodichloromethane	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Bromoform	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Bromomethane	8.9		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
2-Butanone	ND		ug/kg	37.7	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Carbon Tetrachloride	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Chlorobenzene	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Chlorodibromomethane	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Chloroform	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Chloromethane	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
1,2-Dichlorobenzene	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
1,3-Dichlorobenzene	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
1,4-Dichlorobenzene	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
1,1-Dichloroethane	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
1,2-Dichloroethane	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
1,1-Dichloroethene	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
cis-1,2-Dichloroethene	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
trans-1,2-Dichloroethene	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
1,2-Dichloropropane	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
cis-1,3-Dichloropropene	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
trans-1,3-Dichloropropene	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Ethylbenzene	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
4-Methyl-2-Pentanone(MIBK)	ND		ug/kg	37.7	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Methylene Chloride	59.8	6,7	ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Naphthalene	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Styrene	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
1,1,1,2-Tetrachloroethane	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
1,1,2,2-Tetrachloroethane	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Tetrachloroethene	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Toluene	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Total Xylenes	ND		ug/kg	22.6	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
1,2,4-Trichlorobenzene	ND		ug/kg	18.9	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
1,1,1-Trichloroethane	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
1,1,2-Trichloroethane	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Trichloroethene	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Vinyl Chloride	ND		ug/kg	7.5	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Surrogate Recoveries	*Results*	*Flag*	*Units*	*Limits*	*Method*	*Prepared*	*By*	*Analyzed*	*By*	*Cntr*

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State Certifications: CT PH-0224 , DE ID 11 , GA 914 , MA PA0102 , MD 128 , LA 04162 , VA 421 , WY EPA Region 8 , WV 343

ANALYTICAL RESULTS

Workorder: 1066976 Chambers 2013

Lab ID: **1066976002** Date Collected: 12/30/2013 00:00 Matrix: Solid

Sample ID: **CPGP Grab** Date Received: 1/13/2014 20:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
1,2-Dichloroethane-d4 (S)	76.7		%	56-124	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
4-Bromofluorobenzene (S)	112		%	51-128	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Dibromofluoromethane (S)	81.7		%	62-123	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
Toluene-d8 (S)	85.7		%	59-131	SW846 8260B	1/14/14	CPK	1/15/14 01:35	DD	A3
WET CHEMISTRY										
Moisture	36.0		%	0.1	S2540G-97			1/14/14 05:14	ECI	A
Total Solids	64.0		%	0.1	S2540G-97			1/14/14 05:14	ECI	A

Sample Comments:

The sodium bisulfate preservative specified for the 8260 soil analysis results in the loss of 2-Chloroethylvinyl ether by acidification.

The sodium bisulfate preservative specified for the 8260 soil analysis results in the loss of 2-Chloroethylvinyl ether by acidification.

Susan Scherer
Project Coordinator

ALS Environmental

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ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 1066976 Chambers 2013

PARAMETER QUALIFIERS\FLAGS

[1] This sample was composited per the customers instructions.

[2] Analyte was analyzed past the 14 day holding time.

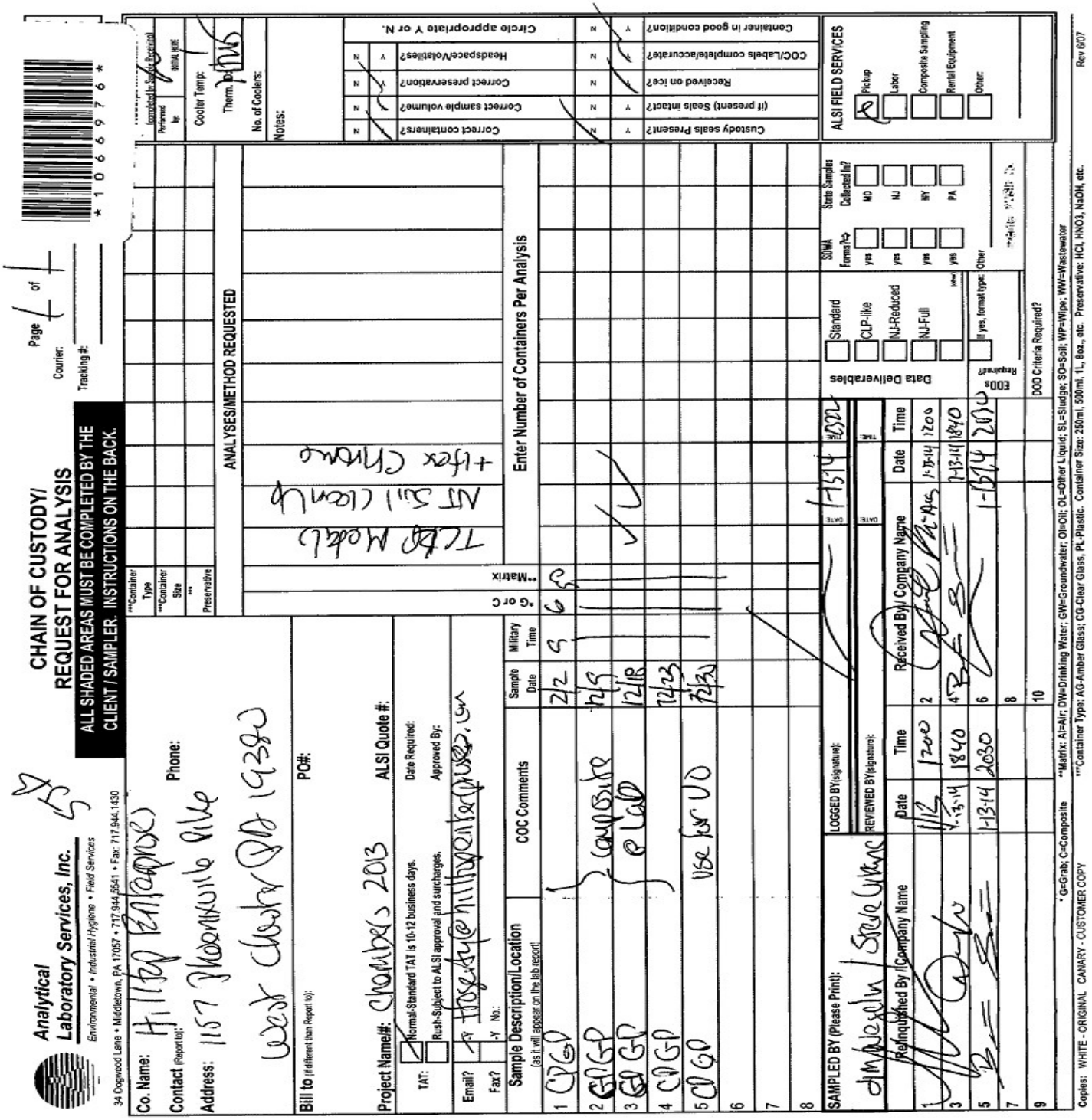
[3] The surrogate Tetrachloro-m-xylene for method SW846 8082A was outside of control limits. The % Recovery was reported as 41.7 and the control limits were 52 to 115. This result was reported at a dilution of 1.

[4] The surrogate Tetrachloro-m-xylene for method SW846 8081B was outside of control limits. The % Recovery was reported as 28 and the control limits were 30 to 111. This result was reported at a dilution of 5.

[5] The surrogate 2-Fluorophenol for method SW846 8270D was outside of control limits. The % Recovery was reported as 25.5 and the control limits were 35 to 104. This result was reported at a dilution of 1.

[6] The QC sample type LCS for method SW846 8260B was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 161 and the control limits were 68 to 133.

[7] The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 160 and the control limits were 68 to 133.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Tracking #:
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Co. Name:
Contact (Report to):
Address:
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Bill to (if different than Report to):
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Project Name/#:
ALSI Quote #:
TAT:
Normal-Standard TAT is 10-12 business days.
Rush-Subject to ALSI approval and surcharges.
Date Required:
Approved By:
Email?
Fax?
No.:
Sample Description/Location
(as it will appear on the lab report)
COC Comments
Sample Date
Military Time
***Container Type
***Container Size
***Preservative
*G or C
**Matrix
ANALYSES/METHOD REQUESTED
Enter Number of Containers Per Analysis
Cooler Temp:
Therm. ID:
No. of Coolers:
Notes:
Circle appropriate Y or N.
Custody seals Present?
(if present) Seals intact?
Received on ice?
COC/Labels complete/accurate?
Headspace/Volatiles?
Correct preservation?
Correct sample volume?
Correct containers?
Container in good condition?
Data Deliverables
Standard
CLP-like
NJ-Reduced
NJ-Full
EDDs Required?
If yes, format type:
SDWA Forms?
State Samples Collected in?
MD
NJ
NY
PA
Other
DOD Criteria Required?
ALSI FIELD SERVICES
Pickup
Labor
Composite Sampling
Rental Equipment
Other:
SAMPLED BY (Please Print):
LOGGED BY(signature):
REVIEWED BY(signature):
Relinquished By/Company Name
Date
Time
Received By/Company Name
Date
Time
* G=Grab; C=Composite
**Matrix: AI=Air; DW=Drinking Water; GW=Groundwater; OI=Oil; OL=Other Liquid; SL=Sludge; SO=Soil; WP=Wipe; WW=Wastewater
***Container Type: AG-Amber Glass; CG-Clear Glass, PL-Plastic. Container Size: 250ml, 500ml, 1L, 8oz., etc. Preservative: HCl, HNO3, NaOH, etc.
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