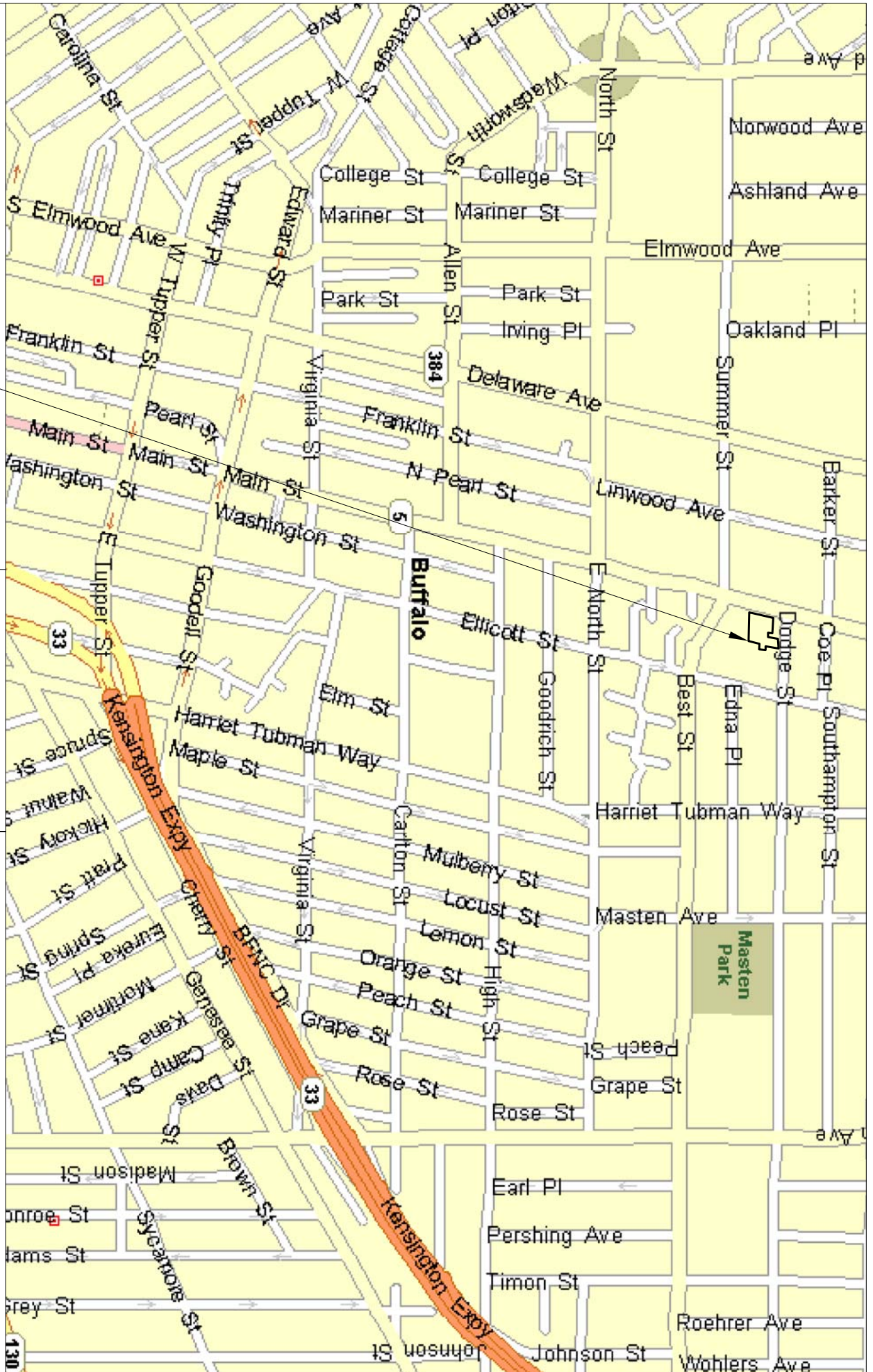
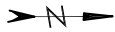


## APPENDIX A

### Site Drawings



APPROXIMATE SITE LOCATION



NOTE:  
 SITE LOCATION PLAN DEVELOPED  
 FROM MICROSOFT STREETS & TRIPS 2006



SITE LOCATION MAP

PHASE II ENVIRONMENTAL SITE ASSESSMENT  
 SUBSURFACE INVESTIGATION  
 SLEEP INN  
 1159 MAIN STREET  
 BUFFALO, NEW YORK

DR BY: JCM	SCALE: NTS	PROJ NO.: BEV-14-003
CHKD BY: DRS	DATE: 02-28-14	FIGURE NO.: 1



## APPENDIX B

### Subsurface Direct Push Logs

## APPENDIX C

### Alpha Analytical Laboratory Report



## ANALYTICAL REPORT

Lab Number:	L1403650
Client:	SJB Services, Inc 5167 South Park Ave. Hamburg, NY 14705
ATTN:	Dave Steiner
Phone:	(716) 649-8110
Project Name:	SLEEP INN
Project Number:	BEV-14-003
Report Date:	02/24/14

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), USDA (Permit #P-330-11-00240), NC (666), TX (T104704476), DOD (L2217), US Army Corps of Engineers.

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>
L1403650-01	DP-3 @ 8-12'	BUFFALO, NY (1159 MAIN ST)	02/17/14 10:15
L1403650-02	DP-7 @ 8-12'	BUFFALO, NY (1159 MAIN ST)	02/17/14 13:15

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

---



**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

### Case Narrative (continued)

#### Report Submission

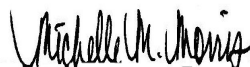
All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Volatile Organics

Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Michelle M. Morris

Title: Technical Director/Representative

Date: 02/24/14

# ORGANICS

# VOLATILES

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

**SAMPLE RESULTS**

Lab ID: L1403650-01  
 Client ID: DP-3 @ 8-12'  
 Sample Location: BUFFALO, NY (1159 MAIN ST)  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 02/20/14 10:05  
 Analyst: BN  
 Percent Solids: 95%

Date Collected: 02/17/14 10:15  
 Date Received: 02/17/14  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Benzene	ND		ug/kg	1.0	0.12	1
Toluene	ND		ug/kg	1.6	0.12	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.11	1
p/m-Xylene	ND		ug/kg	2.1	0.34	1
o-Xylene	ND		ug/kg	2.1	0.28	1
n-Butylbenzene	ND		ug/kg	1.0	0.21	1
sec-Butylbenzene	ND		ug/kg	1.0	0.22	1
tert-Butylbenzene	ND		ug/kg	5.2	0.59	1
Isopropylbenzene	ND		ug/kg	1.0	0.18	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.20	1
Naphthalene	ND		ug/kg	5.2	0.81	1
n-Propylbenzene	ND		ug/kg	1.0	0.13	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.2	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.2	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	97		70-130

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

**SAMPLE RESULTS**

Lab ID: L1403650-02  
 Client ID: DP-7 @ 8-12'  
 Sample Location: BUFFALO, NY (1159 MAIN ST)  
 Matrix: Soil  
 Analytical Method: 1,8260C  
 Analytical Date: 02/20/14 10:33  
 Analyst: BN  
 Percent Solids: 85%

Date Collected: 02/17/14 13:15  
 Date Received: 02/17/14  
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by GC/MS - Westborough Lab</b>						
Benzene	ND		ug/kg	1.2	0.14	1
Toluene	ND		ug/kg	1.8	0.13	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.12	1
p/m-Xylene	ND		ug/kg	2.4	0.38	1
o-Xylene	ND		ug/kg	2.4	0.32	1
n-Butylbenzene	ND		ug/kg	1.2	0.23	1
sec-Butylbenzene	ND		ug/kg	1.2	0.24	1
tert-Butylbenzene	ND		ug/kg	5.9	0.66	1
Isopropylbenzene	ND		ug/kg	1.2	0.20	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.23	1
Naphthalene	ND		ug/kg	5.9	0.91	1
n-Propylbenzene	ND		ug/kg	1.2	0.15	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.9	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.9	0.68	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260C  
Analytical Date: 02/20/14 09:09  
Analyst: BN

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG671580-3					
Benzene	ND		ug/kg	1.0	0.12
Toluene	ND		ug/kg	1.5	0.11
Ethylbenzene	ND		ug/kg	1.0	0.15
Methyl tert butyl ether	ND		ug/kg	2.0	0.10
p/m-Xylene	ND		ug/kg	2.0	0.32
o-Xylene	ND		ug/kg	2.0	0.27
n-Butylbenzene	ND		ug/kg	1.0	0.20
sec-Butylbenzene	ND		ug/kg	1.0	0.20
tert-Butylbenzene	ND		ug/kg	5.0	0.56
Isopropylbenzene	ND		ug/kg	1.0	0.17
p-Isopropyltoluene	ND		ug/kg	1.0	0.19
Naphthalene	ND		ug/kg	5.0	0.77
n-Propylbenzene	ND		ug/kg	1.0	0.12
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.14
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.57

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	95		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG671580-1 WG671580-2								
Methylene chloride	104		101		70-130	3		30
1,1-Dichloroethane	101		100		70-130	1		30
Chloroform	102		99		70-130	3		30
Carbon tetrachloride	101		98		70-130	3		30
1,2-Dichloropropane	105		101		70-130	4		30
Dibromochloromethane	96		94		70-130	2		30
2-Chloroethylvinyl ether	105		101		70-130	4		30
1,1,2-Trichloroethane	102		100		70-130	2		30
Tetrachloroethene	97		92		70-130	5		30
Chlorobenzene	100		97		70-130	3		30
Trichlorofluoromethane	101		99		70-139	2		30
1,2-Dichloroethane	103		102		70-130	1		30
1,1,1-Trichloroethane	99		96		70-130	3		30
Bromodichloromethane	102		100		70-130	2		30
trans-1,3-Dichloropropene	99		98		70-130	1		30
cis-1,3-Dichloropropene	102		99		70-130	3		30
1,1-Dichloropropene	102		100		70-130	2		30
Bromoform	90		92		70-130	2		30
1,1,2,2-Tetrachloroethane	100		102		70-130	2		30
Benzene	100		97		70-130	3		30
Toluene	97		94		70-130	3		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG671580-1 WG671580-2								
Ethylbenzene	100		97		70-130	3		30
Chloromethane	82		80		52-130	2		30
Bromomethane	119		114		57-147	4		30
Vinyl chloride	87		86		67-130	1		30
Chloroethane	97		94		50-151	3		30
1,1-Dichloroethene	97		94		65-135	3		30
trans-1,2-Dichloroethene	97		96		70-130	1		30
Trichloroethene	102		99		70-130	3		30
1,2-Dichlorobenzene	102		101		70-130	1		30
1,3-Dichlorobenzene	104		103		70-130	1		30
1,4-Dichlorobenzene	105		104		70-130	1		30
Methyl tert butyl ether	93		93		66-130	0		30
p/m-Xylene	100		96		70-130	4		30
o-Xylene	98		96		70-130	2		30
cis-1,2-Dichloroethene	100		96		70-130	4		30
Dibromomethane	101		100		70-130	1		30
Styrene	100		97		70-130	3		30
Dichlorodifluoromethane	66		67		30-146	2		30
Acetone	112		108		54-140	4		30
Carbon disulfide	93		90		59-130	3		30
2-Butanone	102		104		70-130	2		30



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG671580-1 WG671580-2								
Vinyl acetate	91		91		70-130	0		30
4-Methyl-2-pentanone	92		96		70-130	4		30
1,2,3-Trichloropropane	101		98		68-130	3		30
2-Hexanone	82		83		70-130	1		30
Bromochloromethane	98		97		70-130	1		30
2,2-Dichloropropane	100		95		70-130	5		30
1,2-Dibromoethane	95		94		70-130	1		30
1,3-Dichloropropane	98		97		69-130	1		30
1,1,1,2-Tetrachloroethane	98		96		70-130	2		30
Bromobenzene	97		96		70-130	1		30
n-Butylbenzene	114		113		70-130	1		30
sec-Butylbenzene	106		103		70-130	3		30
tert-Butylbenzene	101		100		70-130	1		30
o-Chlorotoluene	113		111		70-130	2		30
p-Chlorotoluene	107		105		70-130	2		30
1,2-Dibromo-3-chloropropane	94		99		68-130	5		30
Hexachlorobutadiene	99		98		67-130	1		30
Isopropylbenzene	100		99		70-130	1		30
p-Isopropyltoluene	105		104		70-130	1		30
Naphthalene	95		99		70-130	4		30
Acrylonitrile	93		98		70-130	5		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG671580-1 WG671580-2								
Isopropyl Ether	98		96		66-130	2		30
tert-Butyl Alcohol	91		96		70-130	5		30
n-Propylbenzene	104		103		70-130	1		30
1,2,3-Trichlorobenzene	100		102		70-130	2		30
1,2,4-Trichlorobenzene	107		108		70-130	1		30
1,3,5-Trimethylbenzene	103		102		70-130	1		30
1,2,4-Trimethylbenzene	105		103		70-130	2		30
Methyl Acetate	90		91		51-146	1		30
Ethyl Acetate	84		79		70-130	6		30
Acrolein	85		90		70-130	6		30
Cyclohexane	103		99		59-142	4		30
1,4-Dioxane	107		105		65-136	2		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	103		100		50-139	3		30
1,4-Diethylbenzene	110		108		70-130	2		30
4-Ethyltoluene	106		104		70-130	2		30
1,2,4,5-Tetramethylbenzene	106		104		70-130	2		30
Tetrahydrofuran	84		88		66-130	5		30
Ethyl ether	93		94		67-130	1		30
trans-1,4-Dichloro-2-butene	106		109		70-130	3		30
Methyl cyclohexane	103		99		70-130	4		30
Ethyl-Tert-Butyl-Ether	97		95		70-130	2		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG671580-1 WG671580-2								
Tertiary-Amyl Methyl Ether	94		93		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	100		103		70-130
Dibromofluoromethane	100		101		70-130

# SEMIVOLATILES

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

**SAMPLE RESULTS**

Lab ID: L1403650-01  
 Client ID: DP-3 @ 8-12'  
 Sample Location: BUFFALO, NY (1159 MAIN ST)  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 02/21/14 15:30  
 Analyst: JB  
 Percent Solids: 95%

Date Collected: 02/17/14 10:15  
 Date Received: 02/17/14  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 02/19/14 11:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	140	35.	1
Fluoranthene	62	J	ug/kg	100	31.	1
Naphthalene	ND		ug/kg	170	56.	1
Benzo(a)anthracene	ND		ug/kg	100	33.	1
Benzo(a)pyrene	ND		ug/kg	140	41.	1
Benzo(b)fluoranthene	ND		ug/kg	100	34.	1
Benzo(k)fluoranthene	ND		ug/kg	100	32.	1
Chrysene	ND		ug/kg	100	33.	1
Anthracene	ND		ug/kg	100	28.	1
Benzo(ghi)perylene	ND		ug/kg	140	35.	1
Fluorene	ND		ug/kg	170	48.	1
Phenanthrene	60	J	ug/kg	100	33.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	33.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	38.	1
Pyrene	42	J	ug/kg	100	33.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	83		30-120
4-Terphenyl-d14	96		18-120

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

**SAMPLE RESULTS**

Lab ID: L1403650-02  
 Client ID: DP-7 @ 8-12'  
 Sample Location: BUFFALO, NY (1159 MAIN ST)  
 Matrix: Soil  
 Analytical Method: 1,8270D  
 Analytical Date: 02/21/14 15:58  
 Analyst: JB  
 Percent Solids: 85%

Date Collected: 02/17/14 13:15  
 Date Received: 02/17/14  
 Field Prep: Not Specified  
 Extraction Method: EPA 3546  
 Extraction Date: 02/19/14 11:48

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	160	40.	1
Fluoranthene	ND		ug/kg	120	36.	1
Naphthalene	ND		ug/kg	190	64.	1
Benzo(a)anthracene	ND		ug/kg	120	38.	1
Benzo(a)pyrene	ND		ug/kg	160	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	39.	1
Benzo(k)fluoranthene	ND		ug/kg	120	37.	1
Chrysene	ND		ug/kg	120	38.	1
Anthracene	ND		ug/kg	120	32.	1
Benzo(ghi)perylene	ND		ug/kg	160	40.	1
Fluorene	ND		ug/kg	190	56.	1
Phenanthrene	ND		ug/kg	120	38.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	38.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	43.	1
Pyrene	ND		ug/kg	120	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	77		30-120
4-Terphenyl-d14	55		18-120

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 02/21/14 08:36  
**Analyst:** JB

**Extraction Method:** EPA 3546  
**Extraction Date:** 02/19/14 11:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG671186-1					
Acenaphthene	ND		ug/kg	130	34.
Fluoranthene	ND		ug/kg	98	30.
Naphthalene	ND		ug/kg	160	54.
Benzo(a)anthracene	ND		ug/kg	98	32.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	33.
Benzo(k)fluoranthene	ND		ug/kg	98	31.
Chrysene	ND		ug/kg	98	32.
Anthracene	ND		ug/kg	98	27.
Benzo(ghi)perylene	ND		ug/kg	130	34.
Fluorene	ND		ug/kg	160	47.
Phenanthrene	ND		ug/kg	98	32.
Dibenzo(a,h)anthracene	ND		ug/kg	98	32.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	36.
Pyrene	ND		ug/kg	98	32.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

**Method Blank Analysis**  
**Batch Quality Control**

**Analytical Method:** 1,8270D  
**Analytical Date:** 02/21/14 08:36  
**Analyst:** JB

**Extraction Method:** EPA 3546  
**Extraction Date:** 02/19/14 11:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG671186-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	74		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	82		0-136
4-Terphenyl-d14	81		18-120



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG671186-2 WG671186-3								
Acenaphthene	82		86		31-137	5		50
Benzidine	21		24			13		50
n-Nitrosodimethylamine	70		71			1		50
1,2,4-Trichlorobenzene	82		87		38-107	6		50
Hexachlorobenzene	86		91		40-140	6		50
Bis(2-chloroethyl)ether	75		81		40-140	8		50
2-Chloronaphthalene	82		87		40-140	6		50
1,2-Dichlorobenzene	80		83		40-140	4		50
1,3-Dichlorobenzene	80		83		40-140	4		50
1,4-Dichlorobenzene	80		83		28-104	4		50
3,3'-Dichlorobenzidine	71		76		40-140	7		50
2,4-Dinitrotoluene	84		89		28-89	6		50
2,6-Dinitrotoluene	77		83		40-140	8		50
Fluoranthene	88		91		40-140	3		50
4-Chlorophenyl phenyl ether	84		89		40-140	6		50
4-Bromophenyl phenyl ether	84		89		40-140	6		50
Azobenzene	80		88		40-140	10		50
Bis(2-chloroisopropyl)ether	66		70		40-140	6		50
Bis(2-chloroethoxy)methane	74		80		40-117	8		50
Hexachlorobutadiene	82		87		40-140	6		50
Hexachlorocyclopentadiene	61		67		40-140	9		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG671186-2 WG671186-3								
Hexachloroethane	74		77		40-140	4		50
Isophorone	72		78		40-140	8		50
Naphthalene	79		84		40-140	6		50
Nitrobenzene	80		83		40-140	4		50
NitrosoDiPhenylAmine(NDPA)/DPA	84		89			6		50
n-Nitrosodi-n-propylamine	73		77		32-121	5		50
Bis(2-Ethylhexyl)phthalate	89		96		40-140	8		50
Butyl benzyl phthalate	85		87		40-140	2		50
Di-n-butylphthalate	89		92		40-140	3		50
Di-n-octylphthalate	91		96		40-140	5		50
Diethyl phthalate	83		89		40-140	7		50
Dimethyl phthalate	82		88		40-140	7		50
Benzo(a)anthracene	90		96		40-140	6		50
Benzo(a)pyrene	84		96		40-140	13		50
Benzo(b)fluoranthene	86		90		40-140	5		50
Benzo(k)fluoranthene	88		92		40-140	4		50
Chrysene	88		95		40-140	8		50
Acenaphthylene	77		82		40-140	6		50
Anthracene	88		91		40-140	3		50
Benzo(ghi)perylene	92		97		40-140	5		50
Fluorene	82		89		40-140	8		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG671186-2 WG671186-3								
Phenanthrene	87		90		40-140	3		50
Dibenzo(a,h)anthracene	91		95		40-140	4		50
Indeno(1,2,3-cd)Pyrene	91		95		40-140	4		50
Pyrene	87		90		35-142	3		50
Biphenyl	105		111			6		50
Aniline	47		55		40-140	16		50
4-Chloroaniline	69		69		40-140	0		50
2-Nitroaniline	80		86		47-134	7		50
3-Nitroaniline	36		41		26-129	13		50
4-Nitroaniline	85		90		41-125	6		50
Dibenzofuran	85		91		40-140	7		50
2-Methylnaphthalene	82		87		40-140	6		50
1,2,4,5-Tetrachlorobenzene	104		108		40-117	4		50
Acetophenone	94		98		14-144	4		50
2,4,6-Trichlorophenol	82		89		30-130	8		50
P-Chloro-M-Cresol	81		88		26-103	8		50
2-Chlorophenol	81		86		25-102	6		50
2,4-Dichlorophenol	84		89		30-130	6		50
2,4-Dimethylphenol	74		80		30-130	8		50
2-Nitrophenol	76		83		30-130	9		50
4-Nitrophenol	87		95		11-114	9		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG671186-2 WG671186-3								
2,4-Dinitrophenol	80		85		4-130	6		50
4,6-Dinitro-o-cresol	85		93		10-130	9		50
Pentachlorophenol	91		92		17-109	1		50
Phenol	80		84		26-90	5		50
2-Methylphenol	77		83		30-130.	8		50
3-Methylphenol/4-Methylphenol	79		86		30-130	8		50
2,4,5-Trichlorophenol	83		88		30-130	6		50
Benzoic Acid	63		65			3		50
Benzyl Alcohol	77		81		40-140	5		50
Carbazole	93		94		54-128	1		50
Benzaldehyde	90		95			5		50
Caprolactam	94		98			4		50
Atrazine	105		106			1		50
2,3,4,6-Tetrachlorophenol	85		89			5		50
Pyridine	61		60		10-93	2		50
Parathion, ethyl	86		94		40-140	9		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG671186-2 WG671186-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	93		98		25-120
Phenol-d6	89		92		10-120
Nitrobenzene-d5	85		88		23-120
2-Fluorobiphenyl	89		93		30-120
2,4,6-Tribromophenol	104		108		0-136
4-Terphenyl-d14	97		97		18-120

# **INORGANICS & MISCELLANEOUS**

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

**SAMPLE RESULTS**

**Lab ID:** L1403650-01  
**Client ID:** DP-3 @ 8-12'  
**Sample Location:** BUFFALO, NY (1159 MAIN ST)  
**Matrix:** Soil

**Date Collected:** 02/17/14 10:15  
**Date Received:** 02/17/14  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	95.2		%	0.100	NA	1	-	02/18/14 15:52	30,2540G	SB



**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

**SAMPLE RESULTS**

**Lab ID:** L1403650-02  
**Client ID:** DP-7 @ 8-12'  
**Sample Location:** BUFFALO, NY (1159 MAIN ST)  
**Matrix:** Soil

**Date Collected:** 02/17/14 13:15  
**Date Received:** 02/17/14  
**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.6		%	0.100	NA	1	-	02/18/14 15:52	30,2540G	SB





## Lab Duplicate Analysis

Batch Quality Control

Project Name: SLEEP INN

Project Number: BEV-14-003

Lab Number: L1403650

Report Date: 02/24/14

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG671230-1 QC Sample: L1403611-01 Client ID: DUP Sample						
Solids, Total	94.5	80.3	%	16		20

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

### Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

#### Cooler Information Custody Seal

##### Cooler

A Absent

#### Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1403650-01A	Glass 120ml unpreserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1403650-01B	Amber 250ml unpreserved	A	N/A	2.4	Y	Absent	NYTCL-8270(14),TS(7)
L1403650-02A	Glass 120ml unpreserved	A	N/A	2.4	Y	Absent	NYTCL-8260(14)
L1403650-02B	Amber 250ml unpreserved	A	N/A	2.4	Y	Absent	NYTCL-8270(14),TS(7)

\*Values in parentheses indicate holding time in days

**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

## GLOSSARY

### Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

### Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

### Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit.
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

**Data Qualifiers**

- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



**Project Name:** SLEEP INN  
**Project Number:** BEV-14-003

**Lab Number:** L1403650  
**Report Date:** 02/24/14

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

Last revised December 11, 2013

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### The following analytes are not included in our NELAP Scope of Accreditation:

#### Westborough Facility

**EPA 524.2:** Acetone, 2-Butanone (Methyl ethyl ketone (MEK)), Tert-butyl alcohol, 2-Hexanone, Tetrahydrofuran, 1,3,5-Trichlorobenzene, 4-Methyl-2-pentanone (MIBK), Carbon disulfide, Diethyl ether.

**EPA 8260C:** 1,2,4,5-Tetramethylbenzene, 4-Ethyltoluene, Iodomethane (methyl iodide), Methyl methacrylate, Azobenzene.

**EPA 8330A/B:** PETN, Picric Acid, Nitroglycerine, 2,6-DANT, 2,4-DANT.

**EPA 8270D:** 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 625:** 4-Chloroaniline, 4-Methylphenol.

**SM4500:** Soil: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

**EPA 9071:** Total Petroleum Hydrocarbons, Oil & Grease.

#### Mansfield Facility

**EPA 8270D:** Biphenyl.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

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### The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

#### Drinking Water

**EPA 200.8:** Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7:** Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;

**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B**

**EPA 332:** Perchlorate.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

#### Non-Potable Water

**EPA 200.8:** Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;

**EPA 200.7:** Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;

**EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**

**EPA 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

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For a complete listing of analytes and methods, please contact your Alpha Project Manager.

