BETA Group, Inc.
Engineers • Scientists • Planners

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Norwood, MA 02062
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March 2, 2007

Mr. Scott Alfonse, Director
Department of Environmental Stewardship
City of New Bedford
133 William Street
New Bedford, MA 02740

Re: Keith Middle School - Results of January 20, 2007 Foundation Vent Stack Sampling and Analysis

Dear Scott:

BETA Group, Inc. (BETA) conducted air sampling of the sub-slab foundation ventilation system at the referenced property (the Site) on January 20, 2007. The sampling consisted of the collection of low volume air samples from within four selected rooftop vent stacks. BETA collected the samples using polyurethane foam (PUF) cartridges for analysis of polychlorinated biphenyls (PCBs) and with 2.75-liter SUMMA canisters for analysis of volatile organic compounds (VOCs). The sample collection procedures and analytical methods are described in detail in BETA's Long Term Monitoring and Maintenance Implementation Plan (MMIP), revision 4.0, dated October 20, 2006.

BETA concurrently performed sampling of the Keith Middle School indoor air for PCBs and VOCs. A summary of that portion of the sampling has been provided under separate cover.

Summary of Findings

BETA collected four vent stack air samples (with one duplicate) and one ground level outdoor background sample for PCB analysis. The sampling locations (Vent Stacks VS-1, VS-4, VS-5 and VS-12) are shown on Figure 1. BETA submitted the samples to Alpha Woods Hole Laboratory (Alpha) for analysis. During laboratory analysis, residual PCBs from a previous customer's samples contaminated BETA's samples, rendering them unusable. This included the background and background duplicate samples. Alpha is preparing a written description of the cause and response to this issue that we will forward to you next week.

In accordance with BETA's standard protocol for this project, duplicate samples had been collected from each vent stack and these were subsequently analyzed by Alpha in the place of the originals. No PCBs were detected above their respective method detection limits (MDLs) in any of the stack samples during this round.

BETA also collected four rooftop vent stack samples and one ground level background sample (with duplicate) for VOC analysis. These samples were collected at the same locations as the PCB sample locations shown on Figure 1. These samples were analyzed by Alpha using unrelated laboratory equipment and were therefore unaffected by the contamination described above. Table 1 provides a summary of the VOC results from these four locations.

Twenty two VOCs were detected above their respective MDLs. All of the compounds are attributed to new building construction activities.

Conclusions

No PCBs were detected in the vent stacks above their respective MDLs.

The laboratory detected 22 VOCs in the vent stacks – more than the five detected in the previous round. The increase in the number of compounds detected appears to be the result of the lowered laboratory detection limits which was made possible by the successful reduction of the amount of acetone in the samples. Eight compounds exceeded an Allowable Ambient Limit (AAL) and three compounds (benzene, carbon disulfide, and xylenes) exceeded a Threshold Effects Exposure Limit (TEL).

As in the previous sampling events, despite the detection of VOCs in the vent stacks, BETA has not found any indication that VOC contamination in indoor air is an issue. Of the three compounds detected in the foundation vent stacks above TELs in the January sampling round, only carbon disulfide was above its TEL in indoor air. Carbon disulfide is a constituent in many construction materials and it is commonly present within a new building. According the Occupational Safety and Health Administration, carbon disulfide is used in the manufacture of such materials as paints, enamels, paint removers, varnishes, varnish removers, putty, and rubber cement.

Response to Elevated Acetone Concentrations

During this sampling event, BETA implemented revised sampling activities in response to the detection of elevated acetone concentration in vent stacks in the previous sampling events. BETA reviewed with TRC Solutions the timing of the addition of the acetone-containing surrogate. TRC recommended maintaining the protocol of injecting the surrogate into the PUF media prior to sample collection. Therefore, in order to minimize the potential cross contamination of the SUMMA canister samples from the acetone surrogate in the PUF cartridges, Alpha reduced the amount of acetone surrogate added to each PUF cartridge from 1.0 milliliters to 0.02 milliliters. BETA also ensured that the air flow through the PUF cartridges began before the cartridges were placed in the vent stack. The result is that acetone detections in the vent stacks have decreased from a high of 21,100 $\mu g/M^3$ in the previous round to 125 $\mu g/M^3$ in this round, below both the TEL and AAL for acetone of 160 $\mu g/M^3$.

If you have any questions or comments, please call me at 781-255-1982.

Very truly yours,
BETA Group, Inc.

Alan D. Hanscom, P.E., LSP
Associate

cc: Kim Tisa, EPA Region I
Mayor Scott W. Lang, City of New Bedford
Lawrence Oliveira, Business Manager, NBPS
D. Billo, BETA

Figure 1
Keith Middle School
Foundation Venting System

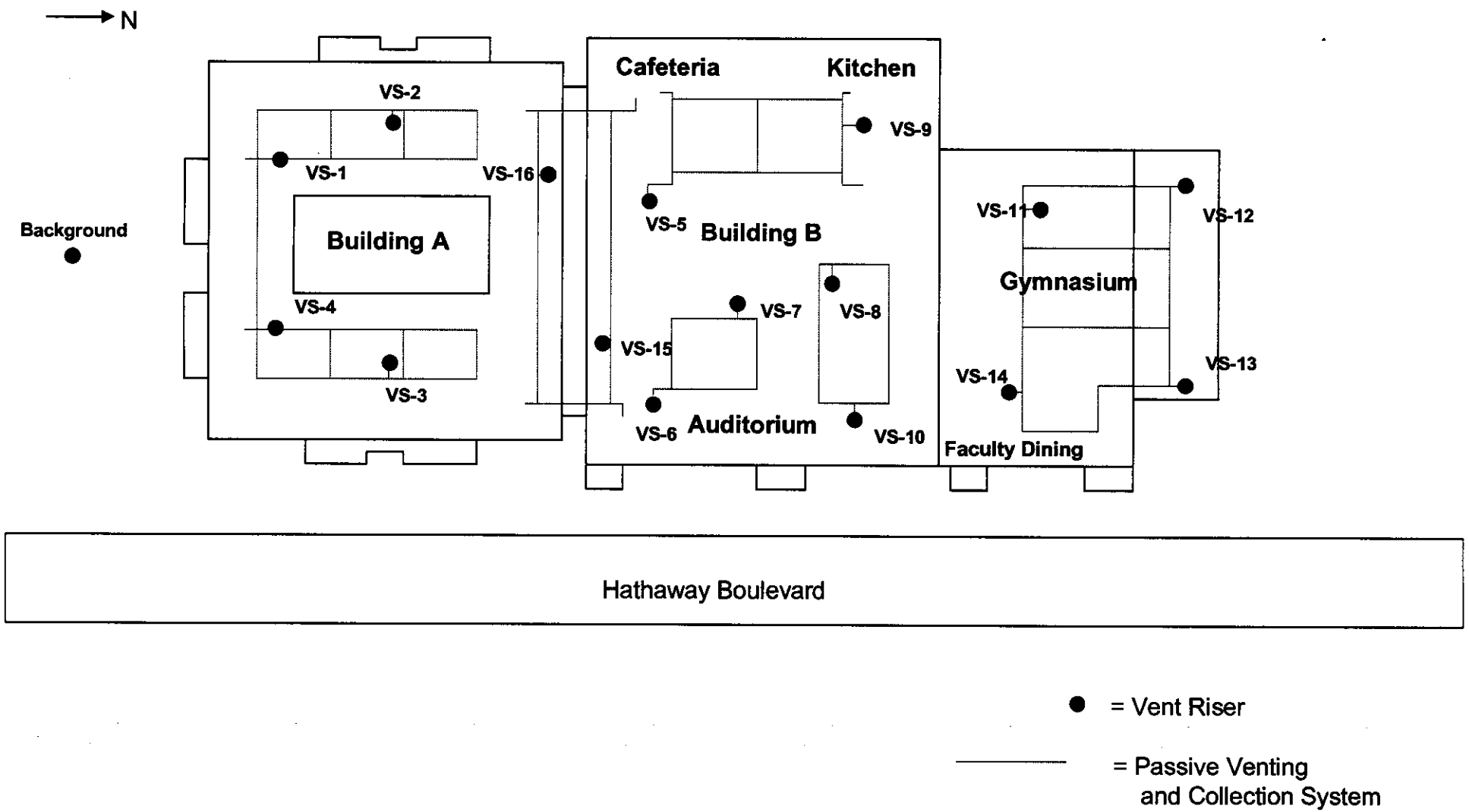

Table 1
New Keith Middle School
Foundation Vent Stack Sampling
January 20, 2007

	A8A VS-1	A8B VS-4	B8B VS-5	C8B VS-12	Background-8	Bkgrnd-8 Dup	Trip Blank	TEL (24-hr avg)	AAL (Annual Avg)	High Conc. Dec. 2001 Soil Gas
Date Sampled:	1/20/07	1/20/07	1/20/07	1/20/07	1/20/07	1/20/07	1/20/07			
Acetone*	125.00	28.70	10.20	BRL	BRL	BRL	BRL	160.54	160.54	95
Benzene	**3.72**	**3.92**	**4.87**	**8.68**	BRL	BRL	BRL	1.74	0.12	27.1
2-Butanone*	**17.50**	BRL	BRL	BRL	BRL	BRL	BRL	200	10	259.5
Carbon Disulfide	**5.22**	**4.33**	**2.62**	**2.57**	**2.22**	**1.58**	BRL	0.1	0.1	18.1
Chloroform	**8.22**	**6.31**	BRL	**4.52**	BRL	BRL	BRL	132.76	0.04	ND
Cyclohexane	2.69	2.54	BRL	17.10	BRL	BRL	BRL	280.82	280.82	106.7
1,2-Dichloroethane	**5.28**	**4.86**	BRL	BRL	BRL	BRL	BRL	11.01	0.04	ND
Ethanol	38.10	5.62	4.24	BRL	BRL	BRL	BRL	51.24	51.24	1159
Ethylbenzene	BRL	BRL	BRL	16.90	BRL	BRL	BRL	300	300	13.9
4-Ethyltoluene	BRL	BRL	BRL	4.76	BRL	BRL	BRL	NS	NS	3.9
n-Heptane	3.98	4.21	4.79	12.20	BRL	BRL	BRL	NS	NS	1123
n-Hexane	6.42	6.34	5.18	45.40	BRL	BRL	BRL	NS	NS	222
Methylene Chloride	BRL	BRL	BRL	BRL	4.02	BRL	BRL	NS	NS	ND
Methyl tert butyl ether	BRL	BRL	BRL	124.00	BRL	BRL	BRL	NS	NS	10.5
Tetrachlorethene	**6.71**	**5.40**	BRL	BRL	BRL	BRL	BRL	922.18	0.02	66
Tetrahydrofuran*	68.40	**102.00**	BRL	BRL	BRL	BRL	BRL	160.35	80.18	ND
1,2,4-Trimethylbenzene	BRL	BRL	BRL	9.38	BRL	BRL	BRL	NS	NS	5.9
1,3,5-Trimethylbenzene	BRL	BRL	BRL	4.36	BRL	BRL	BRL	NS	NS	ND
2,2,4-Trimethylpentane	BRL	BRL	BRL	3.98	BRL	BRL	BRL	NS	NS	NT
Toluene	5.52	5.97	10.30	63.10	BRL	BRL	BRL	80	20	462.8
p/m-Xylene	BRL	BRL	BRL	**51.50**	BRL	BRL	BRL	11.8	11.8	73
o-Xylene	BRL	BRL	BRL	**22.70**	BRL	BRL	BRL	11.8	11.8	11.7
PCBs	NDCN	NDCN	NDCN	NDCN	NT	NT	NT	0.3(1)	0.05(2)	NT

Bold typeface = Concentrations exceeding AAL; Yellow shading = Concentrations exceeding TEL
Results reported in ug/M^3 unless otherwise noted
* Common constituents of PVC pipe cements and cleaners
1. Risk-based maximum acceptable level
2. EPA action level at which additional assessment is required
TEL - Threshold Effects Exposure Limit, 24-hour average exposure
AAL - Allowable Ambient Limit, annual average exposure
BRL = Below laboratory Reporting Limit
NDCN = None detected on cartridge at detection limit of 0.5-1.5 nanograms per congener
NS = No AAL or TEL
NT = Not Tested

ANALYTICAL REPORT

Prepared for:
BETA Group, Inc.
315 Norwood Park South
Norwood, MA 02062

Project:	Keith Middle School
ETR:	0702079
Report Date:	February 27, 2007

Certifications and Accreditations
Massachusetts MA030
Connecticut PH-0141
New Hampshire 220602
Rhode Island 64
New Jersey MA015
Maine MA030
New York 11627
Louisiana 03090
Army Corps of Engineers
Department of the Navy
Florida E87814

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375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

CASE NARRATIVE
Alpha Woods Hole Labs

ETR: 0702079
Project: Keith Middle School

All analyses were performed according to Alpha Woods Hole Labs quality assurance program and documented Standard Operating Procedures (SOPs). The analytical results contained in this report were performed within holding time, and with appropriate quality control measures, except where noted. A summary of all state and federal accreditations is provided within this report. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted. Tissue and sediment samples are not certifiable under the NELAC accreditation.

PCB Congeners by GC/MS-SIM

Samples were prepared utilizing the appropriate method either TO-10 *Determination of PCB Congeners in Ambient Air using low volume Polyurethane Foam (PUF)* or TO-4 *Determination of PCB Congeners in Ambient Air using high volume Polyurethane Foam (PUF)*. Samples were extracted by soxhlet extraction method 3540C at Alpha Woods Hole Labs Westboro MA facility. Extracts were analyzed at Alpha Woods Hole Labs Raynham MA facility by GC/MS-SIM following the procedures outlined in the laboratory SOP O-015 *PCB and Pesticides by GC/MS-SIM (Rev. 2.0, 06/19/06)*. Analytes are introduced into the GC/MS by injecting a known volume of the calibration standards, quality control samples, and sample extracts into the GC equipped with a narrow-bore capillary column. The GC column is temperature programmed to separate the analytes, which are then detected with a mass spectrometer operating in the selective ion mode (SIM). Identification of target analytes in samples is accomplished by comparing retention times, and the mass spectra with those of the calibration standards. Concentrations are determined using mean relative response factors from a multi-level calibration curve. Reporting limits are established from a method detection limit study performed on blank cartridges fortified with known concentrations of all target compounds using the above outlined procedures.

1. Samples were from an archive sample set and extracted beyond the extraction holding time.

2. Method blank SC021907B07 and samples A8B VS-4 (0702079-02) and C8B VS-12 (0702079-04) had surrogate recoveries for Cl3-BZ#19-C13 and/or Cl8-BZ#202-Cl3 below the 50% QC limit. Refer to the individual report forms. This may indicate a low bias for sample results. The initial extraction used the entire sample, therefore re-extraction was not possible.

The enclosed results of analyses are representative of the samples as received by the laboratory. Alpha Woods Hole Labs makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Alpha Woods Hole Labs. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Gerald R Gelber Title: Sr. Project Manager Date: 02-27-07

Sample ID Cross Reference

Client: **BETA Group, Inc.**
Project: **Keith Middle School**

Lab Code: **MA00030**
ETR: **0702079**

Lab Sample ID	Client Sample ID
0702079-01	A8A VS-1
0702079-02	A8B VS-4
0702079-03	B8B VS-5
0702079-04	C8B VS-12

PCB Homologs and Congeners

ALPHA WOODS HOLE LABS

Client: **BETA Group, Inc.**
Project: **Keith Middle School**
Client ID: **A8A VS-1**
Case: **N/A** SDG: **N/A**
Matrix: **Cartridge**

Lab Code: **MA00030**
ETR: **0702079**
Lab ID: **0702079-01**
Associated Blank: **SC021907B07**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/20/07	02/15/07	02/15/07	02/20/07	100	1.00	1	1	TLW

Parameter	Result		Parameter	Result	
Cl1-BZ#1	0.50	U	Cl4-BZ#69	0.50	U
Cl1-BZ#2	0.50	U	Cl4-BZ#43	0.50	U
Cl1-BZ#3	0.50	U	Cl3-BZ#36	0.50	U
Cl2-BZ#4/#10[1]	1.0	U	Cl4-BZ#52	0.50	U
Cl2-BZ#9	0.50	U	Cl4-BZ#48	0.50	U
Cl2-BZ#7	0.50	U	Cl4-BZ#49	0.50	U
Cl2-BZ#6	0.50	U	Cl5-BZ#104	0.50	U
Cl2-BZ#5	1.0	U	Cl4-BZ#47	0.50	U
Cl2-BZ#8	0.50	U	Cl4-BZ#65/#75/#62[2]	1.5	U
Cl3-BZ#19	0.50	U	Cl3-BZ#39	0.50	U
Cl2-BZ#14	0.50	U	Cl3-BZ#38	0.50	U
Cl3-BZ#30	0.50	U	Cl4-BZ#44	0.50	U
Cl3-BZ#18	0.50	U	Cl4-BZ#59	0.50	U
Cl2-BZ#11	0.50	U	Cl4-BZ#42	0.50	U
Cl3-BZ#17	0.50	U	Cl4-BZ#71	0.50	U
Cl2-BZ#12	0.50	U	Cl3-BZ#35	0.50	U
Cl3-BZ#27	0.50	U	Cl4-BZ#41	0.50	U
Cl2-BZ#13	0.50	U	Cl4-BZ#72	0.50	U
Cl3-BZ#24	0.50	U	Cl5-BZ#96	0.50	U
Cl3-BZ#16	0.50	U	Cl5-BZ#103	1.0	U
Cl3-BZ#32	0.50	U	Cl4-BZ#68/#64[1]	1.0	U
Cl2-BZ#15	0.50	U	Cl4-BZ#40	0.50	U
Cl3-BZ#34	1.0	U	Cl3-BZ#37	0.50	U
Cl3-BZ#23	0.50	U	Cl5-BZ#100	0.50	U
Cl4-BZ#54	0.50	U	Cl5-BZ#94	0.50	U
Cl3-BZ#29	0.50	U	Cl4-BZ#57	0.50	U
Cl4-BZ#50	0.50	U	Cl4-BZ#67/#58[1]	1.0	U
Cl3-BZ#26	0.50	U	Cl5-BZ#102	0.50	U
Cl3-BZ#25	3.0	U	Cl4-BZ#61	0.50	U
Cl4-BZ#53	0.50	U	Cl5-BZ#98	0.50	U
Cl3-BZ#31	0.50	U	Cl4-BZ#76	0.50	U
Cl3-BZ#28	0.50	U	Cl5-BZ#93	0.50	U
Cl3-BZ#33	1.0	U	Cl4-BZ#63	0.50	U
Cl3-BZ#21/#20[1]	1.0	U	Cl5-BZ#121	0.50	U
Cl4-BZ#51	0.50	U	Cl5-BZ#95/#88[1]	1.0	U
Cl4-BZ#45	0.50	U	Cl4-BZ#74	0.50	U
Cl3-BZ#22	0.50	U	Cl6-BZ#155	0.50	U
Cl4-BZ#73/#46[1]	1.0	U	Cl4-BZ#70	0.50	U

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

PCB Homologs and Congeners

ALPHA WOODS HOLE LABS

Client: **BETA Group, Inc.**
Project: **Keith Middle School**
Client ID: **A8A VS-1**
Case: **N/A** SDG: **N/A**
Matrix: **Cartridge**

Lab Code: **MA00030**
ETR: **0702079**
Lab ID: **0702079-01**
Associated Blank: **SC021907B07**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/20/07	02/15/07	02/15/07	02/20/07	100	1.00	1	1	TLW

Parameter	Result		Parameter	Result	
Cl4-BZ#66	0.50	U	Cl5-BZ#124	0.50	U
Cl5-BZ#91	0.50	U	Cl5-BZ#108	0.50	U
Cl4-BZ#80	0.50	U	Cl5-BZ#107/#123[1]	1.0	U
Cl4-BZ#55	0.50	U	Cl6-BZ#140	0.50	U
Cl5-BZ#92	0.50	U	Cl7-BZ#188	0.50	U
Cl5-BZ#89/#84[1]	1.0	U	Cl6-BZ#134	0.50	U
Cl5-BZ#101/#90[1]	1.0	U	Cl5-BZ#106	0.50	U
Cl4-BZ#56	0.50	U	Cl6-BZ#133	0.50	U
Cl5-BZ#113	1.0	U	Cl6-BZ#142	0.50	U
Cl5-BZ#99	0.50	U	Cl5-BZ#118	0.50	U
Cl6-BZ#150	0.50	U	Cl6-BZ#131	0.50	U
Cl4-BZ#60	1.0	U	Cl7-BZ#184	0.50	U
Cl6-BZ#152	0.50	U	Cl6-BZ#165	0.50	U
Cl5-BZ#119	0.50	U	Cl6-BZ#146	0.50	U
Cl5-BZ#83/#125/#112[2]	1.5	U	Cl6-BZ#161	0.50	U
Cl5-BZ#86/#109[1]	1.0	U	Cl5-BZ#122	0.50	U
Cl5-BZ#97	1.0	U	Cl6-BZ#168	0.50	U
Cl5-BZ#116	0.50	U	Cl5-BZ#114	0.50	U
Cl5-BZ#87/#111[1]	1.0	U	Cl6-BZ#153	0.50	U
Cl6-BZ#145	0.50	U	Cl6-BZ#132	0.50	U
Cl6-BZ#148	0.50	U	Cl7-BZ#179	0.50	U
Cl4-BZ#79	0.50	U	Cl6-BZ#141	0.50	U
Cl6-BZ#154	0.50	U	Cl7-BZ#176	0.50	U
Cl4-BZ#78	1.0	U	Cl5-BZ#105	0.50	U
Cl6-BZ#136	0.50	U	Cl6-BZ#137	0.50	U
Cl5-BZ#117	0.50	U	Cl5-BZ#127	0.50	U
Cl5-BZ#115	0.50	U	Cl7-BZ#186	0.50	U
Cl5-BZ#85	0.50	U	Cl6-BZ#130/#164[1]	1.0	U
Cl5-BZ#120	0.50	U	Cl7-BZ#178	0.50	U
Cl5-BZ#110	0.50	U	Cl6-BZ#138	0.50	U
Cl4-BZ#81	0.50	U	Cl6-BZ#163/#160[1]	1.0	U
Cl6-BZ#151	0.50	U	Cl6-BZ#129/#158[1]	1.0	U
Cl6-BZ#135	0.50	U	Cl7-BZ#182/#175[1]	1.0	U
Cl5-BZ#82	2.0	U	Cl7-BZ#187	0.50	U
Cl6-BZ#144	0.50	U	Cl7-BZ#183	0.50	U
Cl6-BZ#147/#149[1]	1.0	U	Cl6-BZ#166	0.50	U
Cl4-BZ#77	0.50	U	Cl6-BZ#159	0.50	U
Cl6-BZ#143/#139[1]	1.0	U	Cl5-BZ#126	1.0	U

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PCB Homologs and Congeners

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Matrix: **Cartridge**

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ETR: **0702079**
Lab ID: **0702079-01**
Associated Blank: **SC021907B07**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/20/07	02/15/07	02/15/07	02/20/07	100	1.00	1	1	TLW

Parameter	Result		Parameter	Result	
Cl7-BZ#185	0.50	U	Cl7-BZ#191	0.50	U
Cl6-BZ#162	0.50	U	Cl8-BZ#199	0.50	U
Cl7-BZ#174	0.50	U	Cl8-BZ#198	0.50	U
Cl6-BZ#128	1.0	U	Cl8-BZ#201	0.50	U
Cl6-BZ#167	0.50	U	Cl7-BZ#170	0.50	U
Cl8-BZ#202	0.50	U	Cl7-BZ#190	0.50	U
Cl7-BZ#181	0.50	U	Cl8-BZ#196	0.50	U
Cl7-BZ#177	0.50	U	Cl8-BZ#203	0.50	U
Cl8-BZ#204/#200[1]	1.0	U	Cl6-BZ#169	0.50	U
Cl7-BZ#171	0.50	U	Cl9-BZ#208	0.50	U
Cl7-BZ#173	0.50	U	Cl9-BZ#207	0.50	U
Cl7-BZ#172	0.50	U	Cl7-BZ#189	1.0	U
Cl7-BZ#192	0.50	U	Cl8-BZ#195	0.50	U
Cl6-BZ#156	0.50	U	Cl8-BZ#194	0.50	U
Cl6-BZ#157	0.50	U	Cl8-BZ#205	0.50	U
Cl7-BZ#180	0.50	U	Cl9-BZ#206	0.50	U
Cl7-BZ#193	0.50	U	Cl10-BZ#209	0.50	U
Cl8-BZ#197	0.50	U			

[1] = These two compounds are reported as a co-eluting pair.
[2] = These three Congeners are reported as a co-eluting triplet.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	64	50-125
Cl8-BZ#202-C13	76	50-125

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/23/07 09:57

PCB Homologs and Congeners

ALPHA WOODS HOLE LABS

Client: **BETA Group, Inc.**
Project: **Keith Middle School**
Client ID: **A8A VS-1**
Case: **N/A** SDG: **N/A**
Matrix: **Cartridge**

Lab Code: **MA00030**
ETR: **0702079**
Lab ID: **0702079-01**
Associated Blank: **SC021907B07**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/20/07	02/15/07	02/15/07	02/20/07	100	1.00	1	1	TLW

Parameter	Result
Monochlorobiphenyls[1]	0.50 U
Dichlorobiphenyls[1]	0.50 U
Trichlorobiphenyls[1]	0.50 U
Tetrachlorobiphenyls[1]	0.50 U
Pentachlorobiphenyls[1]	0.50 U
Hexachlorobiphenyls[1]	0.50 U
Heptachlorobiphenyls[1]	0.50 U
Octachlorobiphenyls[1]	0.50 U
Nonachlorobiphenyls[1]	0.50 U
Decachlorobiphenyl[1]	0.50 U
Total PCB[2]	0.50 U

[1] = Result is the sum of all individual congeners within that chlorination level.
[2] = Result is the sum of all Homolog groups.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	64	50-125
Cl8-BZ#202-C13	76	50-125

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/23/07 09:57

PCB Homologs and Congeners

ALPHA WOODS HOLE LABS

Client: **BETA Group, Inc.**
Project: **Keith Middle School**
Client ID: **A8B VS-4**
Case: **N/A** SDG: **N/A**
Matrix: **Cartridge**

Lab Code: **MA00030**
ETR: **0702079**
Lab ID: **0702079-02**
Associated Blank: **SC021907B07**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/20/07	02/15/07	02/15/07	02/20/07	100	1.00	1	1	TLW

Parameter	Result		Parameter	Result	
Cl1-BZ#1	0.50	U	Cl4-BZ#69	0.50	U
Cl1-BZ#2	0.50	U	Cl4-BZ#43	0.50	U
Cl1-BZ#3	0.50	U	Cl3-BZ#36	0.50	U
Cl2-BZ#4/#10[1]	1.0	U	Cl4-BZ#52	0.50	U
Cl2-BZ#9	0.50	U	Cl4-BZ#48	0.50	U
Cl2-BZ#7	0.50	U	Cl4-BZ#49	0.50	U
Cl2-BZ#6	0.50	U	Cl5-BZ#104	0.50	U
Cl2-BZ#5	1.0	U	Cl4-BZ#47	0.50	U
Cl2-BZ#8	0.50	U	Cl4-BZ#65/#75/#62[2]	1.5	U
Cl3-BZ#19	0.50	U	Cl3-BZ#39	0.50	U
Cl2-BZ#14	0.50	U	Cl3-BZ#38	0.50	U
Cl3-BZ#30	0.50	U	Cl4-BZ#44	0.50	U
Cl3-BZ#18	0.50	U	Cl4-BZ#59	0.50	U
Cl2-BZ#11	0.50	U	Cl4-BZ#42	0.50	U
Cl3-BZ#17	0.50	U	Cl4-BZ#71	0.50	U
Cl2-BZ#12	0.50	U	Cl3-BZ#35	0.50	U
Cl3-BZ#27	0.50	U	Cl4-BZ#41	0.50	U
Cl2-BZ#13	0.50	U	Cl4-BZ#72	0.50	U
Cl3-BZ#24	0.50	U	Cl5-BZ#96	0.50	U
Cl3-BZ#16	0.50	U	Cl5-BZ#103	1.0	U
Cl3-BZ#32	0.50	U	Cl4-BZ#68/#64[1]	1.0	U
Cl2-BZ#15	0.50	U	Cl4-BZ#40	0.50	U
Cl3-BZ#34	1.0	U	Cl3-BZ#37	0.50	U
Cl3-BZ#23	0.50	U	Cl5-BZ#100	0.50	U
Cl4-BZ#54	0.50	U	Cl5-BZ#94	0.50	U
Cl3-BZ#29	0.50	U	Cl4-BZ#57	0.50	U
Cl4-BZ#50	0.50	U	Cl4-BZ#67/#58[1]	1.0	U
Cl3-BZ#26	0.50	U	Cl5-BZ#102	0.50	U
Cl3-BZ#25	3.0	U	Cl4-BZ#61	0.50	U
Cl4-BZ#53	0.50	U	Cl5-BZ#98	0.50	U
Cl3-BZ#31	0.50	U	Cl4-BZ#76	0.50	U
Cl3-BZ#28	0.50	U	Cl5-BZ#93	0.50	U
Cl3-BZ#33	1.0	U	Cl4-BZ#63	0.50	U
Cl3-BZ#21/#20[1]	1.0	U	Cl5-BZ#121	0.50	U
Cl4-BZ#51	0.50	U	Cl5-BZ#95/#88[1]	1.0	U
Cl4-BZ#45	0.50	U	Cl4-BZ#74	0.50	U
Cl3-BZ#22	0.50	U	Cl6-BZ#155	0.50	U
Cl4-BZ#73/#46[1]	1.0	U	Cl4-BZ#70	0.50	U

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PCB Homologs and Congeners

ALPHA WOODS HOLE LABS

Client: **BETA Group, Inc.**
Project: **Keith Middle School**
Client ID: **A8B VS-4**
Case: **N/A** SDG: **N/A**
Matrix: **Cartridge**

Lab Code: **MA00030**
ETR: **0702079**
Lab ID: **0702079-02**
Associated Blank: **SC021907B07**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/20/07	02/15/07	02/15/07	02/20/07	100	1.00	1	1	TLW

Parameter	Result		Parameter	Result	
Cl4-BZ#66	0.50	U	Cl5-BZ#124	0.50	U
Cl5-BZ#91	0.50	U	Cl5-BZ#108	0.50	U
Cl4-BZ#80	0.50	U	Cl5-BZ#107/#123[1]	1.0	U
Cl4-BZ#55	0.50	U	Cl6-BZ#140	0.50	U
Cl5-BZ#92	0.50	U	Cl7-BZ#188	0.50	U
Cl5-BZ#89/#84[1]	1.0	U	Cl6-BZ#134	0.50	U
Cl5-BZ#101/#90[1]	1.0	U	Cl5-BZ#106	0.50	U
Cl4-BZ#56	0.50	U	Cl6-BZ#133	0.50	U
Cl5-BZ#113	1.0	U	Cl6-BZ#142	0.50	U
Cl5-BZ#99	0.50	U	Cl5-BZ#118	0.50	U
Cl6-BZ#150	0.50	U	Cl6-BZ#131	0.50	U
Cl4-BZ#60	1.0	U	Cl7-BZ#184	0.50	U
Cl6-BZ#152	0.50	U	Cl6-BZ#165	0.50	U
Cl5-BZ#119	0.50	U	Cl6-BZ#146	0.50	U
Cl5-BZ#83/#125/#112[2]	1.5	U	Cl6-BZ#161	0.50	U
Cl5-BZ#86/#109[1]	1.0	U	Cl5-BZ#122	0.50	U
Cl5-BZ#97	1.0	U	Cl6-BZ#168	0.50	U
Cl5-BZ#116	0.50	U	Cl5-BZ#114	0.50	U
Cl5-BZ#87/#111[1]	1.0	U	Cl6-BZ#153	0.50	U
Cl6-BZ#145	0.50	U	Cl6-BZ#132	0.50	U
Cl6-BZ#148	0.50	U	Cl7-BZ#179	0.50	U
Cl4-BZ#79	0.50	U	Cl6-BZ#141	0.50	U
Cl6-BZ#154	0.50	U	Cl7-BZ#176	0.50	U
Cl4-BZ#78	1.0	U	Cl5-BZ#105	0.50	U
Cl6-BZ#136	0.50	U	Cl6-BZ#137	0.50	U
Cl5-BZ#117	0.50	U	Cl5-BZ#127	0.50	U
Cl5-BZ#115	0.50	U	Cl7-BZ#186	0.50	U
Cl5-BZ#85	0.50	U	Cl6-BZ#130/#164[1]	1.0	U
Cl5-BZ#120	0.50	U	Cl7-BZ#178	0.50	U
Cl5-BZ#110	0.50	U	Cl6-BZ#138	0.50	U
Cl4-BZ#81	0.50	U	Cl6-BZ#163/#160[1]	1.0	U
Cl6-BZ#151	0.50	U	Cl6-BZ#129/#158[1]	1.0	U
Cl6-BZ#135	0.50	U	Cl7-BZ#182/#175[1]	1.0	U
Cl5-BZ#82	2.0	U	Cl7-BZ#187	0.50	U
Cl6-BZ#144	0.50	U	Cl7-BZ#183	0.50	U
Cl6-BZ#147/#149[1]	1.0	U	Cl6-BZ#166	0.50	U
Cl4-BZ#77	0.50	U	Cl6-BZ#159	0.50	U
Cl6-BZ#143/#139[1]	1.0	U	Cl5-BZ#126	1.0	U

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PCB Homologs and Congeners

ALPHA WOODS HOLE LABS

Client: **BETA Group, Inc.**
Project: **Keith Middle School**
Client ID: **A8B VS-4**
Case: **N/A** SDG: **N/A**
Matrix: **Cartridge**

Lab Code: **MA00030**
ETR: **0702079**
Lab ID: **0702079-02**
Associated Blank: **SC021907B07**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/20/07	02/15/07	02/15/07	02/20/07	100	1.00	1	1	TLW

Parameter	Result		Parameter	Result	
Cl7-BZ#185	0.50	U	Cl7-BZ#191	0.50	U
Cl6-BZ#162	0.50	U	Cl8-BZ#199	0.50	U
Cl7-BZ#174	0.50	U	Cl8-BZ#198	0.50	U
Cl6-BZ#128	1.0	U	Cl8-BZ#201	0.50	U
Cl6-BZ#167	0.50	U	Cl7-BZ#170	0.50	U
Cl8-BZ#202	0.50	U	Cl7-BZ#190	0.50	U
Cl7-BZ#181	0.50	U	Cl8-BZ#196	0.50	U
Cl7-BZ#177	0.50	U	Cl8-BZ#203	0.50	U
Cl8-BZ#204/#200[1]	1.0	U	Cl6-BZ#169	0.50	U
Cl7-BZ#171	0.50	U	Cl9-BZ#208	0.50	U
Cl7-BZ#173	0.50	U	Cl9-BZ#207	0.50	U
Cl7-BZ#172	0.50	U	Cl7-BZ#189	1.0	U
Cl7-BZ#192	0.50	U	Cl8-BZ#195	0.50	U
Cl6-BZ#156	0.50	U	Cl8-BZ#194	0.50	U
Cl6-BZ#157	0.50	U	Cl8-BZ#205	0.50	U
Cl7-BZ#180	0.50	U	Cl9-BZ#206	0.50	U
Cl7-BZ#193	0.50	U	Cl10-BZ#209	0.50	U
Cl8-BZ#197	0.50	U			

[1] = These two compounds are reported as a co-eluting pair.
[2] = These three Congeners are reported as a co-eluting triplet.

Surrogate	% Recovery		Acceptance Range (%)
Cl3-BZ#19-C13	23	§	50-125
Cl8-BZ#202-C13	43	§	50-125

N/A - Not Applicable
§ - Surrogate value outside of acceptable range.
U - The analyte was analyzed for but not detected at the sample specific level reported.

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

PCB Homologs and Congeners

ALPHA WOODS HOLE LABS

Client: **BETA Group, Inc.**
Project: **Keith Middle School**
Client ID: **A8B VS-4**
Case: **N/A** SDG: **N/A**
Matrix: **Cartridge**

Lab Code: **MA00030**
ETR: **0702079**
Lab ID: **0702079-02**
Associated Blank: **SC021907B07**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/20/07	02/15/07	02/15/07	02/20/07	100	1.00	1	1	TLW

Parameter	Result
Monochlorobiphenyls[1]	0.50 U
Dichlorobiphenyls[1]	0.50 U
Trichlorobiphenyls[1]	0.50 U
Tetrachlorobiphenyls[1]	0.50 U
Pentachlorobiphenyls[1]	0.50 U
Hexachlorobiphenyls[1]	0.50 U
Heptachlorobiphenyls[1]	0.50 U
Octachlorobiphenyls[1]	0.50 U
Nonachlorobiphenyls[1]	0.50 U
Decachlorobiphenyl[1]	0.50 U
Total PCB[2]	0.50 U

[1] = Result is the sum of all individual congeners within that chlorination level.
[2] = Result is the sum of all Homolog groups.

Surrogate	% Recovery		Acceptance Range (%)
Cl3-BZ#19-C13	23	§	50-125
Cl8-BZ#202-C13	43	§	50-125

N/A - Not Applicable
§ - Surrogate value outside of acceptable range.
U - The analyte was analyzed for but not detected at the sample specific level reported.

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PCB Homologs and Congeners

ALPHA WOODS HOLE LABS

Client: **BETA Group, Inc.**
Project: **Keith Middle School**
Client ID: **B8B VS-5**
Case: **N/A** SDG: **N/A**
Matrix: **Cartridge**

Lab Code: **MA00030**
ETR: **0702079**
Lab ID: **0702079-03**
Associated Blank: **SC021907B07**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/20/07	02/15/07	02/15/07	02/21/07	100	1.00	1	1	TLW

Parameter	Result		Parameter	Result	
Cl1-BZ#1	0.50	U	Cl4-BZ#69	0.50	U
Cl1-BZ#2	0.50	U	Cl4-BZ#43	0.50	U
Cl1-BZ#3	0.50	U	Cl3-BZ#36	0.50	U
Cl2-BZ#4/#10[1]	1.0	U	Cl4-BZ#52	0.50	U
Cl2-BZ#9	0.50	U	Cl4-BZ#48	0.50	U
Cl2-BZ#7	0.50	U	Cl4-BZ#49	0.50	U
Cl2-BZ#6	0.50	U	Cl5-BZ#104	0.50	U
Cl2-BZ#5	1.0	U	Cl4-BZ#47	0.50	U
Cl2-BZ#8	0.50	U	Cl4-BZ#65/#75/#62[2]	1.5	U
Cl3-BZ#19	0.50	U	Cl3-BZ#39	0.50	U
Cl2-BZ#14	0.50	U	Cl3-BZ#38	0.50	U
Cl3-BZ#30	0.50	U	Cl4-BZ#44	0.50	U
Cl3-BZ#18	0.50	U	Cl4-BZ#59	0.50	U
Cl2-BZ#11	0.50	U	Cl4-BZ#42	0.50	U
Cl3-BZ#17	0.50	U	Cl4-BZ#71	0.50	U
Cl2-BZ#12	0.50	U	Cl3-BZ#35	0.50	U
Cl3-BZ#27	0.50	U	Cl4-BZ#41	0.50	U
Cl2-BZ#13	0.50	U	Cl4-BZ#72	0.50	U
Cl3-BZ#24	0.50	U	Cl5-BZ#96	0.50	U
Cl3-BZ#16	0.50	U	Cl5-BZ#103	1.0	U
Cl3-BZ#32	0.50	U	Cl4-BZ#68/#64[1]	1.0	U
Cl2-BZ#15	0.50	U	Cl4-BZ#40	0.50	U
Cl3-BZ#34	1.0	U	Cl3-BZ#37	0.50	U
Cl3-BZ#23	0.50	U	Cl5-BZ#100	0.50	U
Cl4-BZ#54	0.50	U	Cl5-BZ#94	0.50	U
Cl3-BZ#29	0.50	U	Cl4-BZ#57	0.50	U
Cl4-BZ#50	0.50	U	Cl4-BZ#67/#58[1]	1.0	U
Cl3-BZ#26	0.50	U	Cl5-BZ#102	0.50	U
Cl3-BZ#25	3.0	U	Cl4-BZ#61	0.50	U
Cl4-BZ#53	0.50	U	Cl5-BZ#98	0.50	U
Cl3-BZ#31	0.50	U	Cl4-BZ#76	0.50	U
Cl3-BZ#28	0.50	U	Cl5-BZ#93	0.50	U
Cl3-BZ#33	1.0	U	Cl4-BZ#63	0.50	U
Cl3-BZ#21/#20[1]	1.0	U	Cl5-BZ#121	0.50	U
Cl4-BZ#51	0.50	U	Cl5-BZ#95/#88[1]	1.0	U
Cl4-BZ#45	0.50	U	Cl4-BZ#74	0.50	U
Cl3-BZ#22	0.50	U	Cl6-BZ#155	0.50	U
Cl4-BZ#73/#46[1]	1.0	U	Cl4-BZ#70	0.50	U

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PCB Homologs and Congeners

ALPHA WOODS HOLE LABS

Client: **BETA Group, Inc.**
Project: **Keith Middle School**
Client ID: **B8B VS-5**
Case: **N/A** SDG: **N/A**
Matrix: **Cartridge**

Lab Code: **MA00030**
ETR: **0702079**
Lab ID: **0702079-03**
Associated Blank: **SC021907B07**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/20/07	02/15/07	02/15/07	02/21/07	100	1.00	1	1	TLW

Parameter	Result		Parameter	Result	
Cl4-BZ#66	0.50	U	Cl5-BZ#124	0.50	U
Cl5-BZ#91	0.50	U	Cl5-BZ#108	0.50	U
Cl4-BZ#80	0.50	U	Cl5-BZ#107/#123[1]	1.0	U
Cl4-BZ#55	0.50	U	Cl6-BZ#140	0.50	U
Cl5-BZ#92	0.50	U	Cl7-BZ#188	0.50	U
Cl5-BZ#89/#84[1]	1.0	U	Cl6-BZ#134	0.50	U
Cl5-BZ#101/#90[1]	1.0	U	Cl5-BZ#106	0.50	U
Cl4-BZ#56	0.50	U	Cl6-BZ#133	0.50	U
Cl5-BZ#113	1.0	U	Cl6-BZ#142	0.50	U
Cl5-BZ#99	0.50	U	Cl5-BZ#118	0.50	U
Cl6-BZ#150	0.50	U	Cl6-BZ#131	0.50	U
Cl4-BZ#60	1.0	U	Cl7-BZ#184	0.50	U
Cl6-BZ#152	0.50	U	Cl6-BZ#165	0.50	U
Cl5-BZ#119	0.50	U	Cl6-BZ#146	0.50	U
Cl5-BZ#83/#125/#112[2]	1.5	U	Cl6-BZ#161	0.50	U
Cl5-BZ#86/#109[1]	1.0	U	Cl5-BZ#122	0.50	U
Cl5-BZ#97	1.0	U	Cl6-BZ#168	0.50	U
Cl5-BZ#116	0.50	U	Cl5-BZ#114	0.50	U
Cl5-BZ#87/#111[1]	1.0	U	Cl6-BZ#153	0.50	U
Cl6-BZ#145	0.50	U	Cl6-BZ#132	0.50	U
Cl6-BZ#148	0.50	U	Cl7-BZ#179	0.50	U
Cl4-BZ#79	0.50	U	Cl6-BZ#141	0.50	U
Cl6-BZ#154	0.50	U	Cl7-BZ#176	0.50	U
Cl4-BZ#78	1.0	U	Cl5-BZ#105	0.50	U
Cl6-BZ#136	0.50	U	Cl6-BZ#137	0.50	U
Cl5-BZ#117	0.50	U	Cl5-BZ#127	0.50	U
Cl5-BZ#115	0.50	U	Cl7-BZ#186	0.50	U
Cl5-BZ#85	0.50	U	Cl6-BZ#130/#164[1]	1.0	U
Cl5-BZ#120	0.50	U	Cl7-BZ#178	0.50	U
Cl5-BZ#110	0.50	U	Cl6-BZ#138	0.50	U
Cl4-BZ#81	0.50	U	Cl6-BZ#163/#160[1]	1.0	U
Cl6-BZ#151	0.50	U	Cl6-BZ#129/#158[1]	1.0	U
Cl6-BZ#135	0.50	U	Cl7-BZ#182/#175[1]	1.0	U
Cl5-BZ#82	2.0	U	Cl7-BZ#187	0.50	U
Cl6-BZ#144	0.50	U	Cl7-BZ#183	0.50	U
Cl6-BZ#147/#149[1]	1.0	U	Cl6-BZ#166	0.50	U
Cl4-BZ#77	0.50	U	Cl6-BZ#159	0.50	U
Cl6-BZ#143/#139[1]	1.0	U	Cl5-BZ#126	1.0	U

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

PCB Homologs and Congeners

ALPHA WOODS HOLE LABS

Client: **BETA Group, Inc.**
Project: **Keith Middle School**
Client ID: **B8B VS-5**
Case: **N/A** SDG: **N/A**
Matrix: **Cartridge**

Lab Code: **MA00030**
ETR: **0702079**
Lab ID: **0702079-03**
Associated Blank: **SC021907B07**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/20/07	02/15/07	02/15/07	02/21/07	100	1.00	1	1	TLW

Parameter	Result		Parameter	Result	
Cl7-BZ#185	0.50	U	Cl7-BZ#191	0.50	U
Cl6-BZ#162	0.50	U	Cl8-BZ#199	0.50	U
Cl7-BZ#174	0.50	U	Cl8-BZ#198	0.50	U
Cl6-BZ#128	1.0	U	Cl8-BZ#201	0.50	U
Cl6-BZ#167	0.50	U	Cl7-BZ#170	0.50	U
Cl8-BZ#202	0.50	U	Cl7-BZ#190	0.50	U
Cl7-BZ#181	0.50	U	Cl8-BZ#196	0.50	U
Cl7-BZ#177	0.50	U	Cl8-BZ#203	0.50	U
Cl8-BZ#204/#200[1]	1.0	U	Cl6-BZ#169	0.50	U
Cl7-BZ#171	0.50	U	Cl9-BZ#208	0.50	U
Cl7-BZ#173	0.50	U	Cl9-BZ#207	0.50	U
Cl7-BZ#172	0.50	U	Cl7-BZ#189	1.0	U
Cl7-BZ#192	0.50	U	Cl8-BZ#195	0.50	U
Cl6-BZ#156	0.50	U	Cl8-BZ#194	0.50	U
Cl6-BZ#157	0.50	U	Cl8-BZ#205	0.50	U
Cl7-BZ#180	0.50	U	Cl9-BZ#206	0.50	U
Cl7-BZ#193	0.50	U	Cl10-BZ#209	0.50	U
Cl8-BZ#197	0.50	U			

[1] = These two compounds are reported as a co-eluting pair.
[2] = These three Congeners are reported as a co-eluting triplet.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	65	50-125
Cl8-BZ#202-C13	74	50-125

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

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PCB Homologs and Congeners

ALPHA WOODS HOLE LABS

Client: **BETA Group, Inc.**
Project: **Keith Middle School**
Client ID: **B8B VS-5**
Case: **N/A** SDG: **N/A**
Matrix: **Cartridge**

Lab Code: **MA00030**
ETR: **0702079**
Lab ID: **0702079-03**
Associated Blank: **SC021907B07**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/20/07	02/15/07	02/15/07	02/21/07	100	1.00	1	1	TLW

Parameter	Result
Monochlorobiphenyls[1]	0.50 U
Dichlorobiphenyls[1]	0.50 U
Trichlorobiphenyls[1]	0.50 U
Tetrachlorobiphenyls[1]	0.50 U
Pentachlorobiphenyls[1]	0.50 U
Hexachlorobiphenyls[1]	0.50 U
Heptachlorobiphenyls[1]	0.50 U
Octachlorobiphenyls[1]	0.50 U
Nonachlorobiphenyls[1]	0.50 U
Decachlorobiphenyl[1]	0.50 U
Total PCB[2]	0.50 U

[1] = Result is the sum of all individual congeners within that chlorination level.
[2] = Result is the sum of all Homolog groups.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	65	50-125
Cl8-BZ#202-C13	74	50-125

N/A - Not Applicable
U - The analyte was analyzed for but not detected at the sample specific level reported.

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PCB Homologs and Congeners

ALPHA WOODS HOLE LABS

Client: **BETA Group, Inc.**
Project: **Keith Middle School**
Client ID: **C8B VS-12**
Case: **N/A** SDG: **N/A**
Matrix: **Cartridge**

Lab Code: **MA00030**
ETR: **0702079**
Lab ID: **0702079-04**
Associated Blank: **SC021907B07**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/20/07	02/15/07	02/15/07	02/21/07	100	1.00	1	1	TLW

Parameter	Result		Parameter	Result	
Cl1-BZ#1	0.50	U	Cl4-BZ#69	0.50	U
Cl1-BZ#2	0.50	U	Cl4-BZ#43	0.50	U
Cl1-BZ#3	0.50	U	Cl3-BZ#36	0.50	U
Cl2-BZ#4/#10[1]	1.0	U	Cl4-BZ#52	0.50	U
Cl2-BZ#9	0.50	U	Cl4-BZ#48	0.50	U
Cl2-BZ#7	0.50	U	Cl4-BZ#49	0.50	U
Cl2-BZ#6	0.50	U	Cl5-BZ#104	0.50	U
Cl2-BZ#5	1.0	U	Cl4-BZ#47	0.50	U
Cl2-BZ#8	0.50	U	Cl4-BZ#65/#75/#62[2]	1.5	U
Cl3-BZ#19	0.50	U	Cl3-BZ#39	0.50	U
Cl2-BZ#14	0.50	U	Cl3-BZ#38	0.50	U
Cl3-BZ#30	0.50	U	Cl4-BZ#44	0.50	U
Cl3-BZ#18	0.50	U	Cl4-BZ#59	0.50	U
Cl2-BZ#11	0.50	U	Cl4-BZ#42	0.50	U
Cl3-BZ#17	0.50	U	Cl4-BZ#71	0.50	U
Cl2-BZ#12	0.50	U	Cl3-BZ#35	0.50	U
Cl3-BZ#27	0.50	U	Cl4-BZ#41	0.50	U
Cl2-BZ#13	0.50	U	Cl4-BZ#72	0.50	U
Cl3-BZ#24	0.50	U	Cl5-BZ#96	0.50	U
Cl3-BZ#16	0.50	U	Cl5-BZ#103	1.0	U
Cl3-BZ#32	0.50	U	Cl4-BZ#68/#64[1]	1.0	U
Cl2-BZ#15	0.50	U	Cl4-BZ#40	0.50	U
Cl3-BZ#34	1.0	U	Cl3-BZ#37	0.50	U
Cl3-BZ#23	0.50	U	Cl5-BZ#100	0.50	U
Cl4-BZ#54	0.50	U	Cl5-BZ#94	0.50	U
Cl3-BZ#29	0.50	U	Cl4-BZ#57	0.50	U
Cl4-BZ#50	0.50	U	Cl4-BZ#67/#58[1]	1.0	U
Cl3-BZ#26	0.50	U	Cl5-BZ#102	0.50	U
Cl3-BZ#25	3.0	U	Cl4-BZ#61	0.50	U
Cl4-BZ#53	0.50	U	Cl5-BZ#98	0.50	U
Cl3-BZ#31	0.50	U	Cl4-BZ#76	0.50	U
Cl3-BZ#28	0.50	U	Cl5-BZ#93	0.50	U
Cl3-BZ#33	1.0	U	Cl4-BZ#63	0.50	U
Cl3-BZ#21/#20[1]	1.0	U	Cl5-BZ#121	0.50	U
Cl4-BZ#51	0.50	U	Cl5-BZ#95/#88[1]	1.0	U
Cl4-BZ#45	0.50	U	Cl4-BZ#74	0.50	U
Cl3-BZ#22	0.50	U	Cl6-BZ#155	0.50	U
Cl4-BZ#73/#46[1]	1.0	U	Cl4-BZ#70	0.50	U

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288

PCB Homologs and Congeners

ALPHA WOODS HOLE LABS

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Project: **Keith Middle School**
Client ID: **C8B VS-12**
Case: **N/A** SDG: **N/A**
Matrix: **Cartridge**

Lab Code: **MA00030**
ETR: **0702079**
Lab ID: **0702079-04**
Associated Blank: **SC021907B07**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
01/20/07	02/15/07	02/15/07	02/21/07	100	1.00	1	1	TLW

Parameter	Result		Parameter	Result	
Cl4-BZ#66	0.50	U	Cl5-BZ#124	0.50	U
Cl5-BZ#91	0.50	U	Cl5-BZ#108	0.50	U
Cl4-BZ#80	0.50	U	Cl5-BZ#107/#123[1]	1.0	U
Cl4-BZ#55	0.50	U	Cl6-BZ#140	0.50	U
Cl5-BZ#92	0.50	U	Cl7-BZ#188	0.50	U
Cl5-BZ#89/#84[1]	1.0	U	Cl6-BZ#134	0.50	U
Cl5-BZ#101/#90[1]	1.0	U	Cl5-BZ#106	0.50	U
Cl4-BZ#56	0.50	U	Cl6-BZ#133	0.50	U
Cl5-BZ#113	1.0	U	Cl6-BZ#142	0.50	U
Cl5-BZ#99	0.50	U	Cl5-BZ#118	0.50	U
Cl6-BZ#150	0.50	U	Cl6-BZ#131	0.50	U
Cl4-BZ#60	1.0	U	Cl7-BZ#184	0.50	U
Cl6-BZ#152	0.50	U	Cl6-BZ#165	0.50	U
Cl5-BZ#119	0.50	U	Cl6-BZ#146	0.50	U
Cl5-BZ#83/#125/#112[2]	1.5	U	Cl6-BZ#161	0.50	U
Cl5-BZ#86/#109[1]	1.0	U	Cl5-BZ#122	0.50	U
Cl5-BZ#97	1.0	U	Cl6-BZ#168	0.50	U
Cl5-BZ#116	0.50	U	Cl5-BZ#114	0.50	U
Cl5-BZ#87/#111[1]	1.0	U	Cl6-BZ#153	0.50	U
Cl6-BZ#145	0.50	U	Cl6-BZ#132	0.50	U
Cl6-BZ#148	0.50	U	Cl7-BZ#179	0.50	U
Cl4-BZ#79	0.50	U	Cl6-BZ#141	0.50	U
Cl6-BZ#154	0.50	U	Cl7-BZ#176	0.50	U
Cl4-BZ#78	1.0	U	Cl5-BZ#105	0.50	U
Cl6-BZ#136	0.50	U	Cl6-BZ#137	0.50	U
Cl5-BZ#117	0.50	U	Cl5-BZ#127	0.50	U
Cl5-BZ#115	0.50	U	Cl7-BZ#186	0.50	U
Cl5-BZ#85	0.50	U	Cl6-BZ#130/#164[1]	1.0	U
Cl5-BZ#120	0.50	U	Cl7-BZ#178	0.50	U
Cl5-BZ#110	0.50	U	Cl6-BZ#138	0.50	U
Cl4-BZ#81	0.50	U	Cl6-BZ#163/#160[1]	1.0	U
Cl6-BZ#151	0.50	U	Cl6-BZ#129/#158[1]	1.0	U
Cl6-BZ#135	0.50	U	Cl7-BZ#182/#175[1]	1.0	U
Cl5-BZ#82	2.0	U	Cl7-BZ#187	0.50	U
Cl6-BZ#144	0.50	U	Cl7-BZ#183	0.50	U
Cl6-BZ#147/#149[1]	1.0	U	Cl6-BZ#166	0.50	U
Cl4-BZ#77	0.50	U	Cl6-BZ#159	0.50	U
Cl6-BZ#143/#139[1]	1.0	U	Cl5-BZ#126	1.0	U

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01/20/07	02/15/07	02/15/07	02/21/07	100	1.00	1	1	TLW

Parameter	Result		Parameter	Result	
Cl7-BZ#185	0.50	U	Cl7-BZ#191	0.50	U
Cl6-BZ#162	0.50	U	Cl8-BZ#199	0.50	U
Cl7-BZ#174	0.50	U	Cl8-BZ#198	0.50	U
Cl6-BZ#128	1.0	U	Cl8-BZ#201	0.50	U
Cl6-BZ#167	0.50	U	Cl7-BZ#170	0.50	U
Cl8-BZ#202	0.50	U	Cl7-BZ#190	0.50	U
Cl7-BZ#181	0.50	U	Cl8-BZ#196	0.50	U
Cl7-BZ#177	0.50	U	Cl8-BZ#203	0.50	U
Cl8-BZ#204/#200[1]	1.0	U	Cl6-BZ#169	0.50	U
Cl7-BZ#171	0.50	U	Cl9-BZ#208	0.50	U
Cl7-BZ#173	0.50	U	Cl9-BZ#207	0.50	U
Cl7-BZ#172	0.50	U	Cl7-BZ#189	1.0	U
Cl7-BZ#192	0.50	U	Cl8-BZ#195	0.50	U
Cl6-BZ#156	0.50	U	Cl8-BZ#194	0.50	U
Cl6-BZ#157	0.50	U	Cl8-BZ#205	0.50	U
Cl7-BZ#180	0.50	U	Cl9-BZ#206	0.50	U
Cl7-BZ#193	0.50	U	Cl10-BZ#209	0.50	U
Cl8-BZ#197	0.50	U			

[1] = These two compounds are reported as a co-eluting pair.
[2] = These three Congeners are reported as a co-eluting triplet.

Surrogate	% Recovery		Acceptance Range (%)
Cl3-BZ#19-C13	43	§	50-125
Cl8-BZ#202-C13	72		50-125

N/A - Not Applicable
§ - Surrogate value outside of acceptable range.
U - The analyte was analyzed for but not detected at the sample specific level reported.

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Concentration Units: **ng/Cartridge**

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01/20/07	02/15/07	02/15/07	02/21/07	100	1.00	1	1	TLW

Parameter	Result
Monochlorobiphenyls[1]	0.50 U
Dichlorobiphenyls[1]	0.50 U
Trichlorobiphenyls[1]	0.50 U
Tetrachlorobiphenyls[1]	0.50 U
Pentachlorobiphenyls[1]	0.50 U
Hexachlorobiphenyls[1]	0.50 U
Heptachlorobiphenyls[1]	0.50 U
Octachlorobiphenyls[1]	0.50 U
Nonachlorobiphenyls[1]	0.50 U
Decachlorobiphenyl[1]	0.50 U
Total PCB[2]	0.50 U

[1] = Result is the sum of all individual congeners within that chlorination level.
[2] = Result is the sum of all Homolog groups.

Surrogate	% Recovery		Acceptance Range (%)
Cl3-BZ#19-C13	43	§	50-125
Cl8-BZ#202-C13	72		50-125

N/A - Not Applicable
§ - Surrogate value outside of acceptable range.
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/23/07 10:00

Blank
PCB Homologs and Congeners

ALPHA WOODS HOLE LABS

Client: **BETA Group, Inc.**
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Client ID: **Blank**
Case: **N/A** SDG: **N/A**
Matrix: **Cartridge**

Lab Code: **MA00030**
ETR: **0702079**
Lab ID: **SC021907B07**
Associated Blank: **N/A**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	02/15/07	02/20/07	100	1.00	1	1	SEO

Parameter	Result		Parameter	Result	
Cl1-BZ#1	0.50	U	Cl4-BZ#69	0.50	U
Cl1-BZ#2	0.50	U	Cl4-BZ#43	0.50	U
Cl1-BZ#3	0.50	U	Cl3-BZ#36	0.50	U
Cl2-BZ#4/#10[1]	1.0	U	Cl4-BZ#52	0.50	U
Cl2-BZ#9	0.50	U	Cl4-BZ#48	0.50	U
Cl2-BZ#7	0.50	U	Cl4-BZ#49	0.50	U
Cl2-BZ#6	0.50	U	Cl5-BZ#104	0.50	U
Cl2-BZ#5	1.0	U	Cl4-BZ#47	0.50	U
Cl2-BZ#8	0.50	U	Cl4-BZ#65/#75/#62[2]	1.5	U
Cl3-BZ#19	0.50	U	Cl3-BZ#39	0.50	U
Cl2-BZ#14	0.50	U	Cl3-BZ#38	0.50	U
Cl3-BZ#30	0.50	U	Cl4-BZ#44	0.50	U
Cl3-BZ#18	0.50	U	Cl4-BZ#59	0.50	U
Cl2-BZ#11	0.50	U	Cl4-BZ#42	0.50	U
Cl3-BZ#17	0.50	U	Cl4-BZ#71	0.50	U
Cl2-BZ#12	0.50	U	Cl3-BZ#35	0.50	U
Cl3-BZ#27	0.50	U	Cl4-BZ#41	0.50	U
Cl2-BZ#13	0.50	U	Cl4-BZ#72	0.50	U
Cl3-BZ#24	0.50	U	Cl5-BZ#96	0.50	U
Cl3-BZ#16	0.50	U	Cl5-BZ#103	1.0	U
Cl3-BZ#32	0.50	U	Cl4-BZ#68/#64[1]	1.0	U
Cl2-BZ#15	0.50	U	Cl4-BZ#40	0.50	U
Cl3-BZ#34	1.0	U	Cl3-BZ#37	0.50	U
Cl3-BZ#23	0.50	U	Cl5-BZ#100	0.50	U
Cl4-BZ#54	0.50	U	Cl5-BZ#94	0.50	U
Cl3-BZ#29	0.50	U	Cl4-BZ#57	0.50	U
Cl4-BZ#50	0.50	U	Cl4-BZ#67/#58[1]	1.0	U
Cl3-BZ#26	0.50	U	Cl5-BZ#102	0.50	U
Cl3-BZ#25	3.0	U	Cl4-BZ#61	0.50	U
Cl4-BZ#53	0.50	U	Cl5-BZ#98	0.50	U
Cl3-BZ#31	0.50	U	Cl4-BZ#76	0.50	U
Cl3-BZ#28	0.50	U	Cl5-BZ#93	0.50	U
Cl3-BZ#33	1.0	U	Cl4-BZ#63	0.50	U
Cl3-BZ#21/#20[1]	1.0	U	Cl5-BZ#121	0.50	U
Cl4-BZ#51	0.50	U	Cl5-BZ#95/#88[1]	1.0	U
Cl4-BZ#45	0.50	U	Cl4-BZ#74	0.50	U
Cl3-BZ#22	0.50	U	Cl6-BZ#155	0.50	U
Cl4-BZ#73/#46[1]	1.0	U	Cl4-BZ#70	0.50	U

02/23/07 09:53

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Case: **N/A** SDG: **N/A**
Matrix: **Cartridge**

Lab Code: **MA00030**
ETR: **0702079**
Lab ID: **SC021907B07**
Associated Blank: **N/A**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	02/15/07	02/20/07	100	1.00	1	1	SEO

Parameter	Result		Parameter	Result	
Cl4-BZ#66	0.50	U	Cl5-BZ#124	0.50	U
Cl5-BZ#91	0.50	U	Cl5-BZ#108	0.50	U
Cl4-BZ#80	0.50	U	Cl5-BZ#107/#123[1]	1.0	U
Cl4-BZ#55	0.50	U	Cl6-BZ#140	0.50	U
Cl5-BZ#92	0.50	U	Cl7-BZ#188	0.50	U
Cl5-BZ#89/#84[1]	1.0	U	Cl6-BZ#134	0.50	U
Cl5-BZ#101/#90[1]	1.0	U	Cl5-BZ#106	0.50	U
Cl4-BZ#56	0.50	U	Cl6-BZ#133	0.50	U
Cl5-BZ#113	1.0	U	Cl6-BZ#142	0.50	U
Cl5-BZ#99	0.50	U	Cl5-BZ#118	0.50	U
Cl6-BZ#150	0.50	U	Cl6-BZ#131	0.50	U
Cl4-BZ#60	1.0	U	Cl7-BZ#184	0.50	U
Cl6-BZ#152	0.50	U	Cl6-BZ#165	0.50	U
Cl5-BZ#119	0.50	U	Cl6-BZ#146	0.50	U
Cl5-BZ#83/#125/#112[2]	1.5	U	Cl6-BZ#161	0.50	U
Cl5-BZ#86/#109[1]	1.0	U	Cl5-BZ#122	0.50	U
Cl5-BZ#97	1.0	U	Cl6-BZ#168	0.50	U
Cl5-BZ#116	0.50	U	Cl5-BZ#114	0.50	U
Cl5-BZ#87/#111[1]	1.0	U	Cl6-BZ#153	0.50	U
Cl6-BZ#145	0.50	U	Cl6-BZ#132	0.50	U
Cl6-BZ#148	0.50	U	Cl7-BZ#179	0.50	U
Cl4-BZ#79	0.50	U	Cl6-BZ#141	0.50	U
Cl6-BZ#154	0.50	U	Cl7-BZ#176	0.50	U
Cl4-BZ#78	1.0	U	Cl5-BZ#105	0.50	U
Cl6-BZ#136	0.50	U	Cl6-BZ#137	0.50	U
Cl5-BZ#117	0.50	U	Cl5-BZ#127	0.50	U
Cl5-BZ#115	0.50	U	Cl7-BZ#186	0.50	U
Cl5-BZ#85	0.50	U	Cl6-BZ#130/#164[1]	1.0	U
Cl5-BZ#120	0.50	U	Cl7-BZ#178	0.50	U
Cl5-BZ#110	0.50	U	Cl6-BZ#138	0.50	U
Cl4-BZ#81	0.50	U	Cl6-BZ#163/#160[1]	1.0	U
Cl6-BZ#151	0.50	U	Cl6-BZ#129/#158[1]	1.0	U
Cl6-BZ#135	0.50	U	Cl7-BZ#182/#175[1]	1.0	U
Cl5-BZ#82	2.0	U	Cl7-BZ#187	0.50	U
Cl6-BZ#144	0.50	U	Cl7-BZ#183	0.50	U
Cl6-BZ#147/#149[1]	1.0	U	Cl6-BZ#166	0.50	U
Cl4-BZ#77	0.50	U	Cl6-BZ#159	0.50	U
Cl6-BZ#143/#139[1]	1.0	U	Cl5-BZ#126	1.0	U

02/23/07 09:53

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Associated Blank: **N/A**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	02/15/07	02/20/07	100	1.00	1	1	SEO

Parameter	Result		Parameter	Result	
Cl7-BZ#185	0.50	U	Cl7-BZ#191	0.50	U
Cl6-BZ#162	0.50	U	Cl8-BZ#199	0.50	U
Cl7-BZ#174	0.50	U	Cl8-BZ#198	0.50	U
Cl6-BZ#128	1.0	U	Cl8-BZ#201	0.50	U
Cl6-BZ#167	0.50	U	Cl7-BZ#170	0.50	U
Cl8-BZ#202	0.50	U	Cl7-BZ#190	0.50	U
Cl7-BZ#181	0.50	U	Cl8-BZ#196	0.50	U
Cl7-BZ#177	0.50	U	Cl8-BZ#203	0.50	U
Cl8-BZ#204/#200[1]	1.0	U	Cl6-BZ#169	0.50	U
Cl7-BZ#171	0.50	U	Cl9-BZ#208	0.50	U
Cl7-BZ#173	0.50	U	Cl9-BZ#207	0.50	U
Cl7-BZ#172	0.50	U	Cl7-BZ#189	1.0	U
Cl7-BZ#192	0.50	U	Cl8-BZ#195	0.50	U
Cl6-BZ#156	0.50	U	Cl8-BZ#194	0.50	U
Cl6-BZ#157	0.50	U	Cl8-BZ#205	0.50	U
Cl7-BZ#180	0.50	U	Cl9-BZ#206	0.50	U
Cl7-BZ#193	0.50	U	Cl10-BZ#209	0.50	U
Cl8-BZ#197	0.50	U			

[1] = These two compounds are reported as a co-eluting pair.
[2] = These three Congeners are reported as a co-eluting triplet.

Surrogate	% Recovery		Acceptance Range (%)
Cl3-BZ#19-C13	25	§	50-125
Cl8-BZ#202-C13	61		50-125

N/A - Not Applicable
§ - Surrogate value outside of acceptable range.
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Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	02/15/07	02/20/07	100	1.00	1	1	SEO

Parameter	Result
Monochlorobiphenyls[1]	0.50 U
Dichlorobiphenyls[1]	0.50 U
Trichlorobiphenyls[1]	0.50 U
Tetrachlorobiphenyls[1]	0.50 U
Pentachlorobiphenyls[1]	0.50 U
Hexachlorobiphenyls[1]	0.50 U
Heptachlorobiphenyls[1]	0.50 U
Octachlorobiphenyls[1]	0.50 U
Nonachlorobiphenyls[1]	0.50 U
Decachlorobiphenyl[1]	0.50 U
Total PCB[2]	0.50 U

[1] = Result is the sum of all individual congeners within that chlorination level.
[2] = Result is the sum of all Homolog groups.

Surrogate	% Recovery		Acceptance Range (%)
Cl3-BZ#19-C13	25	§	50-125
Cl8-BZ#202-C13	61		50-125

N/A - Not Applicable
§ - Surrogate value outside of acceptable range.
U - The analyte was analyzed for but not detected at the sample specific level reported.

02/23/07 09:53

Laboratory Control Sample
PCB Homologs and Congeners

ALPHA WOODS HOLE LABS

Client: **BETA Group, Inc.**
Project: **Keith Middle School**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Cartridge**

Lab Code: **MA00030**
ETR: **0702079**
Lab ID: **SC021907L02**
Associated Blank: **SC021907B07**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	02/15/07	100	SEO

Parameter	Conc.	% Recovery	% Recovery Limits
Cl1-BZ#1	21	53	40-140
Cl1-BZ#3	23	57	40-140
Cl2-BZ#4/#10[1]	26	64	40-140
Cl2-BZ#8	24	59	40-140
Cl3-BZ#19	23	57	40-140
Cl3-BZ#18	24	60	40-140
Cl2-BZ#15	24	59	40-140
Cl4-BZ#54	25	63	40-140
Cl3-BZ#29	26	66	40-140
Cl4-BZ#50	26	65	40-140
Cl3-BZ#31	24	59	40-140
Cl3-BZ#28	27	68	40-140
Cl4-BZ#45	26	66	40-140
Cl4-BZ#52	26	66	40-140
Cl4-BZ#49	25	64	40-140
Cl5-BZ#104	28	71	40-140
Cl4-BZ#47	27	68	40-140
Cl4-BZ#44	27	68	40-140
Cl3-BZ#37	18	44	40-140
Cl5-BZ#95/#88[1]	34	84	40-140
Cl4-BZ#74	26	66	40-140
Cl6-BZ#155	30	75	40-140
Cl4-BZ#70	28	69	40-140
Cl4-BZ#66	27	68	40-140
Cl5-BZ#101/#90[1]	30	76	40-140
Cl4-BZ#56	25	63	40-140
Cl5-BZ#99	29	73	40-140
Cl5-BZ#87/#111[1]	25	62	40-140
Cl6-BZ#154	30	76	40-140
Cl5-BZ#110	28	70	40-140
Cl4-BZ#81	28	70	40-140
Cl6-BZ#151	28	69	40-140
Cl6-BZ#147/#149[1]	29	72	40-140

02/23/07 09:55

Laboratory Control Sample
PCB Homologs and Congeners

ALPHA WOODS HOLE LABS

Client: **BETA Group, Inc.**
Project: **Keith Middle School**
Client ID: **Laboratory Control Sample**
Case: **N/A** SDG: **N/A**
Matrix: **Cartridge**

Lab Code: **MA00030**
ETR: **0702079**
Lab ID: **SC021907L02**
Associated Blank: **SC021907B07**
Concentration Units: **ng/Cartridge**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	02/15/07	100	SEO

Parameter	Conc.	% Recovery	% Recovery Limits
Cl4-BZ#77	24	60	40-140
Cl5-BZ#107/#123[1]	30	74	40-140
Cl7-BZ#188	30	75	40-140
Cl5-BZ#118	25	64	40-140
Cl6-BZ#146	30	75	40-140
Cl5-BZ#114	26	65	40-140
Cl6-BZ#153	31	77	40-140
Cl5-BZ#105	22	54	40-140
Cl6-BZ#138	26	65	40-140
Cl6-BZ#129/#158[1]	34	84	40-140
Cl7-BZ#187	33	83	40-140
Cl7-BZ#183	30	76	40-140
Cl5-BZ#126	22	54	40-140
Cl7-BZ#174	30	75	40-140
Cl6-BZ#128	29	72	40-140
Cl6-BZ#167	31	78	40-140
Cl8-BZ#202	36	89	40-140
Cl7-BZ#177	30	74	40-140
Cl8-BZ#204/#200[1]	32	79	40-140
Cl6-BZ#156	27	67	40-140
Cl6-BZ#157	27	68	40-140
Cl7-BZ#180	27	67	40-140
Cl8-BZ#201	35	87	40-140
Cl7-BZ#170	32	81	40-140
Cl6-BZ#169	29	72	40-140
Cl9-BZ#208	31	78	40-140
Cl7-BZ#189	34	86	40-140
Cl8-BZ#195	34	84	40-140
Cl8-BZ#194	33	83	40-140
Cl8-BZ#205	34	85	40-140
Cl9-BZ#206	33	83	40-140
Cl10-BZ#209	31	78	40-140

[1] = These two Congeners are reported as a co-eluting pair.

Surrogate	% Recovery	Acceptance Range (%)
Cl3-BZ#19-C13	62	50-125
Cl8-BZ#202-C13	80	50-125

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

02/23/07 09:55

AWAL - Raynham

CHAIN OF CUSTODY

PAGE _____ OF _____

ALPHA Lab
WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 2/12

ALPHA Job #: L0702152

Client Information

Client: Beta

Address:

Phone:

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name:

Project Location:

Project #: 3261

Project Manager:

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program | Criteria

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

Reloq of L0701039-1,4,6,8

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do

Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: TO-10 PCB	Sample Specific Comments	TOTAL # BOTTLES
02152-1	A8AVS-1	1/20	9:49	A		Y		
2	A8BVS-4	↓	14:04	↓		Y		
3	B8BVS-5	↓	10:40	↓		Y		
	C8BVS-12	↓	13:50	↓		Y		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type

Preservative

Relinquished By:	Date/Time	Received By:	Date/Time
Kevin Bailey - Alpha	2/19/07	[signature]	2/12 21:00
Paul Gilbert	2/19/07 15:35	Paul Gilbert	2/19/07 14:30

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms. See reverse side.

FORM NO: 01-01 (rev. 10-OCT-05)

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

Eight Walkup Drive Westborough, MA 01581
TEL: 508-898-9220 FAX: 508-898-9193

Date Rec'd in Lab: 1/22/07

ALPHA Job #: L0701039

Client Information

Client: BETA Group Inc.
Address: 315 Norwood Park S
Norwood, MA 02062
Phone: 781-255-1982
Fax: 781-255-1974
Email: ahansom@beta-inc.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Keith Middle School
Project Location: New Bedford MA
Project #: 3261
Project Manager: Al Hansom
ALPHA Quote #:

Turn-Around Time

☑ Standard (5 DAYS; TO-13: 10 DAYS) ☐ RUSH (only confirmed if pre-approved)
Date Due: 2/5/07 Time:

Report Information - Data Deliverables

☐ FAX
☑ ADEx
Criteria Checker: (Default based on Regulatory Criteria Indicated)
Other Formats:
☑ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed	Program	Criteria

Other Project Specific Requirements/Comments:

Low Volume PUF Cartridges, pump ID cartridge pump ID

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Sample Matrix	Sampler's Initials	ID Can	ID - Flow Controller	TO-14A	TO-15	APH	DISSOLVED GASES	FIXED GASES	TO-13A	TO-15 SULFIDES/MERCAPTANS	DISS GASES CO2 ONLY	TO-17 PUF	Sample Comments	Total # Containers
1081-01	A8 A VS-1 Hold	1-20-07	8:50	9:49	air	DGB	584599	IP-83									✓		1
-02	A8 B VS-1		8:50	9:49			707505	IP-72									✓		1
-03	A8 A VS-4		1:05	2:04			224445	IP-78									✓		1
-04	A8 B VS-4		1:05	2:04			224417	IP-84									✓		1
-05	B8 A VS-5		9:30	10:40			707523	IP-75									✓		1
-06	B8 B VS-5 Hold		9:30	10:40			665308	IP-82									✓		1
-07	C8 A VS-12		11:20	1:50			663317	IP-76									✓		1
-08	C8 B VS-12 Hold		11:20	1:50			671921	IP-70									✓		1
-09	Background-8		11:00	3:00			586310	IP-81									✓		1
-10	Trip Blank		NA	NA			—	LP74									✓		1

Shaded Gray Areas For Lab Use Only

Container Type ← PUF Cartridges

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

Do not analyze samples labeled "Hold" Please hold for possible future use

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	1/22/07	[illegible]	1/22/07 9:35
[illegible]	1/22/07	[illegible]	1/22/07 10:30
[illegible] 1240		[illegible]	1/22/07 1240

Form No: 01-03 (rev. 8-JUN-05)

Alpha Analytical Labs
Sample Delivery Group Form

Laboratory Job No. L0702152 SDG Reviewer KB

Client: Beta Date/Time: 1/22/07 1240

Preliminary Review

1. *Samples Delivered via:*
   - [x] Alpha Courier
   - [ ] Client
   - [ ] Express Mail
   - [ ] Other_____

2. *Chain of Custody:*
   - [x] Present
   - [ ] Absent

3. *Custody Seal:*
   - [x] Absent
   - [ ] Present/Intact
   - [ ] Present/Broken

3. *All Containers Accounted for:*
   - [x] Yes
   - [ ] No

4. *Samples received:*
   - [x] Intact
   - [ ] Extra: _____
   - [ ] Broken Sample IDs : _____
   - [ ] Leaking Sample IDs : _____

5. *Temperature Blank:*
   - [x] Present Temperature (in Celsius): [ ] 2 - 6 Celsius degrees [ ] Other _____
   - [ ] Absent Is the ice (in blue ice) present? [x] Yes [ ] No * Cooler Temp: 6°C

Secondary Review

These Samples originally on Hold in Westboro.

1. Do the sample(s) labels and Chain of Custody agree?
   - [x] Yes
   - [ ] No * _____
2. Are the samples in appropriate containers?
   - [x] Yes
   - [ ] No * _____
3. Are the samples properly preserved?
   - [x] Yes
   - [ ] No * Initial pH=_____ Preserved In-House w/_____
4. Are the samples within holding times?
   - [x] Yes
   - [ ] No * _____

* Contact client and attach the phone log

Sample Receipt Checklist

Client: ALPHA	Receipt Date: 9/19/07	
Project:	Log-in Date:	
ETR #:	Inspection by: NAR	Login by:

ALL SECTIONS BELOW MUST BE COMPLETED

Comments / Notes

Were samples shipped? Yes, FedEx / UPS / Other: _____
No, WHG Courier pick-up / Hand delivered

Is bill of lading retained? Yes, Tracking #: _____
No, Unavailable / NA

Number of coolers received for this project delivery: _____

Indicate cooler temperature upon opening (if multiple coolers, record all temps):

Note: If all coolers are 2-6°C, use one checklist, if NOT, use separate checklists and note all samples received *above* 6°C.

Cooler 1:
Temperature(s) taken from: 1 IR Gun, 1 Temp. Blank, / NA

Were samples received on ice? Yes / No

Chain-of-Custody present? Yes / No
Complete? Yes / No

Custody seals present on Cooler? Yes / No
on Bottles? Yes / No
Intact? Yes / No / NA
Note: Affix custody seals to back of this page.

Were sample containers intact? Yes / No If No, list samples: →

Did VOA/VPH waters contain headspace (>5mm)? Yes / No / NA If Yes, list samples: →

Were 5035 VOA soils, or VPH soils, *covered* with MeOH? Yes / No / NA
If No, list samples: →

Was a sufficient amount of sample received for each test indicated on the COC?
Yes / No If No, list samples: →

If chemical preservation is appropriate -
Were samples field preserved? Yes / No / NA
☐ C=HCl ☐ M=MeOH ☐ S=H_2SO4
☐ H=NaOH ☐ N=HNO_3 ☐ Other: _____ ☐ U= Unknown

Preservation (pH) verified at lab for *EVERY* bottle? (Not: VOA / VPH / Sulfide)
YES: <2 or >12 (CN) or NO NA
If No, why?:

Were samples received within hold time? Yes / No If No, list samples: →

Discrepancy between samples rec'd & COC ? Yes / No If Yes, list samples: →

Was the Project Manager notified of any other problems? Yes / No / NA

Project Manager Acknowledgement: Date:

Sample storage refrigerator #: _____

Sample storage freezer #: _____

Cooler 2: _____ Cooler 3: _____

Cooler 4: _____ Cooler 5: _____

Cooler 6: _____ Cooler 7: _____

More: _____

Chemical preservation OK for ALL samples?

Yes / No / N/A

If No, list samples below:

Please use back for any additional notes!

Certificate Program Summary

Method numbers assume the most recent EPA revisions. For a complete listing of analytes for the referenced methods please contact your Alpha Woods Hole Lab Project Manager or the Quality Assurance Manager.

Connecticut Department of Public Health Certificate No.: PH-0141 - *Wastewater* (General Chemistry: 120.1, 150.1, 160.1, 160.2, 180.1, 300.0, 310.1, 335.2, 365.2, 405.1, 413.1, COD HACH 8000; Metals: 200.7, 245.1; Organics: 608, 624, 625). *Solid Waste/Soil* (General Chemistry: 1010, 9010/9014, 9045, 9056, 9060; Metals: 6010, 6020, 7041, 7471; Organics: 8081, 8082, 8260, 8270, ETPH).

Florida Department of Health Certificate No.: E87814 - Secondary NELAP Accreditation for *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, SM2320B, 335.2, 365.2, 413.1, 420.1, SM2540G, COD HACH 8000; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). *Solid and Hazardous Waste* (General Chemistry: 9010/9014, 9045, 9050, 9056, 9060, 9065; Metals: 6010, 6020, 7041, 7060, 7421, 7470, 7471, 7740, 7841; Organics: 8081, 8082, 8260, 8270).

Louisiana Department of Environmental Quality Certificate No.: 03090 - Primary NELAP Accrediting Authority for *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 405.1, 413.1, 420.1, SM2540G, COD HACH 8000; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). *Solid and Hazardous Waste* (General Chemistry:1010, 1311, 9010/9014, 9045, 9056, 9060; Metals: 6010, 6020, 7041, 7060, 7191, 7421, 7470, 7471, 7740, 7841; Organics: 8081, 8082, 8260, 8270).

Maine Department of Human Services Certificate No.: MA030 - *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 405.1, 413.1, 420.1, COD HACH 8000; Metals: 200.7, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624).

Massachusetts Department of Environmental Protection Certificate No.: M-MA030 - *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 405.1, 413.1, 420.1, COD HACH 8000; Metals: 200.7, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624).

New Hampshire Department of Environmental Services Certificate No.: 220604 - Secondary NELAP Accreditation for *Wastewater* (General Chemistry: 120.1/2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 365.2, 376.2, 405.1, 413.1, 420.1, COD HACH 8000, SM2540G; Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625).

New Jersey Department of Environmental Protection Certificate No.: MA015 - *Solid and Hazardous Waste* (General Chemistry: 1010, 1311, 3060, 7196, 9010/9014, 9045, 9056, 9060; Metals: 3010, 3015, 3020, 3050, 3051, 6010, 6020, 7041, 7060, 7131, 7191, 7211, 7421, 7470, 7471, 7520, 7740, 7761, 7841; Organics: 3510, 3545, 5030, 5035, 3620, 3630, 3640, 3660, 8081, 8082, 8100, 8260, 8270).

New York Department of Health Certificate No.: 11627 - Secondary NELAP Accreditation for *Wastewater* (Metals: 200.7, 204.2, 206.2, 239.2, 245.1, 270.2, 279.2; Organics: 608, 624, 625). *Solid and Hazardous Waste* (Metals: 6010, 7041, 7060, 7470, 7471, 7740; Organics: 8081, 8082, 8260, 8270).

Rhode Island Department of Health Certificate No.: 00064 - Chemistry: *Organic and Inorganic in Surface Water, Wastewater/Sewage and Soil* (Method numbers not specified with certificate.)

U.S. Army Corps of Engineers - General Chemistry: 9010/9014, 9071/418.1, 9060; Organics: 8081, 8082, 8260, 8270, 8270-SIM; Metals: 6010, 6020, 7000.

Department of the Navy - General Chemistry: 9010/9014, 9060; Organics: 8081, 8082, 8015-mod, 8260, 8270, 8270-SIM; Metals: 6010, 6020.

ALPHA
WOODS HOLE LABS

ANALYTICAL REPORT

Lab Number:	L0701035
Client:	Beta Engineering, Inc. 315 Norwood Park South Norwood, MA 02062
ATTN:	Al Hanscom
Project Name:	KEITH MIDDLE SCHOOL
Project Number:	3261
Report Date:	01/29/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261

Lab Number: L0701035
Report Date: 01/29/07

Alpha Sample ID	Client ID	Sample Location
L0701035-01	A8 A VS-1	NEW BEDFORD, MA
L0701035-02	A8 B VS-1	NEW BEDFORD, MA
L0701035-03	A8 A VS-4	NEW BEDFORD, MA
L0701035-04	A8 B VS-4	NEW BEDFORD, MA
L0701035-05	B8 A VS-5	NEW BEDFORD, MA
L0701035-06	B8 B VS-5	NEW BEDFORD, MA
L0701035-07	C8 A VS-12	NEW BEDFORD, MA
L0701035-08	C8 B VS-12	NEW BEDFORD, MA
L0701035-09	BACKGROUND 8	NEW BEDFORD, MA
L0701035-10	BACKGROUND 8 DUP	NEW BEDFORD, MA
L0701035-11	TRIP BLANK	NEW BEDFORD, MA

Project Name:	KEITH MIDDLE SCHOOL	**Lab Number:**	L0701035
Project Number:	3261	**Report Date:**	01/29/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Volatile Organic Compounds in Air

L0701035-02, -05: The RPDs for rate of flow controller are above method acceptance criteria (26% and 14%, respectively).

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:

Title: Technical Director

Date: 01/29/07

AIR

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261
Lab Number: L0701035
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID: L0701035-02
Client ID: A8 B VS-1
Sample Location: NEW BEDFORD, MA
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/24/07 20:08
Analyst: HM

Date Collected: 01/20/07 12:50
Date Received: 01/22/07
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trichlorbenzene	ND	0.500	ND	3.71		1
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	1.30	0.500	5.28	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethybenzene	ND	0.500	ND	2.46		1
1,3-Butadiene	ND	0.500	ND	1.10		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dioxane	ND	1.00	ND	3.60		1
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		1
2-Butanone	5.95	0.500	17.5	1.47		1
2-Hexanone	ND	0.500	ND	2.05		1
3-Chloropropene	ND	0.500	ND	1.56		1
4-Ethyltoluene	ND	0.500	ND	2.46		1
Acetone	52.8	2.00	125	4.75		1
Benzene	1.16	0.500	3.72	1.60		1
Benzyl chloride	ND	0.500	ND	2.59		1
Bromodichloromethane	ND	0.500	ND	3.35		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261
Lab Number: L0701035
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID: L0701035-02
Client ID: A8 B VS-1
Sample Location: NEW BEDFORD, MA
Date Collected: 01/20/07 12:50
Date Received: 01/22/07
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Bromoform	ND	0.500	ND	5.16		1
Bromomethane	ND	0.500	ND	1.94		1
Carbon disulfide	1.68	0.500	5.22	1.56		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	1.69	0.500	8.22	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Cyclohexane	0.783	0.500	2.69	1.72		1
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethanol	20.2	2.00	38.1	3.76		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	ND	0.500	ND	2.17		1
Freon-113	ND	0.500	ND	3.83		1
Freon-114	ND	0.500	ND	3.49		1
Hexachlorobutadiene	ND	0.500	ND	5.33		1
Isopropanol	ND	0.500	ND	1.23		1
Methylene chloride	ND	1.00	ND	3.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Methyl tert butyl ether	ND	0.500	ND	1.80		1
p/m-Xylene	ND	1.00	ND	4.34		1
o-Xylene	ND	0.500	ND	2.17		1
n-Heptane	0.971	0.500	3.98	2.05		1
n-Hexane	1.82	1.00	6.42	3.52		1
Propylene	ND	1.00	ND	1.72		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0701035

Project Number: 3261 **Report Date:** 01/29/07

SAMPLE RESULTS

Lab ID: L0701035-02 Date Collected: 01/20/07 12:50

Client ID: A8 B VS-1 Date Received: 01/22/07

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	0.990	0.500	6.71	3.39		1
Tetrahydrofuran	23.2	0.500	68.4	1.47		1
Toluene	1.47	0.500	5.52	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	ND	0.500	ND	2.68		1
Trichlorofluoromethane	ND	0.500	ND	2.81		1
Vinyl acetate	ND	0.500	ND	1.76		1
Vinyl bromide	ND	0.500	ND	2.18		1
Vinyl chloride	ND	0.500	ND	1.28		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261

Lab Number: L0701035
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID: L0701035-03
Client ID: A8 A VS-4
Sample Location: NEW BEDFORD, MA
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/24/07 20:42
Analyst: HM

Date Collected: 01/20/07 17:05
Date Received: 01/22/07
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trichlorbenzene	ND	0.500	ND	3.71		1
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	1.20	0.500	4.86	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethybenzene	ND	0.500	ND	2.46		1
1,3-Butadiene	ND	0.500	ND	1.10		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dioxane	ND	1.00	ND	3.60		1
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		1
2-Butanone	ND	0.500	ND	1.47		1
2-Hexanone	ND	0.500	ND	2.05		1
3-Chloropropene	ND	0.500	ND	1.56		1
4-Ethyltoluene	ND	0.500	ND	2.46		1
Acetone	12.1	2.00	28.7	4.75		1
Benzene	1.23	0.500	3.92	1.60		1
Benzyl chloride	ND	0.500	ND	2.59		1
Bromodichloromethane	ND	0.500	ND	3.35		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0701035
Project Number: 3261 **Report Date:** 01/29/07

SAMPLE RESULTS

Lab ID: L0701035-03 Date Collected: 01/20/07 17:05
Client ID: A8 A VS-4 Date Received: 01/22/07
Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Bromoform	ND	0.500	ND	5.16		1
Bromomethane	ND	0.500	ND	1.94		1
Carbon disulfide	1.39	0.500	4.33	1.56		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	1.29	0.500	6.31	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Cyclohexane	0.738	0.500	2.54	1.72		1
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethanol	2.98	2.00	5.62	3.76		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	ND	0.500	ND	2.17		1
Freon-113	ND	0.500	ND	3.83		1
Freon-114	ND	0.500	ND	3.49		1
Hexachlorobutadiene	ND	0.500	ND	5.33		1
Isopropanol	ND	0.500	ND	1.23		1
Methylene chloride	ND	1.00	ND	3.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Methyl tert butyl ether	ND	0.500	ND	1.80		1
p/m-Xylene	ND	1.00	ND	4.34		1
o-Xylene	ND	0.500	ND	2.17		1
n-Heptane	1.03	0.500	4.21	2.05		1
n-Hexane	1.80	1.00	6.34	3.52		1
Propylene	ND	1.00	ND	1.72		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261
Lab Number: L0701035
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID: L0701035-03
Client ID: A8 A VS-4
Sample Location: NEW BEDFORD, MA
Date Collected: 01/20/07 17:05
Date Received: 01/22/07
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	0.797	0.500	5.40	3.39		1
Tetrahydrofuran	34.6	0.500	102	1.47		1
Toluene	1.59	0.500	5.97	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	ND	0.500	ND	2.68		1
Trichlorofluoromethane	ND	0.500	ND	2.81		1
Vinyl acetate	ND	0.500	ND	1.76		1
Vinyl bromide	ND	0.500	ND	2.18		1
Vinyl chloride	ND	0.500	ND	1.28		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261
Lab Number: L0701035
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID:	L0701035-05	Date Collected:	01/20/07 13:30
Client ID:	B8 A VS-5	Date Received:	01/22/07
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	01/24/07 21:16		
Analyst:	HM		

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trichlorbenzene	ND	0.500	ND	3.71		1
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	ND	0.500	ND	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethybenzene	ND	0.500	ND	2.46		1
1,3-Butadiene	ND	0.500	ND	1.10		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dioxane	ND	1.00	ND	3.60		1
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		1
2-Butanone	ND	0.500	ND	1.47		1
2-Hexanone	ND	0.500	ND	2.05		1
3-Chloropropene	ND	0.500	ND	1.56		1
4-Ethyltoluene	ND	0.500	ND	2.46		1
Acetone	4.32	2.00	10.2	4.75		1
Benzene	1.53	0.500	4.87	1.60		1
Benzyl chloride	ND	0.500	ND	2.59		1
Bromodichloromethane	ND	0.500	ND	3.35		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261

Lab Number: L0701035
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID: L0701035-05
Client ID: B8 A VS-5
Sample Location: NEW BEDFORD, MA

Date Collected: 01/20/07 13:30
Date Received: 01/22/07
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Bromoform	ND	0.500	ND	5.16		1
Bromomethane	ND	0.500	ND	1.94		1
Carbon disulfide	0.842	0.500	2.62	1.56		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	ND	0.500	ND	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Cyclohexane	ND	0.500	ND	1.72		1
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethanol	2.25	2.00	4.24	3.76		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	ND	0.500	ND	2.17		1
Freon-113	ND	0.500	ND	3.83		1
Freon-114	ND	0.500	ND	3.49		1
Hexachlorobutadiene	ND	0.500	ND	5.33		1
Isopropanol	ND	0.500	ND	1.23		1
Methylene chloride	ND	1.00	ND	3.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Methyl tert butyl ether	ND	0.500	ND	1.80		1
p/m-Xylene	ND	1.00	ND	4.34		1
o-Xylene	ND	0.500	ND	2.17		1
n-Heptane	1.17	0.500	4.79	2.05		1
n-Hexane	1.47	1.00	5.18	3.52		1
Propylene	ND	1.00	ND	1.72		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0701035

Project Number: 3261 **Report Date:** 01/29/07

SAMPLE RESULTS

Lab ID: L0701035-05 Date Collected: 01/20/07 13:30

Client ID: B8 A VS-5 Date Received: 01/22/07

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	ND	0.500	ND	3.39		1
Tetrahydrofuran	ND	0.500	ND	1.47		1
Toluene	2.73	0.500	10.3	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	ND	0.500	ND	2.68		1
Trichlorofluoromethane	ND	0.500	ND	2.81		1
Vinyl acetate	ND	0.500	ND	1.76		1
Vinyl bromide	ND	0.500	ND	2.18		1
Vinyl chloride	ND	0.500	ND	1.28		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261

Lab Number: L0701035
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID: L0701035-07
Client ID: C8 A VS-12
Sample Location: NEW BEDFORD, MA
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/24/07 21:49
Analyst: HM

Date Collected: 01/20/07 15:20
Date Received: 01/22/07
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trichlorbenzene	ND	0.500	ND	3.71		1
1,2,4-Trimethylbenzene	1.91	0.500	9.38	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	ND	0.500	ND	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethybenzene	0.888	0.500	4.36	2.46		1
1,3-Butadiene	ND	0.500	ND	1.10		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dioxane	ND	1.00	ND	3.60		1
2,2,4-Trimethylpentane	0.853	0.500	3.98	2.33		1
2-Butanone	ND	0.500	ND	1.47		1
2-Hexanone	ND	0.500	ND	2.05		1
3-Chloropropene	ND	0.500	ND	1.56		1
4-Ethyltoluene	0.969	0.500	4.76	2.46		1
Acetone	ND	2.00	ND	4.75		1
Benzene	2.72	0.500	8.68	1.60		1
Benzyl chloride	ND	0.500	ND	2.59		1
Bromodichloromethane	ND	0.500	ND	3.35		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0701035

Project Number: 3261 **Report Date:** 01/29/07

SAMPLE RESULTS

Lab ID: L0701035-07 Date Collected: 01/20/07 15:20

Client ID: C8 A VS-12 Date Received: 01/22/07

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Bromoform	ND	0.500	ND	5.16		1
Bromomethane	ND	0.500	ND	1.94		1
Carbon disulfide	0.826	0.500	2.57	1.56		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	0.927	0.500	4.52	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Cyclohexane	4.97	0.500	17.1	1.72		1
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethanol	ND	2.00	ND	3.76		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	3.89	0.500	16.9	2.17		1
Freon-113	ND	0.500	ND	3.83		1
Freon-114	ND	0.500	ND	3.49		1
Hexachlorobutadiene	ND	0.500	ND	5.33		1
Isopropanol	ND	0.500	ND	1.23		1
Methylene chloride	ND	1.00	ND	3.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Methyl tert butyl ether	34.5	0.500	124	1.80		1
p/m-Xylene	11.9	1.00	51.5	4.34		1
o-Xylene	5.23	0.500	22.7	2.17		1
n-Heptane	2.98	0.500	12.2	2.05		1
n-Hexane	12.9	1.00	45.4	3.52		1
Propylene	ND	1.00	ND	1.72		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261

Lab Number: L0701035
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID: L0701035-07
Client ID: C8 A VS-12
Sample Location: NEW BEDFORD, MA

Date Collected: 01/20/07 15:20
Date Received: 01/22/07
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	ND	0.500	ND	3.39		1
Tetrahydrofuran	ND	0.500	ND	1.47		1
Toluene	16.8	0.500	63.1	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	ND	0.500	ND	2.68		1
Trichlorofluoromethane	ND	0.500	ND	2.81		1
Vinyl acetate	ND	0.500	ND	1.76		1
Vinyl bromide	ND	0.500	ND	2.18		1
Vinyl chloride	ND	0.500	ND	1.28		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261
Lab Number: L0701035
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID:	L0701035-09	Date Collected:	01/20/07 15:00
Client ID:	BACKGROUND 8	Date Received:	01/22/07
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	01/24/07 22:28		
Analyst:	HM		

	ppbV		ug/m3			
Parameter	**Results**	**RDL**	**Results**	**RDL**	**Qualifier**	**Dilution Factor**
Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trichlorbenzene	ND	0.500	ND	3.71		1
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	ND	0.500	ND	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethybenzene	ND	0.500	ND	2.46		1
1,3-Butadiene	ND	0.500	ND	1.10		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dioxane	ND	1.00	ND	3.60		1
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		1
2-Butanone	ND	0.500	ND	1.47		1
2-Hexanone	ND	0.500	ND	2.05		1
3-Chloropropene	ND	0.500	ND	1.56		1
4-Ethyltoluene	ND	0.500	ND	2.46		1
Acetone	ND	2.00	ND	4.75		1
Benzene	ND	0.500	ND	1.60		1
Benzyl chloride	ND	0.500	ND	2.59		1
Bromodichloromethane	ND	0.500	ND	3.35		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261

Lab Number: L0701035
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID: L0701035-09
Client ID: BACKGROUND 8
Sample Location: NEW BEDFORD, MA

Date Collected: 01/20/07 15:00
Date Received: 01/22/07
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Bromoform	ND	0.500	ND	5.16		1
Bromomethane	ND	0.500	ND	1.94		1
Carbon disulfide	0.713	0.500	2.22	1.56		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	ND	0.500	ND	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Cyclohexane	ND	0.500	ND	1.72		1
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethanol	ND	2.00	ND	3.76		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	ND	0.500	ND	2.17		1
Freon-113	ND	0.500	ND	3.83		1
Freon-114	ND	0.500	ND	3.49		1
Hexachlorobutadiene	ND	0.500	ND	5.33		1
Isopropanol	ND	0.500	ND	1.23		1
Methylene chloride	ND	1.00	ND	3.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Methyl tert butyl ether	ND	0.500	ND	1.80		1
p/m-Xylene	ND	1.00	ND	4.34		1
o-Xylene	ND	0.500	ND	2.17		1
n-Heptane	ND	0.500	ND	2.05		1
n-Hexane	ND	1.00	ND	3.52		1
Propylene	ND	1.00	ND	1.72		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0701035

Project Number: 3261 **Report Date:** 01/29/07

SAMPLE RESULTS

Lab ID: L0701035-09 Date Collected: 01/20/07 15:00

Client ID: BACKGROUND 8 Date Received: 01/22/07

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	ND	0.500	ND	3.39		1
Tetrahydrofuran	ND	0.500	ND	1.47		1
Toluene	ND	0.500	ND	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	ND	0.500	ND	2.68		1
Trichlorofluoromethane	ND	0.500	ND	2.81		1
Vinyl acetate	ND	0.500	ND	1.76		1
Vinyl bromide	ND	0.500	ND	2.18		1
Vinyl chloride	ND	0.500	ND	1.28		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261

Lab Number: L0701035
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID:	L0701035-10	Date Collected:	01/20/07 15:00
Client ID:	BACKGROUND 8 DUP	Date Received:	01/22/07
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	01/24/07 23:01		
Analyst:	HM		

	ppbV		ug/m3			
Parameter	**Results**	**RDL**	**Results**	**RDL**	**Qualifier**	**Dilution Factor**
Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trichlorbenzene	ND	0.500	ND	3.71		1
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	ND	0.500	ND	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethybenzene	ND	0.500	ND	2.46		1
1,3-Butadiene	ND	0.500	ND	1.10		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dioxane	ND	1.00	ND	3.60		1
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		1
2-Butanone	ND	0.500	ND	1.47		1
2-Hexanone	ND	0.500	ND	2.05		1
3-Chloropropene	ND	0.500	ND	1.56		1
4-Ethyltoluene	ND	0.500	ND	2.46		1
Acetone	ND	2.00	ND	4.75		1
Benzene	ND	0.500	ND	1.60		1
Benzyl chloride	ND	0.500	ND	2.59		1
Bromodichloromethane	ND	0.500	ND	3.35		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0701035
Project Number: 3261 **Report Date:** 01/29/07

SAMPLE RESULTS

Lab ID: L0701035-10 Date Collected: 01/20/07 15:00
Client ID: BACKGROUND 8 DUP Date Received: 01/22/07
Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Bromoform	ND	0.500	ND	5.16		1
Bromomethane	ND	0.500	ND	1.94		1
Carbon disulfide	0.507	0.500	1.58	1.56		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	ND	0.500	ND	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Cyclohexane	ND	0.500	ND	1.72		1
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethanol	ND	2.00	ND	3.76		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	ND	0.500	ND	2.17		1
Freon-113	ND	0.500	ND	3.83		1
Freon-114	ND	0.500	ND	3.49		1
Hexachlorobutadiene	ND	0.500	ND	5.33		1
Isopropanol	ND	0.500	ND	1.23		1
Methylene chloride	1.16	1.00	4.02	3.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Methyl tert butyl ether	ND	0.500	ND	1.80		1
p/m-Xylene	ND	1.00	ND	4.34		1
o-Xylene	ND	0.500	ND	2.17		1
n-Heptane	ND	0.500	ND	2.05		1
n-Hexane	ND	1.00	ND	3.52		1
Propylene	ND	1.00	ND	1.72		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261

Lab Number: L0701035
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID: L0701035-10
Client ID: BACKGROUND 8 DUP
Sample Location: NEW BEDFORD, MA

Date Collected: 01/20/07 15:00
Date Received: 01/22/07
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	ND	0.500	ND	3.39		1
Tetrahydrofuran	ND	0.500	ND	1.47		1
Toluene	ND	0.500	ND	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	ND	0.500	ND	2.68		1
Trichlorofluoromethane	ND	0.500	ND	2.81		1
Vinyl acetate	ND	0.500	ND	1.76		1
Vinyl bromide	ND	0.500	ND	2.18		1
Vinyl chloride	ND	0.500	ND	1.28		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261
Lab Number: L0701035
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID:	L0701035-11	Date Collected:	01/20/07 00:00
Client ID:	TRIP BLANK	Date Received:	01/22/07
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	01/24/07 23:34		
Analyst:	HM		

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trichlorbenzene	ND	0.500	ND	3.71		1
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	ND	0.500	ND	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethybenzene	ND	0.500	ND	2.46		1
1,3-Butadiene	ND	0.500	ND	1.10		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dioxane	ND	1.00	ND	3.60		1
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		1
2-Butanone	ND	0.500	ND	1.47		1
2-Hexanone	ND	0.500	ND	2.05		1
3-Chloropropene	ND	0.500	ND	1.56		1
4-Ethyltoluene	ND	0.500	ND	2.46		1
Acetone	ND	2.00	ND	4.75		1
Benzene	ND	0.500	ND	1.60		1
Benzyl chloride	ND	0.500	ND	2.59		1
Bromodichloromethane	ND	0.500	ND	3.35		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261

Lab Number: L0701035
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID: L0701035-11
Client ID: TRIP BLANK
Sample Location: NEW BEDFORD, MA

Date Collected: 01/20/07 00:00
Date Received: 01/22/07
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Bromoform	ND	0.500	ND	5.16		1
Bromomethane	ND	0.500	ND	1.94		1
Carbon disulfide	ND	0.500	ND	1.56		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	ND	0.500	ND	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Cyclohexane	ND	0.500	ND	1.72		1
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethanol	ND	2.00	ND	3.76		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	ND	0.500	ND	2.17		1
Freon-113	ND	0.500	ND	3.83		1
Freon-114	ND	0.500	ND	3.49		1
Hexachlorobutadiene	ND	0.500	ND	5.33		1
Isopropanol	ND	0.500	ND	1.23		1
Methylene chloride	ND	1.00	ND	3.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Methyl tert butyl ether	ND	0.500	ND	1.80		1
p/m-Xylene	ND	1.00	ND	4.34		1
o-Xylene	ND	0.500	ND	2.17		1
n-Heptane	ND	0.500	ND	2.05		1
n-Hexane	ND	1.00	ND	3.52		1
Propylene	ND	1.00	ND	1.72		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0701035

Project Number: 3261 **Report Date:** 01/29/07

SAMPLE RESULTS

Lab ID: L0701035-11 Date Collected: 01/20/07 00:00

Client ID: TRIP BLANK Date Received: 01/22/07

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	ND	0.500	ND	3.39		1
Tetrahydrofuran	ND	0.500	ND	1.47		1
Toluene	ND	0.500	ND	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	ND	0.500	ND	2.68		1
Trichlorofluoromethane	ND	0.500	ND	2.81		1
Vinyl acetate	ND	0.500	ND	1.76		1
Vinyl bromide	ND	0.500	ND	2.18		1
Vinyl chloride	ND	0.500	ND	1.28		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0701035

Project Number: 3261 **Report Date:** 01/29/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/24/07 10:53

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air for sample(s): 02-03,05,07,09-11 Batch: WG268573-2						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trichlorbenzene	ND	0.500	ND	3.71		1
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	ND	0.500	ND	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethybenzene	ND	0.500	ND	2.46		1
1,3-Butadiene	ND	0.500	ND	1.10		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dioxane	ND	1.00	ND	3.60		1
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		1
2-Butanone	ND	0.500	ND	1.47		1
2-Hexanone	ND	0.500	ND	2.05		1
3-Chloropropene	ND	0.500	ND	1.56		1
4-Ethyltoluene	ND	0.500	ND	2.46		1
Acetone	ND	2.00	ND	4.75		1
Benzene	ND	0.500	ND	1.60		1
Benzyl chloride	ND	0.500	ND	2.59		1
Bromodichloromethane	ND	0.500	ND	3.35		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0701035

Project Number: 3261 **Report Date:** 01/29/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/24/07 10:53

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air for sample(s): 02-03,05,07,09-11 Batch: WG268573-2						
Bromoform	ND	0.500	ND	5.16		1
Bromomethane	ND	0.500	ND	1.94		1
Carbon disulfide	ND	0.500	ND	1.56		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	ND	0.500	ND	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Cyclohexane	ND	0.500	ND	1.72		1
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethanol	ND	2.00	ND	3.76		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	ND	0.500	ND	2.17		1
Freon-113	ND	0.500	ND	3.83		1
Freon-114	ND	0.500	ND	3.49		1
Hexachlorobutadiene	ND	0.500	ND	5.33		1
Isopropanol	ND	0.500	ND	1.23		1
Methylene chloride	ND	1.00	ND	3.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Methyl tert butyl ether	ND	0.500	ND	1.80		1
p/m-Xylene	ND	1.00	ND	4.34		1
o-Xylene	ND	0.500	ND	2.17		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261

Lab Number: L0701035
Report Date: 01/29/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/24/07 10:53

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air for sample(s): 02-03,05,07,09-11 Batch: WG268573-2						
n-Heptane	ND	0.500	ND	2.05		1
n-Hexane	ND	1.00	ND	3.52		1
Propylene	ND	1.00	ND	1.72		1
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	ND	0.500	ND	3.39		1
Tetrahydrofuran	ND	0.500	ND	1.47		1
Toluene	ND	0.500	ND	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	ND	0.500	ND	2.68		1
Trichlorofluoromethane	ND	0.500	ND	2.81		1
Vinyl acetate	ND	0.500	ND	1.76		1
Vinyl bromide	ND	0.500	ND	2.18		1
Vinyl chloride	ND	0.500	ND	1.28		1

ALPHA

Lab Control Sample Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261

Lab Number: L0701035
Report Date: 01/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 02-03,05,07,09-11 Batch: WG268573-1					
1,1,1-Trichloroethane	87	-	70-130	-	
1,1,2,2-Tetrachloroethane	108	-	70-130	-	
1,1,2-Trichloroethane	100	-	70-130	-	
1,1-Dichloroethane	90	-	70-130	-	
1,1-Dichloroethene	91	-	70-130	-	
1,2,4-Trichlorobenzene	98	-	70-130	-	
1,2,4-Trimethylbenzene	114	-	70-130	-	
1,2-Dibromoethane	113	-	70-130	-	
1,2-Dichlorobenzene	104	-	70-130	-	
1,2-Dichloroethane	88	-	70-130	-	
1,2-Dichloropropane	99	-	70-130	-	
1,3,5-Trimethylbenzene	101	-	70-130	-	
1,3-Butadiene	89	-	70-130	-	
1,3-Dichlorobenzene	107	-	70-130	-	
1,4-Dichlorobenzene	109	-	70-130	-	
1,4-Dioxane	114	-	70-130	-	
2,2,4-Trimethylpentane	95	-	70-130	-	
2-Butanone	94	-	70-130	-	
2-Hexanone	100	-	70-130	-	
3-Chloropropene	100	-	70-130	-	
4-Ethyltoluene	114	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261
Lab Number: L0701035
Report Date: 01/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 02-03,05,07,09-11 Batch: WG268573-1					
Acetone	82	-	70-130	-	
Benzene	108	-	70-130	-	
Benzyl chloride	123	-	70-130	-	
Bromodichloromethane	92	-	70-130	-	
Bromoform	107	-	70-130	-	
Bromomethane	100	-	70-130	-	
Carbon disulfide	94	-	70-130	-	
Carbon tetrachloride	90	-	70-130	-	
Chlorobenzene	112	-	70-130	-	
Chloroethane	108	-	70-130	-	
Chloroform	89	-	70-130	-	
Chloromethane	79	-	70-130	-	
cis-1,2-Dichloroethene	97	-	70-130	-	
cis-1,3-Dichloropropene	102	-	70-130	-	
Cyclohexane	97	-	70-130	-	
Dibromochloromethane	105	-	70-130	-	
Dichlorodifluoromethane	82	-	70-130	-	
Ethyl Alcohol	109	-	70-130	-	
Ethyl Acetate	90	-	70-130	-	
Ethylbenzene	113	-	70-130	-	
1,1,2-Trichloro-1,2,2-Trifluoroethane	90	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261

Lab Number: L0701035
Report Date: 01/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 02-03,05,07,09-11 Batch: WG268573-1					
1,2-Dichloro-1,1,2,2-tetrafluoroethane	83	-	70-130	-	
Hexachlorobutadiene	92	-	70-130	-	
iso-Propyl Alcohol	106	-	70-130	-	
Methylene chloride	87	-	70-130	-	
4-Methyl-2-pentanone	99	-	70-130	-	
Methyl tert butyl ether	98	-	70-130	-	
p/m-Xylene	114	-	70-130	-	
o-Xylene	122	-	70-130	-	
n-Heptane	94	-	70-130	-	
n-Hexane	93	-	70-130	-	
Propylene	99	-	70-130	-	
Styrene	128	-	70-130	-	
Tetrachloroethene	106	-	70-130	-	
Tetrahydrofuran	97	-	70-130	-	
Toluene	103	-	70-130	-	
trans-1,2-Dichloroethene	98	-	70-130	-	
trans-1,3-Dichloropropene	102	-	70-130	-	
Trichloroethene	104	-	70-130	-	
Trichlorofluoromethane	82	-	70-130	-	
Vinyl acetate	95	-	70-130	-	
Vinyl bromide	95	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261
Lab Number: L0701035
Report Date: 01/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 02-03,05,07,09-11 Batch: WG268573-1					
Vinyl chloride	87	-	70-130	-	
Naphthalene	111	-	70-130	-	
Propane	90	-	70-130	-	
Acrylonitrile	90	-	70-130	-	
Acrolein	95	-	70-130	-	
1,1,1,2-Tetrachloroethane	101	-	70-130	-	
Isopropylbenzene	101	-	70-130	-	
1,2,3-Trichloropropane	100	-	70-130	-	
Acetonitrile	95	-	70-130	-	
Bromobenzene	101	-	70-130	-	
Chlorodifluoromethane	84	-	70-130	-	
Dichlorofluoromethane	84	-	70-130	-	
Dibromomethane	99	-	70-130	-	
Pentane	89	-	70-130	-	
Octane	97	-	70-130	-	
Tertiary-Amyl Methyl Ether	100	-	70-130	-	
o-Chlorotoluene	106	-	70-130	-	
p-Chlorotoluene	100	-	70-130	-	
2,2-Dichloropropane	89	-	70-130	-	
1,1-Dichloropropene	95	-	70-130	-	
Isopropyl Ether	97	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261

Lab Number: L0701035
Report Date: 01/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 02-03,05,07,09-11 Batch: WG268573-1					
Ethyl-Tert-Butyl-Ether	98	-	70-130	-	
1,2,3-Trichlorobenzene	111	-	70-130	-	
Ethyl ether	104	-	70-130	-	
n-Butylbenzene	107	-	70-130	-	
sec-Butylbenzene	107	-	70-130	-	
tert-Butylbenzene	111	-	70-130	-	
1,2-Dibromo-3-chloropropane	110	-	70-130	-	
p-Isopropyltoluene	111	-	70-130	-	
n-Propylbenzene	108	-	70-130	-	
1,3-Dichloropropane	101	-	70-130	-	
Methanol	106	-	70-130	-	
Butane	81	-	70-130	-	
Nonane (C9)	101	-	70-130	-	
Decane (C10)	104	-	70-130	-	
Undecane	110	-	70-130	-	
Dodecane (C12)	119	-	70-130	-	

Lab Duplicate Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261

Lab Number: L0701035
Report Date: 01/29/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 02-03,05,07,09-11 QC Batch ID: WG268573-3 QC Sample: L0700819-01 Client ID: DUP Sample					
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
1,2,4-Trichlorbenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	0.546	0.538	ppbV	1	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
1,3,5-Trimethybenzene	ND	ND	ppbV	NC	25
1,3-Butadiene	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25
2-Butanone	2.22	2.17	ppbV	2	25
2-Hexanone	ND	ND	ppbV	NC	25

ALPHA

Lab Duplicate Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261

Lab Number: L0701035
Report Date: 01/29/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 02-03,05,07,09-11 QC Batch ID: WG268573-3 QC Sample: L0700819-01 Client ID: DUP Sample					
3-Chloropropene	ND	ND	ppbV	NC	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
Acetone	6.26	6.05	ppbV	3	25
Benzene	ND	ND	ppbV	NC	25
Benzyl chloride	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Bromomethane	ND	ND	ppbV	NC	25
Carbon disulfide	1.14	1.05	ppbV	8	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Chloroethane	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25
Chloromethane	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Cyclohexane	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
Dichlorodifluoromethane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261

Lab Number: L0701035
Report Date: 01/29/07

Volatile Organic Compounds in Air Associated sample(s): 02-03,05,07,09-11 QC Batch ID: WG268573-3 QC Sample: L0700819-01 Client ID: DUP Sample

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Ethanol	28.7	28.3	ppbV	1	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
Freon-113	ND	ND	ppbV	NC	25
Freon-114	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25
Isopropanol	12.6	11.7	ppbV	7	25
Methylene chloride	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
n-Heptane	ND	ND	ppbV	NC	25
n-Hexane	ND	ND	ppbV	NC	25
Propylene	2.80	3.16	ppbV	12	25
Styrene	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
Tetrahydrofuran	ND	ND	ppbV	NC	25
Toluene	1.06	1.04	ppbV	2	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261

Lab Number: L0701035
Report Date: 01/29/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 02-03,05,07,09-11 QC Batch ID: WG268573-3 QC Sample: L0700819-01 Client ID: DUP Sample					
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	ND	ND	ppbV	NC	25
Trichlorofluoromethane	ND	ND	ppbV	NC	25
Vinyl acetate	ND	ND	ppbV	NC	25
Vinyl bromide	ND	ND	ppbV	NC	25
Vinyl chloride	ND	ND	ppbV	NC	25

Project Name: KEITH MIDDLE SCHOOL
Project Number: 3261

Lab Number: L0701035
Report Date: 01/29/07

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0701035-01A	Canister - 2.7 Liter	NA	NA	NA	Y	Absent	HOLD
L0701035-02A	Canister - 2.7 Liter	NA	NA	NA	NA	Absent	TO-15
L0701035-03A	Canister - 2.7 Liter	NA	NA	NA	NA	Absent	TO-15
L0701035-04A	Canister - 2.7 Liter	NA	NA	NA	NA	Absent	HOLD
L0701035-05A	Canister - 2.7 Liter	NA	NA	NA	NA	Absent	TO-15
L0701035-06A	Canister - 2.7 Liter	NA	NA	NA	Y	Absent	HOLD
L0701035-07A	Canister - 2.7 Liter	NA	NA	NA	NA	Absent	TO-15
L0701035-08A	Canister - 2.7 Liter	NA	NA	NA	Y	Absent	HOLD
L0701035-09A	Canister - 2.7 Liter	NA	NA	NA	NA	Absent	TO-15
L0701035-10A	Canister - 2.7 Liter	NA	NA	NA	NA	Absent	TO-15
L0701035-11A	Canister - 2.7 Liter	NA	NA	NA	NA	Absent	TO-15

Project Name:	KEITH MIDDLE SCHOOL	**Lab Number:**	L0701035
Project Number:	3261	**Report Date:**	01/29/07

GLOSSARY

Acronyms

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.

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.

ND - Not detected at the reported detection limit for the sample.

RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL 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.

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

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

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.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Report Format: Not Specified

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0701035
Project Number: 3261 **Report Date:** 01/29/07

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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.

01290712:28

AIR ANALYSIS

PAGE 1 OF 2

CHAIN OF CUSTODY

Eight Walkup Drive Westborough, MA 01581
TEL: 508-898-9220 FAX: 508-898-9193

Date Rec'd in Lab: 1/22/07

ALPHA Job#: L0701035

Client Information

Client: BETA Group Inc.
Address: 315 Norwood Park S
Norwood, MA 02062
Phone: 781-255-1982
Fax: 781-255-1974
Email: ahanscom@beta-inc.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Keith Middle School
Project Location: New Bedford, MA
Project #: 3261
Project Manager: Al Hanscom
ALPHA Quote #:

Turn-Around Time

☑ Standard 5 DAYS TO-13, 10 DAYS ☐ RUSH (only confirmed if pre-approved)
Date Due: ~~1/29/07~~ TF 2/5/07 Time:

Report Information - Data Deliverables

☐ FAX
☑ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☑ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed	Program	Criteria

Other Project Specific Requirements/Comments:

2.75-Liter SUMMAs

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Start Time	Collection End Time	Sample Matrix	Sampler's Initials	ID Can	ID-Flow Controller	TO-14A	TO-15	APH	DISSOLVED GASES	FIXED GASES	TO-13A	TO-15 SULFIDES/MERCAPTANS	DISS GASES CO2 ONLY		(ppb) Sample Comments	TOTAL # CONTAINERS
1035-01	A8 A VS-1 Hold	1-20-07	8:50	11:20	Air	DGD	0104	730837		✓								0	1
-02	A8 B VS-1		8:50	11:20			0513	724911		✓								0	1
-03	A8 A VS-4		1:05 ~~11:50~~	3:05 ~~4:50~~			0483	724925		✓								0	1
-04	A8 B VS-4		1:05 ~~11:50~~	3:05 ~~4:50~~			0422	724917		✓								0	1
-05	B8 A VS-5		9:30	1:30			0420	730546		✓								227	1
-06	B8 B VS-5 Hold		9:30	1:30			0214	730835		✓								227	1
-07	C8 A VS-12		11:20	3:20			0216	730417		✓								0	1
-08	C8 B VS-12 Hold		11:20	3:20			0395	730837		✓								0	1
-09	Background 8		11:00	3:00			0506	731353		✓								0	1
-10	Background 8 Dup		11:00	3:00			0258	727454		✓								0	1

Shaded Gray Areas For Lab Use Only

Container Type: C S

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

Do not analyze sample labled "Hold" Please Hold for Mission Future use

Relinquished By:	Date/Time	Received By:	Date/Time
[illegible]	1/22/07 930	Paul Gilbert	1/22/07 9:35
[illegible]	1/22/07 1240	[illegible]	1/22/07 1240

Form No: 01-03 (rev. 8-JUN-05)

01290712:28

AIR ANALYSIS

PAGE 2 OF 2

CHAIN OF CUSTODY

Eight Walkup Drive Westborough, MA 01581
TEL: 508-898-9220 FAX: 508-898-9193

Date Rec'd in Lab: 1/22/07

ALPHA Job #: L0701035

Client Information

Client: BETA Group Inc.
Address: 315 Norwood Park South
Norwood, MA 02062
Phone: 781-255-1983
Fax: 781-255-1974
Email: ahanscom@Beta-inc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Keith middle School
Project Location: New Bedford, MA
Project #: 3261
Project Manager: Al Hanscom
ALPHA Quote #:

Turn-Around Time

☐ Standard 5 DAYS TO-13: 10 DAYS ☐ RUSH (only confirmed if pre-approved!)
Date Due: ~~1/29/07~~ 2/5/07 Time:

Report Information - Data Deliverables

☐ FAX
☑ ADEx
Criteria Checker: (Default based on Regulatory Criteria Indicated)
Other Formats:
☑ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:

2.75-Liter SUMMA Can

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Start Time	Collection End Time	Sample Matrix	Sampler's Initials	ID Can	ID - Flow Controller	TO-14A	TO-15	TO-15 SIM	APH	DISSOLVED GASES	FIXED GASES	TO-13A	TO-15 SULFIDES/MERCAPTANS	DISS GASES CO2 ONLY	TO-4/TO-10	Sample Comments (i.e. PID)
1035-11	Trip Blank	1-20-07	NA	NA	air	DGB	0150	—		✓									

Shaded Gray Areas For Lab Use Only

Container Type		S						

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
Paul Deliet	1/22/07 9:2	[illegible]	1/22/07 9:35
[illegible]	1/22/07 1240	[illegible]	1/22/07 1240

Form No: 01-03 (rev. 28-NOV-06)

Alpha Analytical Labs
Sample Delivery Group Form

Laboratory Job No. L0701033 SDG Reviewer T. Flaherty

Client: Beta Date/Time: 1/22/07 @ 1240

Preliminary Review

1. *Samples Delivered via:*
   - [x] Alpha Courier
   - [ ] Client
   - [ ] Express Mail
   - [ ] Other_____

2. *Chain of Custody:*
   - [x] Present
   - [ ] Absent

3. *Custody Seal:*
   - [x] Absent
   - [ ] Present/Intact
   - [ ] Present/Broken

3. *All Containers Accounted for:*
   - [x] Yes
   - [ ] No

4. *Samples received:*
   - [x] Intact
   - [ ] Extra: _____
   - [ ] Broken Sample IDs : _____
   - [ ] Leaking Sample IDs : _____

5. *Temperature Blank:* N/A Air Samples
   - [ ] Present Temperature (in Celsius): [ ] 2 - 6 Celsius degrees [ ] Other _____
   - [ ] Absent Is the ice (n blue ice) present? [ ] Yes [ ] No * Cooler Temp:_____

Secondary Review

1. Do the sample(s) labels and Chain of Custody agree?
   - [ ] Yes
   - [x] No * "Background 8" on COC → "Background A" on label; "Background 8 Dup" → "Background B" on label. Same date & time.
2. Are the samples in appropriate containers?
   - [x] Yes
   - [ ] No * _____
3. Are the samples properly preserved?
   - [x] Yes
   - [ ] No * Initial pH=_____ Preserved In-House w/_____
4. Are the samples within holding times?
   - [x] Yes
   - [ ] No * _____

* Contact client and attach the phone log

Form No.: 01-02 01/07/2003

BETA Group, Inc.
Engineers • Scientists • Planners

315 Norwood Park South
Norwood, MA 02062
(781) 255-1982, fax (781) 255-1974
www.BETA-Inc.com

March 2, 2007

Mr. Scott Alfonse, Director
Environmental Stewardship
City of New Bedford
133 William Street
New Bedford, MA 02740

Re: Keith Middle School
Results of January 19-20, 2007 Indoor VOC & PCB Air Sampling

Dear Scott:

BETA Group, Inc. (BETA) conducted an indoor air quality (IAQ) sampling event over a 24-hour period from January 19-20, 2007 at the above referenced location (the Site). The sampling consisted of the collection of high volume air samples using polyurethane foam (PUF) cartridges for analysis of polychlorinated biphenyls (PCBs) and the collection of air samples using six-liter SUMMA canisters for analysis of volatile organic compounds (VOCs). The sample collection procedures and analytical methods have been described in detail in BETA's Long Term Monitoring and Maintenance Implementation Plan (revision 4.0) dated October 20, 2006.

BETA concurrently performed air sampling of the Site sub-slab foundation venting system. A summary this sampling will be provided under separate cover.

Findings

BETA collected three indoor and one outdoor background sample (with duplicate) for PCB analysis. The locations of the sampling points are shown on the attached Figure 1. BETA submitted the samples to Alpha Woods Hole Laboratory (Alpha) for analysis. However, during laboratory analysis, residual PCBs from a previous customer's samples contaminated BETA's samples, rendering them unusable. Alpha is preparing a written description of the cause and response to this issue that we will forward to you next week.

BETA has since collected the February round of indoor air samples and the analysis of these samples will be completed by March 7, 2007. BETA will report these results to the City upon receipt.

BETA collected three indoor air samples and one outdoor background sample (with duplicate) for VOC analyses. These samples were collected at the same time and locations as the PCB samples, as shown on the attached Figure 1. These samples were analyzed by Alpha using unrelated laboratory equipment and were therefore unaffected by the contamination described above. The attached Table 1 provides a summary of the VOC results from these four locations, including detection of thirteen VOCs. The highest total VOC (TVOC) concentration was detected in the Hallway sample (119 $\mu g/M^3$). The background and background duplicate samples contained TVOCs at 3 and 4 $\mu g/M^3$, respectively. No VOCs were detected in the trip blank.

Conclusions

The detected VOCs are all typical constituents of construction materials, gasoline and/or vehicle

exhaust. One of the detected VOCs in indoor air (carbon disulfide) exceeded the Threshold Effects Exposure Limit (TEL) and Allowable Ambient Limit (AAL) published by the Massachusetts Department of Environmental Protection (DEP). Carbon disulfide is a constituent in many construction materials and it is commonly present within a new building. According the Occupational Safety and Health Administration, carbon disulfide is used in the manufacture of such materials as paints, enamels, paint removers, varnishes, varnish removers, putty, and rubber cement.

The TVOC concentrations in the Auditorium which increased from 81 $\mu g/M^3$ in November to 338 $\mu g/M^3$ in December decreased to 45 $\mu g/M^3$ in January. BETA will continue to evaluate the TVOC trending in the Auditorium in the February sampling round. The attached graph of Total VOC concentrations shows the steady decrease in total VOC concentrations in air in the remaining indoor locations between August and January.

Recommendations

BETA has completed six consecutive rounds of monthly indoor air sampling (August 2006 through January 2007) and a seventh event is scheduled for February 2007. These sampling rounds have confirmed that PCBs in indoor air have consistently been well below the EPA action level of 0.05 $\mu g/M^3$, and that total VOCs have continued to decrease over time. As requested, we will continue to perform monthly air sampling until otherwise directed by the City.

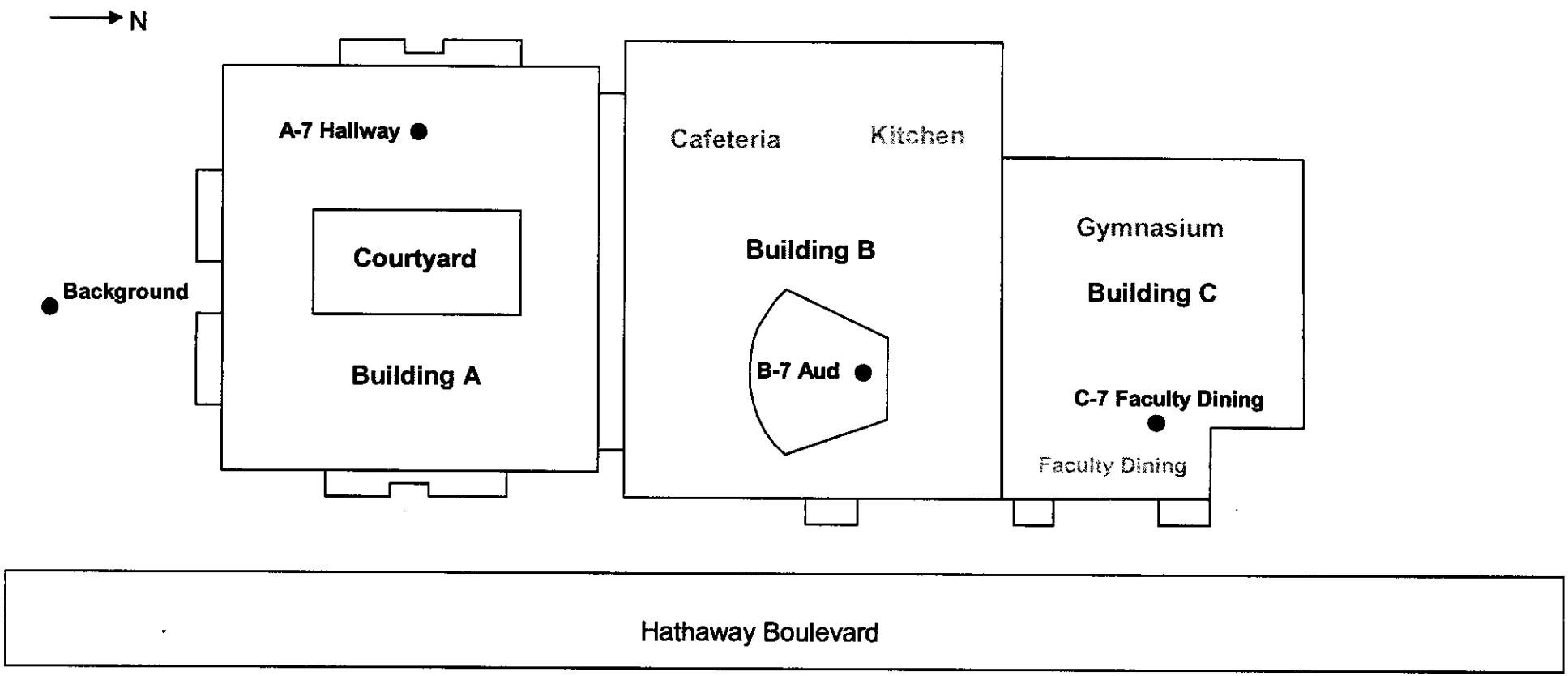
If you have any questions or comments, please call me at 781-255-1982.

Very truly yours,
BETA Group, Inc.

Alan D. Hanscom, P.E., LSP
Associate

cc: Kim Tisa, EPA Region I
Mayor Scott W. Lang, City of New Bedford
Lawrence Oliveira, Business Manager, NBPS
D. Billo, BETA

Figure 1
Keith Middle School
Indoor Air Sampling Locations



BETA Group, Inc.
Engineers • Scientists • Planners
315 Norwood Park South, Norwood, MA 02062 781.255.1982
email: beta@beta-inc.com

● = Indoor Air Sampling Point

Table 1
Keith Middle School
Indoor Air Quality
Volatile Organic Compounds (VOCs)
January 19-20, 2007

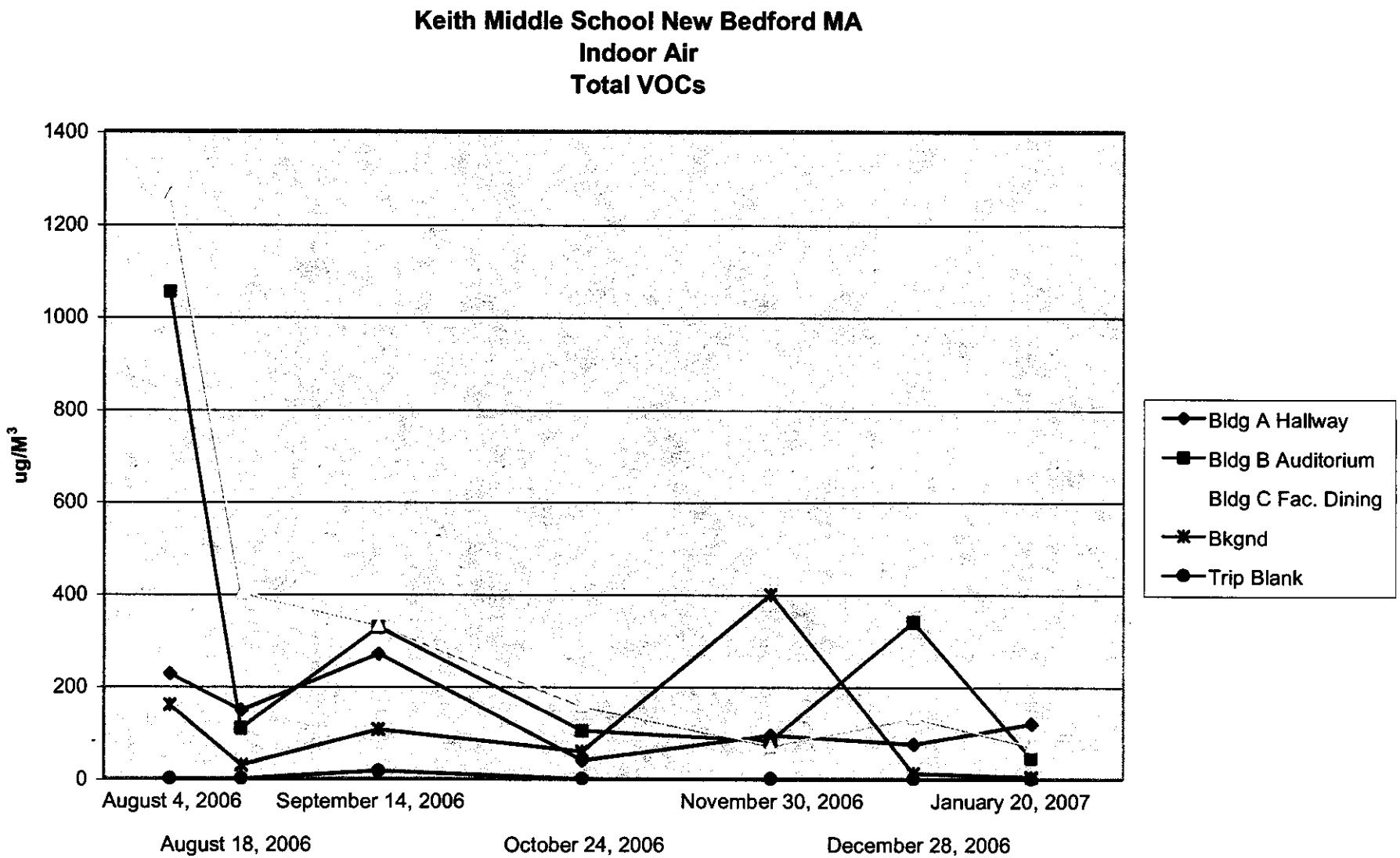
Sample Identification	Date Sampled	Date Analyzed	1,2,4-Trimethylbenzene	2-Butanone	4-Methyl-2-pentanone	Acetone	Carbon Disulfide	Ethyl Alcohol	n-Hexane	iso-Propyl Alcohol	Methylene Chloride	Propylene	p/m-Xylene	o-Xylene	Toluene	Total VOCs
			(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)	(ug/m³)
		TEL	-	-	-	160.54	0.10	-	-	-	-	-	11.80	11.80	80.00	-
		AAL	-	-	-	160.54	0.10	-	-	-	-	-	11.80	11.80	20.00	-
A-8A, HALLWAY	12/28 - 12/29	1/7/2007	2.68	6.55	ND	14.80	**3.53**	54.00	ND	30.90	ND	4.81	ND	ND	3.99	119
B-8A, AUD.	12/28 - 12/29	1/7/2007	ND	4.16	2.27	8.20	ND	11.80	ND	ND	4.14	ND	7.86	3.60	3.40	45
C-8A, FAC. DINING	12/28 - 12/29	1/7/2007	ND	ND	ND	9.46	ND	25.70	31.70	ND	ND	ND	ND	ND	4.20	71
BACKGROUND	12/28 - 12/29	1/7/2007	ND	ND	ND	ND	**3.25**	ND	ND	ND	ND	ND	ND	ND	ND	3
BACKGROUND DUPLICATE	12/28 - 12/29	1/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	4.44	ND	ND	ND	ND	4
TRIP BLANK	12/28 - 12/29	1/7/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0
Detected VOCs also found in these materials (see Notes Below):			2,5,6,7	1	18	1,9	13	12	19	11	17	24	2,3,5,6 10	2,3,5,6 10	5,9	

NOTES:

TEL = Threshold Effects Exposure Limit for Ambient Air (24-hour average)
AAL = Allowable Ambient Limit for Ambient Air (annual average)
(ug/m³) = micrograms per cubic meters
ND = not detected above method detection limit
- = No standard available
value Bold font indicates concentration exceeding TEL
value Gray shading indicates concentration exceeding AAL

Construction Materials

1. PVC cements, cleaners, primers (from Site MSDS)
2. Corothane: Zince Promer Moisture Cure (from Site MSDS)
3. Macropoxy 646: Fast Cure Epoxy Coating (from Site MSDS)
4. Industrial Enamel HS (from Site MSDS)
5. Kem Kromik: Universal Metal Primer (VOC Comp.) (from Site MSDS)
6. Wood Clasics: Interior Wood Oil Stain (golden oak) (from Site MSDS)
7. UltraCrete: Solvent Borne Texture Coating (from Site MSDS)
8. Promar 400: Interior Alkyd Semi-Gloss Enamel (from Site MSDS)
9. CCW-702, CCW-715: Quick Dry Primer (from Site MSDS)
10. Gasoline
11. Adhesive cleanup (from Site MSDS)
12. Waterborne Acrylic Dry Fall (Sherwin Williams) (from Site MSDS)
13. Used in the manufacture of paints, enamels, paint removers, varnishes, varnish removers, putty, and rubber cement (OSHA).
14. CCW-704 Mastic (Carlisle Coatings)(from Site MSDS)
15. Solvent and chemical intermediate. Solvent (as isomeric mixture) for perfumes, dyes, and lacquers.(Spectrum Laboratories Fact Sheet)
16. Use as a solvent to dissolve cellulose ethers, lacquers; used as an ingredient of surface coatings;Use as a paint and varnish remover'(OSHA).□
17. Paint and Varnish remover (CA Office of Environmental Health Hazard Assessment Fact Sheet)□
18. Denaturant for rubbing alcohol; solvent for paints and varnishes.(Spectrum Laboratories Fact Sheet)
19. Certain kinds of special glues used in the roofing and shoe and leather industries contain n-hexane. Several consumer products contain n-hexane, such as gasoline, quick-drying glues used in various hobbies, and rubber cement.(ATSDR Fact Sheet)
20. Found in consumer products, including some paint and spot removers, water repellents, brake and wood cleaners, glues (NY State DOH Fact Sheet)
21. Has been used as a paint stripper, adhesive solvent, as an ingredient in paints and varnishes (NY State DOH Fact Sheet)
22. Use as a carrier and penetrant solvent for adhesives (OSHA)
23. Most chloromethane in the environment is from natural sources, such as chemical reactions that occur in the oceans. □ It is also given off when materials like grass, wood, charcoal, and plastics are burned. Other sources of exposure are cigarette smoke, polystyrene insulation, aerosol propellants, and chlorinated swimming pools (ATSDR ToxFAQ).
24. Use of propylene in plastics (injection molding) and fibers (carpets) accounts for over one-third of U.S. consumption. It is also used in the production of synthetic rubber and as a propellant or component in aerosols. Occurs as a natural product from vegeation, combustion, and tobacco smoke. Has been detected in the atmosphere in rural areas at up to 4.8 ppb [8.25 ug/mg3]. California OEHHA 1995.


Keith Middle School New Bedford MA
Indoor Air
Total VOCs
1400
1200
1000
800
600
400
200
0
ug/M3
August 4, 2006
August 18, 2006
September 14, 2006
October 24, 2006
November 30, 2006
December 28, 2006
January 20, 2007
Bldg A Hallway
Bldg B Auditorium
Bldg C Fac. Dining
Bkgnd
Trip Blank

ALPHA
WOODS HOLE LABS

ANALYTICAL REPORT

Lab Number:	L0700819
Client:	Beta Engineering, Inc. 315 Norwood Park South Norwood, MA 02062
ATTN:	Al Hanscom
Project Name:	KEITH MIDDLE SCHOOL
Project Number:	03261
Report Date:	01/29/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

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

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

Alpha Sample ID	Client ID	Sample Location
L0700819-01	A-8A, HALL	NEW BEDFORD, MA
L0700819-02	A-8B, HALL	NEW BEDFORD, MA
L0700819-03	B-8A, AUD	NEW BEDFORD, MA
L0700819-04	B-8B, AUD	NEW BEDFORD, MA
L0700819-05	C-8A, FACULTY DINING	NEW BEDFORD, MA
L0700819-06	C-8B, FACULTY DINING	NEW BEDFORD, MA
L0700819-07	BACKGROUND-8	NEW BEDFORD, MA
L0700819-08	BACKGROUND-8-DUP	NEW BEDFORD, MA
L0700819-09	TRIP BLANK	NEW BEDFORD, MA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

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:

Title: Technical Director

Date: 01/29/07

AIR

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID: L0700819-01
Client ID: A-8A, HALL
Sample Location: NEW BEDFORD, MA
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 01/25/07 00:09
Analyst: HM

Date Collected: 01/19/07 15:26
Date Received: 01/22/07
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trichlorbenzene	ND	0.500	ND	3.71		1
1,2,4-Trimethylbenzene	0.546	0.500	2.68	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	ND	0.500	ND	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethybenzene	ND	0.500	ND	2.46		1
1,3-Butadiene	ND	0.500	ND	1.10		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dioxane	ND	1.00	ND	3.60		1
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		1
2-Butanone	2.22	0.500	6.55	1.47		1
2-Hexanone	ND	0.500	ND	2.05		1
3-Chloropropene	ND	0.500	ND	1.56		1
4-Ethyltoluene	ND	0.500	ND	2.46		1
Acetone	6.26	2.00	14.8	4.75		1
Benzene	ND	0.500	ND	1.60		1
Benzyl chloride	ND	0.500	ND	2.59		1
Bromodichloromethane	ND	0.500	ND	3.35		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID: L0700819-01
Client ID: A-8A, HALL
Sample Location: NEW BEDFORD, MA

Date Collected: 01/19/07 15:26
Date Received: 01/22/07
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Bromoform	ND	0.500	ND	5.16		1
Bromomethane	ND	0.500	ND	1.94		1
Carbon disulfide	1.14	0.500	3.53	1.56		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	ND	0.500	ND	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Cyclohexane	ND	0.500	ND	1.72		1
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethanol	28.7	2.00	54.0	3.76		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	ND	0.500	ND	2.17		1
Freon-113	ND	0.500	ND	3.83		1
Freon-114	ND	0.500	ND	3.49		1
Hexachlorobutadiene	ND	0.500	ND	5.33		1
Isopropanol	12.6	0.500	30.9	1.23		1
Methylene chloride	ND	1.00	ND	3.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Methyl tert butyl ether	ND	0.500	ND	1.80		1
p/m-Xylene	ND	1.00	ND	4.34		1
o-Xylene	ND	0.500	ND	2.17		1
n-Heptane	ND	0.500	ND	2.05		1
n-Hexane	ND	1.00	ND	3.52		1
Propylene	2.80	1.00	4.81	1.72		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0700819

Project Number: 03261 **Report Date:** 01/29/07

SAMPLE RESULTS

Lab ID: L0700819-01 Date Collected: 01/19/07 15:26

Client ID: A-8A, HALL Date Received: 01/22/07

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	ND	0.500	ND	3.39		1
Tetrahydrofuran	ND	0.500	ND	1.47		1
Toluene	1.06	0.500	3.99	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	ND	0.500	ND	2.68		1
Trichlorofluoromethane	ND	0.500	ND	2.81		1
Vinyl acetate	ND	0.500	ND	1.76		1
Vinyl bromide	ND	0.500	ND	2.18		1
Vinyl chloride	ND	0.500	ND	1.28		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID:	L0700819-03	Date Collected:	01/19/07 14:59
Client ID:	B-8A, AUD	Date Received:	01/22/07
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	01/25/07 00:44		
Analyst:	HM		

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trichlorbenzene	ND	0.500	ND	3.71		1
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	ND	0.500	ND	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethybenzene	ND	0.500	ND	2.46		1
1,3-Butadiene	ND	0.500	ND	1.10		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dioxane	ND	1.00	ND	3.60		1
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		1
2-Butanone	1.41	0.500	4.16	1.47		1
2-Hexanone	ND	0.500	ND	2.05		1
3-Chloropropene	ND	0.500	ND	1.56		1
4-Ethyltoluene	ND	0.500	ND	2.46		1
Acetone	3.46	2.00	8.20	4.75		1
Benzene	ND	0.500	ND	1.60		1
Benzyl chloride	ND	0.500	ND	2.59		1
Bromodichloromethane	ND	0.500	ND	3.35		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0700819
Project Number: 03261 **Report Date:** 01/29/07

SAMPLE RESULTS

Lab ID: L0700819-03 Date Collected: 01/19/07 14:59
Client ID: B-8A, AUD Date Received: 01/22/07
Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Bromoform	ND	0.500	ND	5.16		1
Bromomethane	ND	0.500	ND	1.94		1
Carbon disulfide	ND	0.500	ND	1.56		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	ND	0.500	ND	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Cyclohexane	ND	0.500	ND	1.72		1
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethanol	6.28	2.00	11.8	3.76		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	ND	0.500	ND	2.17		1
Freon-113	ND	0.500	ND	3.83		1
Freon-114	ND	0.500	ND	3.49		1
Hexachlorobutadiene	ND	0.500	ND	5.33		1
Isopropanol	ND	0.500	ND	1.23		1
Methylene chloride	1.19	1.00	4.14	3.47		1
4-Methyl-2-pentanone	0.555	0.500	2.27	2.05		1
Methyl tert butyl ether	ND	0.500	ND	1.80		1
p/m-Xylene	1.81	1.00	7.86	4.34		1
o-Xylene	0.829	0.500	3.60	2.17		1
n-Heptane	ND	0.500	ND	2.05		1
n-Hexane	ND	1.00	ND	3.52		1
Propylene	ND	1.00	ND	1.72		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0700819

Project Number: 03261 **Report Date:** 01/29/07

SAMPLE RESULTS

Lab ID: L0700819-03 Date Collected: 01/19/07 14:59

Client ID: B-8A, AUD Date Received: 01/22/07

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	ND	0.500	ND	3.39		1
Tetrahydrofuran	ND	0.500	ND	1.47		1
Toluene	0.902	0.500	3.40	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	ND	0.500	ND	2.68		1
Trichlorofluoromethane	ND	0.500	ND	2.81		1
Vinyl acetate	ND	0.500	ND	1.76		1
Vinyl bromide	ND	0.500	ND	2.18		1
Vinyl chloride	ND	0.500	ND	1.28		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0700819

Project Number: 03261 **Report Date:** 01/29/07

SAMPLE RESULTS

Lab ID:	L0700819-05	Date Collected:	01/19/07 14:48
Client ID:	C-8A, FACULTY DINING	Date Received:	01/22/07
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	01/25/07 01:18		
Analyst:	HM		

	ppbV		ug/m3			
Parameter	Results	RDL	Results	RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trichlorbenzene	ND	0.500	ND	3.71		1
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	ND	0.500	ND	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethybenzene	ND	0.500	ND	2.46		1
1,3-Butadiene	ND	0.500	ND	1.10		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dioxane	ND	1.00	ND	3.60		1
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		1
2-Butanone	ND	0.500	ND	1.47		1
2-Hexanone	ND	0.500	ND	2.05		1
3-Chloropropene	ND	0.500	ND	1.56		1
4-Ethyltoluene	ND	0.500	ND	2.46		1
Acetone	3.99	2.00	9.46	4.75		1
Benzene	ND	0.500	ND	1.60		1
Benzyl chloride	ND	0.500	ND	2.59		1
Bromodichloromethane	ND	0.500	ND	3.35		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID: L0700819-05
Client ID: C-8A, FACULTY DINING
Sample Location: NEW BEDFORD, MA

Date Collected: 01/19/07 14:48
Date Received: 01/22/07
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Bromoform	ND	0.500	ND	5.16		1
Bromomethane	ND	0.500	ND	1.94		1
Carbon disulfide	ND	0.500	ND	1.56		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	ND	0.500	ND	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Cyclohexane	ND	0.500	ND	1.72		1
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethanol	13.6	2.00	25.7	3.76		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	ND	0.500	ND	2.17		1
Freon-113	ND	0.500	ND	3.83		1
Freon-114	ND	0.500	ND	3.49		1
Hexachlorobutadiene	ND	0.500	ND	5.33		1
Isopropanol	ND	0.500	ND	1.23		1
Methylene chloride	ND	1.00	ND	3.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Methyl tert butyl ether	ND	0.500	ND	1.80		1
p/m-Xylene	ND	1.00	ND	4.34		1
o-Xylene	ND	0.500	ND	2.17		1
n-Heptane	ND	0.500	ND	2.05		1
n-Hexane	8.99	1.00	31.7	3.52		1
Propylene	ND	1.00	ND	1.72		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0700819

Project Number: 03261 **Report Date:** 01/29/07

SAMPLE RESULTS

Lab ID: L0700819-05 Date Collected: 01/19/07 14:48

Client ID: C-8A, FACULTY DINING Date Received: 01/22/07

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	ND	0.500	ND	3.39		1
Tetrahydrofuran	ND	0.500	ND	1.47		1
Toluene	1.12	0.500	4.20	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	ND	0.500	ND	2.68		1
Trichlorofluoromethane	ND	0.500	ND	2.81		1
Vinyl acetate	ND	0.500	ND	1.76		1
Vinyl bromide	ND	0.500	ND	2.18		1
Vinyl chloride	ND	0.500	ND	1.28		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID:	L0700819-07	Date Collected:	01/19/07 15:48
Client ID:	BACKGROUND-8	Date Received:	01/22/07
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	01/25/07 01:51		
Analyst:	HM		

	ppbV		ug/m3			
Parameter	Results	RDL	Results	RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trichlorbenzene	ND	0.500	ND	3.71		1
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	ND	0.500	ND	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethybenzene	ND	0.500	ND	2.46		1
1,3-Butadiene	ND	0.500	ND	1.10		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dioxane	ND	1.00	ND	3.60		1
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		1
2-Butanone	ND	0.500	ND	1.47		1
2-Hexanone	ND	0.500	ND	2.05		1
3-Chloropropene	ND	0.500	ND	1.56		1
4-Ethyltoluene	ND	0.500	ND	2.46		1
Acetone	ND	2.00	ND	4.75		1
Benzene	ND	0.500	ND	1.60		1
Benzyl chloride	ND	0.500	ND	2.59		1
Bromodichloromethane	ND	0.500	ND	3.35		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0700819
Project Number: 03261 **Report Date:** 01/29/07

SAMPLE RESULTS

Lab ID: L0700819-07 Date Collected: 01/19/07 15:48
Client ID: BACKGROUND-8 Date Received: 01/22/07
Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Bromoform	ND	0.500	ND	5.16		1
Bromomethane	ND	0.500	ND	1.94		1
Carbon disulfide	1.05	0.500	3.25	1.56		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	ND	0.500	ND	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Cyclohexane	ND	0.500	ND	1.72		1
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethanol	ND	2.00	ND	3.76		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	ND	0.500	ND	2.17		1
Freon-113	ND	0.500	ND	3.83		1
Freon-114	ND	0.500	ND	3.49		1
Hexachlorobutadiene	ND	0.500	ND	5.33		1
Isopropanol	ND	0.500	ND	1.23		1
Methylene chloride	ND	1.00	ND	3.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Methyl tert butyl ether	ND	0.500	ND	1.80		1
p/m-Xylene	ND	1.00	ND	4.34		1
o-Xylene	ND	0.500	ND	2.17		1
n-Heptane	ND	0.500	ND	2.05		1
n-Hexane	ND	1.00	ND	3.52		1
Propylene	ND	1.00	ND	1.72		1

ALPHA WOODS HOLE LABS

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID: L0700819-07
Client ID: BACKGROUND-8
Sample Location: NEW BEDFORD, MA

Date Collected: 01/19/07 15:48
Date Received: 01/22/07
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	ND	0.500	ND	3.39		1
Tetrahydrofuran	ND	0.500	ND	1.47		1
Toluene	ND	0.500	ND	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	ND	0.500	ND	2.68		1
Trichlorofluoromethane	ND	0.500	ND	2.81		1
Vinyl acetate	ND	0.500	ND	1.76		1
Vinyl bromide	ND	0.500	ND	2.18		1
Vinyl chloride	ND	0.500	ND	1.28		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0700819

Project Number: 03261 **Report Date:** 01/29/07

SAMPLE RESULTS

Lab ID:	L0700819-08	Date Collected:	01/19/07 16:10
Client ID:	BACKGROUND-8-DUP	Date Received:	01/22/07
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	01/25/07 08:41		
Analyst:	HM		

	ppbV		ug/m3			
Parameter	**Results**	**RDL**	**Results**	**RDL**	**Qualifier**	**Dilution Factor**
Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trichlorbenzene	ND	0.500	ND	3.71		1
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	ND	0.500	ND	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethybenzene	ND	0.500	ND	2.46		1
1,3-Butadiene	ND	0.500	ND	1.10		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dioxane	ND	1.00	ND	3.60		1
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		1
2-Butanone	ND	0.500	ND	1.47		1
2-Hexanone	ND	0.500	ND	2.05		1
3-Chloropropene	ND	0.500	ND	1.56		1
4-Ethyltoluene	ND	0.500	ND	2.46		1
Acetone	ND	2.00	ND	4.75		1
Benzene	ND	0.500	ND	1.60		1
Benzyl chloride	ND	0.500	ND	2.59		1
Bromodichloromethane	ND	0.500	ND	3.35		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID: L0700819-08
Client ID: BACKGROUND-8-DUP
Sample Location: NEW BEDFORD, MA

Date Collected: 01/19/07 16:10
Date Received: 01/22/07
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Bromoform	ND	0.500	ND	5.16		1
Bromomethane	ND	0.500	ND	1.94		1
Carbon disulfide	ND	0.500	ND	1.56		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	ND	0.500	ND	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Cyclohexane	ND	0.500	ND	1.72		1
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethanol	ND	2.00	ND	3.76		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	ND	0.500	ND	2.17		1
Freon-113	ND	0.500	ND	3.83		1
Freon-114	ND	0.500	ND	3.49		1
Hexachlorobutadiene	ND	0.500	ND	5.33		1
Isopropanol	ND	0.500	ND	1.23		1
Methylene chloride	1.28	1.00	4.44	3.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Methyl tert butyl ether	ND	0.500	ND	1.80		1
p/m-Xylene	ND	1.00	ND	4.34		1
o-Xylene	ND	0.500	ND	2.17		1
n-Heptane	ND	0.500	ND	2.05		1
n-Hexane	ND	1.00	ND	3.52		1
Propylene	ND	1.00	ND	1.72		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0700819

Project Number: 03261 **Report Date:** 01/29/07

SAMPLE RESULTS

Lab ID: L0700819-08 Date Collected: 01/19/07 16:10

Client ID: BACKGROUND-8-DUP Date Received: 01/22/07

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	ND	0.500	ND	3.39		1
Tetrahydrofuran	ND	0.500	ND	1.47		1
Toluene	ND	0.500	ND	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	ND	0.500	ND	2.68		1
Trichlorofluoromethane	ND	0.500	ND	2.81		1
Vinyl acetate	ND	0.500	ND	1.76		1
Vinyl bromide	ND	0.500	ND	2.18		1
Vinyl chloride	ND	0.500	ND	1.28		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

SAMPLE RESULTS

Lab ID:	L0700819-09	Date Collected:	01/19/07 00:00
Client ID:	TRIP BLANK	Date Received:	01/22/07
Sample Location:	NEW BEDFORD, MA	Field Prep:	Not Specified
Matrix:	Air		
Anaytical Method:	48,TO-15		
Analytical Date:	01/25/07 09:14		
Analyst:	HM		

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trichlorbenzene	ND	0.500	ND	3.71		1
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	ND	0.500	ND	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethybenzene	ND	0.500	ND	2.46		1
1,3-Butadiene	ND	0.500	ND	1.10		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dioxane	ND	1.00	ND	3.60		1
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		1
2-Butanone	ND	0.500	ND	1.47		1
2-Hexanone	ND	0.500	ND	2.05		1
3-Chloropropene	ND	0.500	ND	1.56		1
4-Ethyltoluene	ND	0.500	ND	2.46		1
Acetone	ND	2.00	ND	4.75		1
Benzene	ND	0.500	ND	1.60		1
Benzyl chloride	ND	0.500	ND	2.59		1
Bromodichloromethane	ND	0.500	ND	3.35		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0700819
Project Number: 03261 **Report Date:** 01/29/07

SAMPLE RESULTS

Lab ID: L0700819-09 Date Collected: 01/19/07 00:00
Client ID: TRIP BLANK Date Received: 01/22/07
Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Bromoform	ND	0.500	ND	5.16		1
Bromomethane	ND	0.500	ND	1.94		1
Carbon disulfide	ND	0.500	ND	1.56		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	ND	0.500	ND	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Cyclohexane	ND	0.500	ND	1.72		1
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethanol	ND	2.00	ND	3.76		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	ND	0.500	ND	2.17		1
Freon-113	ND	0.500	ND	3.83		1
Freon-114	ND	0.500	ND	3.49		1
Hexachlorobutadiene	ND	0.500	ND	5.33		1
Isopropanol	ND	0.500	ND	1.23		1
Methylene chloride	ND	1.00	ND	3.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Methyl tert butyl ether	ND	0.500	ND	1.80		1
p/m-Xylene	ND	1.00	ND	4.34		1
o-Xylene	ND	0.500	ND	2.17		1
n-Heptane	ND	0.500	ND	2.05		1
n-Hexane	ND	1.00	ND	3.52		1
Propylene	ND	1.00	ND	1.72		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0700819

Project Number: 03261 **Report Date:** 01/29/07

SAMPLE RESULTS

Lab ID: L0700819-09 Date Collected: 01/19/07 00:00

Client ID: TRIP BLANK Date Received: 01/22/07

Sample Location: NEW BEDFORD, MA Field Prep: Not Specified

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air						
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	ND	0.500	ND	3.39		1
Tetrahydrofuran	ND	0.500	ND	1.47		1
Toluene	ND	0.500	ND	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	ND	0.500	ND	2.68		1
Trichlorofluoromethane	ND	0.500	ND	2.81		1
Vinyl acetate	ND	0.500	ND	1.76		1
Vinyl bromide	ND	0.500	ND	2.18		1
Vinyl chloride	ND	0.500	ND	1.28		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0700819

Project Number: 03261 **Report Date:** 01/29/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/24/07 10:53

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air for sample(s): 01,03,05,07-09 Batch: WG268573-2						
1,1,1-Trichloroethane	ND	0.500	ND	2.72		1
1,1,2,2-Tetrachloroethane	ND	0.500	ND	3.43		1
1,1,2-Trichloroethane	ND	0.500	ND	2.72		1
1,1-Dichloroethane	ND	0.500	ND	2.02		1
1,1-Dichloroethene	ND	0.500	ND	1.98		1
1,2,4-Trichlorbenzene	ND	0.500	ND	3.71		1
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46		1
1,2-Dibromoethane	ND	0.500	ND	3.84		1
1,2-Dichlorobenzene	ND	0.500	ND	3.00		1
1,2-Dichloroethane	ND	0.500	ND	2.02		1
1,2-Dichloropropane	ND	0.500	ND	2.31		1
1,3,5-Trimethybenzene	ND	0.500	ND	2.46		1
1,3-Butadiene	ND	0.500	ND	1.10		1
1,3-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dichlorobenzene	ND	0.500	ND	3.00		1
1,4-Dioxane	ND	1.00	ND	3.60		1
2,2,4-Trimethylpentane	ND	0.500	ND	2.33		1
2-Butanone	ND	0.500	ND	1.47		1
2-Hexanone	ND	0.500	ND	2.05		1
3-Chloropropene	ND	0.500	ND	1.56		1
4-Ethyltoluene	ND	0.500	ND	2.46		1
Acetone	ND	2.00	ND	4.75		1
Benzene	ND	0.500	ND	1.60		1
Benzyl chloride	ND	0.500	ND	2.59		1
Bromodichloromethane	ND	0.500	ND	3.35		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/24/07 10:53

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air for sample(s): 01,03,05,07-09 Batch: WG268573-2						
Bromoform	ND	0.500	ND	5.16		1
Bromomethane	ND	0.500	ND	1.94		1
Carbon disulfide	ND	0.500	ND	1.56		1
Carbon tetrachloride	ND	0.500	ND	3.14		1
Chlorobenzene	ND	0.500	ND	2.30		1
Chloroethane	ND	0.500	ND	1.32		1
Chloroform	ND	0.500	ND	2.44		1
Chloromethane	ND	0.500	ND	1.03		1
cis-1,2-Dichloroethene	ND	0.500	ND	1.98		1
cis-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Cyclohexane	ND	0.500	ND	1.72		1
Dibromochloromethane	ND	0.500	ND	4.26		1
Dichlorodifluoromethane	ND	1.00	ND	4.94		1
Ethanol	ND	2.00	ND	3.76		1
Ethyl Acetate	ND	0.500	ND	1.80		1
Ethylbenzene	ND	0.500	ND	2.17		1
Freon-113	ND	0.500	ND	3.83		1
Freon-114	ND	0.500	ND	3.49		1
Hexachlorobutadiene	ND	0.500	ND	5.33		1
Isopropanol	ND	0.500	ND	1.23		1
Methylene chloride	ND	1.00	ND	3.47		1
4-Methyl-2-pentanone	ND	0.500	ND	2.05		1
Methyl tert butyl ether	ND	0.500	ND	1.80		1
p/m-Xylene	ND	1.00	ND	4.34		1
o-Xylene	ND	0.500	ND	2.17		1

ALPHA

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0700819

Project Number: 03261 **Report Date:** 01/29/07

Method Blank Analysis
Batch Quality Control

Analytical Method: 48,TO-15
Analytical Date: 01/24/07 10:53

Parameter	ppbV Results	ppbV RDL	ug/m3 Results	ug/m3 RDL	Qualifier	Dilution Factor
Volatile Organic Compounds in Air for sample(s): 01,03,05,07-09 Batch: WG268573-2						
n-Heptane	ND	0.500	ND	2.05		1
n-Hexane	ND	1.00	ND	3.52		1
Propylene	ND	1.00	ND	1.72		1
Styrene	ND	0.500	ND	2.13		1
Tetrachloroethene	ND	0.500	ND	3.39		1
Tetrahydrofuran	ND	0.500	ND	1.47		1
Toluene	ND	0.500	ND	1.88		1
trans-1,2-Dichloroethene	ND	0.500	ND	1.98		1
trans-1,3-Dichloropropene	ND	0.500	ND	2.27		1
Trichloroethene	ND	0.500	ND	2.68		1
Trichlorofluoromethane	ND	0.500	ND	2.81		1
Vinyl acetate	ND	0.500	ND	1.76		1
Vinyl bromide	ND	0.500	ND	2.18		1
Vinyl chloride	ND	0.500	ND	1.28		1

ALPHA

Lab Control Sample Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 01,03,05,07-09 Batch: WG268573-1					
1,1,1-Trichloroethane	87	-	70-130	-	
1,1,2,2-Tetrachloroethane	108	-	70-130	-	
1,1,2-Trichloroethane	100	-	70-130	-	
1,1-Dichloroethane	90	-	70-130	-	
1,1-Dichloroethene	91	-	70-130	-	
1,2,4-Trichlorobenzene	98	-	70-130	-	
1,2,4-Trimethylbenzene	114	-	70-130	-	
1,2-Dibromoethane	113	-	70-130	-	
1,2-Dichlorobenzene	104	-	70-130	-	
1,2-Dichloroethane	88	-	70-130	-	
1,2-Dichloropropane	99	-	70-130	-	
1,3,5-Trimethylbenzene	101	-	70-130	-	
1,3-Butadiene	89	-	70-130	-	
1,3-Dichlorobenzene	107	-	70-130	-	
1,4-Dichlorobenzene	109	-	70-130	-	
1,4-Dioxane	114	-	70-130	-	
2,2,4-Trimethylpentane	95	-	70-130	-	
2-Butanone	94	-	70-130	-	
2-Hexanone	100	-	70-130	-	
3-Chloropropene	100	-	70-130	-	
4-Ethyltoluene	114	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 01,03,05,07-09 Batch: WG268573-1					
Acetone	82	-	70-130	-	
Benzene	108	-	70-130	-	
Benzyl chloride	123	-	70-130	-	
Bromodichloromethane	92	-	70-130	-	
Bromoform	107	-	70-130	-	
Bromomethane	100	-	70-130	-	
Carbon disulfide	94	-	70-130	-	
Carbon tetrachloride	90	-	70-130	-	
Chlorobenzene	112	-	70-130	-	
Chloroethane	108	-	70-130	-	
Chloroform	89	-	70-130	-	
Chloromethane	79	-	70-130	-	
cis-1,2-Dichloroethene	97	-	70-130	-	
cis-1,3-Dichloropropene	102	-	70-130	-	
Cyclohexane	97	-	70-130	-	
Dibromochloromethane	105	-	70-130	-	
Dichlorodifluoromethane	82	-	70-130	-	
Ethyl Alcohol	109	-	70-130	-	
Ethyl Acetate	90	-	70-130	-	
Ethylbenzene	113	-	70-130	-	
1,1,2-Trichloro-1,2,2-Trifluoroethane	90	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261
Lab Number: L0700819
Report Date: 01/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 01,03,05,07-09 Batch: WG268573-1					
1,2-Dichloro-1,1,2,2-tetrafluoroethane	83	-	70-130	-	
Hexachlorobutadiene	92	-	70-130	-	
iso-Propyl Alcohol	106	-	70-130	-	
Methylene chloride	87	-	70-130	-	
4-Methyl-2-pentanone	99	-	70-130	-	
Methyl tert butyl ether	98	-	70-130	-	
p/m-Xylene	114	-	70-130	-	
o-Xylene	122	-	70-130	-	
n-Heptane	94	-	70-130	-	
n-Hexane	93	-	70-130	-	
Propylene	99	-	70-130	-	
Styrene	128	-	70-130	-	
Tetrachloroethene	106	-	70-130	-	
Tetrahydrofuran	97	-	70-130	-	
Toluene	103	-	70-130	-	
trans-1,2-Dichloroethene	98	-	70-130	-	
trans-1,3-Dichloropropene	102	-	70-130	-	
Trichloroethene	104	-	70-130	-	
Trichlorofluoromethane	82	-	70-130	-	
Vinyl acetate	95	-	70-130	-	
Vinyl bromide	95	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 01,03,05,07-09 Batch: WG268573-1					
Vinyl chloride	87	-	70-130	-	
Naphthalene	111	-	70-130	-	
Propane	90	-	70-130	-	
Acrylonitrile	90	-	70-130	-	
Acrolein	95	-	70-130	-	
1,1,1,2-Tetrachloroethane	101	-	70-130	-	
Isopropylbenzene	101	-	70-130	-	
1,2,3-Trichloropropane	100	-	70-130	-	
Acetonitrile	95	-	70-130	-	
Bromobenzene	101	-	70-130	-	
Chlorodifluoromethane	84	-	70-130	-	
Dichlorofluoromethane	84	-	70-130	-	
Dibromomethane	99	-	70-130	-	
Pentane	89	-	70-130	-	
Octane	97	-	70-130	-	
Tertiary-Amyl Methyl Ether	100	-	70-130	-	
o-Chlorotoluene	106	-	70-130	-	
p-Chlorotoluene	100	-	70-130	-	
2,2-Dichloropropane	89	-	70-130	-	
1,1-Dichloropropene	95	-	70-130	-	
Isopropyl Ether	97	-	70-130	-	

Lab Control Sample Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 01,03,05,07-09 Batch: WG268573-1					
Ethyl-Tert-Butyl-Ether	98	-	70-130	-	
1,2,3-Trichlorobenzene	111	-	70-130	-	
Ethyl ether	104	-	70-130	-	
n-Butylbenzene	107	-	70-130	-	
sec-Butylbenzene	107	-	70-130	-	
tert-Butylbenzene	111	-	70-130	-	
1,2-Dibromo-3-chloropropane	110	-	70-130	-	
p-Isopropyltoluene	111	-	70-130	-	
n-Propylbenzene	108	-	70-130	-	
1,3-Dichloropropane	101	-	70-130	-	
Methanol	106	-	70-130	-	
Butane	81	-	70-130	-	
Nonane (C9)	101	-	70-130	-	
Decane (C10)	104	-	70-130	-	
Undecane	110	-	70-130	-	
Dodecane (C12)	119	-	70-130	-	

Lab Duplicate Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 01,03,05,07-09 QC Batch ID: WG268573-3 QC Sample: L0700819-01 Client ID: A-8A, HALL					
1,1,1-Trichloroethane	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethane	ND	ND	ppbV	NC	25
1,1-Dichloroethene	ND	ND	ppbV	NC	25
1,2,4-Trichlorbenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	0.546	0.538	ppbV	1	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichloroethane	ND	ND	ppbV	NC	25
1,2-Dichloropropane	ND	ND	ppbV	NC	25
1,3,5-Trimethybenzene	ND	ND	ppbV	NC	25
1,3-Butadiene	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dioxane	ND	ND	ppbV	NC	25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC	25
2-Butanone	2.22	2.17	ppbV	2	25
2-Hexanone	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 01,03,05,07-09 QC Batch ID: WG268573-3 QC Sample: L0700819-01 Client ID: A-8A, HALL					
3-Chloropropene	ND	ND	ppbV	NC	25
4-Ethyltoluene	ND	ND	ppbV	NC	25
Acetone	6.26	6.05	ppbV	3	25
Benzene	ND	ND	ppbV	NC	25
Benzyl chloride	ND	ND	ppbV	NC	25
Bromodichloromethane	ND	ND	ppbV	NC	25
Bromoform	ND	ND	ppbV	NC	25
Bromomethane	ND	ND	ppbV	NC	25
Carbon disulfide	1.14	1.05	ppbV	8	25
Carbon tetrachloride	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Chloroethane	ND	ND	ppbV	NC	25
Chloroform	ND	ND	ppbV	NC	25
Chloromethane	ND	ND	ppbV	NC	25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Cyclohexane	ND	ND	ppbV	NC	25
Dibromochloromethane	ND	ND	ppbV	NC	25
Dichlorodifluoromethane	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 01,03,05,07-09 QC Batch ID: WG268573-3 QC Sample: L0700819-01 Client ID: A-8A, HALL					
Ethanol	28.7	28.3	ppbV	1	25
Ethyl Acetate	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
Freon-113	ND	ND	ppbV	NC	25
Freon-114	ND	ND	ppbV	NC	25
Hexachlorobutadiene	ND	ND	ppbV	NC	25
Isopropanol	12.6	11.7	ppbV	7	25
Methylene chloride	ND	ND	ppbV	NC	25
4-Methyl-2-pentanone	ND	ND	ppbV	NC	25
Methyl tert butyl ether	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
n-Heptane	ND	ND	ppbV	NC	25
n-Hexane	ND	ND	ppbV	NC	25
Propylene	2.80	3.16	ppbV	12	25
Styrene	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
Tetrahydrofuran	ND	ND	ppbV	NC	25
Toluene	1.06	1.04	ppbV	2	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organic Compounds in Air Associated sample(s): 01,03,05,07-09 QC Batch ID: WG268573-3 QC Sample: L0700819-01 Client ID: A-8A, HALL					
trans-1,2-Dichloroethene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
Trichloroethene	ND	ND	ppbV	NC	25
Trichlorofluoromethane	ND	ND	ppbV	NC	25
Vinyl acetate	ND	ND	ppbV	NC	25
Vinyl bromide	ND	ND	ppbV	NC	25
Vinyl chloride	ND	ND	ppbV	NC	25

Project Name: KEITH MIDDLE SCHOOL
Project Number: 03261

Lab Number: L0700819
Report Date: 01/29/07

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
NA	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0700819-01A	Canister - 6 Liter	NA	NA	NA	Y	Absent	TO-15
L0700819-02A	Canister - 6 Liter	NA	NA	NA	Y	Absent	HOLD
L0700819-03A	Canister - 6 Liter	NA	NA	NA	Y	Absent	TO-15
L0700819-04A	Canister - 6 Liter	NA	NA	NA	Y	Absent	HOLD
L0700819-05A	Canister - 6 Liter	NA	NA	NA	Y	Absent	TO-15
L0700819-06A	Canister - 6 Liter	NA	NA	NA	Y	Absent	HOLD
L0700819-07A	Canister - 6 Liter	NA	NA	NA	Y	Absent	TO-15
L0700819-08A	Canister - 6 Liter	NA	NA	NA	Y	Absent	TO-15
L0700819-09A	Canister - 6 Liter	NA	NA	NA	Y	Absent	TO-15

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0700819
Project Number: 03261 **Report Date:** 01/29/07

GLOSSARY

Acronyms

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.
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.
ND - Not detected at the reported detection limit for the sample.
RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL 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.

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

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

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.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Report Format: Not Specified

Project Name: KEITH MIDDLE SCHOOL **Lab Number:** L0700819
Project Number: 03261 **Report Date:** 01/29/07

REFERENCES

48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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.

AIR ANALYSIS

PAGE 2 OF 2

Date Rec'd in Lab: 1/22/07

ALPHA Job #: L0700819

ALPHA WOODS HOLE LABS — CHAIN OF CUSTODY

Eight Walkup Drive Westborough, MA 01581
TEL: 508-898-9220 FAX: 508-898-9193

Client Information

Client: BETA Group - Norwood
Address: 315 Norwood Park South, Norwood, MA
Phone: 781-255-1982
Fax: 781-255-1974
Email: ahansen@beta-inc.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Keith Middle School
Project Location: New Bedford, MA
Project #: 03 264
Project Manager: Al Hansen
ALPHA Quote #:

Turn-Around Time

☑ Standard (5 DAYS, TO-13 10 DAYS) ☐ RUSH (only confirmed if pre-approved)
Date Due: 2/1/05 Time:

Report Information - Data Deliverables

☐ FAX
☑ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☑ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #: 03 264

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

ANALYSIS

Other Project Specific Requirements/Comments: Summa end times on 1/20/07

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Sample Matrix	Sampler's Initials	Can	Flow Controller	~~TO-14A~~ PCB	TO-15	TO-15 SIM	APH	DISSOLVED GASES	FIXED GASES	TO-13A	TO-15 SULFIDES/MERCAPTANS	DISS GASES CO2 ONLY	TO-4/TO-10	Sample Comments (i.e. PID)
	Field Blank-8	1/20/07				TMD	[illegible]	—	X										HP-34
	Field Blank 8, [illegible]	1/20/07					—	—	X										
-0819-01	A-8A, Hall	1/19/07	3:26	3:26	A		C125	7249317	X										unreject # HP-23
-02	A-8B, Hall Final		3:26	3:26			A226	7321164	X										Hold
-03	B-8A, Aud		2:59	2:59			2120	7324824	X										
-04	B-8B, Aud Final		2:59	2:59			N1A	7369957	X										Hold
-05	C-8A, Faculty Dining		2:48	2:48			6863	7316961	X										
-06	C-8B, Faculty Dining Final		2:48	2:48			4461	7262305	X										Hold
-07	Background-8		3:48	3:48			4454	7329101	X										
-08	Background-8-Dup.		4:10	4:10			A205	1321911	X										

Shaded Gray Areas For Lab Use Only

Container Type: V (6)

Relinquished By:	Date/Time	Received By:	Date/Time:
[illegible]	1/20/07	Paul Gilbert	1/22/07 9:30
Paul Gilbert	1/22/07	J Brand	1/22/07 1240
J Brand	1/22/07 1240		

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

(rev. 28-NOV-06)

01290712:17

01290712:17

AIR ANALYSIS

PAGE 3 OF 3

ALPHA WOODS HOLE LABS — CHAIN OF CUSTODY

Eight Walkup Drive Westborough, MA 01581
TEL: 508-898-9220 FAX: 508-898-9193

Date Rec'd in Lab: 1/22/07

ALPHA Job #: L0700819

Client Information

Client: BETA Group - Norwood
Address: 315 Norwood Park South, Norwood, MA 02062
Phone: 781-255-1982
Fax: 781-255-1974
Email: ahanscom@beta-inc.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Keith Middle School
Project Location: New Bedford, MA
Project #: 03261
Project Manager: Al Hanscom
ALPHA Quote #:

Turn-Around Time

☑ Standard (5 DAYS TO-13, 10 DAYS) ☐ RUSH (only confirmed if pre-approved)
Date Due: 2/1/05 Time:

Report Information - Data Deliverables

☐ FAX
☑ ADEx
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
☑ EMAIL (standard pdf report)
☐ Additional Deliverables:
Report to: (if different than Project Manager)

Billing Information

☐ Same as Client info PO #: 03261

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

Other Project Specific Requirements/Comments:

L0701047 TP

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Start Time	End Time	Sample Matrix	Sampler's Initials	ID Can	ID - Flow Controller	TO-14A	TO-15	TO-15 SIM	APH	DISSOLVED GASES	FIXED GASES	TO-13A	TO-15 SULFIDES/MERCAPTANS	DISS GASES CO2 ONLY	TO-4/TO-10	Sample Comments (i.e. PID)
08A-09	Trip Blank	1/19/07				TMD	C105	-		✓									

Shaded Gray Areas For Lab Use Only

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

Relinquished By:	Date/Time	Received By:	Date/Time:
[illegible]	1/22/07	[illegible]	1/22/07 9:45
Paul Gilbert	1/22/07 1240	[illegible]	1/22/07 1240

Form No. CI-03 (rev. 28-NOV-06)

Alpha Analytical Labs
Sample Delivery Group Form

Laboratory Job No. L0700819 SDG Reviewer TH/RB

Client: Beta Date/Time: 1/22/07 1240

Preliminary Review

1. *Samples Delivered via:*
   - [x] Alpha Courier
   - [ ] Client
   - [ ] Express Mail
   - [ ] Other_____
2. *Chain of Custody:*
   - [x] Present
   - [ ] Absent
3. *Custody Seal:*
   - [x] Absent
   - [ ] Present/Intact
   - [ ] Present/Broken

3. *All Containers Accounted for:*
   - [x] Yes
   - [ ] No

4. *Samples received:*
   - [ ] Intact
   - [ ] Extra: _____
   - [ ] Broken Sample IDs : _____
   - [ ] Leaking Sample IDs : _____

5. *Temperature Blank:*
   - [ ] Present Temperature (in Celsius): [ ] 2 - 6 Celsius degrees [ ] Other
   - [x] Absent Is the ice (n blue ice) present? [ ] Yes [x] No * N/A - AIR Cooler Temp:_____

Secondary Review

1. Do the sample(s) labels and Chain of Custody agree?
   - [ ] Yes [x] No * Can (C105) is labeled "Field Blank" but is listed as "Trip Blank" on coc.
2. Are the samples in appropriate containers?
   - [x] Yes [ ] No * _____
3. Are the samples properly preserved?
   - [x] Yes [ ] No * Initial pH–_____ Preserved In-House w/_____
4. Are the samples within holding times?
   - [x] Yes [ ] No * _____

* Contact client and attach the phone log

Form No.: 01-02 01/07/2003