

August 13, 2014

Jason Pringle  
AMC Environmental, LLC  
PO Box 423  
Stratford, CT 06615

Project Location: Osborn School  
Client Job Number:  
Project Number: [none]  
Laboratory Work Order Number: 14H0425

Enclosed are results of analyses for samples received by the laboratory on August 11, 2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Lisa Worthington", is displayed on a light gray rectangular background.

Lisa A. Worthington  
Project Manager

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

AMC Environmental, LLC  
PO Box 423  
Stratford, CT 06615  
ATTN: Jason Pringle

REPORT DATE: 8/13/2014

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 14H0425

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Osborn School

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
A0811-01	14H0425-01	Air	Main Hallway	TO-10A/EPA 680 Modified	
A0811-02	14H0425-02	Air	Blank	TO-10A/EPA 680 Modified	

#### CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 08-13-14: The report has been revised to include the sample air volumes.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light gray rectangular background.

Lisa A. Worthington  
Project Manager

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# ANALYTICAL RESULTS

Project Location: Osborn School

Date Received: 8/11/2014

Field Sample #: A0811-01

Sample ID: 14H0425-01

Sample Matrix: Air

Sampled: 8/11/2014 00:00

Sample Description/Location: Main Hallway

Sub Description/Location:

Work Order: 14H0425

Flow Controller ID:

Sample Type:

Air Volume L: 1800

## TO-10A/EPA 680 Modified

Analyte	Total µg		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Monochlorobiphenyls	ND	0.0010		ND	0.00056	1	8/12/14 14:45	CJM	
Dichlorobiphenyls	ND	0.0010		ND	0.00056	1	8/12/14 14:45	CJM	
Trichlorobiphenyls	ND	0.0010		ND	0.00056	1	8/12/14 14:45	CJM	
Tetrachlorobiphenyls	0.020	0.0020		0.011	0.0011	1	8/12/14 14:45	CJM	
Pentachlorobiphenyls	0.049	0.0020		0.027	0.0011	1	8/12/14 14:45	CJM	
Hexachlorobiphenyls	0.010	0.0020		0.0056	0.0011	1	8/12/14 14:45	CJM	
Heptachlorobiphenyls	ND	0.0030		ND	0.0017	1	8/12/14 14:45	CJM	
Octachlorobiphenyls	ND	0.0030		ND	0.0017	1	8/12/14 14:45	CJM	
Nonachlorobiphenyls	ND	0.0050		ND	0.0028	1	8/12/14 14:45	CJM	
Decachlorobiphenyl	ND	0.0050		ND	0.0028	1	8/12/14 14:45	CJM	
Total Polychlorinated biphenyls	0.079			0.044		1	8/12/14 14:45	CJM	

Surrogates	% Recovery	% REC Limits	
Tetrachloro-m-xylene	75.7	50-125	8/12/14 14:45

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# ANALYTICAL RESULTS

Project Location: Osborn School

Date Received: 8/11/2014

Field Sample #: A0811-02

Sample ID: 14H0425-02

Sample Matrix: Air

Sampled: 8/11/2014 00:00

Sample Description/Location: Blank

Sub Description/Location:

Work Order: 14H0425

Flow Controller ID:

Sample Type:

Air Volume L: 1800

## TO-10A/EPA 680 Modified

Analyte	Total µg		Flag/Qual	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
Monochlorobiphenyls	ND	0.0010		ND	0.00056	1	8/12/14 15:15	CJM	
Dichlorobiphenyls	ND	0.0010		ND	0.00056	1	8/12/14 15:15	CJM	
Trichlorobiphenyls	ND	0.0010		ND	0.00056	1	8/12/14 15:15	CJM	
Tetrachlorobiphenyls	ND	0.0020		ND	0.0011	1	8/12/14 15:15	CJM	
Pentachlorobiphenyls	ND	0.0020		ND	0.0011	1	8/12/14 15:15	CJM	
Hexachlorobiphenyls	ND	0.0020		ND	0.0011	1	8/12/14 15:15	CJM	
Heptachlorobiphenyls	ND	0.0030		ND	0.0017	1	8/12/14 15:15	CJM	
Octachlorobiphenyls	ND	0.0030		ND	0.0017	1	8/12/14 15:15	CJM	
Nonachlorobiphenyls	ND	0.0050		ND	0.0028	1	8/12/14 15:15	CJM	
Decachlorobiphenyl	ND	0.0050		ND	0.0028	1	8/12/14 15:15	CJM	
Total Polychlorinated biphenyls	0.0			0		1	8/12/14 15:15	CJM	

Surrogates	% Recovery	% REC Limits	
Tetrachloro-m-xylene	72.0	50-125	8/12/14 15:15

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**Sample Extraction Data**

**Prep Method: SW-846 3540C-TO-10A/EPA 680 Modified**

Lab Number [Field ID]	Batch	Initial [Cartridge	Final [mL]	Date
14H0425-01 [A0811-01]	B102285	1.00	1.00	08/11/14
14H0425-02 [A0811-02]	B102285	1.00	1.00	08/11/14

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### QUALITY CONTROL

#### PCB Homologues by GC/MS with Soxhlet Extraction - Quality Control

Analyte	Total µg		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Limit	Flag/Qual
	Results	RL	Results	RL	Total µg	Result	%REC	Limits				
Batch B102285 - SW-846 3540C												
Blank (B102285-BLK1)					Prepared: 08/11/14 Analyzed: 08/12/14							
Monochlorobiphenyls	ND	0.0010										
Dichlorobiphenyls	ND	0.0010										
Trichlorobiphenyls	ND	0.0010										
Tetrachlorobiphenyls	ND	0.0020										
Pentachlorobiphenyls	ND	0.0020										
Hexachlorobiphenyls	ND	0.0020										
Heptachlorobiphenyls	ND	0.0030										
Octachlorobiphenyls	ND	0.0030										
Nonachlorobiphenyls	ND	0.0050										
Decachlorobiphenyl	ND	0.0050										
Total Polychlorinated biphenyls	0.0											
Surrogate: Tetrachloro-m-xylene	0.136				0.200		67.8	50-125				
LCS (B102285-BS1)					Prepared: 08/11/14 Analyzed: 08/12/14							
Monochlorobiphenyls	0.15	0.0010			0.200		76.8	40-140				
Dichlorobiphenyls	0.14	0.0010			0.200		71.0	40-140				
Trichlorobiphenyls	0.14	0.0010			0.200		67.9	40-140				
Tetrachlorobiphenyls	0.28	0.0020			0.400		70.2	40-140				
Pentachlorobiphenyls	0.29	0.0020			0.400		72.0	40-140				
Hexachlorobiphenyls	0.28	0.0020			0.400		70.2	40-140				
Heptachlorobiphenyls	0.43	0.0030			0.600		71.6	40-140				
Octachlorobiphenyls	0.43	0.0030			0.600		72.0	40-140				
Nonachlorobiphenyls	0.85	0.0050			1.00		84.6	40-140				
Decachlorobiphenyl	0.76	0.0050			1.00		76.4	40-140				
Surrogate: Tetrachloro-m-xylene	0.166				0.200		82.9	50-125				
LCS Dup (B102285-BSD1)					Prepared: 08/11/14 Analyzed: 08/12/14							
Monochlorobiphenyls	0.17	0.0010			0.200		86.7	40-140	12.1		50	
Dichlorobiphenyls	0.16	0.0010			0.200		80.5	40-140	12.5		50	
Trichlorobiphenyls	0.15	0.0010			0.200		77.1	40-140	12.7		50	
Tetrachlorobiphenyls	0.32	0.0020			0.400		80.0	40-140	13.0		50	
Pentachlorobiphenyls	0.33	0.0020			0.400		81.4	40-140	12.2		50	
Hexachlorobiphenyls	0.32	0.0020			0.400		80.4	40-140	13.5		50	
Heptachlorobiphenyls	0.49	0.0030			0.600		82.1	40-140	13.7		50	
Octachlorobiphenyls	0.48	0.0030			0.600		80.7	40-140	11.4		50	
Nonachlorobiphenyls	0.93	0.0050			1.00		93.5	40-140	10.0		50	
Decachlorobiphenyl	0.84	0.0050			1.00		83.6	40-140	8.96		50	
Surrogate: Tetrachloro-m-xylene	0.179				0.200		89.4	50-125				



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#### FLAG/QUALIFIER SUMMARY

- \* QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

## Certifications

AIHA

Total Polychlorinated biphenyls

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2015
CT	Connecticut Department of Public Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2015
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2015
RI	Rhode Island Department of Health	LAO00112	12/30/2014
NC	North Carolina Div. of Water Quality	652	12/31/2014
NJ	New Jersey DEP	MA007 NELAP	06/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2015
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2015
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2014
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2014





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**AIR Only Receipt Checklist**

39 Spruce St.  
East Longmeadow, MA.  
01028  
P: 413-525-2332  
F: 413-525-6405

CLIENT NAME: AMC RECEIVED BY: CEC DATE: 8/11/14

1) Was the chain(s) of custody relinquished and signed?

☒ Yes ☐ No

2) Does the chain agree with the samples?

☒ Yes ☐ No

If not, explain:

3) Are all the samples in good condition?

☒ Yes ☐ No

If not, explain:

4) Are there any samples "On Hold"?

☒ Yes ☒ No

Stored where:

5) Are there any RUSH or SHORT HOLDING TIME samples?

☒ Yes ☐ No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Location where samples are stored:

19

Permission to subcontract samples? Yes No  
(Walk-in clients only) if not already approved  
Client Signature: \_\_\_\_\_

7) Number of cans Individually Certified or Batch Certified?

### Containers received at Con-Test

	# of Containers	Types (Size, Duration)
Summa Cans (TO-14/TO-15/APH)		
Tedlar Bags		
TO-17 Tubes		
Regulators		
Restrictors		
Hg/Hopcalite Tube (NIOSH 6009)		
(TO-4A/ TO-10A/TO-13) PUFs	<u>2</u>	<u>Low vol</u>
PCB Florisil Tubes (NIOSH 5503)		
Air cassette		
PM 2.5/PM 10		
TO-11A Cartridges		
Other		

Unused Summas/PUF Media:

Unused Regulators:

1) Was all media (used & unused) checked into the WASP?

2) Were all returned summa cans, Restrictors & Regulators and PUF's documented as returned in the Air Lab Inbound/Outbound Excel Spreadsheet?

Laboratory Comments:

080714 -02 /-03

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Login Sample Receipt Checklist(Rejection Criteria Listing - Using Sample Acceptance Policy)Any False statement will be brought to the attention of Client

Question	Answer (True/False)		Comment
	T/F/NA		
1) The cooler's custody seal, if present, is intact.	T		
2) The cooler or samples do not appear to have been compromised or tampered with.	T		
3) Samples were received on ice.	T		
4) Cooler Temperature is acceptable.	T		
5) Cooler Temperature is recorded.	T		
6) COC is filled out in ink and legible.	T		
7) COC is filled out with all pertinent information.	T		
8) Field Sampler's name present on COC.	T		
9) There are no discrepancies between the sample IDs on the container and the COC.	T		
10) Samples are received within Holding Time.	T		
11) Sample containers have legible labels.	T		
12) Containers are not broken or leaking.	T		
13) Air Cassettes are not broken/open.	NA		
14) Sample collection date/times are provided.	T		
15) Appropriate sample containers are used.	T		
16) Proper collection media used.	T		
17) No headspace sample bottles are completely filled.	NA		
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T		
19) Trip blanks provided if applicable.	NA		
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA		
21) Samples do not require splitting or compositing.	T		

Doc #278 Rev. 4 January 2014

Who notified of False statements?

Log-In Technician Initials:

Date/Time:

Date/Time:

CEC

8/11/11 0830