



July 29, 2015

Mr. Bill Siegrist
William Patterson University
300 Pompton Road
Wayne, New Jersey

**RE: Subsurface Investigation Report – Environmental
Soccer Field Soil Sample Analysis Report
CHA Project No. 30059**

Dear Mr. Siegrist,

CHA has prepared this letter to summarize our finding pertaining to subsurface environmental conditions in the area of proposed construction which is in the vicinity of the existing soccer field on the William Patterson University campus. A site plan depicting all pertinent site features and all completed soil boring locations is included as Figure 1. Photo-documentation for the referenced activities can be found in Attachment 1.

All environmental activities were performed in conjunction with the geophysical study performed by CHA's Geotechnical department. Where appropriate, CHA Geotechnical department documents such as figures and boring logs have been included in this report for reference.

Background

William Patterson University (WPU) is planning on constructing a new synthetic turf field, bleachers, and restroom addition in the vicinity of an existing soccer field, located on the south side of the campus and south of the Recreation Center building. In order to investigate current subsurface soil conditions and identify and characterize areas of fill material within the proposed construction areas, five soil borings (B-1 through B-4, B-6, and B-7) were completed on June 17 and 18, 2015. A planned sixth boring (B-5) could not be completed due to the presence of several underground utilities within the anticipated drilling area. Soil boring locations were determined based upon proposed areas of construction and geotechnical needs and laid out by CHA's Survey department on June 3, 2015. The soil boring locations are shown on Figure 1.

Subsurface Investigation

Prior to drilling activities, WPU's Utility and Facility team marked out and labeled any underground utilities present within the work zone locations. During the markout activities, utilities including electrical, natural gas, and water were found within the vicinity of the proposed boring location, B-5.

It should be noted that boring B-5 was the intended boring location underneath the proposed restroom. As such, and under the direction of WPU personnel, B-5 was not completed.

On June 17 and 18, 2015, CHA's licensed drilling subcontractor, Craig Test Boring (CTB) of Mays Landing, New Jersey, advanced five (5) soil borings (B-1 through B-4, B-6, and B-7) to terminal depths ranging from five (5) to 22 feet below ground surface (bgs). Each soil boring was advanced through the surface material to depth via a track mounted CME drill rig and mud rotary drilling techniques. Continuous soil samples were collected from each boring location using 1.5-inch diameter by two-foot long split spoons during drilling. The locations of the installed soil borings are shown on Figure 1 and the boring logs can be found in Attachment 2.

Soil samples were visually classified and screened for visual, olfactory, and photo-ionic evidence of contamination by CHA personnel. To screen for volatile organic vapors, a representative portion of each split spoon was placed into a glass soil jar. After allowing soil vapors to gather in the headspace of the jar, the soil was screened for the presence of total volatile organic vapors utilizing a photo-ionization detector (PID), equipped with a 10.6 eV lamp and calibrated to 100 parts per million (ppm) of isobutylene.

Based on the soil screening, no visual or olfactory evidence of contamination was observed. PID readings ranged from 0.0 to 2.3 ppm. The high reading of 2.3 ppm was found at boring B-2 at a depth of zero (0) to two (2) feet bgs. It should be noted that this PID reading may have been due to the presence of boring mark-out paint in the soil sample.

One (1) soil sample was collected from each boring location for laboratory analysis. Sample depth was focused on the shallowest depth below within any identified fill material but also below any identified topsoil layer. When fill was not encountered, samples were biased to depths just below ground surface as these intervals would have the greatest potential for contamination from any historical surface spills or pesticide and fertilizer applications. It should be noted that due to low recovery rates in all collected split spoons, at least two sample intervals were composited in order to meet volume requirements for the necessary laboratory analyses. The collected soil samples and their justifications are outlined below by boring location they were collected from:

- B-1 – A soil sample was collected at a depth of 0.5 to four (4) feet bgs, the depths of the encountered fill material;
- B-2 – A soil sample was collected at a depth of two (2) to six (6) feet bgs, the depths of the encountered fill material;
- B-3 - A soil sample was collected at a depth of two (2) to six (6) feet bgs, the depths of soil just below ground surface;
- B-4 - A soil sample was collected at a depth of zero (0) to four (4) feet bgs, the depths of soil just below ground surface;
- B-6 - A soil sample was collected at a depth of zero (0) to four (4) feet bgs, the depths of soil just below ground surface;



- B-7 - A soil sample was collected at a depth of 0.5 to six (6) feet bgs, the depths of the encountered fill material.

The six (6) soil samples were placed into laboratory-supplied glassware, labeled, stored on ice, and shipped under proper chain-of-custody documentation to TestAmerica Laboratories, Inc. of Buffalo, NY (TestAmerica), a New Jersey Department of Environmental Protection (NJDEP) certified laboratory. All collected soil samples were submitted for the following analyses:

- Target compound list (TCL) volatile organic compounds (VOCs) by Environmental Protection Agency (EPA) Method 8260;
- TCL semi-volatile organic compounds (SVOCs) by EPA Method 8270;
- Resource Conservation and Recovery Act (RCRA) eight (8) metals by EPA Methods 6010 and 7470;
- Polychlorinated Biphenyls (PCBs) by EPA Methods 8082 and 608;
- Pesticides by EPA Methods 8081 and 608.

Excess soil cuttings from drilling activities were disposed of in the surrounding wooded areas, as directed by WPU personnel. Following drilling activities, each borehole was backfilled with gravel and patched at ground surface with top soil.

Soil Analytical Results

Soil analytical results were compared to the NJDEP Residential Direct Contact Soil Cleanup Criteria (SCC) established in NJ Administrative Code (AC) 7:26D – Remediation Standards. A summary of detected compounds for all collected soil samples is presented in Table 2 and the laboratory analytical report is provided in Attachment 3.

Analytical results indicate that VOCs, pesticides, and RCRA metals in all collected soil samples were either not detected (ND) at the laboratory minimum detection limit (MDL) or were detected at concentrations well below their respective NJDEP Residential Direct Contact SCCs. Additionally, no SVOCs or PCBs were detected in any soil sample collected for analysis.

Conclusions

Based on the laboratory results, no VOCs, pesticides, or RCRA metals were detected above their respective NJDEP Residential Direct Contact SCCs in any of the soil samples collected for analysis. No SVOCs or PCBs were detected in any of the soil samples collected and all detected VOCs, pesticides, and RCRA metals were well beneath their respective SCCs. Therefore the fill materials encountered during the investigation do not indicate the presence of any environmental impacts. As such, CHA recommends that no further action be taken, nor is any necessary, in regards to special management of fill materials within the subject area during the planned project.



We appreciate the opportunity to provide William Patterson University with continued assistance on this project. If you have any questions, please do not hesitate to contact us at (518) 453-4500.

Sincerely,

A handwritten signature in black ink, appearing to read 'Justin King', with a large, stylized loop at the end.

Justin King
Scientist III

A handwritten signature in black ink, appearing to read 'Seth Fowler', with a large, stylized loop at the end.

Seth Fowler
Associate

Figure

Figure 1 – Site Map

Tables

Table 1 – Summary of Detected Compounds from Boring Soil Samples

Attachments

Attachment 1 – Photo-Documentation

Attachment 2 – Boring Logs

Attachment 3 – Laboratory Analytical Reports

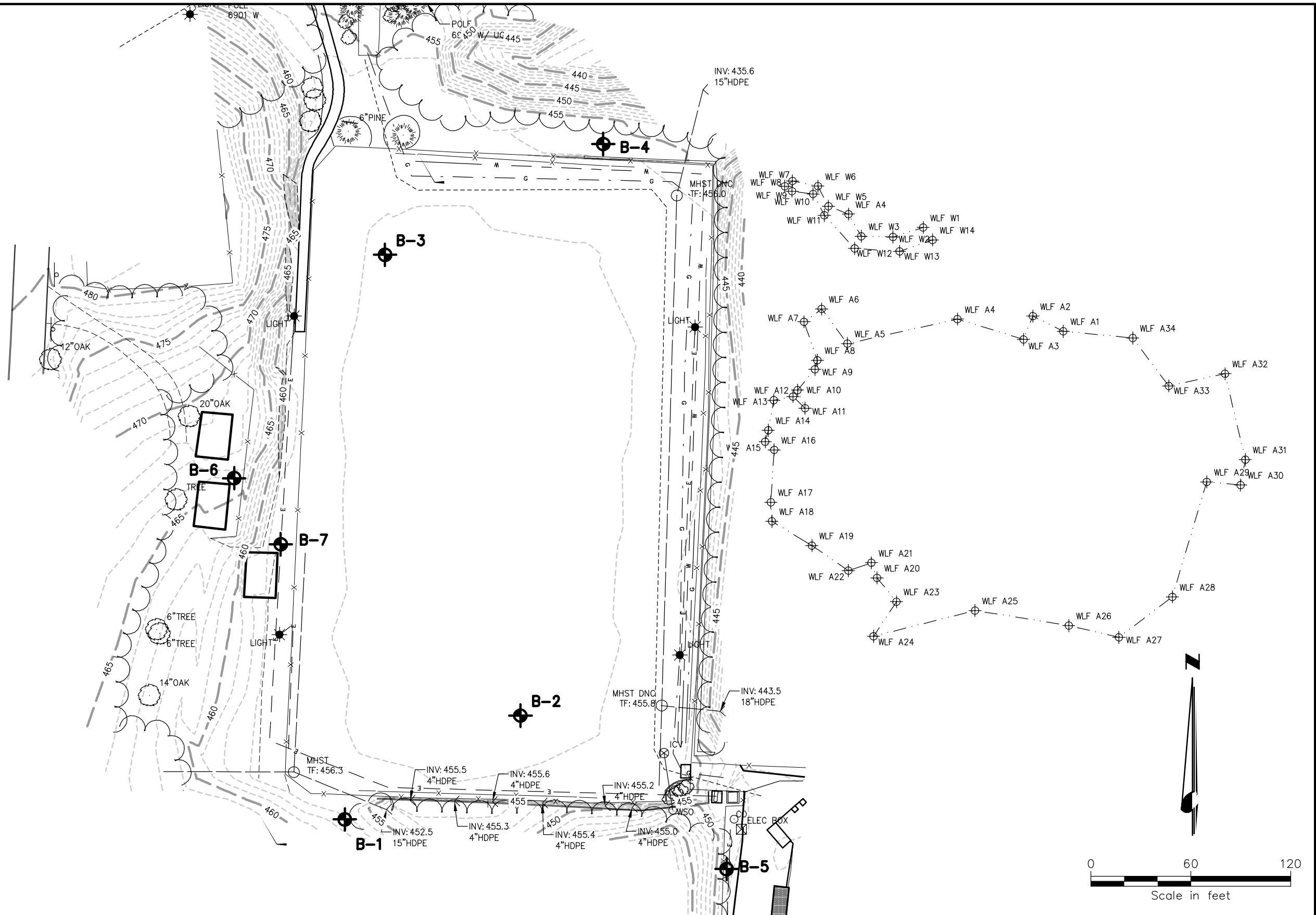
V:\Projects\ANY\K4\30059\Reports\Environmental Sample Report\WPU_Soil Investigation Report



FIGURE

LEGEND

 **B-1** APPROXIMATE BORING LOCATION



Drawing Copyright © 2015

CHA

6 Campus Drive
Parsippany, NJ 07054-4406
973.538.2120 • www.chacompanies.com

BORING LOCATION PLAN
WILLIAM PATERSON UNIVERSITY
ATHLETIC FIELD STUDY
WAYNE, NEW JERSEY

PROJECT NO.
30059

DATE: 07/2015

FIGURE 2

TABLES

Table 1
Summary of Detected Compounds in Boring Soil Samples

William Patterson University
300 Pompton Road
Wayne, NY

Sample Identification		B-1	B-2	B-3	B-4	B-6	B-7
Approximate Sample Depth (feet bgs)		0.5 - 4	2 - 6	2 - 6	0 - 4	0 - 4	0.5 - 6
Percent Moisture		13	12	13	7.5	18	7.7
Sample Collection Date		6/17/2015	6/17/2015	6/18/2015	6/18/2015	6/17/2015	6/17/2015
Compound	SCC* (mg/kg)	Results (mg/kg)					
VOCs							
2-Butanone (MEK)	3,100	ND	0.0058	0.0032	0.0039	0.0044	ND
Acetone	70,000	ND	0.051	0.02	0.02	0.025	0.002
Pesticides							
4,4'-DDD	3	ND	0.0004	ND	ND	0.0011	ND
4,4'-DDE	2	ND	0.0006	0.00063	0.0052	0.004	ND
4,4'-DDT	2	ND	0.00044	ND	ND	0.002	ND
alpha-BHC	0.1	ND	0.00039	0.00053	ND	ND	0.00037
delta-BHC	0.4	ND	ND	ND	ND	0.00069	ND
Metals							
Arsenic	19†	2.8	2.8	2.6	5.0	3.3	1.7
Barium	16,000	42.5	34.5	37.3	35.3	33.8	14.7
Cadmium	78	0.073	0.07	0.061	0.063	0.12	0.071
Chromium	NS	12.3	15.6	11.3	14.5	11.6	9.6
Lead	400	6.3	9.7	6.3	10.3	17.7	3.5
Mercury	23	0.017	0.031	ND	0.025	0.044	ND

Notes:

feet bgs - feet below ground surface

mg/kg - milligrams per kilogram

ND - Not Detected at the method detection limit

NS - No Standard

* - Residential Direct Contact Soil Cleanup Criteria (RDCSCC), N.J.A.C 7:26D Remediation Standards-Appendix 1, Table 1A, dated May 7, 2012

† - The direct contact standard for arsenic is based on natural background

VOCs - Volatile Organic Compounds

SCC - Soil Cleanup Criteria

ATTACHMENT 1



Photo 1 – Looking north on the west side of the soccer field. View of track mounted CME drill rig set up on B-6.



Photo 2 – Looking north towards the Recreation Center and in the bleacher stands. View of B-7 (moved from original location due north of the bleachers).



SITE PHOTOGRAPHS
 Subsurface Investigation –June 2015
 William Patterson University, Wayne, NJ
 CHA Project No. 30059



Photo 3 – View of located subsurface utilities located within the vicinity of the proposed B-5.



Photo 4 – Borehole restoration in the soccer field.



SITE PHOTOGRAPHS
 Subsurface Investigation –June 2015
 William Patterson University, Wayne, NJ
 CHA Project No. 30059

ATTACHMENT 2



PROJECT NUMBER: 30059.1001.32000

William Paterson University Athletic Field Study

SUBSURFACE LOG

HOLE NUMBER B-1

Page 1 of 1

LOCATION: Wayne, New Jersey				DRILL FLUID: Water @ 4'			DRILLING METHOD: 4" FJC			
CLIENT: William Paterson University of New Jersey				WATER LEVEL OBSERVATIONS	DATE	TIME	READING TYPE	WATER DEPTH (ft)	CASING BOTTOM (ft)	HOLE BOTTOM (ft)
CONTRACTOR: Craig Test Boring					6-17-15	12:15 PM	During Drilling	None	4	5
DRILLER: R. Warden		INSPECTOR: J. King								
START DATE and TIME: 6/17/2015 11:45:00 AM										
FINISH DATE and TIME: 6/17/2015 12:15:00 PM										
SURFACE ELEV: 456.00 (ft; Estimated)		CHECKED BY:								

SAMP./CORE NUMBER	SAMP. ADV. (ft)	LEN. CORE (ft)	RECOVERY (ft)	Blows Per 6" on Split Spoon Sampler	"N" Value or RQD%	SAMPLE	DEPTH (Feet)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	ELEVATION (Feet)	Remarks on Character of Drilling, Water Return, etc.	WATER LEVELS AND/OR WELL DATA
S-1	2	1.5		4-7-4-8	11		2		TOPSOIL SILT , Some f. Sand, Some f.c. Gravel, brown, trace silt, medium compact, moist (FILL)		Groundwater observations made during drilling may not represent static conditions. Photoionization Detector Reading (PID) = 0.0 PPM for all samples/	
S-2	2	0.5		15-15-21-19	36		4		Similar Soil (FILL) c. GRAVEL , (Cobble fragment)	454	PID = 0.0 PPM Cobble present during sampling from 2 feet to 4 feet.	
S-3	0.7	0.6		10-100/2"	R				f.m.c. SAND , Some f.c. Gravel, trace silt, brown, very compact, moist (SP)	452	PID = 0.0 PPM Split spoon refusal at 4.66 feet.	
									End of Boring at 5 ft		Roller-bit refusal at 5 feet.	
							6			450		
							8			448		
							10			446		
							12			444		

I:\CHA-LLP.COM\PROJECTS\ANYK4130059\DATA\BORING_LOGS\30059.1001.32000 BORING LOGS.GPJ

**William Paterson University Athletic Field Study****SUBSURFACE LOG****HOLE NUMBER B-2**

PROJECT NUMBER: 30059.1001.32000

Page 1 of 1

LOCATION: Wayne, New Jersey			DRILL FLUID: Water @ 4'		DRILLING METHOD: 4" FJC				
CLIENT: William Paterson University of New Jersey			WATER LEVEL OBSERVATIONS	DATE	TIME	READING TYPE	WATER DEPTH (ft)	CASING BOTTOM (ft)	HOLE BOTTOM (ft)
CONTRACTOR: Craig Test Boring				6-17-15	11:00 AM	During Drilling	None	10	12
DRILLER: R. Warden		INSPECTOR: J. King							
START DATE and TIME: 6/17/2015 10:00:00 AM									
FINISH DATE and TIME: 6/17/2015 11:00:00 AM									
SURFACE ELEV: 457.40 (ft; Estimated)		CHECKED BY:							

SAMP./CORE NUMBER	SAMP. ADV. (ft) LEN. CORE (ft)	RECOVERY (ft)	Blows Per 6" on Split Spoon Sampler	"N" Value or RQD%	SAMPLE	DEPTH (Feet)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	ELEVATION (Feet)	Remarks on Character of Drilling, Water Return, etc.	WATER LEVELS AND/OR WELL DATA
S-1	2	1	3-9-14-11	23		2		TOPSOIL f. SAND , And Silt, brown, medium compact, moist (FILL)	456	Photoionization Detector Readings (PID) = 2.3 PPM	
S-2	2	1.2	65-123-15-9	R		4		Becomes very compact (FILL)	454	PID = 0.0 PPM	
S-3	2	0.8	11-10-11-9	21		6		f.m. SAND (SP)	452	PID = 0.0 PPM	
S-4	2	0.7	6-4-4-3	8		8		SILT , Some f. Sand, Some f.c. Gravel, brown, medium compact, moist (SM)	450	Groundwater observations made during drilling may not represent static conditions. PID = 0.0 PPM	
S-5	2	1.3	11-10-35-32	45		10		SILT , trace f. sand, dark gray, loose, moist (ML)	448	PID = 0.0 PPM	
S-6	2	1	51-32-32-30	64		12		f. SAND , And Silt, Some f.c. Gravel, brown, compact, moist (SM)	446	PID = 0.0 PPM	
								Become very compact (SM)			
								End of Boring at 12 ft	444		

I:\CHA-LLP.COM\PROJECTS\ANYK4\30059\DATA\BORING_LOGS\30059.1001.32000 BORING LOGS.GPJ



William Paterson University Athletic Field Study

SUBSURFACE LOG

HOLE NUMBER B-3

PROJECT NUMBER: 30059.1001.32000

Page 1 of 1

LOCATION: Wayne, New Jersey			DRILL FLUID: Water			DRILLING METHOD: 4" FJC			
CLIENT: William Paterson University of New Jersey			WATER LEVEL OBSERVATIONS	DATE	TIME	READING TYPE	WATER DEPTH (ft)	CASING BOTTOM (ft)	HOLE BOTTOM (ft)
CONTRACTOR: Craig Test Boring				6-18-15	12:00 PM	During Drilling	3.9	0	4
DRILLER: R. Warden		INSPECTOR: J. King							
START DATE and TIME: 6/18/2015 10:50:00 AM									
FINISH DATE and TIME: 6/18/2015 12:00:00 PM									
SURFACE ELEV: 457.20 (ft; Estimated)		CHECKED BY:							

SAMP./CORE NUMBER	SAMP. ADV. (ft)	LEN. CORE (ft)	RECOVERY (ft)	Blows Per 6" on Split Spoon Sampler	"N" Value or RQD%	SAMPLE	DEPTH (Feet)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	ELEVATION (Feet)	Remarks on Character of Drilling, Water Return, etc.	WATER LEVELS AND/OR WELL DATA
S-1	2	1.2	2-12-15-14	27			2		TOPSOIL	456	Photoionization Detector Reading (PID) = 0.2 PPM	
									SILT , And f. sand, some f. gravel, brown/gray, medium compact, wet tip (SM)			
									Becomes wet (SM)		PID = 0.4 PPM	
S-2	2	0.8	17-11-19-20	30			4		Similar Soil , with cobble fragments (SM)	454	Groundwater observations made during drilling may not represent static conditions. PID = 0.3 PPM	
S-3	2	0.7	30-36-41-57	77			6		Similar Soil (SM)	452	PID = 0.0 PPM	
S-4	1.5	0.7	48-50-46-100/5.5"	96			8		End of Boring at 8 ft	450	Split spoon refusal at 7.9 feet. Roller-bit refusal at 8 feet.	
										448		
										446		
										444		



PROJECT NUMBER: 30059.1001.32000

William Paterson University Athletic Field Study

SUBSURFACE LOG

HOLE NUMBER B-4

Page 1 of 2

LOCATION: Wayne, New Jersey				DRILL FLUID: Water @ 4'			DRILLING METHOD: 4" FJC			
CLIENT: William Paterson University of New Jersey				WATER LEVEL OBSERVATIONS	DATE	TIME	READING TYPE	WATER DEPTH (ft)	CASING BOTTOM (ft)	HOLE BOTTOM (ft)
CONTRACTOR: Craig Test Boring					6-18-15	8:40 AM	During Drilling	None	20	22
DRILLER: R. Warden		INSPECTOR: J. King								
START DATE and TIME: 6/18/2015 8:40:00 AM										
FINISH DATE and TIME: 6/18/2015 10:20:00 AM										
SURFACE ELEV: 455.50 (ft; Estimated)		CHECKED BY:								

SAMP./CORE NUMBER	SAMP. ADV. (ft)	LEN. CORE (ft)	RECOVERY (ft)	Blows Per 6" on Split Spoon Sampler	"N" Value or RQD%	SAMPLE	DEPTH (Feet)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	ELEVATION (Feet)	Remarks on Character of Drilling, Water Return, etc.	WATER LEVELS AND/OR WELL DATA
S-1	2	1		6-7-23-26	30		2		<u>SILT</u> , Some f. Sand, Some f.c. Gravel, dark brown, medium compact, moist (SM)	454	Photoionization Detector Reading (PID) = 0.0 PPM	
									<u>Similar Soil (SM)</u>			
S-2	2	0.7		31-14-16-10	30		4		<u>SILT</u> , Some f. Sand, trace f. gravel, gray, medium compact, moist (ML)	452	PID = 0.4	
									No Recovery			
S-3	2	0		8-3-3-2	6		6		<u>SILT</u> , trace f. sand, gray, loose, moist (ML)	450	PID = 0.4 PPM	
S-4	2	0.6		4-4-4-3	8		8		<u>SILT</u> , Some f. Gravel, trace f. sand, dark gray, medium compact, moist (ML)	448	PID = 0.0 PPM	
S-5	2	0.7		2-6-6-2	12		10		No Recovery	446	PID = 0.2 PPM	
S-6	2	0		3-2-3-4	5		12			444		
										442		

\\CHA-LLP.COM\PROJECTS\ANYK4\30059\DATA\BORING_LOGS\30059.1001.32000 BORING LOGS.GPJ



William Paterson University Athletic Field Study

SUBSURFACE LOG

HOLE NUMBER B-4

PROJECT NUMBER: 30059.1001.32000

Page 2 of 2

SAMP./CORE NUMBER	SAMP. ADV. (ft)	LEN. CORE (ft)	RECOVERY (ft)	Blows Per 6" on Split Spoon Sampler	"N" Value or RQD%	SAMPLE	DEPTH (Feet)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	ELEVATION (Feet)	Remarks on Character of Drilling, Water Return, etc.	WATER LEVELS AND/OR WELL DATA
S-7	2	0.4		11-4-6-5	10		16		<u>SILT</u> , Some f. sand, brown, loose, moist (ML)	440	PID = 0.2 PPM	
							18			438		
							20		<u>SILT</u> , Some f. sand, Some f. Gravel, medium compact, moist (SM)	436	PID = 0.0 PPM	
S-8	2	0.8		6-7-7-15	14		22		End of Boring at 22 ft	434	Groundwater observations made during drilling may not represent static conditions.	
							24			432		
							26			430		
							28			428		
							30			426		



PROJECT NUMBER: 30059.1001.32000

William Paterson University Athletic Field Study

SUBSURFACE LOG

HOLE NUMBER B-6

Page 1 of 1

LOCATION: Wayne, New Jersey			DRILL FLUID: Water			DRILLING METHOD: 4" FJC				
CLIENT: William Paterson University of New Jersey			WATER LEVEL OBSERVATIONS	DATE	TIME	READING TYPE	WATER DEPTH (ft)	CASING BOTTOM (ft)	HOLE BOTTOM (ft)	
CONTRACTOR: Craig Test Boring				6-17-15	3:10 PM	During Drilling	None	8	10	
DRILLER: R. Warden		INSPECTOR: J. King								
START DATE and TIME: 6/17/2015 2:20:00 PM										
FINISH DATE and TIME: 6/17/2015 3:10:00 PM										
SURFACE ELEV: 466.00 (ft; Estimated)		CHECKED BY:								

SAMP./CORE NUMBER	SAMP. ADV. (ft)	LEN. CORE (ft)	RECOVERY (ft)	Blows Per 6" on Split Spoon Sampler	"N" Value or RQD%	SAMPLE	DEPTH (Feet)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	ELEVATION (Feet)	Remarks on Character of Drilling, Water Return, etc.	WATER LEVELS AND/OR WELL DATA
S-1	2	1		2-2-2-4	4				<u>f. SAND</u> , Some Silt, brown/gray, very loose, moist (SM)		Groundwater observations made during drilling may not represent static conditions.	
							2		<u>SILT</u> , trace f. sand, dark gray, loose, moist (ML)			
									Becomes medium stiff (ML)	464	Photoionization Detector Reading (PID) = 0.0 PPM for all samples	
S-2	2	0.5		2-3-2-12	5							
							4		<u>SILT</u> , Some f. Sand, Some f.c. Gravel, dark gray, hard, moist (SM)	462	PID= 0.0 ppm	
S-3	2	0.5		10-13-22-31	35							
							6		<u>SILT</u> , And f. Sand, Some f.c. Gravel, hard, moist (SM)	460	PID= 0.0 ppm	
S-4	2	1.2		29-17-14-26	31							
							8		<u>Similar Soil</u> (SM)	458	PID= 0.0 ppm	
S-5	1.6	1.3		10-15-22-100/1"	37							
							10		End of Boring at 10 ft	456	Split spoon refusal at 9.6 feet. Roller-bit refusal at 10 feet.	
							12			454		

I:\CHA-LLP.COM\PROJECTS\ANYK4\30059\DATA\BORING LOGS\30059.1001.32000 BORING LOGS.GPJ



William Paterson University Athletic Field Study

SUBSURFACE LOG

HOLE NUMBER B-7

PROJECT NUMBER: 30059.1001.32000

Page 1 of 1

LOCATION: Wayne, New Jersey			DRILL FLUID: Mud Rotary		DRILLING METHOD: 4" FJC				
CLIENT: William Paterson University of New Jersey			WATER LEVEL OBSERVATIONS	DATE	TIME	READING TYPE	WATER DEPTH (ft)	CASING BOTTOM (ft)	HOLE BOTTOM (ft)
CONTRACTOR: Craig Test Boring				6-17-15	3:50 PM	During Drilling	None	4	6
DRILLER: R. Warden		INSPECTOR: J. King							
START DATE and TIME: 6/17/2015 1:15:00 PM									
FINISH DATE and TIME: 6/17/2015 1:50:00 PM									
SURFACE ELEV: 456.00 (ft; Estimated)		CHECKED BY:							

SAMP./CORE NUMBER	SAMP. ADV. (ft) LEN. CORE (ft)	RECOVERY (ft)	Blows Per 6" on Split Spoon Sampler	"N" Value or RQD%	SAMPLE	DEPTH (Feet)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	ELEVATION (Feet)	Remarks on Character of Drilling, Water Return, etc.	WATER LEVELS AND/OR WELL DATA
S-1	2	0.7	5-4-5-10	9		0		TOPSOIL		Groundwater observations made during drilling may not represent static conditions. Photoionization Detector Reading (PID) = 0.0 PPM for all samples	
						2		f. GRAVEL , trace f.m.c. sand, gray, loose, moist (FILL)	454		
								Becomes medium compact (FILL)			
S-2	2	0.7	7-5-11-15	16		4		f. SAND , Some Silt, trace f. gravel, brown, medium compact, moist (SM)	452	PID = 0.0 PPM	
								Becomes compact (SM)		PID = 0.0 PPM	
S-3	1.9	0.8	14-23-23-100/5"	46		6		End of Boring at 6 ft	450	Split spoon refusal at 5.9 feet. Roller-bit refusal at 6 feet.	
						8			448		
						10			446		
						12			444		

ATTACHMENT 3



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-82460-1

Client Project/Site: William Paterson Athletic Field - Wayne

For:

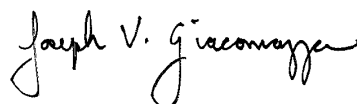
CHA Inc

111 Winner Circle

PO BOX 5269

Albany, New York 12205-0269

Attn: Mr. Seth Fowler



Authorized for release by:

6/30/2015 11:05:39 AM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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

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

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



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	22
QC Sample Results	24
QC Association Summary	34
Lab Chronicle	37
Certification Summary	39
Method Summary	40
Sample Summary	41
Chain of Custody	42
Receipt Checklists	43

Definitions/Glossary

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Job ID: 480-82460-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-82460-1

Receipt

The samples were received on 6/18/2015 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-249221 recovered above the upper control limit for 2-Butanone (MEK), 2-Hexanone, and Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: B-1 (0.5-4') (480-82460-1), B-2 (2-6') (480-82460-2), B-6 (0-4') (480-82460-3) and B-7 (0.5-6') (480-82460-4).

Method(s) 8260C: The laboratory control sample (LCS) for batch preparation batch 480-249163 and analytical batch 480-249221 recovered outside control limits for the following analyte: Cyclohexane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA

Method(s) 8270D: The following samples were diluted due to appearance and viscosity: B-1 (0.5-4') (480-82460-1) and B-6 (0-4') (480-82460-3). Elevated reporting limits (RL) are provided.

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

GC Semi VOA

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

Metals

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

Organic Prep

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

Detection Summary

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-1 (0.5-4')

Lab Sample ID: 480-82460-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Arsenic	2.8		2.3	0.47	mg/Kg	1		☼	6010C	Total/NA
Barium	42.5		0.59	0.13	mg/Kg	1		☼	6010C	Total/NA
Cadmium	0.073	J	0.23	0.035	mg/Kg	1		☼	6010C	Total/NA
Chromium	12.3		0.59	0.23	mg/Kg	1		☼	6010C	Total/NA
Lead	6.3		1.2	0.28	mg/Kg	1		☼	6010C	Total/NA
Mercury	0.017	J	0.020	0.0082	mg/Kg	1			7471B	Total/NA

Client Sample ID: B-2 (2-6')

Lab Sample ID: 480-82460-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	5.8	J	16	1.2	ug/Kg	1		☼	8260C	Total/NA
Acetone	51		16	2.7	ug/Kg	1		☼	8260C	Total/NA
4,4'-DDD	0.40	J	1.9	0.37	ug/Kg	1		☼	8081B	Total/NA
4,4'-DDE	0.60	J	1.9	0.40	ug/Kg	1		☼	8081B	Total/NA
4,4'-DDT	0.44	J	1.9	0.44	ug/Kg	1		☼	8081B	Total/NA
alpha-BHC	0.39	J B	1.9	0.34	ug/Kg	1		☼	8081B	Total/NA
Arsenic	2.8		2.3	0.46	mg/Kg	1		☼	6010C	Total/NA
Barium	34.5		0.57	0.13	mg/Kg	1		☼	6010C	Total/NA
Cadmium	0.070	J	0.23	0.034	mg/Kg	1		☼	6010C	Total/NA
Chromium	15.6		0.57	0.23	mg/Kg	1		☼	6010C	Total/NA
Lead	9.7		1.1	0.27	mg/Kg	1		☼	6010C	Total/NA
Mercury	0.031		0.019	0.0078	mg/Kg	1			7471B	Total/NA

Client Sample ID: B-6 (0-4')

Lab Sample ID: 480-82460-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	4.4	J	13	0.98	ug/Kg	1		☼	8260C	Total/NA
Acetone	25		13	2.3	ug/Kg	1		☼	8260C	Total/NA
4,4'-DDD	1.1	J	2.0	0.39	ug/Kg	1		☼	8081B	Total/NA
4,4'-DDE	4.0		2.0	0.43	ug/Kg	1		☼	8081B	Total/NA
4,4'-DDT	2.0		2.0	0.47	ug/Kg	1		☼	8081B	Total/NA
delta-BHC	0.69	J	2.0	0.38	ug/Kg	1		☼	8081B	Total/NA
Arsenic	3.3		2.3	0.47	mg/Kg	1		☼	6010C	Total/NA
Barium	33.8		0.58	0.13	mg/Kg	1		☼	6010C	Total/NA
Cadmium	0.12	J	0.23	0.035	mg/Kg	1		☼	6010C	Total/NA
Chromium	11.6		0.58	0.23	mg/Kg	1		☼	6010C	Total/NA
Lead	17.7		1.2	0.28	mg/Kg	1		☼	6010C	Total/NA
Mercury	0.044		0.020	0.0080	mg/Kg	1			7471B	Total/NA

Client Sample ID: B-7 (0.5-6')

Lab Sample ID: 480-82460-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	2.0	J	11	1.9	ug/Kg	1		☼	8260C	Total/NA
alpha-BHC	0.37	J B	1.8	0.32	ug/Kg	1		☼	8081B	Total/NA
Arsenic	1.7	J	2.0	0.41	mg/Kg	1		☼	6010C	Total/NA
Barium	14.7		0.51	0.11	mg/Kg	1		☼	6010C	Total/NA
Cadmium	0.071	J	0.20	0.030	mg/Kg	1		☼	6010C	Total/NA
Chromium	9.6		0.51	0.20	mg/Kg	1		☼	6010C	Total/NA
Lead	3.5		1.0	0.24	mg/Kg	1		☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-1 (0.5-4')

Date Collected: 06/17/15 12:25

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-1

Matrix: Solid

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.020	0.0082	mg/Kg		06/19/15 11:25	06/19/15 13:51	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		0.10	0.10	%			06/19/15 12:01	1

Client Sample ID: B-1 (0.5-4')

Date Collected: 06/17/15 12:25

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-1

Matrix: Solid

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.1	0.30	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
1,1,2,2-Tetrachloroethane	ND		4.1	0.66	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
1,1,2-Trichloroethane	ND		4.1	0.53	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.1	0.93	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
1,1-Dichloroethane	ND		4.1	0.50	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
1,1-Dichloroethene	ND		4.1	0.50	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
1,2,4-Trichlorobenzene	ND		4.1	0.25	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
1,2-Dibromo-3-Chloropropane	ND		4.1	2.0	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
1,2-Dichlorobenzene	ND		4.1	0.32	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
1,2-Dichloroethane	ND		4.1	0.21	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
1,2-Dichloropropane	ND		4.1	2.0	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
1,3-Dichlorobenzene	ND		4.1	0.21	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
1,4-Dichlorobenzene	ND		4.1	0.57	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
2-Butanone (MEK)	ND		20	1.5	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
2-Hexanone	ND		20	2.0	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
4-Methyl-2-pentanone (MIBK)	ND		20	1.3	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Acetone	ND		20	3.4	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Benzene	ND		4.1	0.20	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Bromodichloromethane	ND		4.1	0.55	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Bromoform	ND		4.1	2.0	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Bromomethane	ND		4.1	0.37	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Carbon disulfide	ND		4.1	2.0	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Carbon tetrachloride	ND		4.1	0.40	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Chlorobenzene	ND		4.1	0.54	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Dibromochloromethane	ND		4.1	0.52	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Chloroethane	ND		4.1	0.93	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Chloroform	ND		4.1	0.25	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Chloromethane	ND		4.1	0.25	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
cis-1,2-Dichloroethene	ND		4.1	0.52	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
cis-1,3-Dichloropropene	ND		4.1	0.59	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Cyclohexane	ND *		4.1	0.57	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Dichlorodifluoromethane	ND		4.1	0.34	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Ethylbenzene	ND		4.1	0.28	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
1,2-Dibromoethane	ND		4.1	0.53	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Isopropylbenzene	ND		4.1	0.62	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Methyl acetate	ND		4.1	2.5	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Methyl tert-butyl ether	ND		4.1	0.40	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Methylcyclohexane	ND		4.1	0.62	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-1 (0.5-4')

Date Collected: 06/17/15 12:25

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-1

Matrix: Solid

Percent Solids: 86.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		4.1	1.9	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Styrene	ND		4.1	0.20	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Tetrachloroethene	ND		4.1	0.55	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Toluene	ND		4.1	0.31	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
trans-1,2-Dichloroethene	ND		4.1	0.42	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
trans-1,3-Dichloropropene	ND		4.1	1.8	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Trichloroethene	ND		4.1	0.90	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Trichlorofluoromethane	ND		4.1	0.39	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Vinyl chloride	ND		4.1	0.50	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1
Xylenes, Total	ND		8.2	0.69	ug/Kg	☼	06/18/15 12:00	06/20/15 18:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		71 - 125	06/18/15 12:00	06/20/15 18:02	1
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	06/18/15 12:00	06/20/15 18:02	1
4-Bromofluorobenzene (Surr)	96		72 - 126	06/18/15 12:00	06/20/15 18:02	1
Dibromofluoromethane (Surr)	103		60 - 140	06/18/15 12:00	06/20/15 18:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		970	140	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
bis (2-chloroisopropyl) ether	ND		970	190	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
2,4,5-Trichlorophenol	ND		970	260	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
2,4,6-Trichlorophenol	ND		970	190	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
2,4-Dichlorophenol	ND		970	100	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
2,4-Dimethylphenol	ND		970	230	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
2,4-Dinitrophenol	ND		9500	4500	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
2,4-Dinitrotoluene	ND		970	200	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
2,6-Dinitrotoluene	ND		970	110	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
2-Chloronaphthalene	ND		970	160	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
2-Chlorophenol	ND		970	180	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
2-Methylphenol	ND		970	110	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
2-Methylnaphthalene	ND		970	190	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
2-Nitroaniline	ND		1900	140	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
2-Nitrophenol	ND		970	270	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
3,3'-Dichlorobenzidine	ND		1900	1100	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
3-Nitroaniline	ND		1900	270	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
4,6-Dinitro-2-methylphenol	ND		1900	970	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
4-Bromophenyl phenyl ether	ND		970	140	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
4-Chloro-3-methylphenol	ND		970	240	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
4-Chloroaniline	ND		970	240	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
4-Chlorophenyl phenyl ether	ND		970	120	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
4-Methylphenol	ND		1900	110	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
4-Nitroaniline	ND		1900	510	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
4-Nitrophenol	ND		1900	680	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Acenaphthene	ND		970	140	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Acenaphthylene	ND		970	130	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Acetophenone	ND		970	130	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Anthracene	ND		970	240	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Atrazine	ND		970	340	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Benzaldehyde	ND		970	770	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-1 (0.5-4')

Date Collected: 06/17/15 12:25

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-1

Matrix: Solid

Percent Solids: 86.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		970	97	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Benzo[a]pyrene	ND		970	140	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Benzo[b]fluoranthene	ND		970	150	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Benzo[g,h,i]perylene	ND		970	100	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Benzo[k]fluoranthene	ND		970	130	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Bis(2-chloroethoxy)methane	ND		970	200	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Bis(2-chloroethyl)ether	ND		970	130	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Bis(2-ethylhexyl) phthalate	ND		970	330	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Butyl benzyl phthalate	ND		970	160	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Caprolactam	ND		970	290	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Carbazole	ND		970	110	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Chrysene	ND		970	220	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Dibenz(a,h)anthracene	ND		970	170	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Di-n-butyl phthalate	ND		970	170	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Di-n-octyl phthalate	ND		970	110	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Dibenzofuran	ND		970	110	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Diethyl phthalate	ND		970	130	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Dimethyl phthalate	ND		970	110	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Fluoranthene	ND		970	100	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Fluorene	ND		970	110	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Hexachlorobenzene	ND		970	130	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Hexachlorobutadiene	ND		970	140	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Hexachlorocyclopentadiene	ND		970	130	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Hexachloroethane	ND		970	130	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Indeno[1,2,3-cd]pyrene	ND		970	120	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Isophorone	ND		970	200	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
N-Nitrosodi-n-propylamine	ND		970	170	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
N-Nitrosodiphenylamine	ND		970	790	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Naphthalene	ND		970	130	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Nitrobenzene	ND		970	110	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Pentachlorophenol	ND		1900	970	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Phenanthrene	ND		970	140	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Phenol	ND		970	150	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5
Pyrene	ND		970	110	ug/Kg	☼	06/19/15 07:50	06/23/15 23:30	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	76		34 - 132	06/19/15 07:50	06/23/15 23:30	5
Phenol-d5 (Surr)	80		11 - 120	06/19/15 07:50	06/23/15 23:30	5
p-Terphenyl-d14 (Surr)	94		65 - 153	06/19/15 07:50	06/23/15 23:30	5
2,4,6-Tribromophenol (Surr)	78		39 - 146	06/19/15 07:50	06/23/15 23:30	5
2-Fluorobiphenyl	82		37 - 120	06/19/15 07:50	06/23/15 23:30	5
2-Fluorophenol (Surr)	74		18 - 120	06/19/15 07:50	06/23/15 23:30	5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.37	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
4,4'-DDE	ND		1.9	0.40	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
4,4'-DDT	ND		1.9	0.45	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
Aldrin	ND		1.9	0.47	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
alpha-BHC	ND		1.9	0.35	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-1 (0.5-4')

Date Collected: 06/17/15 12:25

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-1

Matrix: Solid

Percent Solids: 86.7

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		1.9	0.96	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
beta-BHC	ND		1.9	0.35	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
delta-BHC	ND		1.9	0.36	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
Dieldrin	ND		1.9	0.46	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
Endosulfan I	ND		1.9	0.37	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
Endosulfan II	ND		1.9	0.35	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
Endosulfan sulfate	ND		1.9	0.36	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
Endrin	ND		1.9	0.38	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
Endrin aldehyde	ND		1.9	0.49	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
Endrin ketone	ND		1.9	0.47	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
gamma-Chlordane	ND		1.9	0.61	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
Heptachlor	ND		1.9	0.42	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
Heptachlor epoxide	ND		1.9	0.49	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
Methoxychlor	ND		1.9	0.39	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1
Toxaphene	ND		19	11	ug/Kg	☼	06/19/15 07:45	06/22/15 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	63		32 - 136	06/19/15 07:45	06/22/15 13:19	1
Tetrachloro-m-xylene	74		30 - 124	06/19/15 07:45	06/22/15 13:19	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		260	51	ug/Kg	☼	06/18/15 11:52	06/18/15 23:39	1
PCB-1221	ND		260	51	ug/Kg	☼	06/18/15 11:52	06/18/15 23:39	1
PCB-1232	ND		260	51	ug/Kg	☼	06/18/15 11:52	06/18/15 23:39	1
PCB-1242	ND		260	51	ug/Kg	☼	06/18/15 11:52	06/18/15 23:39	1
PCB-1248	ND		260	51	ug/Kg	☼	06/18/15 11:52	06/18/15 23:39	1
PCB-1254	ND		260	120	ug/Kg	☼	06/18/15 11:52	06/18/15 23:39	1
PCB-1260	ND		260	120	ug/Kg	☼	06/18/15 11:52	06/18/15 23:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		60 - 154	06/18/15 11:52	06/18/15 23:39	1
DCB Decachlorobiphenyl	99		65 - 174	06/18/15 11:52	06/18/15 23:39	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		2.3	0.47	mg/Kg	☼	06/19/15 09:15	06/19/15 23:13	1
Barium	42.5		0.59	0.13	mg/Kg	☼	06/19/15 09:15	06/19/15 23:13	1
Cadmium	0.073	J	0.23	0.035	mg/Kg	☼	06/19/15 09:15	06/19/15 23:13	1
Chromium	12.3		0.59	0.23	mg/Kg	☼	06/19/15 09:15	06/19/15 23:13	1
Lead	6.3		1.2	0.28	mg/Kg	☼	06/19/15 09:15	06/19/15 23:13	1
Selenium	ND		4.7	0.47	mg/Kg	☼	06/19/15 09:15	06/19/15 23:13	1
Silver	ND		0.70	0.23	mg/Kg	☼	06/19/15 09:15	06/19/15 23:13	1

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-2 (2-6')

Date Collected: 06/17/15 11:15

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-2

Matrix: Solid

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.031		0.019	0.0078	mg/Kg		06/19/15 11:25	06/19/15 13:56	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	12		0.10	0.10	%			06/19/15 12:01	1

Client Sample ID: B-2 (2-6')

Date Collected: 06/17/15 11:15

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-2

Matrix: Solid

Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		3.2	0.24	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
1,1,2,2-Tetrachloroethane	ND		3.2	0.53	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
1,1,2-Trichloroethane	ND		3.2	0.42	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.2	0.74	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
1,1-Dichloroethane	ND		3.2	0.40	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
1,1-Dichloroethene	ND		3.2	0.40	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
1,2,4-Trichlorobenzene	ND		3.2	0.20	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
1,2-Dibromo-3-Chloropropane	ND		3.2	1.6	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
1,2-Dichlorobenzene	ND		3.2	0.25	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
1,2-Dichloroethane	ND		3.2	0.16	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
1,2-Dichloropropane	ND		3.2	1.6	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
1,3-Dichlorobenzene	ND		3.2	0.17	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
1,4-Dichlorobenzene	ND		3.2	0.45	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
2-Butanone (MEK)	5.8	J	16	1.2	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
2-Hexanone	ND		16	1.6	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
4-Methyl-2-pentanone (MIBK)	ND		16	1.1	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Acetone	51		16	2.7	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Benzene	ND		3.2	0.16	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Bromodichloromethane	ND		3.2	0.43	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Bromoform	ND		3.2	1.6	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Bromomethane	ND		3.2	0.29	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Carbon disulfide	ND		3.2	1.6	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Carbon tetrachloride	ND		3.2	0.31	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Chlorobenzene	ND		3.2	0.43	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Dibromochloromethane	ND		3.2	0.42	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Chloroethane	ND		3.2	0.73	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Chloroform	ND		3.2	0.20	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Chloromethane	ND		3.2	0.20	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
cis-1,2-Dichloroethene	ND		3.2	0.42	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
cis-1,3-Dichloropropene	ND		3.2	0.47	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Cyclohexane	ND	*	3.2	0.45	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Dichlorodifluoromethane	ND		3.2	0.27	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Ethylbenzene	ND		3.2	0.22	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
1,2-Dibromoethane	ND		3.2	0.42	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Isopropylbenzene	ND		3.2	0.49	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Methyl acetate	ND		3.2	2.0	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Methyl tert-butyl ether	ND		3.2	0.32	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Methylcyclohexane	ND		3.2	0.49	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-2 (2-6')

Date Collected: 06/17/15 11:15

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-2

Matrix: Solid

Percent Solids: 87.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		3.2	1.5	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Styrene	ND		3.2	0.16	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Tetrachloroethene	ND		3.2	0.44	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Toluene	ND		3.2	0.25	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
trans-1,2-Dichloroethene	ND		3.2	0.33	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
trans-1,3-Dichloropropene	ND		3.2	1.4	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Trichloroethene	ND		3.2	0.71	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Trichlorofluoromethane	ND		3.2	0.31	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Vinyl chloride	ND		3.2	0.40	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1
Xylenes, Total	ND		6.5	0.55	ug/Kg	☼	06/18/15 12:00	06/20/15 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		71 - 125	06/18/15 12:00	06/20/15 18:28	1
1,2-Dichloroethane-d4 (Surr)	105		64 - 126	06/18/15 12:00	06/20/15 18:28	1
4-Bromofluorobenzene (Surr)	94		72 - 126	06/18/15 12:00	06/20/15 18:28	1
Dibromofluoromethane (Surr)	104		60 - 140	06/18/15 12:00	06/20/15 18:28	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		190	28	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
bis (2-chloroisopropyl) ether	ND		190	38	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
2,4,5-Trichlorophenol	ND		190	52	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
2,4,6-Trichlorophenol	ND		190	38	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
2,4-Dichlorophenol	ND		190	20	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
2,4-Dimethylphenol	ND		190	46	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
2,4-Dinitrophenol	ND		1900	880	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
2,4-Dinitrotoluene	ND		190	39	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
2,6-Dinitrotoluene	ND		190	23	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
2-Chloronaphthalene	ND		190	32	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
2-Chlorophenol	ND		190	35	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
2-Methylphenol	ND		190	23	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
2-Methylnaphthalene	ND		190	38	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
2-Nitroaniline	ND		370	28	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
2-Nitrophenol	ND		190	54	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
3,3'-Dichlorobenzidine	ND		370	230	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
3-Nitroaniline	ND		370	53	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
4,6-Dinitro-2-methylphenol	ND		370	190	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
4-Bromophenyl phenyl ether	ND		190	27	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
4-Chloro-3-methylphenol	ND		190	47	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
4-Chloroaniline	ND		190	47	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
4-Chlorophenyl phenyl ether	ND		190	24	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
4-Methylphenol	ND		370	23	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
4-Nitroaniline	ND		370	100	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
4-Nitrophenol	ND		370	130	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Acenaphthene	ND		190	28	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Acenaphthylene	ND		190	25	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Acetophenone	ND		190	26	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Anthracene	ND		190	47	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Atrazine	ND		190	66	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Benzaldehyde	ND		190	150	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-2 (2-6')

Date Collected: 06/17/15 11:15

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-2

Matrix: Solid

Percent Solids: 87.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		190	19	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Benzo[a]pyrene	ND		190	28	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Benzo[b]fluoranthene	ND		190	30	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Benzo[g,h,i]perylene	ND		190	20	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Benzo[k]fluoranthene	ND		190	25	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Bis(2-chloroethoxy)methane	ND		190	41	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Bis(2-chloroethyl)ether	ND		190	25	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Bis(2-ethylhexyl) phthalate	ND		190	65	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Butyl benzyl phthalate	ND		190	32	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Caprolactam	ND		190	57	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Carbazole	ND		190	23	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Chrysene	ND		190	43	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Dibenz(a,h)anthracene	ND		190	34	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Di-n-butyl phthalate	ND		190	33	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Di-n-octyl phthalate	ND		190	23	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Dibenzofuran	ND		190	23	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Diethyl phthalate	ND		190	25	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Dimethyl phthalate	ND		190	23	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Fluoranthene	ND		190	20	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Fluorene	ND		190	23	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Hexachlorobenzene	ND		190	26	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Hexachlorobutadiene	ND		190	28	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Hexachlorocyclopentadiene	ND		190	26	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Hexachloroethane	ND		190	25	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Indeno[1,2,3-cd]pyrene	ND		190	24	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Isophorone	ND		190	41	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
N-Nitrosodi-n-propylamine	ND		190	33	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
N-Nitrosodiphenylamine	ND		190	160	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Naphthalene	ND		190	25	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Nitrobenzene	ND		190	21	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Pentachlorophenol	ND		370	190	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Phenanthrene	ND		190	28	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Phenol	ND		190	29	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1
Pyrene	ND		190	23	ug/Kg	☼	06/19/15 07:50	06/23/15 23:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	77		34 - 132	06/19/15 07:50	06/23/15 23:57	1
Phenol-d5 (Surr)	78		11 - 120	06/19/15 07:50	06/23/15 23:57	1
p-Terphenyl-d14 (Surr)	92		65 - 153	06/19/15 07:50	06/23/15 23:57	1
2,4,6-Tribromophenol (Surr)	86		39 - 146	06/19/15 07:50	06/23/15 23:57	1
2-Fluorobiphenyl	80		37 - 120	06/19/15 07:50	06/23/15 23:57	1
2-Fluorophenol (Surr)	74		18 - 120	06/19/15 07:50	06/23/15 23:57	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.40	J	1.9	0.37	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
4,4'-DDE	0.60	J	1.9	0.40	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
4,4'-DDT	0.44	J	1.9	0.44	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
Aldrin	ND		1.9	0.46	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
alpha-BHC	0.39	J B	1.9	0.34	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-2 (2-6')

Date Collected: 06/17/15 11:15

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-2

Matrix: Solid

Percent Solids: 87.9

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		1.9	0.94	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
beta-BHC	ND		1.9	0.34	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
delta-BHC	ND		1.9	0.35	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
Dieldrin	ND		1.9	0.45	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
Endosulfan I	ND		1.9	0.36	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
Endosulfan II	ND		1.9	0.34	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
Endosulfan sulfate	ND		1.9	0.35	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
Endrin	ND		1.9	0.37	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
Endrin aldehyde	ND		1.9	0.48	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
Endrin ketone	ND		1.9	0.46	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
gamma-Chlordane	ND		1.9	0.60	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
Heptachlor	ND		1.9	0.41	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
Heptachlor epoxide	ND		1.9	0.49	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
Methoxychlor	ND		1.9	0.38	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
Toxaphene	ND		19	11	ug/Kg	☼	06/19/15 07:45	06/22/15 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	68		32 - 136				06/19/15 07:45	06/22/15 13:37	1
Tetrachloro-m-xylene	75		30 - 124				06/19/15 07:45	06/22/15 13:37	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		270	53	ug/Kg	☼	06/18/15 11:52	06/18/15 23:55	1
PCB-1221	ND		270	53	ug/Kg	☼	06/18/15 11:52	06/18/15 23:55	1
PCB-1232	ND		270	53	ug/Kg	☼	06/18/15 11:52	06/18/15 23:55	1
PCB-1242	ND		270	53	ug/Kg	☼	06/18/15 11:52	06/18/15 23:55	1
PCB-1248	ND		270	53	ug/Kg	☼	06/18/15 11:52	06/18/15 23:55	1
PCB-1254	ND		270	130	ug/Kg	☼	06/18/15 11:52	06/18/15 23:55	1
PCB-1260	ND		270	130	ug/Kg	☼	06/18/15 11:52	06/18/15 23:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		60 - 154				06/18/15 11:52	06/18/15 23:55	1
DCB Decachlorobiphenyl	97		65 - 174				06/18/15 11:52	06/18/15 23:55	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		2.3	0.46	mg/Kg	☼	06/19/15 09:15	06/19/15 23:16	1
Barium	34.5		0.57	0.13	mg/Kg	☼	06/19/15 09:15	06/19/15 23:16	1
Cadmium	0.070	J	0.23	0.034	mg/Kg	☼	06/19/15 09:15	06/19/15 23:16	1
Chromium	15.6		0.57	0.23	mg/Kg	☼	06/19/15 09:15	06/19/15 23:16	1
Lead	9.7		1.1	0.27	mg/Kg	☼	06/19/15 09:15	06/19/15 23:16	1
Selenium	ND		4.6	0.46	mg/Kg	☼	06/19/15 09:15	06/19/15 23:16	1
Silver	ND		0.69	0.23	mg/Kg	☼	06/19/15 09:15	06/19/15 23:16	1

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-6 (0-4')

Date Collected: 06/17/15 15:15

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-3

Matrix: Solid

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.020	0.0080	mg/Kg		06/19/15 11:25	06/19/15 13:58	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	18		0.10	0.10	%			06/19/15 12:01	1

Client Sample ID: B-6 (0-4')

Date Collected: 06/17/15 15:15

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-3

Matrix: Solid

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	0.19	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
1,1,2,2-Tetrachloroethane	ND		2.7	0.44	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
1,1,2-Trichloroethane	ND		2.7	0.35	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.7	0.61	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
1,1-Dichloroethane	ND		2.7	0.33	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
1,1-Dichloroethene	ND		2.7	0.33	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
1,2,4-Trichlorobenzene	ND		2.7	0.16	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
1,2-Dibromo-3-Chloropropane	ND		2.7	1.3	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
1,2-Dichlorobenzene	ND		2.7	0.21	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
1,2-Dichloroethane	ND		2.7	0.13	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
1,2-Dichloropropane	ND		2.7	1.3	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
1,3-Dichlorobenzene	ND		2.7	0.14	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
1,4-Dichlorobenzene	ND		2.7	0.38	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
2-Butanone (MEK)	4.4	J	13	0.98	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
2-Hexanone	ND		13	1.3	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
4-Methyl-2-pentanone (MIBK)	ND		13	0.88	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Acetone	25		13	2.3	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Benzene	ND		2.7	0.13	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Bromodichloromethane	ND		2.7	0.36	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Bromoform	ND		2.7	1.3	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Bromomethane	ND		2.7	0.24	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Carbon disulfide	ND		2.7	1.3	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Carbon tetrachloride	ND		2.7	0.26	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Chlorobenzene	ND		2.7	0.35	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Dibromochloromethane	ND		2.7	0.34	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Chloroethane	ND		2.7	0.61	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Chloroform	ND		2.7	0.17	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Chloromethane	ND		2.7	0.16	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
cis-1,2-Dichloroethene	ND		2.7	0.34	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
cis-1,3-Dichloropropene	ND		2.7	0.39	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Cyclohexane	ND	*	2.7	0.38	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Dichlorodifluoromethane	ND		2.7	0.22	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Ethylbenzene	ND		2.7	0.19	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
1,2-Dibromoethane	ND		2.7	0.34	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Isopropylbenzene	ND		2.7	0.40	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Methyl acetate	ND		2.7	1.6	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Methyl tert-butyl ether	ND		2.7	0.26	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Methylcyclohexane	ND		2.7	0.41	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-6 (0-4')

Date Collected: 06/17/15 15:15

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-3

Matrix: Solid

Percent Solids: 82.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.7	1.2	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Styrene	ND		2.7	0.13	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Tetrachloroethene	ND		2.7	0.36	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Toluene	ND		2.7	0.20	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
trans-1,2-Dichloroethene	ND		2.7	0.28	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
trans-1,3-Dichloropropene	ND		2.7	1.2	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Trichloroethene	ND		2.7	0.59	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Trichlorofluoromethane	ND		2.7	0.25	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Vinyl chloride	ND		2.7	0.33	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1
Xylenes, Total	ND		5.4	0.45	ug/Kg	☼	06/18/15 12:00	06/20/15 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		71 - 125	06/18/15 12:00	06/20/15 18:53	1
1,2-Dichloroethane-d4 (Surr)	114		64 - 126	06/18/15 12:00	06/20/15 18:53	1
4-Bromofluorobenzene (Surr)	99		72 - 126	06/18/15 12:00	06/20/15 18:53	1
Dibromofluoromethane (Surr)	107		60 - 140	06/18/15 12:00	06/20/15 18:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		1000	150	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
bis (2-chloroisopropyl) ether	ND		1000	200	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
2,4,5-Trichlorophenol	ND		1000	270	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
2,4,6-Trichlorophenol	ND		1000	200	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
2,4-Dichlorophenol	ND		1000	110	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
2,4-Dimethylphenol	ND		1000	240	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
2,4-Dinitrophenol	ND		9800	4600	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
2,4-Dinitrotoluene	ND		1000	210	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
2,6-Dinitrotoluene	ND		1000	120	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
2-Chloronaphthalene	ND		1000	170	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
2-Chlorophenol	ND		1000	180	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
2-Methylphenol	ND		1000	120	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
2-Methylnaphthalene	ND		1000	200	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
2-Nitroaniline	ND		2000	150	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
2-Nitrophenol	ND		1000	280	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
3,3'-Dichlorobenzidine	ND		2000	1200	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
3-Nitroaniline	ND		2000	280	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
4,6-Dinitro-2-methylphenol	ND		2000	1000	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
4-Bromophenyl phenyl ether	ND		1000	140	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
4-Chloro-3-methylphenol	ND		1000	250	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
4-Chloroaniline	ND		1000	250	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
4-Chlorophenyl phenyl ether	ND		1000	120	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
4-Methylphenol	ND		2000	120	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
4-Nitroaniline	ND		2000	530	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
4-Nitrophenol	ND		2000	700	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Acenaphthene	ND		1000	150	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Acenaphthylene	ND		1000	130	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Acetophenone	ND		1000	140	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Anthracene	ND		1000	250	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Atrazine	ND		1000	350	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Benzaldehyde	ND		1000	800	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-6 (0-4')

Date Collected: 06/17/15 15:15

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-3

Matrix: Solid

Percent Solids: 82.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		1000	100	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Benzo[a]pyrene	ND		1000	150	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Benzo[b]fluoranthene	ND		1000	160	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Benzo[g,h,i]perylene	ND		1000	110	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Benzo[k]fluoranthene	ND		1000	130	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Bis(2-chloroethoxy)methane	ND		1000	210	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Bis(2-chloroethyl)ether	ND		1000	130	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Bis(2-ethylhexyl) phthalate	ND		1000	340	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Butyl benzyl phthalate	ND		1000	170	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Caprolactam	ND		1000	300	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Carbazole	ND		1000	120	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Chrysene	ND		1000	220	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Dibenz(a,h)anthracene	ND		1000	180	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Di-n-butyl phthalate	ND		1000	170	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Di-n-octyl phthalate	ND		1000	120	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Dibenzofuran	ND		1000	120	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Diethyl phthalate	ND		1000	130	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Dimethyl phthalate	ND		1000	120	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Fluoranthene	ND		1000	110	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Fluorene	ND		1000	120	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Hexachlorobenzene	ND		1000	140	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Hexachlorobutadiene	ND		1000	150	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Hexachlorocyclopentadiene	ND		1000	140	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Hexachloroethane	ND		1000	130	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Indeno[1,2,3-cd]pyrene	ND		1000	120	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Isophorone	ND		1000	210	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
N-Nitrosodi-n-propylamine	ND		1000	170	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
N-Nitrosodiphenylamine	ND		1000	820	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Naphthalene	ND		1000	130	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Nitrobenzene	ND		1000	110	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Pentachlorophenol	ND		2000	1000	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Phenanthrene	ND		1000	150	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Phenol	ND		1000	150	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5
Pyrene	ND		1000	120	ug/Kg	☼	06/19/15 07:50	06/24/15 00:23	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	78		34 - 132	06/19/15 07:50	06/24/15 00:23	5
Phenol-d5 (Surr)	79		11 - 120	06/19/15 07:50	06/24/15 00:23	5
p-Terphenyl-d14 (Surr)	91		65 - 153	06/19/15 07:50	06/24/15 00:23	5
2,4,6-Tribromophenol (Surr)	76		39 - 146	06/19/15 07:50	06/24/15 00:23	5
2-Fluorobiphenyl	82		37 - 120	06/19/15 07:50	06/24/15 00:23	5
2-Fluorophenol (Surr)	77		18 - 120	06/19/15 07:50	06/24/15 00:23	5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	1.1	J	2.0	0.39	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
4,4'-DDE	4.0		2.0	0.43	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
4,4'-DDT	2.0		2.0	0.47	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
Aldrin	ND		2.0	0.50	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
alpha-BHC	ND		2.0	0.36	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-6 (0-4')

Date Collected: 06/17/15 15:15

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-3

Matrix: Solid

Percent Solids: 82.2

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		2.0	1.0	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
beta-BHC	ND		2.0	0.36	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
delta-BHC	0.69	J	2.0	0.38	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
Dieldrin	ND		2.0	0.49	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
Endosulfan I	ND		2.0	0.39	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
Endosulfan II	ND		2.0	0.36	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
Endosulfan sulfate	ND		2.0	0.38	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
Endrin	ND		2.0	0.40	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
Endrin aldehyde	ND		2.0	0.52	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
Endrin ketone	ND		2.0	0.50	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
gamma-BHC (Lindane)	ND		2.0	0.37	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
gamma-Chlordane	ND		2.0	0.64	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
Heptachlor	ND		2.0	0.44	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
Heptachlor epoxide	ND		2.0	0.52	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
Methoxychlor	ND		2.0	0.41	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1
Toxaphene	ND		20	12	ug/Kg	☼	06/19/15 07:45	06/22/15 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	60		32 - 136	06/19/15 07:45	06/22/15 15:07	1
Tetrachloro-m-xylene	81		30 - 124	06/19/15 07:45	06/22/15 15:07	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		290	57	ug/Kg	☼	06/18/15 11:52	06/19/15 00:11	1
PCB-1221	ND		290	57	ug/Kg	☼	06/18/15 11:52	06/19/15 00:11	1
PCB-1232	ND		290	57	ug/Kg	☼	06/18/15 11:52	06/19/15 00:11	1
PCB-1242	ND		290	57	ug/Kg	☼	06/18/15 11:52	06/19/15 00:11	1
PCB-1248	ND		290	57	ug/Kg	☼	06/18/15 11:52	06/19/15 00:11	1
PCB-1254	ND		290	140	ug/Kg	☼	06/18/15 11:52	06/19/15 00:11	1
PCB-1260	ND		290	140	ug/Kg	☼	06/18/15 11:52	06/19/15 00:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		60 - 154	06/18/15 11:52	06/19/15 00:11	1
DCB Decachlorobiphenyl	100		65 - 174	06/18/15 11:52	06/19/15 00:11	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		2.3	0.47	mg/Kg	☼	06/19/15 09:15	06/19/15 23:19	1
Barium	33.8		0.58	0.13	mg/Kg	☼	06/19/15 09:15	06/19/15 23:19	1
Cadmium	0.12	J	0.23	0.035	mg/Kg	☼	06/19/15 09:15	06/19/15 23:19	1
Chromium	11.6		0.58	0.23	mg/Kg	☼	06/19/15 09:15	06/19/15 23:19	1
Lead	17.7		1.2	0.28	mg/Kg	☼	06/19/15 09:15	06/19/15 23:19	1
Selenium	ND		4.7	0.47	mg/Kg	☼	06/19/15 09:15	06/19/15 23:19	1
Silver	ND		0.70	0.23	mg/Kg	☼	06/19/15 09:15	06/19/15 23:19	1

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-7 (0.5-6')

Date Collected: 06/17/15 15:25

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-4

Matrix: Solid

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.018	0.0074	mg/Kg		06/19/15 11:25	06/19/15 14:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.7		0.10	0.10	%			06/19/15 12:01	1

Client Sample ID: B-7 (0.5-6')

Date Collected: 06/17/15 15:25

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-4

Matrix: Solid

Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.2	0.16	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
1,1,2,2-Tetrachloroethane	ND		2.2	0.36	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
1,1,2-Trichloroethane	ND		2.2	0.29	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.2	0.51	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
1,1-Dichloroethane	ND		2.2	0.27	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
1,1-Dichloroethene	ND		2.2	0.27	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
1,2,4-Trichlorobenzene	ND		2.2	0.14	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
1,2-Dibromo-3-Chloropropane	ND		2.2	1.1	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
1,2-Dichlorobenzene	ND		2.2	0.17	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
1,2-Dichloroethane	ND		2.2	0.11	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
1,2-Dichloropropane	ND		2.2	1.1	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
1,3-Dichlorobenzene	ND		2.2	0.11	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
1,4-Dichlorobenzene	ND		2.2	0.31	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
2-Butanone (MEK)	ND		11	0.81	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
2-Hexanone	ND		11	1.1	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
4-Methyl-2-pentanone (MIBK)	ND		11	0.73	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Acetone	2.0	J	11	1.9	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Benzene	ND		2.2	0.11	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Bromodichloromethane	ND		2.2	0.30	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Bromoform	ND		2.2	1.1	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Bromomethane	ND		2.2	0.20	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Carbon disulfide	ND		2.2	1.1	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Carbon tetrachloride	ND		2.2	0.22	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Chlorobenzene	ND		2.2	0.29	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Dibromochloromethane	ND		2.2	0.28	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Chloroethane	ND		2.2	0.50	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Chloroform	ND		2.2	0.14	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Chloromethane	ND		2.2	0.13	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
cis-1,2-Dichloroethene	ND		2.2	0.28	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
cis-1,3-Dichloropropene	ND		2.2	0.32	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Cyclohexane	ND	*	2.2	0.31	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Dichlorodifluoromethane	ND		2.2	0.18	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Ethylbenzene	ND		2.2	0.15	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
1,2-Dibromoethane	ND		2.2	0.29	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Isopropylbenzene	ND		2.2	0.34	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Methyl acetate	ND		2.2	1.3	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Methyl tert-butyl ether	ND		2.2	0.22	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Methylcyclohexane	ND		2.2	0.34	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-7 (0.5-6')

Date Collected: 06/17/15 15:25

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-4

Matrix: Solid

Percent Solids: 92.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.2	1.0	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Styrene	ND		2.2	0.11	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Tetrachloroethene	ND		2.2	0.30	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Toluene	ND		2.2	0.17	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
trans-1,2-Dichloroethene	ND		2.2	0.23	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
trans-1,3-Dichloropropene	ND		2.2	0.98	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Trichloroethene	ND		2.2	0.49	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Trichlorofluoromethane	ND		2.2	0.21	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Vinyl chloride	ND		2.2	0.27	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1
Xylenes, Total	ND		4.4	0.37	ug/Kg	☼	06/18/15 12:00	06/20/15 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		71 - 125	06/18/15 12:00	06/20/15 19:19	1
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	06/18/15 12:00	06/20/15 19:19	1
4-Bromofluorobenzene (Surr)	94		72 - 126	06/18/15 12:00	06/20/15 19:19	1
Dibromofluoromethane (Surr)	103		60 - 140	06/18/15 12:00	06/20/15 19:19	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		180	27	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
bis (2-chloroisopropyl) ether	ND		180	36	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
2,4,5-Trichlorophenol	ND		180	49	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
2,4,6-Trichlorophenol	ND		180	36	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
2,4-Dichlorophenol	ND		180	19	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
2,4-Dimethylphenol	ND		180	44	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
2,4-Dinitrophenol	ND		1800	840	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
2,4-Dinitrotoluene	ND		180	37	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
2,6-Dinitrotoluene	ND		180	21	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
2-Chloronaphthalene	ND		180	30	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
2-Chlorophenol	ND		180	33	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
2-Methylphenol	ND		180	21	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
2-Methylnaphthalene	ND		180	36	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
2-Nitroaniline	ND		350	27	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
2-Nitrophenol	ND		180	51	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
3,3'-Dichlorobenzidine	ND		350	210	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
3-Nitroaniline	ND		350	50	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
4,6-Dinitro-2-methylphenol	ND		350	180	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
4-Bromophenyl phenyl ether	ND		180	26	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
4-Chloro-3-methylphenol	ND		180	45	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
4-Chloroaniline	ND		180	45	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
4-Chlorophenyl phenyl ether	ND		180	22	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
4-Methylphenol	ND		350	21	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
4-Nitroaniline	ND		350	95	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
4-Nitrophenol	ND		350	130	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Acenaphthene	ND		180	27	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Acenaphthylene	ND		180	24	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Acetophenone	ND		180	25	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Anthracene	ND		180	45	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Atrazine	ND		180	63	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Benzaldehyde	ND		180	140	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-7 (0.5-6')

Date Collected: 06/17/15 15:25

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-4

Matrix: Solid

Percent Solids: 92.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		180	18	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Benzo[a]pyrene	ND		180	27	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Benzo[b]fluoranthene	ND		180	29	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Benzo[g,h,i]perylene	ND		180	19	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Benzo[k]fluoranthene	ND		180	24	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Bis(2-chloroethoxy)methane	ND		180	39	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Bis(2-chloroethyl)ether	ND		180	24	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Bis(2-ethylhexyl) phthalate	ND		180	62	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Butyl benzyl phthalate	ND		180	30	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Caprolactam	ND		180	55	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Carbazole	ND		180	21	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Chrysene	ND		180	41	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Dibenz(a,h)anthracene	ND		180	32	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Di-n-butyl phthalate	ND		180	31	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Di-n-octyl phthalate	ND		180	21	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Dibenzofuran	ND		180	21	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Diethyl phthalate	ND		180	24	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Dimethyl phthalate	ND		180	21	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Fluoranthene	ND		180	19	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Fluorene	ND		180	21	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Hexachlorobenzene	ND		180	25	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Hexachlorobutadiene	ND		180	27	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Hexachlorocyclopentadiene	ND		180	25	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Hexachloroethane	ND		180	24	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Indeno[1,2,3-cd]pyrene	ND		180	22	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Isophorone	ND		180	39	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
N-Nitrosodi-n-propylamine	ND		180	31	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
N-Nitrosodiphenylamine	ND		180	150	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Naphthalene	ND		180	24	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Nitrobenzene	ND		180	20	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Pentachlorophenol	ND		350	180	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Phenanthrene	ND		180	27	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Phenol	ND		180	28	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1
Pyrene	ND		180	21	ug/Kg	☼	06/19/15 07:50	06/24/15 00:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	76		34 - 132	06/19/15 07:50	06/24/15 00:49	1
Phenol-d5 (Surr)	79		11 - 120	06/19/15 07:50	06/24/15 00:49	1
p-Terphenyl-d14 (Surr)	93		65 - 153	06/19/15 07:50	06/24/15 00:49	1
2,4,6-Tribromophenol (Surr)	85		39 - 146	06/19/15 07:50	06/24/15 00:49	1
2-Fluorobiphenyl	78		37 - 120	06/19/15 07:50	06/24/15 00:49	1
2-Fluorophenol (Surr)	75		18 - 120	06/19/15 07:50	06/24/15 00:49	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.8	0.35	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
4,4'-DDE	ND		1.8	0.38	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
4,4'-DDT	ND		1.8	0.42	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
Aldrin	ND		1.8	0.44	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
alpha-BHC	0.37	J B	1.8	0.32	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-7 (0.5-6')

Date Collected: 06/17/15 15:25

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-4

Matrix: Solid

Percent Solids: 92.3

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		1.8	0.89	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
beta-BHC	ND		1.8	0.32	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
delta-BHC	ND		1.8	0.33	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
Dieldrin	ND		1.8	0.43	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
Endosulfan I	ND		1.8	0.34	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
Endosulfan II	ND		1.8	0.32	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
Endosulfan sulfate	ND		1.8	0.33	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
Endrin	ND		1.8	0.36	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
Endrin aldehyde	ND		1.8	0.46	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
Endrin ketone	ND		1.8	0.44	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
gamma-BHC (Lindane)	ND		1.8	0.33	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
gamma-Chlordane	ND		1.8	0.57	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
Heptachlor	ND		1.8	0.39	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
Heptachlor epoxide	ND		1.8	0.46	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
Methoxychlor	ND		1.8	0.37	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
Toxaphene	ND		18	10	ug/Kg	☼	06/19/15 07:45	06/22/15 13:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	71		32 - 136				06/19/15 07:45	06/22/15 13:02	1
Tetrachloro-m-xylene	77		30 - 124				06/19/15 07:45	06/22/15 13:02	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		200	39	ug/Kg	☼	06/18/15 11:52	06/19/15 00:27	1
PCB-1221	ND		200	39	ug/Kg	☼	06/18/15 11:52	06/19/15 00:27	1
PCB-1232	ND		200	39	ug/Kg	☼	06/18/15 11:52	06/19/15 00:27	1
PCB-1242	ND		200	39	ug/Kg	☼	06/18/15 11:52	06/19/15 00:27	1
PCB-1248	ND		200	39	ug/Kg	☼	06/18/15 11:52	06/19/15 00:27	1
PCB-1254	ND		200	94	ug/Kg	☼	06/18/15 11:52	06/19/15 00:27	1
PCB-1260	ND		200	94	ug/Kg	☼	06/18/15 11:52	06/19/15 00:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	101		60 - 154				06/18/15 11:52	06/19/15 00:27	1
DCB Decachlorobiphenyl	104		65 - 174				06/18/15 11:52	06/19/15 00:27	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.7	J	2.0	0.41	mg/Kg	☼	06/19/15 09:15	06/19/15 23:22	1
Barium	14.7		0.51	0.11	mg/Kg	☼	06/19/15 09:15	06/19/15 23:22	1
Cadmium	0.071	J	0.20	0.030	mg/Kg	☼	06/19/15 09:15	06/19/15 23:22	1
Chromium	9.6		0.51	0.20	mg/Kg	☼	06/19/15 09:15	06/19/15 23:22	1
Lead	3.5		1.0	0.24	mg/Kg	☼	06/19/15 09:15	06/19/15 23:22	1
Selenium	ND		4.1	0.41	mg/Kg	☼	06/19/15 09:15	06/19/15 23:22	1
Silver	ND		0.61	0.20	mg/Kg	☼	06/19/15 09:15	06/19/15 23:22	1

TestAmerica Buffalo

Surrogate Summary

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (71-125)	12DCE (64-126)	BFB (72-126)	DBFM (60-140)
480-82460-1	B-1 (0.5-4')	100	108	96	103
480-82460-2	B-2 (2-6')	100	105	94	104
480-82460-3	B-6 (0-4')	104	114	99	107
480-82460-4	B-7 (0.5-6')	98	108	94	103
LCS 480-249163/1-A	Lab Control Sample	99	101	101	99
MB 480-249163/2-A	Method Blank	100	102	98	100

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (34-132)	PHL (11-120)	TPH (65-153)	TBP (39-146)	FBP (37-120)	2FP (18-120)
480-82460-1	B-1 (0.5-4')	76	80	94	78	82	74
480-82460-2	B-2 (2-6')	77	78	92	86	80	74
480-82460-3	B-6 (0-4')	78	79	91	76	82	77
480-82460-4	B-7 (0.5-6')	76	79	93	85	78	75
LCS 480-248974/2-A	Lab Control Sample	72	72	92	88	77	68
MB 480-248974/1-A	Method Blank	76	76	96	77	79	73

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (32-136)	TCX1 (30-124)
480-82460-1	B-1 (0.5-4')	63	74
480-82460-2	B-2 (2-6')	68	75
480-82460-3	B-6 (0-4')	60	81
480-82460-4	B-7 (0.5-6')	71	77
480-82460-4 MS	B-7 (0.5-6')	76	78
480-82460-4 MSD	B-7 (0.5-6')	72	83
LCS 480-248972/2-A	Lab Control Sample	81	79
MB 480-248972/1-A	Method Blank	89	83

Surrogate Legend

TestAmerica Buffalo

Surrogate Summary

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX2	DCB2
		(60-154)	(65-174)
480-82460-1	B-1 (0.5-4')	96	99
480-82460-1 MS	B-1 (0.5-4')	108	109
480-82460-1 MSD	B-1 (0.5-4')	114	117
480-82460-2	B-2 (2-6')	96	97
480-82460-3	B-6 (0-4')	100	100
480-82460-4	B-7 (0.5-6')	101	104
LCS 480-248833/2-A	Lab Control Sample	113	118
MB 480-248833/1-A	Method Blank	101	103

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

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

Lab Sample ID: MB 480-249163/2-A

Matrix: Solid

Analysis Batch: 249221

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 249163

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.9	0.36	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.80	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,1,2-Trichloroethane	ND		4.9	0.64	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,1-Dichloroethane	ND		4.9	0.60	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.5	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,2-Dichlorobenzene	ND		4.9	0.39	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,2-Dichloroethane	ND		4.9	0.25	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,2-Dichloropropane	ND		4.9	2.5	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,3-Dichlorobenzene	ND		4.9	0.25	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,4-Dichlorobenzene	ND		4.9	0.69	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
2-Hexanone	ND		25	2.5	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Acetone	ND		25	4.2	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Benzene	ND		4.9	0.24	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Bromodichloromethane	ND		4.9	0.66	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Bromoform	ND		4.9	2.5	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Bromomethane	ND		4.9	0.44	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Carbon disulfide	ND		4.9	2.5	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Carbon tetrachloride	ND		4.9	0.48	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Chlorobenzene	ND		4.9	0.65	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Dibromochloromethane	ND		4.9	0.63	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Chloroethane	ND		4.9	1.1	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Chloroform	ND		4.9	0.31	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Chloromethane	ND		4.9	0.30	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
cis-1,2-Dichloroethene	ND		4.9	0.63	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
cis-1,3-Dichloropropene	ND		4.9	0.71	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Cyclohexane	ND		4.9	0.69	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Dichlorodifluoromethane	ND		4.9	0.41	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Ethylbenzene	ND		4.9	0.34	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,2-Dibromoethane	ND		4.9	0.63	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Isopropylbenzene	ND		4.9	0.75	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Methyl acetate	ND		4.9	3.0	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Methyl tert-butyl ether	ND		4.9	0.49	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Methylcyclohexane	ND		4.9	0.75	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Methylene Chloride	5.97		4.9	2.3	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Styrene	ND		4.9	0.25	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Tetrachloroethene	ND		4.9	0.66	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Toluene	ND		4.9	0.37	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
trans-1,2-Dichloroethene	ND		4.9	0.51	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
trans-1,3-Dichloropropene	ND		4.9	2.2	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Trichloroethene	ND		4.9	1.1	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Trichlorofluoromethane	ND		4.9	0.47	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Vinyl chloride	ND		4.9	0.60	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Xylenes, Total	ND		9.9	0.83	ug/Kg		06/19/15 15:47	06/20/15 13:00	1

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		71 - 125	06/19/15 15:47	06/20/15 13:00	1
1,2-Dichloroethane-d4 (Surr)	102		64 - 126	06/19/15 15:47	06/20/15 13:00	1
4-Bromofluorobenzene (Surr)	98		72 - 126	06/19/15 15:47	06/20/15 13:00	1
Dibromofluoromethane (Surr)	100		60 - 140	06/19/15 15:47	06/20/15 13:00	1

Lab Sample ID: LCS 480-249163/1-A
Matrix: Solid
Analysis Batch: 249221

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	49.5	54.2		ug/Kg		110	77 - 121
1,1,2,2-Tetrachloroethane	49.5	56.6		ug/Kg		114	80 - 120
1,1,2-Trichloroethane	49.5	53.2		ug/Kg		107	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	49.5	53.8		ug/Kg		109	60 - 140
1,1-Dichloroethane	49.5	51.5		ug/Kg		104	73 - 126
1,1-Dichloroethene	49.5	52.8		ug/Kg		107	59 - 125
1,2,4-Trichlorobenzene	49.5	57.2		ug/Kg		115	64 - 120
1,2-Dibromo-3-Chloropropane	49.5	53.3		ug/Kg		108	63 - 124
1,2-Dichlorobenzene	49.5	52.5		ug/Kg		106	75 - 120
1,2-Dichloroethane	49.5	51.0		ug/Kg		103	77 - 122
1,2-Dichloropropane	49.5	53.0		ug/Kg		107	75 - 124
1,3-Dichlorobenzene	49.5	51.4		ug/Kg		104	74 - 120
1,4-Dichlorobenzene	49.5	51.4		ug/Kg		104	73 - 120
2-Butanone (MEK)	248	311		ug/Kg		126	70 - 134
2-Hexanone	248	311		ug/Kg		126	59 - 130
4-Methyl-2-pentanone (MIBK)	248	301		ug/Kg		122	65 - 133
Acetone	248	295		ug/Kg		119	61 - 137
Benzene	49.5	52.0		ug/Kg		105	79 - 127
Bromodichloromethane	49.5	55.8		ug/Kg		113	80 - 122
Bromoform	49.5	47.5		ug/Kg		96	68 - 126
Bromomethane	49.5	53.9		ug/Kg		109	37 - 149
Carbon disulfide	49.5	54.8		ug/Kg		111	64 - 131
Carbon tetrachloride	49.5	56.1		ug/Kg		113	75 - 135
Chlorobenzene	49.5	50.1		ug/Kg		101	76 - 124
Dibromochloromethane	49.5	48.1		ug/Kg		97	76 - 125
Chloroethane	49.5	56.7		ug/Kg		115	69 - 135
Chloroform	49.5	50.5		ug/Kg		102	80 - 118
Chloromethane	49.5	52.3		ug/Kg		106	63 - 127
cis-1,2-Dichloroethene	49.5	52.1		ug/Kg		105	81 - 117
cis-1,3-Dichloropropene	49.5	56.3		ug/Kg		114	82 - 120
Cyclohexane	49.5	54.5	*	ug/Kg		110	65 - 106
Dichlorodifluoromethane	49.5	59.1		ug/Kg		119	57 - 142
Ethylbenzene	49.5	52.1		ug/Kg		105	80 - 120
1,2-Dibromoethane	49.5	54.6		ug/Kg		110	78 - 120
Isopropylbenzene	49.5	54.4		ug/Kg		110	72 - 120
Methyl acetate	248	291		ug/Kg		118	55 - 136
Methyl tert-butyl ether	49.5	56.2		ug/Kg		114	63 - 125
Methylcyclohexane	49.5	52.7		ug/Kg		106	60 - 140
Methylene Chloride	49.5	52.6		ug/Kg		106	61 - 127
Styrene	49.5	53.9		ug/Kg		109	80 - 120
Tetrachloroethene	49.5	50.4		ug/Kg		102	74 - 122
Toluene	49.5	51.2		ug/Kg		103	74 - 128
trans-1,2-Dichloroethene	49.5	51.0		ug/Kg		103	78 - 126

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

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

Lab Sample ID: LCS 480-249163/1-A

Matrix: Solid

Analysis Batch: 249221

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	49.5	52.3		ug/Kg		106	77 - 129
Trichlorofluoromethane	49.5	50.3		ug/Kg		102	65 - 146
Vinyl chloride	49.5	54.4		ug/Kg		110	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	99		71 - 125
1,2-Dichloroethane-d4 (Surr)	101		64 - 126
4-Bromofluorobenzene (Surr)	101		72 - 126
Dibromofluoromethane (Surr)	99		60 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-248974/1-A

Matrix: Solid

Analysis Batch: 249822

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 248974

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	25	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
bis (2-chloroisopropyl) ether	ND		170	34	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
2,4,5-Trichlorophenol	ND		170	45	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
2,4,6-Trichlorophenol	ND		170	34	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
2,4-Dimethylphenol	ND		170	41	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
2,4-Dinitrophenol	ND		1600	770	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
2,4-Dinitrotoluene	ND		170	35	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
2,6-Dinitrotoluene	ND		170	20	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
2-Chloronaphthalene	ND		170	28	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
2-Chlorophenol	ND		170	31	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
2-Methylphenol	ND		170	20	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
2-Methylnaphthalene	ND		170	34	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
2-Nitroaniline	ND		330	25	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
2-Nitrophenol	ND		170	47	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
3,3'-Dichlorobenzidine	ND		330	200	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
3-Nitroaniline	ND		330	46	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
4,6-Dinitro-2-methylphenol	ND		330	170	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
4-Bromophenyl phenyl ether	ND		170	24	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
4-Chloro-3-methylphenol	ND		170	42	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
4-Chloroaniline	ND		170	42	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
4-Chlorophenyl phenyl ether	ND		170	21	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
4-Methylphenol	ND		330	20	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
4-Nitroaniline	ND		330	88	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
4-Nitrophenol	ND		330	120	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Acenaphthene	ND		170	25	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Acenaphthylene	ND		170	22	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Acetophenone	ND		170	23	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Anthracene	ND		170	42	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Atrazine	ND		170	58	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Benzaldehyde	ND		170	130	ug/Kg		06/19/15 07:50	06/23/15 13:43	1

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-248974/1-A

Matrix: Solid

Analysis Batch: 249822

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 248974

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		170	17	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Benzo[a]pyrene	ND		170	25	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Bis(2-chloroethoxy)methane	ND		170	36	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Bis(2-chloroethyl)ether	ND		170	22	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Butyl benzyl phthalate	ND		170	28	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Caprolactam	ND		170	50	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Carbazole	ND		170	20	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Chrysene	ND		170	38	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Dibenz(a,h)anthracene	ND		170	30	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Di-n-butyl phthalate	ND		170	29	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Dibenzofuran	ND		170	20	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Diethyl phthalate	ND		170	22	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Dimethyl phthalate	ND		170	20	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Fluoranthene	ND		170	18	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Fluorene	ND		170	20	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Hexachlorobenzene	ND		170	23	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Hexachlorobutadiene	ND		170	25	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Hexachlorocyclopentadiene	ND		170	23	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Hexachloroethane	ND		170	22	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Isophorone	ND		170	36	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
N-Nitrosodi-n-propylamine	ND		170	29	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
N-Nitrosodiphenylamine	ND		170	140	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Naphthalene	ND		170	22	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Nitrobenzene	ND		170	19	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Pentachlorophenol	ND		330	170	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Phenanthrene	ND		170	25	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Phenol	ND		170	26	ug/Kg		06/19/15 07:50	06/23/15 13:43	1
Pyrene	ND		170	20	ug/Kg		06/19/15 07:50	06/23/15 13:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	76		34 - 132	06/19/15 07:50	06/23/15 13:43	1
Phenol-d5 (Surr)	76		11 - 120	06/19/15 07:50	06/23/15 13:43	1
p-Terphenyl-d14 (Surr)	96		65 - 153	06/19/15 07:50	06/23/15 13:43	1
2,4,6-Tribromophenol (Surr)	77		39 - 146	06/19/15 07:50	06/23/15 13:43	1
2-Fluorobiphenyl	79		37 - 120	06/19/15 07:50	06/23/15 13:43	1
2-Fluorophenol (Surr)	73		18 - 120	06/19/15 07:50	06/23/15 13:43	1

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-248974/2-A

Matrix: Solid

Analysis Batch: 249822

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 248974

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4-Dinitrotoluene	1670	1490		ug/Kg		90	55 - 125
2-Chlorophenol	1670	1160		ug/Kg		69	38 - 120
4-Chloro-3-methylphenol	1670	1400		ug/Kg		84	49 - 125
4-Nitrophenol	3330	3010		ug/Kg		90	43 - 137
Acenaphthene	1670	1350		ug/Kg		81	53 - 120
Atrazine	3330	3000		ug/Kg		90	60 - 164
Bis(2-ethylhexyl) phthalate	1670	1690		ug/Kg		102	61 - 133
Fluorene	1670	1410		ug/Kg		84	63 - 126
Hexachloroethane	1670	1090		ug/Kg		65	41 - 120
N-Nitrosodi-n-propylamine	1670	1250		ug/Kg		75	46 - 120
Pentachlorophenol	3330	2880		ug/Kg		86	33 - 136
Phenol	1670	1190		ug/Kg		71	36 - 120
Pyrene	1670	1510		ug/Kg		90	51 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	72		34 - 132
Phenol-d5 (Surr)	72		11 - 120
p-Terphenyl-d14 (Surr)	92		65 - 153
2,4,6-Tribromophenol (Surr)	88		39 - 146
2-Fluorobiphenyl	77		37 - 120
2-Fluorophenol (Surr)	68		18 - 120

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-248972/1-A

Matrix: Solid

Analysis Batch: 249353

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 248972

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.7	0.32	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
4,4'-DDE	ND		1.7	0.35	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
4,4'-DDT	ND		1.7	0.39	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
Aldrin	ND		1.7	0.41	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
alpha-BHC	0.372	J	1.7	0.30	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
alpha-Chlordane	ND		1.7	0.83	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
beta-BHC	ND		1.7	0.30	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
delta-BHC	ND		1.7	0.31	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
Dieldrin	ND		1.7	0.40	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
Endosulfan I	ND		1.7	0.32	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
Endosulfan II	ND		1.7	0.30	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
Endosulfan sulfate	ND		1.7	0.31	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
Endrin	ND		1.7	0.33	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
Endrin aldehyde	ND		1.7	0.42	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
Endrin ketone	ND		1.7	0.41	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
gamma-BHC (Lindane)	ND		1.7	0.30	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
gamma-Chlordane	ND		1.7	0.53	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
Heptachlor	ND		1.7	0.36	ug/Kg		06/19/15 07:45	06/22/15 11:51	1

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 480-248972/1-A

Matrix: Solid

Analysis Batch: 249353

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 248972

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		1.7	0.43	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
Methoxychlor	ND		1.7	0.34	ug/Kg		06/19/15 07:45	06/22/15 11:51	1
Toxaphene	ND		17	9.6	ug/Kg		06/19/15 07:45	06/22/15 11:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	89		32 - 136	06/19/15 07:45	06/22/15 11:51	1
Tetrachloro-m-xylene	83		30 - 124	06/19/15 07:45	06/22/15 11:51	1

Lab Sample ID: LCS 480-248972/2-A

Matrix: Solid

Analysis Batch: 249353

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 248972

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
4,4'-DDD	16.6	13.3		ug/Kg		80	52 - 138
4,4'-DDE	16.6	13.9		ug/Kg		84	52 - 131
4,4'-DDT	16.6	13.0		ug/Kg		78	50 - 131
Aldrin	16.6	14.2		ug/Kg		85	35 - 120
alpha-BHC	16.6	12.3		ug/Kg		74	49 - 120
alpha-Chlordane	16.6	12.7		ug/Kg		77	40 - 133
beta-BHC	16.6	13.1		ug/Kg		79	52 - 127
delta-BHC	16.6	14.0		ug/Kg		85	45 - 123
Dieldrin	16.6	13.6		ug/Kg		82	50 - 131
Endosulfan I	16.6	12.2		ug/Kg		74	43 - 121
Endosulfan II	16.6	13.8		ug/Kg		83	48 - 134
Endosulfan sulfate	16.6	14.5		ug/Kg		87	46 - 144
Endrin	16.6	14.3		ug/Kg		86	46 - 134
Endrin aldehyde	16.6	14.0		ug/Kg		85	31 - 137
Endrin ketone	16.6	14.5		ug/Kg		87	44 - 140
gamma-BHC (Lindane)	16.6	13.5		ug/Kg		81	50 - 120
gamma-Chlordane	16.6	12.8		ug/Kg		77	52 - 129
Heptachlor	16.6	15.2		ug/Kg		92	51 - 121
Heptachlor epoxide	16.6	14.1		ug/Kg		85	52 - 129
Methoxychlor	16.6	14.1		ug/Kg		85	50 - 149

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	81		32 - 136
Tetrachloro-m-xylene	79		30 - 124

Lab Sample ID: 480-82460-4 MS

Matrix: Solid

Analysis Batch: 249353

Client Sample ID: B-7 (0.5-6')

Prep Type: Total/NA

Prep Batch: 248972

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
4,4'-DDD	ND		17.8	13.0		ug/Kg	☼	73	26 - 162
4,4'-DDE	ND		17.8	13.3		ug/Kg	☼	75	34 - 138
4,4'-DDT	ND		17.8	12.8		ug/Kg	☼	72	43 - 131
Aldrin	ND		17.8	14.8		ug/Kg	☼	83	37 - 125
alpha-BHC	0.37	J B	17.8	12.8		ug/Kg	☼	70	39 - 117

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-82460-4 MS

Matrix: Solid

Analysis Batch: 249353

Client Sample ID: B-7 (0.5-6')

Prep Type: Total/NA

Prep Batch: 248972

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
alpha-Chlordane	ND		17.8	12.7		ug/Kg	☼	72	29 - 141
beta-BHC	ND		17.8	13.5		ug/Kg	☼	76	36 - 139
delta-BHC	ND		17.8	14.9		ug/Kg	☼	84	23 - 132
Dieldrin	ND		17.8	13.8		ug/Kg	☼	78	38 - 135
Endosulfan I	ND		17.8	12.9		ug/Kg	☼	73	39 - 128
Endosulfan II	ND		17.8	13.9		ug/Kg	☼	78	24 - 134
Endosulfan sulfate	ND		17.8	14.8		ug/Kg	☼	83	19 - 137
Endrin	ND		17.8	14.6		ug/Kg	☼	82	41 - 147
Endrin aldehyde	ND		17.8	14.4		ug/Kg	☼	81	20 - 120
Endrin ketone	ND		17.8	15.0		ug/Kg	☼	84	31 - 139
gamma-BHC (Lindane)	ND		17.8	14.0		ug/Kg	☼	79	50 - 120
gamma-Chlordane	ND		17.8	12.6		ug/Kg	☼	71	31 - 140
Heptachlor	ND		17.8	15.9		ug/Kg	☼	90	42 - 128
Heptachlor epoxide	ND		17.8	14.4		ug/Kg	☼	81	26 - 141
Methoxychlor	ND		17.8	14.5		ug/Kg	☼	81	44 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	76		32 - 136
Tetrachloro-m-xylene	78		30 - 124

Lab Sample ID: 480-82460-4 MSD

Matrix: Solid

Analysis Batch: 249353

Client Sample ID: B-7 (0.5-6')

Prep Type: Total/NA

Prep Batch: 248972

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
4,4'-DDD	ND		17.9	13.7		ug/Kg	☼	76	26 - 162	5	21
4,4'-DDE	ND		17.9	14.6		ug/Kg	☼	82	34 - 138	10	18
4,4'-DDT	ND		17.9	13.6		ug/Kg	☼	76	43 - 131	6	25
Aldrin	ND		17.9	15.5		ug/Kg	☼	87	37 - 125	5	12
alpha-BHC	0.37	J B	17.9	13.5		ug/Kg	☼	73	39 - 117	5	15
alpha-Chlordane	ND		17.9	13.4		ug/Kg	☼	75	29 - 141	5	23
beta-BHC	ND		17.9	14.3		ug/Kg	☼	80	36 - 139	5	19
delta-BHC	ND		17.9	15.6		ug/Kg	☼	87	23 - 132	5	14
Dieldrin	ND		17.9	14.5		ug/Kg	☼	81	38 - 135	5	12
Endosulfan I	ND		17.9	13.0		ug/Kg	☼	72	39 - 128	1	18
Endosulfan II	ND		17.9	14.6		ug/Kg	☼	82	24 - 134	5	26
Endosulfan sulfate	ND		17.9	15.4		ug/Kg	☼	86	19 - 137	4	35
Endrin	ND		17.9	15.2		ug/Kg	☼	85	41 - 147	4	20
Endrin aldehyde	ND		17.9	14.3		ug/Kg	☼	80	20 - 120	1	47
Endrin ketone	ND		17.9	15.5		ug/Kg	☼	87	31 - 139	3	37
gamma-BHC (Lindane)	ND		17.9	14.7		ug/Kg	☼	82	50 - 120	5	12
gamma-Chlordane	ND		17.9	13.4		ug/Kg	☼	75	31 - 140	6	15
Heptachlor	ND		17.9	16.6		ug/Kg	☼	93	42 - 128	4	22
Heptachlor epoxide	ND		17.9	15.1		ug/Kg	☼	84	26 - 141	5	15
Methoxychlor	ND		17.9	15.1		ug/Kg	☼	84	44 - 157	4	24

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-82460-4 MSD

Matrix: Solid

Analysis Batch: 249353

Client Sample ID: B-7 (0.5-6')

Prep Type: Total/NA

Prep Batch: 248972

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	72		32 - 136
Tetrachloro-m-xylene	83		30 - 124

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-248833/1-A

Matrix: Solid

Analysis Batch: 248914

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 248833

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		180	36	ug/Kg		06/18/15 11:52	06/18/15 22:36	1
PCB-1221	ND		180	36	ug/Kg		06/18/15 11:52	06/18/15 22:36	1
PCB-1232	ND		180	36	ug/Kg		06/18/15 11:52	06/18/15 22:36	1
PCB-1242	ND		180	36	ug/Kg		06/18/15 11:52	06/18/15 22:36	1
PCB-1248	ND		180	36	ug/Kg		06/18/15 11:52	06/18/15 22:36	1
PCB-1254	ND		180	85	ug/Kg		06/18/15 11:52	06/18/15 22:36	1
PCB-1260	ND		180	85	ug/Kg		06/18/15 11:52	06/18/15 22:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	101		60 - 154	06/18/15 11:52	06/18/15 22:36	1
DCB Decachlorobiphenyl	103		65 - 174	06/18/15 11:52	06/18/15 22:36	1

Lab Sample ID: LCS 480-248833/2-A

Matrix: Solid

Analysis Batch: 248914

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 248833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
PCB-1016	1950	2390		ug/Kg		123	51 - 185
PCB-1260	1950	2490		ug/Kg		128	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	113		60 - 154
DCB Decachlorobiphenyl	118		65 - 174

Lab Sample ID: 480-82460-1 MS

Matrix: Solid

Analysis Batch: 248914

Client Sample ID: B-1 (0.5-4')

Prep Type: Total/NA

Prep Batch: 248833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
PCB-1016	ND		2650	2880		ug/Kg	☼	109	50 - 177
PCB-1260	ND		2650	2930		ug/Kg	☼	111	33 - 200

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	108		60 - 154
DCB Decachlorobiphenyl	109		65 - 174

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-82460-1 MSD

Matrix: Solid

Analysis Batch: 248914

Client Sample ID: B-1 (0.5-4')

Prep Type: Total/NA

Prep Batch: 248833

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		2610	3300		ug/Kg	☼	127	50 - 177	14	50
PCB-1260	ND		2610	3400		ug/Kg	☼	130	33 - 200	15	50
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Tetrachloro-m-xylene	114		60 - 154								
DCB Decachlorobiphenyl	117		65 - 174								

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-248969/1-A

Matrix: Solid

Analysis Batch: 249308

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 248969

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.41	mg/Kg		06/19/15 09:15	06/19/15 22:18	1
Barium	ND		0.51	0.11	mg/Kg		06/19/15 09:15	06/19/15 22:18	1
Cadmium	ND		0.20	0.030	mg/Kg		06/19/15 09:15	06/19/15 22:18	1
Chromium	ND		0.51	0.20	mg/Kg		06/19/15 09:15	06/19/15 22:18	1
Lead	ND		1.0	0.24	mg/Kg		06/19/15 09:15	06/19/15 22:18	1
Selenium	ND		4.1	0.41	mg/Kg		06/19/15 09:15	06/19/15 22:18	1
Silver	ND		0.61	0.20	mg/Kg		06/19/15 09:15	06/19/15 22:18	1

Lab Sample ID: LCSSRM 480-248969/2-A

Matrix: Solid

Analysis Batch: 249308

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 248969

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	122	110.2		mg/Kg		90.3	70.0 - 145.1
Barium	167	156.6		mg/Kg		93.8	73.1 - 126.9
Cadmium	88.0	77.80		mg/Kg		88.4	73.3 - 127.3
Chromium	102	90.33		mg/Kg		88.6	69.4 - 130.4
Lead	94.5	91.18		mg/Kg		96.5	70.5 - 129.1
Selenium	157	142.1		mg/Kg		90.5	67.5 - 131.8
Silver	34.2	30.68		mg/Kg		89.7	65.5 - 134.2

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 480-249041/1-A

Matrix: Solid

Analysis Batch: 249309

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 249041

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.018	0.0075	mg/Kg	-	06/19/15 11:25	06/19/15 13:40	1

Lab Sample ID: LCSSRM 480-249041/2-A

Matrix: Solid

Analysis Batch: 249309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249041

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	3.98	2.99		mg/Kg	-	75.2	51.0 - 149. 0

QC Association Summary

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

GC/MS VOA

Prep Batch: 249163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82460-1	B-1 (0.5-4')	Total/NA	Solid	5035A	
480-82460-2	B-2 (2-6')	Total/NA	Solid	5035A	
480-82460-3	B-6 (0-4')	Total/NA	Solid	5035A	
480-82460-4	B-7 (0.5-6')	Total/NA	Solid	5035A	
LCS 480-249163/1-A	Lab Control Sample	Total/NA	Solid	5035A	
MB 480-249163/2-A	Method Blank	Total/NA	Solid	5035A	

Analysis Batch: 249221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82460-1	B-1 (0.5-4')	Total/NA	Solid	8260C	249163
480-82460-2	B-2 (2-6')	Total/NA	Solid	8260C	249163
480-82460-3	B-6 (0-4')	Total/NA	Solid	8260C	249163
480-82460-4	B-7 (0.5-6')	Total/NA	Solid	8260C	249163
LCS 480-249163/1-A	Lab Control Sample	Total/NA	Solid	8260C	249163
MB 480-249163/2-A	Method Blank	Total/NA	Solid	8260C	249163

GC/MS Semi VOA

Prep Batch: 248974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82460-1	B-1 (0.5-4')	Total/NA	Solid	3550C	
480-82460-2	B-2 (2-6')	Total/NA	Solid	3550C	
480-82460-3	B-6 (0-4')	Total/NA	Solid	3550C	
480-82460-4	B-7 (0.5-6')	Total/NA	Solid	3550C	
LCS 480-248974/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-248974/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 249822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-248974/2-A	Lab Control Sample	Total/NA	Solid	8270D	248974
MB 480-248974/1-A	Method Blank	Total/NA	Solid	8270D	248974

Analysis Batch: 249824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82460-1	B-1 (0.5-4')	Total/NA	Solid	8270D	248974
480-82460-2	B-2 (2-6')	Total/NA	Solid	8270D	248974
480-82460-3	B-6 (0-4')	Total/NA	Solid	8270D	248974
480-82460-4	B-7 (0.5-6')	Total/NA	Solid	8270D	248974

GC Semi VOA

Prep Batch: 248833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82460-1	B-1 (0.5-4')	Total/NA	Solid	3550C	
480-82460-1 MS	B-1 (0.5-4')	Total/NA	Solid	3550C	
480-82460-1 MSD	B-1 (0.5-4')	Total/NA	Solid	3550C	
480-82460-2	B-2 (2-6')	Total/NA	Solid	3550C	
480-82460-3	B-6 (0-4')	Total/NA	Solid	3550C	
480-82460-4	B-7 (0.5-6')	Total/NA	Solid	3550C	
LCS 480-248833/2-A	Lab Control Sample	Total/NA	Solid	3550C	

TestAmerica Buffalo

QC Association Summary

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

GC Semi VOA (Continued)

Prep Batch: 248833 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-248833/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 248914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82460-1	B-1 (0.5-4')	Total/NA	Solid	8082A	248833
480-82460-1 MS	B-1 (0.5-4')	Total/NA	Solid	8082A	248833
480-82460-1 MSD	B-1 (0.5-4')	Total/NA	Solid	8082A	248833
480-82460-2	B-2 (2-6')	Total/NA	Solid	8082A	248833
480-82460-3	B-6 (0-4')	Total/NA	Solid	8082A	248833
480-82460-4	B-7 (0.5-6')	Total/NA	Solid	8082A	248833
LCS 480-248833/2-A	Lab Control Sample	Total/NA	Solid	8082A	248833
MB 480-248833/1-A	Method Blank	Total/NA	Solid	8082A	248833

Prep Batch: 248972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82460-1	B-1 (0.5-4')	Total/NA	Solid	3550C	
480-82460-2	B-2 (2-6')	Total/NA	Solid	3550C	
480-82460-3	B-6 (0-4')	Total/NA	Solid	3550C	
480-82460-4	B-7 (0.5-6')	Total/NA	Solid	3550C	
480-82460-4 MS	B-7 (0.5-6')	Total/NA	Solid	3550C	
480-82460-4 MSD	B-7 (0.5-6')	Total/NA	Solid	3550C	
LCS 480-248972/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-248972/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 249353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82460-1	B-1 (0.5-4')	Total/NA	Solid	8081B	248972
480-82460-2	B-2 (2-6')	Total/NA	Solid	8081B	248972
480-82460-3	B-6 (0-4')	Total/NA	Solid	8081B	248972
480-82460-4	B-7 (0.5-6')	Total/NA	Solid	8081B	248972
480-82460-4 MS	B-7 (0.5-6')	Total/NA	Solid	8081B	248972
480-82460-4 MSD	B-7 (0.5-6')	Total/NA	Solid	8081B	248972
LCS 480-248972/2-A	Lab Control Sample	Total/NA	Solid	8081B	248972
MB 480-248972/1-A	Method Blank	Total/NA	Solid	8081B	248972

Metals

Prep Batch: 248969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82460-1	B-1 (0.5-4')	Total/NA	Solid	3050B	
480-82460-2	B-2 (2-6')	Total/NA	Solid	3050B	
480-82460-3	B-6 (0-4')	Total/NA	Solid	3050B	
480-82460-4	B-7 (0.5-6')	Total/NA	Solid	3050B	
LCSSRM 480-248969/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-248969/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 249041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82460-1	B-1 (0.5-4')	Total/NA	Solid	7471B	
480-82460-2	B-2 (2-6')	Total/NA	Solid	7471B	

TestAmerica Buffalo

QC Association Summary

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Metals (Continued)

Prep Batch: 249041 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82460-3	B-6 (0-4')	Total/NA	Solid	7471B	
480-82460-4	B-7 (0.5-6')	Total/NA	Solid	7471B	
LCSSRM 480-249041/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 480-249041/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 249308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82460-1	B-1 (0.5-4')	Total/NA	Solid	6010C	248969
480-82460-2	B-2 (2-6')	Total/NA	Solid	6010C	248969
480-82460-3	B-6 (0-4')	Total/NA	Solid	6010C	248969
480-82460-4	B-7 (0.5-6')	Total/NA	Solid	6010C	248969
LCSSRM 480-248969/2-A	Lab Control Sample	Total/NA	Solid	6010C	248969
MB 480-248969/1-A	Method Blank	Total/NA	Solid	6010C	248969

Analysis Batch: 249309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82460-1	B-1 (0.5-4')	Total/NA	Solid	7471B	249041
480-82460-2	B-2 (2-6')	Total/NA	Solid	7471B	249041
480-82460-3	B-6 (0-4')	Total/NA	Solid	7471B	249041
480-82460-4	B-7 (0.5-6')	Total/NA	Solid	7471B	249041
LCSSRM 480-249041/2-A	Lab Control Sample	Total/NA	Solid	7471B	249041
MB 480-249041/1-A	Method Blank	Total/NA	Solid	7471B	249041

General Chemistry

Analysis Batch: 249096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82460-1	B-1 (0.5-4')	Total/NA	Solid	Moisture	
480-82460-2	B-2 (2-6')	Total/NA	Solid	Moisture	
480-82460-3	B-6 (0-4')	Total/NA	Solid	Moisture	
480-82460-4	B-7 (0.5-6')	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-1 (0.5-4')

Date Collected: 06/17/15 12:25

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-1

Matrix: Solid

Percent Solids: 86.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			249163	06/18/15 12:00	RAS	TAL BUF
Total/NA	Analysis	8260C		1	249221	06/20/15 18:02	RAS	TAL BUF
Total/NA	Prep	3550C			248974	06/19/15 07:50	CAM	TAL BUF
Total/NA	Analysis	8270D		5	249824	06/23/15 23:30	LMW	TAL BUF
Total/NA	Prep	3550C			248972	06/19/15 07:45	CAM	TAL BUF
Total/NA	Analysis	8081B		1	249353	06/22/15 13:19	JRL	TAL BUF
Total/NA	Prep	3550C			248833	06/18/15 11:52	VNP	TAL BUF
Total/NA	Analysis	8082A		1	248914	06/18/15 23:39	KS	TAL BUF
Total/NA	Prep	3050B			248969	06/19/15 09:15	TAS	TAL BUF
Total/NA	Analysis	6010C		1	249308	06/19/15 23:13	AMH	TAL BUF
Total/NA	Prep	7471B			249041	06/19/15 11:25	LRK	TAL BUF
Total/NA	Analysis	7471B		1	249309	06/19/15 13:51	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	249096	06/19/15 12:01	CMK	TAL BUF

Client Sample ID: B-2 (2-6')

Date Collected: 06/17/15 11:15

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-2

Matrix: Solid

Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			249163	06/18/15 12:00	RAS	TAL BUF
Total/NA	Analysis	8260C		1	249221	06/20/15 18:28	RAS	TAL BUF
Total/NA	Prep	3550C			248974	06/19/15 07:50	CAM	TAL BUF
Total/NA	Analysis	8270D		1	249824	06/23/15 23:57	LMW	TAL BUF
Total/NA	Prep	3550C			248972	06/19/15 07:45	CAM	TAL BUF
Total/NA	Analysis	8081B		1	249353	06/22/15 13:37	JRL	TAL BUF
Total/NA	Prep	3550C			248833	06/18/15 11:52	VNP	TAL BUF
Total/NA	Analysis	8082A		1	248914	06/18/15 23:55	KS	TAL BUF
Total/NA	Prep	3050B			248969	06/19/15 09:15	TAS	TAL BUF
Total/NA	Analysis	6010C		1	249308	06/19/15 23:16	AMH	TAL BUF
Total/NA	Prep	7471B			249041	06/19/15 11:25	LRK	TAL BUF
Total/NA	Analysis	7471B		1	249309	06/19/15 13:56	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	249096	06/19/15 12:01	CMK	TAL BUF

Client Sample ID: B-6 (0-4')

Date Collected: 06/17/15 15:15

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-3

Matrix: Solid

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			249163	06/18/15 12:00	RAS	TAL BUF
Total/NA	Analysis	8260C		1	249221	06/20/15 18:53	RAS	TAL BUF
Total/NA	Prep	3550C			248974	06/19/15 07:50	CAM	TAL BUF
Total/NA	Analysis	8270D		5	249824	06/24/15 00:23	LMW	TAL BUF
Total/NA	Prep	3550C			248972	06/19/15 07:45	CAM	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Client Sample ID: B-6 (0-4')

Date Collected: 06/17/15 15:15

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-3

Matrix: Solid

Percent Solids: 82.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081B		1	249353	06/22/15 15:07	JRL	TAL BUF
Total/NA	Prep	3550C			248833	06/18/15 11:52	VNP	TAL BUF
Total/NA	Analysis	8082A		1	248914	06/19/15 00:11	KS	TAL BUF
Total/NA	Prep	3050B			248969	06/19/15 09:15	TAS	TAL BUF
Total/NA	Analysis	6010C		1	249308	06/19/15 23:19	AMH	TAL BUF
Total/NA	Prep	7471B			249041	06/19/15 11:25	LRK	TAL BUF
Total/NA	Analysis	7471B		1	249309	06/19/15 13:58	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	249096	06/19/15 12:01	CMK	TAL BUF

Client Sample ID: B-7 (0.5-6')

Date Collected: 06/17/15 15:25

Date Received: 06/18/15 09:30

Lab Sample ID: 480-82460-4

Matrix: Solid

Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			249163	06/18/15 12:00	RAS	TAL BUF
Total/NA	Analysis	8260C		1	249221	06/20/15 19:19	RAS	TAL BUF
Total/NA	Prep	3550C			248974	06/19/15 07:50	CAM	TAL BUF
Total/NA	Analysis	8270D		1	249824	06/24/15 00:49	LMW	TAL BUF
Total/NA	Prep	3550C			248972	06/19/15 07:45	CAM	TAL BUF
Total/NA	Analysis	8081B		1	249353	06/22/15 13:02	JRL	TAL BUF
Total/NA	Prep	3550C			248833	06/18/15 11:52	VNP	TAL BUF
Total/NA	Analysis	8082A		1	248914	06/19/15 00:27	KS	TAL BUF
Total/NA	Prep	3050B			248969	06/19/15 09:15	TAS	TAL BUF
Total/NA	Analysis	6010C		1	249308	06/19/15 23:22	AMH	TAL BUF
Total/NA	Prep	7471B			249041	06/19/15 11:25	LRK	TAL BUF
Total/NA	Analysis	7471B		1	249309	06/19/15 14:00	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	249096	06/19/15 12:01	CMK	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TestAmerica Buffalo

Certification Summary

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New Jersey	NELAP	2	NY455	06-30-15 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

New York	NELAP	2	10026	03-31-16
----------	-------	---	-------	----------

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Method Summary

Client: CHA Inc

TestAmerica Job ID: 480-82460-1

Project/Site: William Paterson Athletic Field - Wayne

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: CHA Inc

Project/Site: William Paterson Athletic Field - Wayne

TestAmerica Job ID: 480-82460-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-82460-1	B-1 (0.5-4')	Solid	06/17/15 12:25	06/18/15 09:30
480-82460-2	B-2 (2-6')	Solid	06/17/15 11:15	06/18/15 09:30
480-82460-3	B-6 (0-4')	Solid	06/17/15 15:15	06/18/15 09:30
480-82460-4	B-7 (0.5-6')	Solid	06/17/15 15:25	06/18/15 09:30

Regulatory Program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other:		Project Manager: Seth Fowler		Site Contact: Justin King		Date: 6/17/15		COC No: 1 of 1 COCs	
Tel/Fax:		Lab Contact:		Carrier: Fedex		Sampler: Justin King		For Lab Use Only:	
<input type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from Below:		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Walk-in Client:		Lab Sampling:		Job / SDG No.: 48012105	
Company Name: CHA		Address: 3 Wanner's Circle		City/State/Zip: Albany, NY 12205		Project Name: William Paterson Athletic Field		Sample Specific Notes:	
Phone:		Site: Wassaic, NY		P.O. #: 30059.1001.4200		Sample Identification:			
Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.	
6/17/15		1225		C		S		7	
6/17/15		1115		C		S		7	
6/17/15		1515		C		S		7	
6/17/15		1325		C		S		7	
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other		Possible Hazard Identification:		Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.		Special Instructions/QC Requirements & Comments:			
<input checked="" type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant		<input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Custody Seal No.:		Cooler Temp. (°C): Obs'd:		Therm ID No.:	
Relinquished by:		Company: CHA		Date/Time: 6/17/15 1300		Received by:		Company:	
Relinquished by:		Company:		Date/Time:		Received by:		Company: TA Buff	
Relinquished by:		Company:		Date/Time:		Received in Laboratory by:		Date/Time: 6/18/15 0930	



480-82460 Chain of Custody

#1 25

Login Sample Receipt Checklist

Client: CHA Inc

Job Number: 480-82460-1

Login Number: 82460

List Source: TestAmerica Buffalo

List Number: 1

Creator: Robison, Zachary J

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	6/18/15 1200
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CHA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-82545-1

Client Project/Site: William Paterson Athletic Field - Wayne,

For:

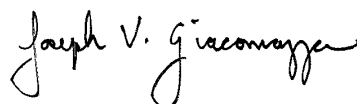
CHA Inc

111 Winner Circle

PO BOX 5269

Albany, New York 12205-0269

Attn: Mr. Seth Fowler



Authorized for release by:

7/2/2015 10:53:35 AM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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

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

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

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	14
QC Sample Results	16
QC Association Summary	28
Lab Chronicle	31
Certification Summary	33
Method Summary	34
Sample Summary	35
Chain of Custody	36
Receipt Checklists	37



Definitions/Glossary

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Job ID: 480-82545-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-82545-1

Receipt

The samples were received on 6/19/2015 2:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-249221 recovered above the upper control limit for 2-Butanone (MEK), 2-Hexanone, and Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: B-4 (0-4) (480-82545-2).

Method(s) 8260C: The laboratory control sample (LCS) for batch preparation batch 480-249163 and analytical batch 480-249221 recovered outside control limits for the following analyte: Cyclohexane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The method blank for 480-249523 contained 2-Butanone above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. The following sample is impacted: B-3 (2-6) (480-82545-1)

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

GC/MS Semi VOA

Method(s) 8270D: The following samples were diluted due to appearance and viscosity: B-3 (2-6) (480-82545-1) and B-4 (0-4) (480-82545-2). Elevated reporting limits (RL) are provided.

Method(s) 8270D: The following analytes recovered outside control limits for the LCS associated with preparation batch 480-249573 and analytical batch 480-250249: Biphenyl and Acetophenone. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

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

GC Semi VOA

Method(s) 8081B: The following samples were diluted due to color and the nature of the sample matrix: B-4 (0-4) (480-82545-2). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

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

Metals

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

Organic Prep

Method(s) 3550C: The following sample: B-4 (0-4) (480-82545-2) was decanted prior to preparation .

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

Detection Summary

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Client Sample ID: B-3 (2-6)

Lab Sample ID: 480-82545-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	3.2	J B	13	0.97	ug/Kg	1		✱	8260C	Total/NA
Acetone	20		13	2.2	ug/Kg	1		✱	8260C	Total/NA
4,4'-DDE	0.63	J	1.9	0.40	ug/Kg	1		✱	8081B	Total/NA
alpha-BHC	0.53	J	1.9	0.34	ug/Kg	1		✱	8081B	Total/NA
Arsenic	2.6		2.2	0.44	mg/Kg	1		✱	6010C	Total/NA
Barium	37.3		0.55	0.12	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.061	J	0.22	0.033	mg/Kg	1		✱	6010C	Total/NA
Chromium	11.3		0.55	0.22	mg/Kg	1		✱	6010C	Total/NA
Lead	6.3		1.1	0.27	mg/Kg	1		✱	6010C	Total/NA

Client Sample ID: B-4 (0-4)

Lab Sample ID: 480-82545-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Butanone (MEK)	3.9	J	14	1.0	ug/Kg	1		✱	8260C	Total/NA
Acetone	20		14	2.4	ug/Kg	1		✱	8260C	Total/NA
4,4'-DDE	5.2	J	18	3.7	ug/Kg	10		✱	8081B	Total/NA
Arsenic	5.0		2.1	0.42	mg/Kg	1		✱	6010C	Total/NA
Barium	35.3		0.53	0.12	mg/Kg	1		✱	6010C	Total/NA
Cadmium	0.063	J	0.21	0.032	mg/Kg	1		✱	6010C	Total/NA
Chromium	14.5		0.53	0.21	mg/Kg	1		✱	6010C	Total/NA
Lead	10.3		1.1	0.25	mg/Kg	1		✱	6010C	Total/NA
Mercury	0.025		0.020	0.0080	mg/Kg	1			7471B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Client Sample ID: B-3 (2-6)

Date Collected: 06/18/15 12:10

Date Received: 06/19/15 02:05

Lab Sample ID: 480-82545-1

Matrix: Solid

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0080	mg/Kg		06/22/15 13:40	06/22/15 15:06	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	13		0.10	0.10	%			06/19/15 12:01	1
Percent Solids	87		0.10	0.10	%			06/19/15 12:01	1

Client Sample ID: B-3 (2-6)

Date Collected: 06/18/15 12:10

Date Received: 06/19/15 02:05

Lab Sample ID: 480-82545-1

Matrix: Solid

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.7	0.19	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
1,1,2,2-Tetrachloroethane	ND		2.7	0.43	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
1,1,2-Trichloroethane	ND		2.7	0.35	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.7	0.61	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
1,1-Dichloroethane	ND		2.7	0.32	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
1,1-Dichloroethene	ND		2.7	0.33	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
1,2,4-Trichlorobenzene	ND		2.7	0.16	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
1,2-Dibromo-3-Chloropropane	ND		2.7	1.3	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
1,2-Dichlorobenzene	ND		2.7	0.21	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
1,2-Dichloroethane	ND		2.7	0.13	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
1,2-Dichloropropane	ND		2.7	1.3	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
1,3-Dichlorobenzene	ND		2.7	0.14	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
1,4-Dichlorobenzene	ND		2.7	0.37	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
2-Butanone (MEK)	3.2	J B	13	0.97	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
2-Hexanone	ND		13	1.3	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
4-Methyl-2-pentanone (MIBK)	ND		13	0.87	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Acetone	20		13	2.2	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Benzene	ND		2.7	0.13	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Bromodichloromethane	ND		2.7	0.36	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Bromoform	ND		2.7	1.3	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Bromomethane	ND		2.7	0.24	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Carbon disulfide	ND		2.7	1.3	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Carbon tetrachloride	ND		2.7	0.26	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Chlorobenzene	ND		2.7	0.35	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Dibromochloromethane	ND		2.7	0.34	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Chloroethane	ND		2.7	0.60	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Chloroform	ND		2.7	0.16	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Chloromethane	ND		2.7	0.16	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
cis-1,2-Dichloroethene	ND		2.7	0.34	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
cis-1,3-Dichloropropene	ND		2.7	0.38	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Cyclohexane	ND		2.7	0.37	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Dichlorodifluoromethane	ND		2.7	0.22	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Ethylbenzene	ND		2.7	0.18	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
1,2-Dibromoethane	ND		2.7	0.34	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Isopropylbenzene	ND		2.7	0.40	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Methyl acetate	ND		2.7	1.6	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Methyl tert-butyl ether	ND		2.7	0.26	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Client Sample ID: B-3 (2-6)

Date Collected: 06/18/15 12:10

Date Received: 06/19/15 02:05

Lab Sample ID: 480-82545-1

Matrix: Solid

Percent Solids: 87.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	ND		2.7	0.40	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Methylene Chloride	ND		2.7	1.2	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Styrene	ND		2.7	0.13	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Tetrachloroethene	ND		2.7	0.36	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Toluene	ND		2.7	0.20	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
trans-1,2-Dichloroethene	ND		2.7	0.27	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
trans-1,3-Dichloropropene	ND		2.7	1.2	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Trichloroethene	ND		2.7	0.59	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Trichlorofluoromethane	ND		2.7	0.25	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Vinyl chloride	ND		2.7	0.32	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1
Xylenes, Total	ND		5.3	0.45	ug/Kg	☼	06/19/15 11:30	06/23/15 06:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		71 - 125	06/19/15 11:30	06/23/15 06:07	1
1,2-Dichloroethane-d4 (Surr)	116		64 - 126	06/19/15 11:30	06/23/15 06:07	1
4-Bromofluorobenzene (Surr)	103		72 - 126	06/19/15 11:30	06/23/15 06:07	1
Dibromofluoromethane (Surr)	112		60 - 140	06/19/15 11:30	06/23/15 06:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND	*	960	140	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
bis (2-chloroisopropyl) ether	ND		960	190	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
2,4,5-Trichlorophenol	ND		960	260	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
2,4,6-Trichlorophenol	ND		960	190	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
2,4-Dichlorophenol	ND		960	100	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
2,4-Dimethylphenol	ND		960	230	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
2,4-Dinitrophenol	ND		9300	4400	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
2,4-Dinitrotoluene	ND		960	200	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
2,6-Dinitrotoluene	ND		960	110	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
2-Chloronaphthalene	ND		960	160	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
2-Chlorophenol	ND		960	170	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
2-Methylphenol	ND		960	110	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
2-Methylnaphthalene	ND		960	190	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
2-Nitroaniline	ND		1900	140	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
2-Nitrophenol	ND		960	270	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
3,3'-Dichlorobenzidine	ND		1900	1100	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
3-Nitroaniline	ND		1900	260	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
4,6-Dinitro-2-methylphenol	ND		1900	960	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
4-Bromophenyl phenyl ether	ND		960	140	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
4-Chloro-3-methylphenol	ND		960	240	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
4-Chloroaniline	ND		960	240	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
4-Chlorophenyl phenyl ether	ND		960	120	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
4-Methylphenol	ND		1900	110	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
4-Nitroaniline	ND		1900	500	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
4-Nitrophenol	ND		1900	670	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Acenaphthene	ND		960	140	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Acenaphthylene	ND		960	120	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Acetophenone	ND	*	960	130	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Anthracene	ND		960	240	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Atrazine	ND		960	330	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Client Sample ID: B-3 (2-6)

Date Collected: 06/18/15 12:10

Date Received: 06/19/15 02:05

Lab Sample ID: 480-82545-1

Matrix: Solid

Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	ND		960	760	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Benzo[a]anthracene	ND		960	96	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Benzo[a]pyrene	ND		960	140	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Benzo[b]fluoranthene	ND		960	150	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Benzo[g,h,i]perylene	ND		960	100	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Benzo[k]fluoranthene	ND		960	120	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Bis(2-chloroethoxy)methane	ND		960	200	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Bis(2-chloroethyl)ether	ND		960	120	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Bis(2-ethylhexyl) phthalate	ND		960	330	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Butyl benzyl phthalate	ND		960	160	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Caprolactam	ND		960	290	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Carbazole	ND		960	110	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Chrysene	ND		960	210	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Dibenz(a,h)anthracene	ND		960	170	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Di-n-butyl phthalate	ND		960	160	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Di-n-octyl phthalate	ND		960	110	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Dibenzofuran	ND		960	110	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Diethyl phthalate	ND		960	120	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Dimethyl phthalate	ND		960	110	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Fluoranthene	ND		960	100	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Fluorene	ND		960	110	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Hexachlorobenzene	ND		960	130	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Hexachlorobutadiene	ND		960	140	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Hexachlorocyclopentadiene	ND		960	130	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Hexachloroethane	ND		960	120	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Indeno[1,2,3-cd]pyrene	ND		960	120	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Isophorone	ND		960	200	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
N-Nitrosodi-n-propylamine	ND		960	160	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
N-Nitrosodiphenylamine	ND		960	780	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Naphthalene	ND		960	120	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Nitrobenzene	ND		960	110	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Pentachlorophenol	ND		1900	960	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Phenanthrene	ND		960	140	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Phenol	ND		960	150	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5
Pyrene	ND		960	110	ug/Kg	☼	06/23/15 08:35	06/26/15 01:41	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	60		34 - 132	06/23/15 08:35	06/26/15 01:41	5
Phenol-d5 (Surr)	63		11 - 120	06/23/15 08:35	06/26/15 01:41	5
p-Terphenyl-d14 (Surr)	71		65 - 153	06/23/15 08:35	06/26/15 01:41	5
2,4,6-Tribromophenol (Surr)	56		39 - 146	06/23/15 08:35	06/26/15 01:41	5
2-Fluorobiphenyl	61		37 - 120	06/23/15 08:35	06/26/15 01:41	5
2-Fluorophenol (Surr)	61		18 - 120	06/23/15 08:35	06/26/15 01:41	5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.9	0.37	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
4,4'-DDE	0.63	J	1.9	0.40	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
4,4'-DDT	ND		1.9	0.44	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
Aldrin	ND		1.9	0.46	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Client Sample ID: B-3 (2-6)

Date Collected: 06/18/15 12:10

Date Received: 06/19/15 02:05

Lab Sample ID: 480-82545-1

Matrix: Solid

Percent Solids: 87.2

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.53	J	1.9	0.34	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
alpha-Chlordane	ND		1.9	0.94	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
beta-BHC	ND		1.9	0.34	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
delta-BHC	ND		1.9	0.35	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
Dieldrin	ND		1.9	0.45	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
Endosulfan I	ND		1.9	0.36	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
Endosulfan II	ND		1.9	0.34	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
Endosulfan sulfate	ND		1.9	0.35	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
Endrin	ND		1.9	0.37	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
Endrin aldehyde	ND		1.9	0.48	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
Endrin ketone	ND		1.9	0.46	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
gamma-BHC (Lindane)	ND		1.9	0.35	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
gamma-Chlordane	ND		1.9	0.60	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
Heptachlor	ND		1.9	0.41	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
Heptachlor epoxide	ND		1.9	0.49	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
Methoxychlor	ND		1.9	0.38	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1
Toxaphene	ND		19	11	ug/Kg	☼	06/20/15 09:05	06/22/15 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	87		32 - 136	06/20/15 09:05	06/22/15 12:43	1
Tetrachloro-m-xylene	80		30 - 124	06/20/15 09:05	06/22/15 12:43	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		200	39	ug/Kg	☼	06/20/15 14:06	06/22/15 19:56	1
PCB-1221	ND		200	39	ug/Kg	☼	06/20/15 14:06	06/22/15 19:56	1
PCB-1232	ND		200	39	ug/Kg	☼	06/20/15 14:06	06/22/15 19:56	1
PCB-1242	ND		200	39	ug/Kg	☼	06/20/15 14:06	06/22/15 19:56	1
PCB-1248	ND		200	39	ug/Kg	☼	06/20/15 14:06	06/22/15 19:56	1
PCB-1254	ND		200	93	ug/Kg	☼	06/20/15 14:06	06/22/15 19:56	1
PCB-1260	ND		200	93	ug/Kg	☼	06/20/15 14:06	06/22/15 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		60 - 154	06/20/15 14:06	06/22/15 19:56	1
DCB Decachlorobiphenyl	90		65 - 174	06/20/15 14:06	06/22/15 19:56	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		2.2	0.44	mg/Kg	☼	06/19/15 14:17	06/22/15 14:16	1
Barium	37.3		0.55	0.12	mg/Kg	☼	06/19/15 14:17	06/22/15 14:16	1
Cadmium	0.061	J	0.22	0.033	mg/Kg	☼	06/19/15 14:17	06/22/15 14:16	1
Chromium	11.3		0.55	0.22	mg/Kg	☼	06/19/15 14:17	06/22/15 14:16	1
Lead	6.3		1.1	0.27	mg/Kg	☼	06/19/15 14:17	06/22/15 14:16	1
Selenium	ND		4.4	0.44	mg/Kg	☼	06/19/15 14:17	06/22/15 14:16	1
Silver	ND		0.66	0.22	mg/Kg	☼	06/19/15 14:17	06/22/15 14:16	1

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Client Sample ID: B-4 (0-4)

Date Collected: 06/18/15 10:20

Date Received: 06/19/15 02:05

Lab Sample ID: 480-82545-2

Matrix: Solid

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.020	0.0080	mg/Kg		06/22/15 13:40	06/22/15 15:08	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.5		0.10	0.10	%			06/19/15 12:01	1
Percent Solids	92		0.10	0.10	%			06/19/15 12:01	1

Client Sample ID: B-4 (0-4)

Date Collected: 06/18/15 10:20

Date Received: 06/19/15 02:05

Lab Sample ID: 480-82545-2

Matrix: Solid

Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.8	0.20	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
1,1,2,2-Tetrachloroethane	ND		2.8	0.46	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
1,1,2-Trichloroethane	ND		2.8	0.37	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.8	0.64	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
1,1-Dichloroethane	ND		2.8	0.34	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
1,1-Dichloroethene	ND		2.8	0.35	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
1,2,4-Trichlorobenzene	ND		2.8	0.17	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
1,2-Dibromo-3-Chloropropane	ND		2.8	1.4	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
1,2-Dichlorobenzene	ND		2.8	0.22	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
1,2-Dichloroethane	ND		2.8	0.14	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
1,2-Dichloropropane	ND		2.8	1.4	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
1,3-Dichlorobenzene	ND		2.8	0.15	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
1,4-Dichlorobenzene	ND		2.8	0.40	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
2-Butanone (MEK)	3.9	J	14	1.0	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
2-Hexanone	ND		14	1.4	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
4-Methyl-2-pentanone (MIBK)	ND		14	0.93	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Acetone	20		14	2.4	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Benzene	ND		2.8	0.14	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Bromodichloromethane	ND		2.8	0.38	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Bromoform	ND		2.8	1.4	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Bromomethane	ND		2.8	0.25	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Carbon disulfide	ND		2.8	1.4	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Carbon tetrachloride	ND		2.8	0.27	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Chlorobenzene	ND		2.8	0.37	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Dibromochloromethane	ND		2.8	0.36	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Chloroethane	ND		2.8	0.64	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Chloroform	ND		2.8	0.17	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Chloromethane	ND		2.8	0.17	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
cis-1,2-Dichloroethene	ND		2.8	0.36	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
cis-1,3-Dichloropropene	ND		2.8	0.41	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Cyclohexane	ND	*	2.8	0.40	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Dichlorodifluoromethane	ND		2.8	0.23	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Ethylbenzene	ND		2.8	0.19	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
1,2-Dibromoethane	ND		2.8	0.36	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Isopropylbenzene	ND		2.8	0.43	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Methyl acetate	ND		2.8	1.7	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Methyl tert-butyl ether	ND		2.8	0.28	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Client Sample ID: B-4 (0-4)

Date Collected: 06/18/15 10:20

Date Received: 06/19/15 02:05

Lab Sample ID: 480-82545-2

Matrix: Solid

Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	ND		2.8	0.43	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Methylene Chloride	ND		2.8	1.3	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Styrene	ND		2.8	0.14	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Tetrachloroethene	ND		2.8	0.38	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Toluene	ND		2.8	0.21	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
trans-1,2-Dichloroethene	ND		2.8	0.29	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
trans-1,3-Dichloropropene	ND		2.8	1.2	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Trichloroethene	ND		2.8	0.62	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Trichlorofluoromethane	ND		2.8	0.27	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Vinyl chloride	ND		2.8	0.34	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1
Xylenes, Total	ND		5.6	0.47	ug/Kg	☼	06/19/15 11:30	06/20/15 20:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		71 - 125	06/19/15 11:30	06/20/15 20:11	1
1,2-Dichloroethane-d4 (Surr)	114		64 - 126	06/19/15 11:30	06/20/15 20:11	1
4-Bromofluorobenzene (Surr)	95		72 - 126	06/19/15 11:30	06/20/15 20:11	1
Dibromofluoromethane (Surr)	107		60 - 140	06/19/15 11:30	06/20/15 20:11	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND	*	920	140	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
bis (2-chloroisopropyl) ether	ND		920	180	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
2,4,5-Trichlorophenol	ND		920	250	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
2,4,6-Trichlorophenol	ND		920	180	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
2,4-Dichlorophenol	ND		920	97	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
2,4-Dimethylphenol	ND		920	220	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
2,4-Dinitrophenol	ND		9000	4200	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
2,4-Dinitrotoluene	ND		920	190	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
2,6-Dinitrotoluene	ND		920	110	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
2-Chloronaphthalene	ND		920	150	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
2-Chlorophenol	ND		920	170	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
2-Methylphenol	ND		920	110	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
2-Methylnaphthalene	ND		920	180	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
2-Nitroaniline	ND		1800	140	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
2-Nitrophenol	ND		920	260	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
3,3'-Dichlorobenzidine	ND		1800	1100	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
3-Nitroaniline	ND		1800	250	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
4,6-Dinitro-2-methylphenol	ND		1800	920	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
4-Bromophenyl phenyl ether	ND		920	130	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
4-Chloro-3-methylphenol	ND		920	230	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
4-Chloroaniline	ND		920	230	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
4-Chlorophenyl phenyl ether	ND		920	110	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
4-Methylphenol	ND		1800	110	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
4-Nitroaniline	ND		1800	480	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
4-Nitrophenol	ND		1800	640	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Acenaphthene	ND		920	140	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Acenaphthylene	ND		920	120	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Acetophenone	ND	*	920	120	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Anthracene	ND		920	230	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Atrazine	ND		920	320	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Client Sample ID: B-4 (0-4)

Date Collected: 06/18/15 10:20

Date Received: 06/19/15 02:05

Lab Sample ID: 480-82545-2

Matrix: Solid

Percent Solids: 92.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzaldehyde	ND		920	730	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Benzo[a]anthracene	ND		920	92	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Benzo[a]pyrene	ND		920	140	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Benzo[b]fluoranthene	ND		920	150	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Benzo[g,h,i]perylene	ND		920	97	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Benzo[k]fluoranthene	ND		920	120	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Bis(2-chloroethoxy)methane	ND		920	190	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Bis(2-chloroethyl)ether	ND		920	120	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Bis(2-ethylhexyl) phthalate	ND		920	310	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Butyl benzyl phthalate	ND		920	150	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Caprolactam	ND		920	280	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Carbazole	ND		920	110	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Chrysene	ND		920	210	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Dibenz(a,h)anthracene	ND		920	160	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Di-n-butyl phthalate	ND		920	160	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Di-n-octyl phthalate	ND		920	110	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Dibenzofuran	ND		920	110	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Diethyl phthalate	ND		920	120	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Dimethyl phthalate	ND		920	110	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Fluoranthene	ND		920	97	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Fluorene	ND		920	110	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Hexachlorobenzene	ND		920	120	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Hexachlorobutadiene	ND		920	140	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Hexachlorocyclopentadiene	ND		920	120	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Hexachloroethane	ND		920	120	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Indeno[1,2,3-cd]pyrene	ND		920	110	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Isophorone	ND		920	190	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
N-Nitrosodi-n-propylamine	ND		920	160	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
N-Nitrosodiphenylamine	ND		920	750	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Naphthalene	ND		920	120	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Nitrobenzene	ND		920	100	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Pentachlorophenol	ND		1800	920	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Phenanthrene	ND		920	140	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Phenol	ND		920	140	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5
Pyrene	ND		920	110	ug/Kg	☼	06/23/15 08:35	06/26/15 02:08	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	57		34 - 132	06/23/15 08:35	06/26/15 02:08	5
Phenol-d5 (Surr)	58		11 - 120	06/23/15 08:35	06/26/15 02:08	5
p-Terphenyl-d14 (Surr)	69		65 - 153	06/23/15 08:35	06/26/15 02:08	5
2,4,6-Tribromophenol (Surr)	52		39 - 146	06/23/15 08:35	06/26/15 02:08	5
2-Fluorobiphenyl	63		37 - 120	06/23/15 08:35	06/26/15 02:08	5
2-Fluorophenol (Surr)	58		18 - 120	06/23/15 08:35	06/26/15 02:08	5

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		18	3.5	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
4,4'-DDE	5.2	J	18	3.7	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
4,4'-DDT	ND		18	4.2	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
Aldrin	ND		18	4.4	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10

TestAmerica Buffalo

Client Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Client Sample ID: B-4 (0-4)

Date Collected: 06/18/15 10:20

Date Received: 06/19/15 02:05

Lab Sample ID: 480-82545-2

Matrix: Solid

Percent Solids: 92.5

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND		18	3.2	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
alpha-Chlordane	ND		18	8.9	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
beta-BHC	ND		18	3.2	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
delta-BHC	ND		18	3.3	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
Dieldrin	ND		18	4.3	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
Endosulfan I	ND		18	3.4	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
Endosulfan II	ND		18	3.2	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
Endosulfan sulfate	ND		18	3.3	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
Endrin	ND		18	3.5	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
Endrin aldehyde	ND		18	4.6	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
Endrin ketone	ND		18	4.4	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
gamma-BHC (Lindane)	ND		18	3.3	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
gamma-Chlordane	ND		18	5.7	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
Heptachlor	ND		18	3.9	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
Heptachlor epoxide	ND		18	4.6	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
Methoxychlor	ND		18	3.6	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10
Toxaphene	ND		180	100	ug/Kg	☼	06/20/15 09:05	06/22/15 13:01	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	0	X	32 - 136	06/20/15 09:05	06/22/15 13:01	10
Tetrachloro-m-xylene	115		30 - 124	06/20/15 09:05	06/22/15 13:01	10

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		260	51	ug/Kg	☼	06/20/15 14:06	06/22/15 20:12	1
PCB-1221	ND		260	51	ug/Kg	☼	06/20/15 14:06	06/22/15 20:12	1
PCB-1232	ND		260	51	ug/Kg	☼	06/20/15 14:06	06/22/15 20:12	1
PCB-1242	ND		260	51	ug/Kg	☼	06/20/15 14:06	06/22/15 20:12	1
PCB-1248	ND		260	51	ug/Kg	☼	06/20/15 14:06	06/22/15 20:12	1
PCB-1254	ND		260	120	ug/Kg	☼	06/20/15 14:06	06/22/15 20:12	1
PCB-1260	ND		260	120	ug/Kg	☼	06/20/15 14:06	06/22/15 20:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		60 - 154	06/20/15 14:06	06/22/15 20:12	1
DCB Decachlorobiphenyl	85		65 - 174	06/20/15 14:06	06/22/15 20:12	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		2.1	0.42	mg/Kg	☼	06/19/15 14:17	06/22/15 14:19	1
Barium	35.3		0.53	0.12	mg/Kg	☼	06/19/15 14:17	06/22/15 14:19	1
Cadmium	0.063	J	0.21	0.032	mg/Kg	☼	06/19/15 14:17	06/22/15 14:19	1
Chromium	14.5		0.53	0.21	mg/Kg	☼	06/19/15 14:17	06/22/15 14:19	1
Lead	10.3		1.1	0.25	mg/Kg	☼	06/19/15 14:17	06/22/15 14:19	1
Selenium	ND		4.2	0.42	mg/Kg	☼	06/19/15 14:17	06/22/15 14:19	1
Silver	ND		0.64	0.21	mg/Kg	☼	06/19/15 14:17	06/22/15 14:19	1

TestAmerica Buffalo

Surrogate Summary

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (71-125)	12DCE (64-126)	BFB (72-126)	DBFM (60-140)
480-82545-1	B-3 (2-6)	97	116	103	112
480-82545-2	B-4 (0-4)	99	114	95	107
LCS 480-249163/1-A	Lab Control Sample	99	101	101	99
LCS 480-249523/1-A	Lab Control Sample	98	100	98	101
MB 480-249163/2-A	Method Blank	100	102	98	100
MB 480-249523/2-A	Method Blank	98	102	101	104

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (34-132)	PHL (11-120)	TPH (65-153)	TBP (39-146)	FBP (37-120)	2FP (18-120)
480-82545-1	B-3 (2-6)	60	63	71	56	61	61
480-82545-2	B-4 (0-4)	57	58	69	52	63	58
LCS 480-249573/2-A	Lab Control Sample	59	64	71	68	64	60
MB 480-249573/1-A	Method Blank	67	69	87	65	71	68

Surrogate Legend

NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB2 (32-136)	TCX2 (30-124)
480-82545-1	B-3 (2-6)	87	80
480-82545-1 MS	B-3 (2-6)	84	77
480-82545-1 MSD	B-3 (2-6)	87	79
480-82545-2	B-4 (0-4)	0 X	115
LCS 480-249220/2-A	Lab Control Sample	88	82
MB 480-249220/1-A	Method Blank	91	84

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

TestAmerica Buffalo

Surrogate Summary

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (60-154)	DCB2 (65-174)
480-82545-1	B-3 (2-6)	100	90
480-82545-2	B-4 (0-4)	96	85
LCS 480-249253/2-A	Lab Control Sample	111	119
MB 480-249253/1-A	Method Blank	104	104

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

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

Lab Sample ID: MB 480-249163/2-A

Matrix: Solid

Analysis Batch: 249221

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 249163

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.9	0.36	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.80	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,1,2-Trichloroethane	ND		4.9	0.64	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,1-Dichloroethane	ND		4.9	0.60	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.5	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,2-Dichlorobenzene	ND		4.9	0.39	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,2-Dichloroethane	ND		4.9	0.25	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,2-Dichloropropane	ND		4.9	2.5	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,3-Dichlorobenzene	ND		4.9	0.25	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,4-Dichlorobenzene	ND		4.9	0.69	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
2-Hexanone	ND		25	2.5	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Acetone	ND		25	4.2	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Benzene	ND		4.9	0.24	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Bromodichloromethane	ND		4.9	0.66	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Bromoform	ND		4.9	2.5	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Bromomethane	ND		4.9	0.44	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Carbon disulfide	ND		4.9	2.5	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Carbon tetrachloride	ND		4.9	0.48	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Chlorobenzene	ND		4.9	0.65	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Dibromochloromethane	ND		4.9	0.63	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Chloroethane	ND		4.9	1.1	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Chloroform	ND		4.9	0.31	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Chloromethane	ND		4.9	0.30	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
cis-1,2-Dichloroethene	ND		4.9	0.63	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
cis-1,3-Dichloropropene	ND		4.9	0.71	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Cyclohexane	ND		4.9	0.69	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Dichlorodifluoromethane	ND		4.9	0.41	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Ethylbenzene	ND		4.9	0.34	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
1,2-Dibromoethane	ND		4.9	0.63	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Isopropylbenzene	ND		4.9	0.75	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Methyl acetate	ND		4.9	3.0	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Methyl tert-butyl ether	ND		4.9	0.49	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Methylcyclohexane	ND		4.9	0.75	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Methylene Chloride	5.97		4.9	2.3	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Styrene	ND		4.9	0.25	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Tetrachloroethene	ND		4.9	0.66	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Toluene	ND		4.9	0.37	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
trans-1,2-Dichloroethene	ND		4.9	0.51	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
trans-1,3-Dichloropropene	ND		4.9	2.2	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Trichloroethene	ND		4.9	1.1	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Trichlorofluoromethane	ND		4.9	0.47	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Vinyl chloride	ND		4.9	0.60	ug/Kg		06/19/15 15:47	06/20/15 13:00	1
Xylenes, Total	ND		9.9	0.83	ug/Kg		06/19/15 15:47	06/20/15 13:00	1

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		71 - 125	06/19/15 15:47	06/20/15 13:00	1
1,2-Dichloroethane-d4 (Surr)	102		64 - 126	06/19/15 15:47	06/20/15 13:00	1
4-Bromofluorobenzene (Surr)	98		72 - 126	06/19/15 15:47	06/20/15 13:00	1
Dibromofluoromethane (Surr)	100		60 - 140	06/19/15 15:47	06/20/15 13:00	1

Lab Sample ID: LCS 480-249163/1-A
Matrix: Solid
Analysis Batch: 249221

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	49.5	54.2		ug/Kg		110	77 - 121
1,1,2,2-Tetrachloroethane	49.5	56.6		ug/Kg		114	80 - 120
1,1,2-Trichloroethane	49.5	53.2		ug/Kg		107	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	49.5	53.8		ug/Kg		109	60 - 140
1,1-Dichloroethane	49.5	51.5		ug/Kg		104	73 - 126
1,1-Dichloroethene	49.5	52.8		ug/Kg		107	59 - 125
1,2,4-Trichlorobenzene	49.5	57.2		ug/Kg		115	64 - 120
1,2-Dibromo-3-Chloropropane	49.5	53.3		ug/Kg		108	63 - 124
1,2-Dichlorobenzene	49.5	52.5		ug/Kg		106	75 - 120
1,2-Dichloroethane	49.5	51.0		ug/Kg		103	77 - 122
1,2-Dichloropropane	49.5	53.0		ug/Kg		107	75 - 124
1,3-Dichlorobenzene	49.5	51.4		ug/Kg		104	74 - 120
1,4-Dichlorobenzene	49.5	51.4		ug/Kg		104	73 - 120
2-Butanone (MEK)	248	311		ug/Kg		126	70 - 134
2-Hexanone	248	311		ug/Kg		126	59 - 130
4-Methyl-2-pentanone (MIBK)	248	301		ug/Kg		122	65 - 133
Acetone	248	295		ug/Kg		119	61 - 137
Benzene	49.5	52.0		ug/Kg		105	79 - 127
Bromodichloromethane	49.5	55.8		ug/Kg		113	80 - 122
Bromoform	49.5	47.5		ug/Kg		96	68 - 126
Bromomethane	49.5	53.9		ug/Kg		109	37 - 149
Carbon disulfide	49.5	54.8		ug/Kg		111	64 - 131
Carbon tetrachloride	49.5	56.1		ug/Kg		113	75 - 135
Chlorobenzene	49.5	50.1		ug/Kg		101	76 - 124
Dibromochloromethane	49.5	48.1		ug/Kg		97	76 - 125
Chloroethane	49.5	56.7		ug/Kg		115	69 - 135
Chloroform	49.5	50.5		ug/Kg		102	80 - 118
Chloromethane	49.5	52.3		ug/Kg		106	63 - 127
cis-1,2-Dichloroethene	49.5	52.1		ug/Kg		105	81 - 117
cis-1,3-Dichloropropene	49.5	56.3		ug/Kg		114	82 - 120
Cyclohexane	49.5	54.5	*	ug/Kg		110	65 - 106
Dichlorodifluoromethane	49.5	59.1		ug/Kg		119	57 - 142
Ethylbenzene	49.5	52.1		ug/Kg		105	80 - 120
1,2-Dibromoethane	49.5	54.6		ug/Kg		110	78 - 120
Isopropylbenzene	49.5	54.4		ug/Kg		110	72 - 120
Methyl acetate	248	291		ug/Kg		118	55 - 136
Methyl tert-butyl ether	49.5	56.2		ug/Kg		114	63 - 125
Methylcyclohexane	49.5	52.7		ug/Kg		106	60 - 140
Methylene Chloride	49.5	52.6		ug/Kg		106	61 - 127
Styrene	49.5	53.9		ug/Kg		109	80 - 120
Tetrachloroethene	49.5	50.4		ug/Kg		102	74 - 122
Toluene	49.5	51.2		ug/Kg		103	74 - 128
trans-1,2-Dichloroethene	49.5	51.0		ug/Kg		103	78 - 126

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

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

Lab Sample ID: LCS 480-249163/1-A

Matrix: Solid

Analysis Batch: 249221

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249163

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	49.5	52.3		ug/Kg		106	77 - 129
Trichlorofluoromethane	49.5	50.3		ug/Kg		102	65 - 146
Vinyl chloride	49.5	54.4		ug/Kg		110	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	99		71 - 125
1,2-Dichloroethane-d4 (Surr)	101		64 - 126
4-Bromofluorobenzene (Surr)	101		72 - 126
Dibromofluoromethane (Surr)	99		60 - 140

Lab Sample ID: MB 480-249523/2-A

Matrix: Solid

Analysis Batch: 249513

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 249523

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.9	0.36	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.80	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
1,1,2-Trichloroethane	ND		4.9	0.64	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
1,1-Dichloroethane	ND		4.9	0.60	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.5	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
1,2-Dichlorobenzene	ND		4.9	0.39	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
1,2-Dichloroethane	ND		4.9	0.25	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
1,2-Dichloropropane	ND		4.9	2.5	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
1,3-Dichlorobenzene	ND		4.9	0.25	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
1,4-Dichlorobenzene	ND		4.9	0.69	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
2-Butanone (MEK)	4.86	J	25	1.8	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
2-Hexanone	ND		25	2.5	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Acetone	ND		25	4.2	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Benzene	ND		4.9	0.24	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Bromodichloromethane	ND		4.9	0.66	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Bromoform	ND		4.9	2.5	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Bromomethane	ND		4.9	0.44	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Carbon disulfide	ND		4.9	2.5	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Carbon tetrachloride	ND		4.9	0.48	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Chlorobenzene	ND		4.9	0.65	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Dibromochloromethane	ND		4.9	0.63	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Chloroethane	ND		4.9	1.1	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Chloroform	ND		4.9	0.30	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Chloromethane	ND		4.9	0.30	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
cis-1,2-Dichloroethene	ND		4.9	0.63	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
cis-1,3-Dichloropropene	ND		4.9	0.71	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Cyclohexane	ND		4.9	0.69	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Dichlorodifluoromethane	ND		4.9	0.41	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Ethylbenzene	ND		4.9	0.34	ug/Kg		06/22/15 22:19	06/23/15 00:20	1

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

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

Lab Sample ID: MB 480-249523/2-A

Matrix: Solid

Analysis Batch: 249513

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 249523

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		4.9	0.63	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Isopropylbenzene	ND		4.9	0.74	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Methyl acetate	ND		4.9	3.0	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Methyl tert-butyl ether	ND		4.9	0.48	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Methylcyclohexane	ND		4.9	0.75	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Methylene Chloride	ND		4.9	2.3	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Styrene	ND		4.9	0.25	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Tetrachloroethene	ND		4.9	0.66	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Toluene	ND		4.9	0.37	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
trans-1,2-Dichloroethene	ND		4.9	0.51	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
trans-1,3-Dichloropropene	ND		4.9	2.2	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Trichloroethene	ND		4.9	1.1	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Trichlorofluoromethane	ND		4.9	0.47	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Vinyl chloride	ND		4.9	0.60	ug/Kg		06/22/15 22:19	06/23/15 00:20	1
Xylenes, Total	ND		9.9	0.83	ug/Kg		06/22/15 22:19	06/23/15 00:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		71 - 125	06/22/15 22:19	06/23/15 00:20	1
1,2-Dichloroethane-d4 (Surr)	102		64 - 126	06/22/15 22:19	06/23/15 00:20	1
4-Bromofluorobenzene (Surr)	101		72 - 126	06/22/15 22:19	06/23/15 00:20	1
Dibromofluoromethane (Surr)	104		60 - 140	06/22/15 22:19	06/23/15 00:20	1

Lab Sample ID: LCS 480-249523/1-A

Matrix: Solid

Analysis Batch: 249513

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	49.5	46.7		ug/Kg		94	77 - 121
1,1,2,2-Tetrachloroethane	49.5	46.0		ug/Kg		93	80 - 120
1,1,2-Trichloroethane	49.5	45.6		ug/Kg		92	78 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	49.5	46.3		ug/Kg		94	60 - 140
1,1-Dichloroethane	49.5	46.3		ug/Kg		94	73 - 126
1,1-Dichloroethene	49.5	45.9		ug/Kg		93	59 - 125
1,2,4-Trichlorobenzene	49.5	45.2		ug/Kg		91	64 - 120
1,2-Dibromo-3-Chloropropane	49.5	46.9		ug/Kg		95	63 - 124
1,2-Dichlorobenzene	49.5	42.3		ug/Kg		85	75 - 120
1,2-Dichloroethane	49.5	45.2		ug/Kg		91	77 - 122
1,2-Dichloropropane	49.5	46.3		ug/Kg		94	75 - 124
1,3-Dichlorobenzene	49.5	42.8		ug/Kg		86	74 - 120
1,4-Dichlorobenzene	49.5	42.6		ug/Kg		86	73 - 120
2-Butanone (MEK)	248	250		ug/Kg		101	70 - 134
2-Hexanone	248	247		ug/Kg		100	59 - 130
4-Methyl-2-pentanone (MIBK)	248	240		ug/Kg		97	65 - 133
Acetone	248	256		ug/Kg		103	61 - 137
Benzene	49.5	45.9		ug/Kg		93	79 - 127
Bromodichloromethane	49.5	47.3		ug/Kg		95	80 - 122
Bromoform	49.5	48.4		ug/Kg		98	68 - 126

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

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

Lab Sample ID: LCS 480-249523/1-A

Matrix: Solid

Analysis Batch: 249513

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249523

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	49.5	46.5		ug/Kg		94	37 - 149
Carbon disulfide	49.5	46.5		ug/Kg		94	64 - 131
Carbon tetrachloride	49.5	48.5		ug/Kg		98	75 - 135
Chlorobenzene	49.5	44.6		ug/Kg		90	76 - 124
Dibromochloromethane	49.5	47.9		ug/Kg		97	76 - 125
Chloroethane	49.5	47.6		ug/Kg		96	69 - 135
Chloroform	49.5	45.6		ug/Kg		92	80 - 118
Chloromethane	49.5	44.6		ug/Kg		90	63 - 127
cis-1,2-Dichloroethene	49.5	46.0		ug/Kg		93	81 - 117
cis-1,3-Dichloropropene	49.5	47.8		ug/Kg		96	82 - 120
Cyclohexane	49.5	48.2		ug/Kg		97	65 - 106
Dichlorodifluoromethane	49.5	37.7		ug/Kg		76	57 - 142
Ethylbenzene	49.5	45.3		ug/Kg		92	80 - 120
1,2-Dibromoethane	49.5	45.8		ug/Kg		92	78 - 120
Isopropylbenzene	49.5	45.9		ug/Kg		93	72 - 120
Methyl acetate	248	239		ug/Kg		96	55 - 136
Methyl tert-butyl ether	49.5	47.1		ug/Kg		95	63 - 125
Methylcyclohexane	49.5	47.2		ug/Kg		95	60 - 140
Methylene Chloride	49.5	45.5		ug/Kg		92	61 - 127
Styrene	49.5	45.2		ug/Kg		91	80 - 120
Tetrachloroethene	49.5	42.7		ug/Kg		86	74 - 122
Toluene	49.5	44.6		ug/Kg		90	74 - 128
trans-1,2-Dichloroethene	49.5	45.8		ug/Kg		93	78 - 126
Trichloroethene	49.5	46.1		ug/Kg		93	77 - 129
Trichlorofluoromethane	49.5	46.8		ug/Kg		95	65 - 146
Vinyl chloride	49.5	48.0		ug/Kg		97	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	98		71 - 125
1,2-Dichloroethane-d4 (Surr)	100		64 - 126
4-Bromofluorobenzene (Surr)	98		72 - 126
Dibromofluoromethane (Surr)	101		60 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-249573/1-A

Matrix: Solid

Analysis Batch: 250249

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 249573

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biphenyl	ND		170	24	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
bis (2-chloroisopropyl) ether	ND		170	33	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
2,4,5-Trichlorophenol	ND		170	45	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
2,4,6-Trichlorophenol	ND		170	33	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
2,4-Dichlorophenol	ND		170	18	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
2,4-Dimethylphenol	ND		170	40	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
2,4-Dinitrophenol	ND		1600	770	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
2,4-Dinitrotoluene	ND		170	34	ug/Kg		06/23/15 08:35	06/25/15 23:30	1

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-249573/1-A

Matrix: Solid

Analysis Batch: 250249

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 249573

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,6-Dinitrotoluene	ND		170	20	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
2-Chloronaphthalene	ND		170	27	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
2-Chlorophenol	ND		170	30	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
2-Methylphenol	ND		170	20	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
2-Methylnaphthalene	ND		170	33	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
2-Nitroaniline	ND		320	24	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
2-Nitrophenol	ND		170	47	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
3,3'-Dichlorobenzidine	ND		320	200	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
3-Nitroaniline	ND		320	46	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
4,6-Dinitro-2-methylphenol	ND		320	170	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
4-Bromophenyl phenyl ether	ND		170	23	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
4-Chloro-3-methylphenol	ND		170	41	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
4-Chloroaniline	ND		170	41	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
4-Chlorophenyl phenyl ether	ND		170	20	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
4-Methylphenol	ND		320	20	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
4-Nitroaniline	ND		320	87	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
4-Nitrophenol	ND		320	120	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Acenaphthene	ND		170	24	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Acenaphthylene	ND		170	21	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Acetophenone	ND		170	22	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Anthracene	ND		170	41	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Atrazine	ND		170	58	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Benzaldehyde	ND		170	130	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Benzo[a]anthracene	ND		170	17	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Benzo[a]pyrene	ND		170	24	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Benzo[b]fluoranthene	ND		170	26	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Benzo[k]fluoranthene	ND		170	21	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Bis(2-chloroethoxy)methane	ND		170	35	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Bis(2-chloroethyl)ether	ND		170	21	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Bis(2-ethylhexyl) phthalate	ND		170	57	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Butyl benzyl phthalate	ND		170	27	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Caprolactam	ND		170	50	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Carbazole	ND		170	20	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Chrysene	ND		170	37	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Dibenz(a,h)anthracene	ND		170	29	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Di-n-butyl phthalate	ND		170	28	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Di-n-octyl phthalate	ND		170	20	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Dibenzofuran	ND		170	20	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Diethyl phthalate	ND		170	21	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Dimethyl phthalate	ND		170	20	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Fluoranthene	ND		170	18	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Fluorene	ND		170	20	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Hexachlorobenzene	ND		170	22	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Hexachlorobutadiene	ND		170	24	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Hexachlorocyclopentadiene	ND		170	22	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Hexachloroethane	ND		170	21	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Indeno[1,2,3-cd]pyrene	ND		170	20	ug/Kg		06/23/15 08:35	06/25/15 23:30	1

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-249573/1-A

Matrix: Solid

Analysis Batch: 250249

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 249573

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	ND		170	35	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
N-Nitrosodi-n-propylamine	ND		170	28	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
N-Nitrosodiphenylamine	ND		170	130	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Naphthalene	ND		170	21	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Nitrobenzene	ND		170	19	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Pentachlorophenol	ND		320	170	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Phenanthrene	ND		170	24	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Phenol	ND		170	25	ug/Kg		06/23/15 08:35	06/25/15 23:30	1
Pyrene	ND		170	20	ug/Kg		06/23/15 08:35	06/25/15 23:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	67		34 - 132	06/23/15 08:35	06/25/15 23:30	1
Phenol-d5 (Surr)	69		11 - 120	06/23/15 08:35	06/25/15 23:30	1
p-Terphenyl-d14 (Surr)	87		65 - 153	06/23/15 08:35	06/25/15 23:30	1
2,4,6-Tribromophenol (Surr)	65		39 - 146	06/23/15 08:35	06/25/15 23:30	1
2-Fluorobiphenyl	71		37 - 120	06/23/15 08:35	06/25/15 23:30	1
2-Fluorophenol (Surr)	68		18 - 120	06/23/15 08:35	06/25/15 23:30	1

Lab Sample ID: LCS 480-249573/2-A

Matrix: Solid

Analysis Batch: 250249

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249573

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2,4-Dinitrotoluene	1660	1150		ug/Kg		69	55 - 125
2-Chlorophenol	1660	988		ug/Kg		59	38 - 120
4-Chloro-3-methylphenol	1660	1200		ug/Kg		72	49 - 125
4-Nitrophenol	3320	2340		ug/Kg		70	43 - 137
Acenaphthene	1660	1110		ug/Kg		67	53 - 120
Atrazine	3320	2410		ug/Kg		73	60 - 164
Bis(2-ethylhexyl) phthalate	1660	1230		ug/Kg		74	61 - 133
Fluorene	1660	1150		ug/Kg		69	63 - 126
Hexachloroethane	1660	829		ug/Kg		50	41 - 120
N-Nitrosodi-n-propylamine	1660	1070		ug/Kg		64	46 - 120
Pentachlorophenol	3320	1860		ug/Kg		56	33 - 136
Phenol	1660	1060		ug/Kg		64	36 - 120
Pyrene	1660	1160		ug/Kg		70	51 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5 (Surr)	59		34 - 132
Phenol-d5 (Surr)	64		11 - 120
p-Terphenyl-d14 (Surr)	71		65 - 153
2,4,6-Tribromophenol (Surr)	68		39 - 146
2-Fluorobiphenyl	64		37 - 120
2-Fluorophenol (Surr)	60		18 - 120

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-249220/1-A

Matrix: Solid

Analysis Batch: 249329

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 249220

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		1.6	0.31	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
4,4'-DDE	ND		1.6	0.34	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
4,4'-DDT	ND		1.6	0.38	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
Aldrin	ND		1.6	0.40	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
alpha-BHC	ND		1.6	0.29	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
alpha-Chlordane	ND		1.6	0.80	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
beta-BHC	ND		1.6	0.29	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
delta-BHC	ND		1.6	0.30	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
Dieldrin	ND		1.6	0.39	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
Endosulfan I	ND		1.6	0.31	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
Endosulfan II	ND		1.6	0.29	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
Endosulfan sulfate	ND		1.6	0.30	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
Endrin	ND		1.6	0.32	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
Endrin aldehyde	ND		1.6	0.41	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
Endrin ketone	ND		1.6	0.40	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
gamma-BHC (Lindane)	ND		1.6	0.30	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
gamma-Chlordane	ND		1.6	0.51	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
Heptachlor	ND		1.6	0.35	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
Heptachlor epoxide	ND		1.6	0.42	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
Methoxychlor	ND		1.6	0.33	ug/Kg		06/20/15 09:05	06/22/15 11:29	1
Toxaphene	ND		16	9.4	ug/Kg		06/20/15 09:05	06/22/15 11:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	91		32 - 136	06/20/15 09:05	06/22/15 11:29	1
Tetrachloro-m-xylene	84		30 - 124	06/20/15 09:05	06/22/15 11:29	1

Lab Sample ID: LCS 480-249220/2-A

Matrix: Solid

Analysis Batch: 249329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249220

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	16.6	14.1		ug/Kg		85	52 - 138
4,4'-DDE	16.6	13.9		ug/Kg		84	52 - 131
4,4'-DDT	16.6	14.1		ug/Kg		85	50 - 131
Aldrin	16.6	13.2		ug/Kg		80	35 - 120
alpha-BHC	16.6	13.5		ug/Kg		82	49 - 120
alpha-Chlordane	16.6	12.7		ug/Kg		77	40 - 133
beta-BHC	16.6	12.4		ug/Kg		75	52 - 127
delta-BHC	16.6	12.5		ug/Kg		76	45 - 123
Dieldrin	16.6	14.9		ug/Kg		90	50 - 131
Endosulfan I	16.6	13.9		ug/Kg		84	43 - 121
Endosulfan II	16.6	14.7		ug/Kg		89	48 - 134
Endosulfan sulfate	16.6	14.6		ug/Kg		88	46 - 144
Endrin	16.6	15.4		ug/Kg		93	46 - 134
Endrin aldehyde	16.6	12.6		ug/Kg		76	31 - 137
Endrin ketone	16.6	14.6		ug/Kg		88	44 - 140
gamma-BHC (Lindane)	16.6	13.9		ug/Kg		84	50 - 120
gamma-Chlordane	16.6	13.5		ug/Kg		81	52 - 129

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 480-249220/2-A

Matrix: Solid

Analysis Batch: 249329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249220

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor	16.6	14.5		ug/Kg		87	51 - 121
Heptachlor epoxide	16.6	14.4		ug/Kg		87	52 - 129
Methoxychlor	16.6	15.6		ug/Kg		94	50 - 149

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	88		32 - 136
Tetrachloro-m-xylene	82		30 - 124

Lab Sample ID: 480-82545-1 MS

Matrix: Solid

Analysis Batch: 249329

Client Sample ID: B-3 (2-6)

Prep Type: Total/NA

Prep Batch: 249220

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		18.9	15.9		ug/Kg	☼	84	26 - 162
4,4'-DDE	0.63	J	18.9	15.6		ug/Kg	☼	79	34 - 138
4,4'-DDT	ND		18.9	15.9		ug/Kg	☼	84	43 - 131
Aldrin	ND		18.9	14.5		ug/Kg	☼	77	37 - 125
alpha-BHC	0.53	J	18.9	14.7		ug/Kg	☼	75	39 - 117
alpha-Chlordane	ND		18.9	14.1		ug/Kg	☼	75	29 - 141
beta-BHC	ND		18.9	13.6		ug/Kg	☼	72	36 - 139
delta-BHC	ND		18.9	14.1		ug/Kg	☼	74	23 - 132
Dieldrin	ND		18.9	16.3		ug/Kg	☼	86	38 - 135
Endosulfan I	ND		18.9	15.2		ug/Kg	☼	80	39 - 128
Endosulfan II	ND		18.9	16.4		ug/Kg	☼	87	24 - 134
Endosulfan sulfate	ND		18.9	16.1		ug/Kg	☼	85	19 - 137
Endrin	ND		18.9	16.9		ug/Kg	☼	89	41 - 147
Endrin aldehyde	ND		18.9	13.4		ug/Kg	☼	71	20 - 120
Endrin ketone	ND		18.9	15.8		ug/Kg	☼	84	31 - 139
gamma-BHC (Lindane)	ND		18.9	15.2		ug/Kg	☼	80	50 - 120
gamma-Chlordane	ND		18.9	14.5		ug/Kg	☼	72	31 - 140
Heptachlor	ND		18.9	15.6		ug/Kg	☼	82	42 - 128
Heptachlor epoxide	ND		18.9	15.8		ug/Kg	☼	83	26 - 141
Methoxychlor	ND		18.9	17.7		ug/Kg	☼	94	44 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	84		32 - 136
Tetrachloro-m-xylene	77		30 - 124

Lab Sample ID: 480-82545-1 MSD

Matrix: Solid

Analysis Batch: 249329

Client Sample ID: B-3 (2-6)

Prep Type: Total/NA

Prep Batch: 249220

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
4,4'-DDD	ND		18.8	16.2		ug/Kg	☼	86	26 - 162	2	21
4,4'-DDE	0.63	J	18.8	15.7		ug/Kg	☼	80	34 - 138	1	18
4,4'-DDT	ND		18.8	16.5		ug/Kg	☼	88	43 - 131	4	25
Aldrin	ND		18.8	14.4		ug/Kg	☼	76	37 - 125	0	12
alpha-BHC	0.53	J	18.8	14.8		ug/Kg	☼	76	39 - 117	1	15

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 480-82545-1 MSD

Matrix: Solid

Analysis Batch: 249329

Client Sample ID: B-3 (2-6)

Prep Type: Total/NA

Prep Batch: 249220

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
alpha-Chlordane	ND		18.8	14.4		ug/Kg	☼	76	29 - 141	2	23
beta-BHC	ND		18.8	13.7		ug/Kg	☼	73	36 - 139	1	19
delta-BHC	ND		18.8	14.1		ug/Kg	☼	75	23 - 132	0	14
Dieldrin	ND		18.8	16.6		ug/Kg	☼	88	38 - 135	2	12
Endosulfan I	ND		18.8	15.4		ug/Kg	☼	82	39 - 128	1	18
Endosulfan II	ND		18.8	16.6		ug/Kg	☼	89	24 - 134	1	26
Endosulfan sulfate	ND		18.8	16.3		ug/Kg	☼	87	19 - 137	2	35
Endrin	ND		18.8	17.2		ug/Kg	☼	91	41 - 147	2	20
Endrin aldehyde	ND		18.8	12.8		ug/Kg	☼	68	20 - 120	5	47
Endrin ketone	ND		18.8	16.3		ug/Kg	☼	86	31 - 139	3	37
gamma-BHC (Lindane)	ND		18.8	15.4		ug/Kg	☼	82	50 - 120	1	12
gamma-Chlordane	ND		18.8	14.8		ug/Kg	☼	74	31 - 140	2	15
Heptachlor	ND		18.8	15.6		ug/Kg	☼	83	42 - 128	0	22
Heptachlor epoxide	ND		18.8	15.8		ug/Kg	☼	84	26 - 141	0	15
Methoxychlor	ND		18.8	18.4		ug/Kg	☼	98	44 - 157	4	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	87		32 - 136
Tetrachloro-m-xylene	79		30 - 124

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-249253/1-A

Matrix: Solid

Analysis Batch: 249493

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 249253

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		250	49	ug/Kg		06/20/15 14:06	06/22/15 18:21	1
PCB-1221	ND		250	49	ug/Kg		06/20/15 14:06	06/22/15 18:21	1
PCB-1232	ND		250	49	ug/Kg		06/20/15 14:06	06/22/15 18:21	1
PCB-1242	ND		250	49	ug/Kg		06/20/15 14:06	06/22/15 18:21	1
PCB-1248	ND		250	49	ug/Kg		06/20/15 14:06	06/22/15 18:21	1
PCB-1254	ND		250	120	ug/Kg		06/20/15 14:06	06/22/15 18:21	1
PCB-1260	ND		250	120	ug/Kg		06/20/15 14:06	06/22/15 18:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	104		60 - 154	06/20/15 14:06	06/22/15 18:21	1
DCB Decachlorobiphenyl	104		65 - 174	06/20/15 14:06	06/22/15 18:21	1

Lab Sample ID: LCS 480-249253/2-A

Matrix: Solid

Analysis Batch: 249493

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249253

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2430	2940		ug/Kg		121	51 - 185
PCB-1260	2430	3150		ug/Kg		130	61 - 184

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 480-249253/2-A
Matrix: Solid
Analysis Batch: 249493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249253

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	111		60 - 154
DCB Decachlorobiphenyl	119		65 - 174

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-249119/1-A
Matrix: Solid
Analysis Batch: 249450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249119

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		2.0	0.39	mg/Kg		06/19/15 14:17	06/22/15 13:52	1
Barium	ND		0.49	0.11	mg/Kg		06/19/15 14:17	06/22/15 13:52	1
Cadmium	ND		0.20	0.029	mg/Kg		06/19/15 14:17	06/22/15 13:52	1
Chromium	ND		0.49	0.20	mg/Kg		06/19/15 14:17	06/22/15 13:52	1
Lead	ND		0.98	0.23	mg/Kg		06/19/15 14:17	06/22/15 13:52	1
Selenium	ND		3.9	0.39	mg/Kg		06/19/15 14:17	06/22/15 13:52	1
Silver	ND		0.59	0.20	mg/Kg		06/19/15 14:17	06/22/15 13:52	1

Lab Sample ID: LCSSRM 480-249119/2-A
Matrix: Solid
Analysis Batch: 249450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 249119

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	122	96.65		mg/Kg		79.2	70.0 - 145. 1
Barium	167	140.4		mg/Kg		84.1	73.1 - 126. 9
Cadmium	88.0	68.54		mg/Kg		77.9	73.3 - 127. 3
Chromium	102	85.11		mg/Kg		83.4	69.4 - 130. 4
Lead	94.5	88.98		mg/Kg		94.2	70.5 - 129. 1
Selenium	157	128.3		mg/Kg		81.7	67.5 - 131. 8
Silver	34.2	27.24		mg/Kg		79.7	65.5 - 134. 2

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 480-249419/1-A
Matrix: Solid
Analysis Batch: 249578

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 249419

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.0081	mg/Kg		06/22/15 13:40	06/22/15 14:44	1

TestAmerica Buffalo

QC Sample Results

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) (Continued)

Lab Sample ID: LCSSRM 480-249419/2-A

Matrix: Solid

Analysis Batch: 249578

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 249419

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	3.98	3.48		mg/Kg		87.4	51.0 - 149. 0

QC Association Summary

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

GC/MS VOA

Prep Batch: 249163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82545-2	B-4 (0-4)	Total/NA	Solid	5035A	
LCS 480-249163/1-A	Lab Control Sample	Total/NA	Solid	5035A	
MB 480-249163/2-A	Method Blank	Total/NA	Solid	5035A	

Analysis Batch: 249221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82545-2	B-4 (0-4)	Total/NA	Solid	8260C	249163
LCS 480-249163/1-A	Lab Control Sample	Total/NA	Solid	8260C	249163
MB 480-249163/2-A	Method Blank	Total/NA	Solid	8260C	249163

Analysis Batch: 249513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82545-1	B-3 (2-6)	Total/NA	Solid	8260C	249523
LCS 480-249523/1-A	Lab Control Sample	Total/NA	Solid	8260C	249523
MB 480-249523/2-A	Method Blank	Total/NA	Solid	8260C	249523

Prep Batch: 249523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82545-1	B-3 (2-6)	Total/NA	Solid	5035A	
LCS 480-249523/1-A	Lab Control Sample	Total/NA	Solid	5035A	
MB 480-249523/2-A	Method Blank	Total/NA	Solid	5035A	

GC/MS Semi VOA

Prep Batch: 249573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82545-1	B-3 (2-6)	Total/NA	Solid	3550C	
480-82545-2	B-4 (0-4)	Total/NA	Solid	3550C	
LCS 480-249573/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-249573/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 250249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82545-1	B-3 (2-6)	Total/NA	Solid	8270D	249573
480-82545-2	B-4 (0-4)	Total/NA	Solid	8270D	249573
LCS 480-249573/2-A	Lab Control Sample	Total/NA	Solid	8270D	249573
MB 480-249573/1-A	Method Blank	Total/NA	Solid	8270D	249573

GC Semi VOA

Prep Batch: 249220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82545-1	B-3 (2-6)	Total/NA	Solid	3550C	
480-82545-1 MS	B-3 (2-6)	Total/NA	Solid	3550C	
480-82545-1 MSD	B-3 (2-6)	Total/NA	Solid	3550C	
480-82545-2	B-4 (0-4)	Total/NA	Solid	3550C	
LCS 480-249220/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-249220/1-A	Method Blank	Total/NA	Solid	3550C	

TestAmerica Buffalo

QC Association Summary

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

GC Semi VOA (Continued)

Prep Batch: 249253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82545-1	B-3 (2-6)	Total/NA	Solid	3550C	
480-82545-2	B-4 (0-4)	Total/NA	Solid	3550C	
LCS 480-249253/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 480-249253/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 249329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82545-1	B-3 (2-6)	Total/NA	Solid	8081B	249220
480-82545-1 MS	B-3 (2-6)	Total/NA	Solid	8081B	249220
480-82545-1 MSD	B-3 (2-6)	Total/NA	Solid	8081B	249220
480-82545-2	B-4 (0-4)	Total/NA	Solid	8081B	249220
LCS 480-249220/2-A	Lab Control Sample	Total/NA	Solid	8081B	249220
MB 480-249220/1-A	Method Blank	Total/NA	Solid	8081B	249220

Analysis Batch: 249493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82545-1	B-3 (2-6)	Total/NA	Solid	8082A	249253
480-82545-2	B-4 (0-4)	Total/NA	Solid	8082A	249253
LCS 480-249253/2-A	Lab Control Sample	Total/NA	Solid	8082A	249253
MB 480-249253/1-A	Method Blank	Total/NA	Solid	8082A	249253

Metals

Prep Batch: 249119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82545-1	B-3 (2-6)	Total/NA	Solid	3050B	
480-82545-2	B-4 (0-4)	Total/NA	Solid	3050B	
LCSSRM 480-249119/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 480-249119/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 249419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82545-1	B-3 (2-6)	Total/NA	Solid	7471B	
480-82545-2	B-4 (0-4)	Total/NA	Solid	7471B	
LCSSRM 480-249419/2-A	Lab Control Sample	Total/NA	Solid	7471B	
MB 480-249419/1-A	Method Blank	Total/NA	Solid	7471B	

Analysis Batch: 249450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82545-1	B-3 (2-6)	Total/NA	Solid	6010C	249119
480-82545-2	B-4 (0-4)	Total/NA	Solid	6010C	249119
LCSSRM 480-249119/2-A	Lab Control Sample	Total/NA	Solid	6010C	249119
MB 480-249119/1-A	Method Blank	Total/NA	Solid	6010C	249119

Analysis Batch: 249578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82545-1	B-3 (2-6)	Total/NA	Solid	7471B	249419
480-82545-2	B-4 (0-4)	Total/NA	Solid	7471B	249419
LCSSRM 480-249419/2-A	Lab Control Sample	Total/NA	Solid	7471B	249419
MB 480-249419/1-A	Method Blank	Total/NA	Solid	7471B	249419

TestAmerica Buffalo

QC Association Summary

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

General Chemistry

Analysis Batch: 249096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-82545-1	B-3 (2-6)	Total/NA	Solid	Moisture	
480-82545-2	B-4 (0-4)	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Client Sample ID: B-3 (2-6)

Date Collected: 06/18/15 12:10

Date Received: 06/19/15 02:05

Lab Sample ID: 480-82545-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			249419	06/22/15 13:40	LRK	TAL BUF
Total/NA	Analysis	7471B		1	249578	06/22/15 15:06	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	249096	06/19/15 12:01	CMK	TAL BUF

Client Sample ID: B-3 (2-6)

Date Collected: 06/18/15 12:10

Date Received: 06/19/15 02:05

Lab Sample ID: 480-82545-1

Matrix: Solid

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			249523	06/19/15 11:30	CDC	TAL BUF
Total/NA	Analysis	8260C		1	249513	06/23/15 06:07	NQN	TAL BUF
Total/NA	Prep	3550C			249573	06/23/15 08:35	RJS	TAL BUF
Total/NA	Analysis	8270D		5	250249	06/26/15 01:41	LMW	TAL BUF
Total/NA	Prep	3550C			249220	06/20/15 09:05	RMZ	TAL BUF
Total/NA	Analysis	8081B		1	249329	06/22/15 12:43	MAN	TAL BUF
Total/NA	Prep	3550C			249253	06/20/15 14:06	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	249493	06/22/15 19:56	KS	TAL BUF
Total/NA	Prep	3050B			249119	06/19/15 14:17	CMM	TAL BUF
Total/NA	Analysis	6010C		1	249450	06/22/15 14:16	AMH	TAL BUF

Client Sample ID: B-4 (0-4)

Date Collected: 06/18/15 10:20

Date Received: 06/19/15 02:05

Lab Sample ID: 480-82545-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			249419	06/22/15 13:40	LRK	TAL BUF
Total/NA	Analysis	7471B		1	249578	06/22/15 15:08	LRK	TAL BUF
Total/NA	Analysis	Moisture		1	249096	06/19/15 12:01	CMK	TAL BUF

Client Sample ID: B-4 (0-4)

Date Collected: 06/18/15 10:20

Date Received: 06/19/15 02:05

Lab Sample ID: 480-82545-2

Matrix: Solid

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A			249163	06/19/15 11:30	RAS	TAL BUF
Total/NA	Analysis	8260C		1	249221	06/20/15 20:11	RAS	TAL BUF
Total/NA	Prep	3550C			249573	06/23/15 08:35	RJS	TAL BUF
Total/NA	Analysis	8270D		5	250249	06/26/15 02:08	LMW	TAL BUF
Total/NA	Prep	3550C			249220	06/20/15 09:05	RMZ	TAL BUF
Total/NA	Analysis	8081B		10	249329	06/22/15 13:01	MAN	TAL BUF
Total/NA	Prep	3550C			249253	06/20/15 14:06	RMZ	TAL BUF
Total/NA	Analysis	8082A		1	249493	06/22/15 20:12	KS	TAL BUF
Total/NA	Prep	3050B			249119	06/19/15 14:17	CMM	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Client Sample ID: B-4 (0-4)

Date Collected: 06/18/15 10:20

Date Received: 06/19/15 02:05

Lab Sample ID: 480-82545-2

Matrix: Solid

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010C		1	249450	06/22/15 14:19	AMH	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New Jersey	NELAP	2	NY455	06-30-15 *

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

New York	NELAP	2	10026	03-31-16
----------	-------	---	-------	----------

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Method Summary

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: CHA Inc
Project/Site: William Paterson Athletic Field - Wayne,

TestAmerica Job ID: 480-82545-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-82545-1	B-3 (2-6)	Solid	06/18/15 12:10	06/19/15 02:05
480-82545-2	B-4 (0-4)	Solid	06/18/15 10:20	06/19/15 02:05

1

2

3

4

5

6

7

8

9

10

11

12

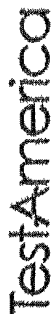
13

14

15

Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record



DISCUSSION: THE LEADER IN ENVIRONMENTAL TESTING

[illegible]

Login Sample Receipt Checklist

Client: CHA Inc

Job Number: 480-82545-1

Login Number: 82545

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kinecki, Kenneth P

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	6/19/15 1130
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CHA
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	