Weston & Sampson Engineers, Inc.
Five Centennial Drive
Peabody, Massachusetts 01960-7985
www.westonandsampson.com
Tel: (978)532-1900 Fax: (978)977-0100

Innovative Solutions since 1899

MEMORANDUM

TO: Brandon Riley – Weston & Sampson

FROM: Craig Miner - Weston & Sampson

DATE: July 17, 2015

SUBJECT: **Whitmore Field Facility, Newton, Massachusetts** Newton Highlands Playground
Sample result summary

The purpose of this memo is to summarize the results of our sampling/analytical testing of building materials at Whitmore Field located at the intersection of Dedham Street and Upland Avenue in Newton, Massachusetts. The Site consists of a trailer used to house athletic equipment and a concrete building containing bathrooms plus a concession stand. There is also a standalone metal storage unit on the property.

Asbestos Survey

The asbestos sampling was performed by Massachusetts-licensed asbestos inspector Mr. Craig Miner on May 29, 2015. A total of 32 samples of suspect asbestos-containing materials were collected. We performed the bulk sampling in the area according to methods outlined in the U.S. Environmental Protection Agency (EPA) guidance document titled, "Guidance for Controlling Asbestos-Containing Materials in Buildings" (Document No. 560/5-85/024). The results of the sampling are summarized below.

The following ACMs were identified:

Material	Location
Tan window caulk	Trailer exterior
White window caulk	Trailer exterior
Seam caulk	Trailer exterior

No asbestos was detected within samples collected by Weston & Sampson of the following materials:

- White door caulk – trailer
- Textured wall – concrete building
- Window glazing – trailer
- Tar paper under shingle – concrete building
- Black roofing tar/felt – trailer
- Roof shingle – concrete building
- Door caulk – concrete building
- Beige floor tile and associated mastic/backing – trailer

Weston & Sampson Engineers, Inc.
Five Centennial Drive
Peabody, Massachusetts 01960-7985
www.westonandsampson.com
Tel: (978)532-1900 Fax: (978)977-0100

Innovative Solutions since 1899

- Stucco ceiling – trailer
- Sealant on roof – concrete building
- Sealant on roof – trailer

The U.S. Environmental Protection Agency (EPA) defines an Asbestos-Containing Material (ACM) as a material that contains greater than 1 percent (%) asbestos. The Massachusetts Department of Environmental Protection defines an Asbestos-Containing Material (ACM) as a material that contains greater than or equal to 1 percent (%) asbestos. Asbestos was detected in several of the building materials sampled by Weston & Sampson in concentrations greater than or equal to 1%.

The EPA - NESHAP regulations (National Emissions Standard for Hazardous Air Pollutants - 40 CFR Part 61, Subpart M), require that friable ACM, Category I and II non-friable ACM that has become friable, or Category I and II non-friable ACM that will be or has been subject to sanding, grinding, or abrading, be removed from a facility being demolished or renovated prior to any activity that would disturb the material.

The following materials are scheduled to be removed as part of the upcoming renovation project at the facility:

Material	**Location**	**Approximate Quantity**
Tan and white window caulk	Trailer exterior – present on all windows	15 windows ~4x'5'
Seam caulk (vertical seams and perimeter)	Trailer exterior	300 LF

Asbestos Limitations

Our survey did not include an evaluation of underground asbestos cement water/sewer piping, or underground steam lines that may be present at the Site. Limited exploratory demolition was performed to access potentially hidden materials in pipe/other building chases or fire door cores. In addition to the above listed materials, other suspect ACMs may be present at the site that may not have been accessible by Weston & Sampson during our survey. Weston & Sampson investigated for potential asbestos-containing pipe insulation but did not observe any, however the materials may be concealed by existing ceilings and/or walls.

Weston & Sampson recommends that if any suspect materials are uncovered during demolition or renovation activities that were not identified during the survey, that the materials be sampled and analyzed for asbestos content prior to removal.

Polychlorinated Biphenyls (PCB) Survey

Weston & Sampson conducted a limited survey of the Site building for suspect PCB-containing caulking and paint materials. PCB's are regulated under EPA's Toxic Substances Control Act

Weston & Sampson Engineers, Inc.
Five Centennial Drive
Peabody, Massachusetts 01960-7985
www.westonandsampson.com
Tel: (978)532-1900 Fax: (978)977-0100

Innovative Solutions since 1899

(TSCA) regulations (40 CFR Part 761). Caulking and other bulk materials that contain PCBs in concentrations greater than 50 parts per million (ppm) are considered PCB bulk product waste and must be disposed at a facility permitted to accept TSCA waste. Caulking and other bulk materials containing concentrations of PCB's less than 50 ppm are not regulated by TSCA and can be disposed of at a facility permitted to accept the specific concentration of PCBs present in that particular bulk material.

Based on the above referenced limits, none of the materials sampled by Weston & Sampson at the Site will be required to be disposed of at a TSCA permitted facility. Various types and colors of suspect materials were identified within the property and a total of six samples were collected for PCB analysis. These samples were analyzed by Con-Test Analytical Laboratory of East Longmeadow, Massachusetts via EPA Method 8082 with soxhlet extraction. The sample results are summarized below.

PCB Sample Results

Sample Description	Analytical Result (ppm)
P1 –Trailer caulk	Not Detected
P2 –Trailer caulk	Not Detected
P3 –Trailer caulk	Not Detected
P4 –Trailer caulk	Not Detected
P5 – Concrete building caulk	Not Detected
P6 – Concrete building caulk	Not Detected

Lead Paint Screening

On May 29, 2015 Weston & Sampson performed a lead paint screening of the Site buildings. During the screening, we collected paint chip samples from representative painted/coated building components for analysis via Atomic Absorption Spectrometry using method SW846-7420. Samples were analyzed by EMSL Analytical, Inc. of Cinnaminson, New Jersey.

Summary of Findings

The paint screening revealed that none of the paint chip samples collected from the Site building contained levels of lead paint that are greater than the EPA residential standard of 0.50% lead by weight. The results of the samples ranged from <0.010% lead by weight (below the laboratory limit of detection) to 0.017% lead by weight. However, the Occupational Health and Safety Administration (OSHA) Lead in Construction Standard 29 CFR 1926.62 considers any detectable level of lead to be a potential for exposure if dust is generated from disturbances of surfaces coated with paint containing lead.

Weston & Sampson Engineers, Inc.
Five Centennial Drive
Peabody, Massachusetts 01960-7985
www.westonandsampson.com
Tel: (978)532-1900 Fax: (978)977-0100

Innovative Solutions since 1899

Lead Paint Sample Results

Sample ID	Sample Description	Analytical Results (% lead by weight)
L1	Trailer steps	<0.010
L2	Trailer siding	<0.010
L3	Concrete building siding	0.017
L4	Trailer trim	<0.010
L5	Concrete building trim	<0.010
L6	Concrete building interior	<0.010
L7	Concrete building interior	<0.010
L8	Concrete building interior	<0.010

Regulatory Implications and Regulations

Worker Protection

OSHA defines any detectable concentration of lead in paint as a potential lead exposure hazard to workers doing construction/demolition-type work on these surfaces as even small concentrations of lead can result in unacceptable employee exposures depending upon the method of removal and other workplace conditions. Since these conditions can vary greatly, the lead-in-construction standard was written to require exposure monitoring or the use of historical or objective data to ensure that employee exposures do not exceed the Action Level of 30 micrograms per cubic meter of air (µg/m3). Historical data may be applied to some construction tasks involving lead.

OSHA requires that if coated surfaces with paint containing lead are impacted during demolition, then lead exposure monitoring must be performed by the contractor. Contractors and employers of staff who may disturb these materials are obligated to perform a 'negative exposure assessment' in accordance with OSHA regulations in order to document that, although minimal levels of lead are present in these materials, exposure to lead does not exceed the aforementioned OSHA Action Level.

OSHA states that until the employer performs an exposure assessment (or can supply prior data regarding the same type of work which may exempt them from the standard) and documents that employees are not exposed above the permissible exposure limit (PEL) of greater than 50 µg/m3 of air, the employer must treat employees as if they were exposed above the PEL for the following operations:

- manual demolition of structures, manual scraping, manual sanding, and use of heat gun where lead-containing coatings or paints are present;
- abrasive blasting enclosure movement and removal;
- power tool cleaning;
- lead burning;
- using lead-containing mortar or spray painting with lead-containing paint;

Weston & Sampson Engineers, Inc.
Five Centennial Drive
Peabody, Massachusetts 01960-7985
www.westonandsampson.com
Tel: (978)532-1900 Fax: (978)977-0100

Innovative Solutions since 1899

- abrasive blasting, rivet busting, or welding, cutting, or burning on any structure where lead-containing coatings or paint are present;
- cleanup activities where dry expendable abrasive are used; and
- any other task the employer believes may cause exposure in excess of the PEL.

The contractor must provide respiratory protection, protective work clothing and equipment, change areas, hand washing facilities, biological monitoring, and training until an exposure assessment has determined that the work activity will result in an exposure below the PEL. Additional requirements under this standard include a written compliance program as well as record keeping.

Other Hazardous Materials

As part of the survey, Weston & Sampson performed a survey/inventory of potentially hazardous chemicals and mechanical equipment located within the survey area that will require special handling and disposal prior to building renovation / demolition activities. The following hazardous materials were observed within the building:

Material	Quantity	Location
Refrigerator	1	Concrete building
A/C unit	2	Concrete building
Fluorescent light bulbs (4'& 8')	6	Throughout site

OrderID: 201506615

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only):*

201506615

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: Weston tSampson	**EMSL-Bill to:** ☒ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street:	
City: Peabody **State/Province:** MA	**Zip/Postal Code:** **Country:**
Report To (Name): Craig Miner	**Telephone #:**
Email Address: minerc@wseinc.com	**Fax #:** **Purchase Order:**
Project Name/Number: Newton 2150258	**Please Provide Results:** ☐ Fax ☐ Email
U.S. State Samples Taken:	**CT Samples:** ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☒ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide*

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☒ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	Flame Atomic Absorption	0.01%	☐
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300 modified	ICP-AES/ICP-MS	0 5 µg/filter	☐
Wipe* ASTM ☐ non ASTM ☐ *if no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0 3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200 9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0 003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other:				☐

Name of Sampler: **Signature of Sampler:**

Sample #	Location	Volume/Area	Date/Time Sampled
L1	Trailer Steps		
L2	Trailer Siding		
L3	Conc. Bldg Siding		
L4	Trailer Trim		
L5	Conc. Trim		

Client Sample #'s - **Total # of Samples:**

Relinquished (Client): **Date:** **Time:**

Received (Lab): Fedex FX **Date:** 6/3/15 **Time:** 10:21 AM W.I. 900

Comments:

RECEIVED JUN 02 2015 By AM

PLS sign

OrderID: 201506615

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only):*

201506615

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
L6	Conc. Interior		
L7			
L8			

Comments/Special Instructions:

Page 2 of 2 pages

RECEIVED
JUN 02 2015
By AM

OrderID: 201506615

Lead (Pb) Chain of Custody

EMSL Order ID *(Lab Use Only)*: 201506615

EMSL ANALYTICAL, INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE (800) 220-3675
FAX (856) 786-5974

Company: Weston & Sampson	EMSL-Bill to: ☒ Same ☐ Different If Bill to is Different note instructions in Comments**
Street:	*Third Party Billing requires written authorization from third party*
City: Peabody State/Province: MA	Zip/Postal Code: Country:
Report To (Name) Craig Miner	Telephone #:
Email Address: minerc@wsp1a1.com	Fax #: Purchase Order
Project Name/Number Newton 2150258	Please Provide Results: ☐ Fax ☐ Email
U.S. State Samples Taken:	CT Samples: ☐ Commercial/Taxable ☐ Residential/Tax Exempt

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hour | ☐ 6 Hour | ☐ 24 Hour | ☐ 48 Hour | ☒ 72 Hour | ☐ 96 Hour | ☐ 1 Week | ☐ 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips ☒ % by wt. ☐ mg/cm² ☐ ppm	SW846-7000B	Flame Atomic Absorption	0.01%	☐
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	☐
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	☐
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	☐
Wipe* ASTM ☐ non-ASTM ☐ *If no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	☐
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	☐
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe	☐
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	☐
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	☐
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)	☐
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	☐
Wastewater Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	☐
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)	☐
Drinking Water Unpreserved ☐ Preserved with HNO_3 pH < 2 ☐	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	☐
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)	☐
TSP/SPM Filter	40 CFR Part 50	ICP-AES	12 µg/filter	☐
	40 CFR Part 50	Graphite Furnace AA	3.6 µg/filter	☐
Other				☐

Name of Sampler: Signature of Sampler:

Sample #	Location	Volume/Area	Date/Time Sampled
L1	Trailer Steps		
L2	Trailer Siding		
L3	Conc. Bldg Siding		
L4	Trailer Trim		
L5	Conc. Trim		

Client Sample #'s: Total # of Samples:

Relinquished (Client): Craig Miner Date: Time:

Received (Lab): Fedex FX Date: 6/3/15 10:21 AM Time:

Comments: W.I. 9.00

RECEIVED JUN 03 2015 By AM

Page 1 of ___ pages

Page 1 Of 2

Page 3 Of 4

OrderID: 201506615

LEAD (Pb) CHAIN OF CUSTODY

EMSL ORDER ID *(Lab Use Only)*: 201506615

EMSL ANALYTICAL, INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE (800) 220-3675
FAX (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Location	Volume/Area	Date/Time Sampled
L1	Conc. Interior		
L7			
L8			

Comments/Special Instructions

Page 2 of 2 pages

RECEIVED
JUN 02 2015
By AM

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (856) 303-2500 / (856) 786-5974
http://www.EMSL.com cinnaminsonleadlab@emsl.com

EMSL Order:	201506615
CustomerID:	WESA62
CustomerPO:	
ProjectID:	

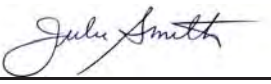
Attn: **Craig Miner**
Weston & Sampson Engineers, Inc.
5 Centennial Drive
Peabody, MA 01960

Phone:	(978) 532-1900
Fax:	(978) 977-0100
Received:	06/03/15 10:21 AM
Collected:	

Project: **Newton 2150258**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Lead* ***Concentration***
L1	*201506615-0001*		6/5/2015	<0.010 % wt
	Site: Trailer Steps			
L2	*201506615-0002*		6/5/2015	<0.010 % wt
	Site: Trailer Siding			
L3	*201506615-0003*		6/5/2015	0.017 % wt
	Site: Conc. Bldg Siding			
L4	*201506615-0004*		6/5/2015	<0.010 % wt
	Site: Trailer Trim			
L5	*201506615-0005*		6/5/2015	<0.010 % wt
	Site: Conc. Trim			
L6	*201506615-0006*		6/5/2015	<0.010 % wt
	Site: Conc. Interior			
L7	*201506615-0007*		6/5/2015	<0.010 % wt
	Site: Conc. Interior			
L8	*201506615-0008*		6/5/2015	<0.010 % wt
	Site: Conc. Interior			



Julie Smith - Laboratory Director
NJ-NELAP Accredited:03036
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 06/06/2015 11:12:46

EMSL Analytical, Inc.
7 Constitution Way, Suite 107, Woburn, MA 01801
Phone/Fax: (781) 933-8411 / (781) 933-8412
http://www.EMSL.com bostonlab@emsl.com

EMSL Order:	131502950
CustomerID:	WESA62
CustomerPO:	
ProjectID:	

Attn: **Craig Miner**
Weston & Sampson Engineers, Inc.
5 Centennial Drive
Peabody, MA 01960

Phone:	(978) 532-1900
Fax:	(978) 977-0100
Received:	06/02/15 9:00 AM
Analysis Date:	6/4/2015
Collected:	

Project: **Newton Pauk 2150258**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos			Asbestos	
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**%**	**Type**
01A *131502950-0001*	Trailer - White Door Caulk	White Non-Fibrous Homogeneous			100% Non-fibrous (other)		**None Detected**
01B *131502950-0002*	Trailer - White Door Caulk	White Non-Fibrous Homogeneous			100% Non-fibrous (other)		**None Detected**
02A *131502950-0003*	Trailer - Tan Window Caulk	Gray Non-Fibrous Homogeneous			95% Non-fibrous (other)	**5%**	**Chrysotile**
02B *131502950-0004*	Trailer - Tan Window Caulk	Gray Non-Fibrous Homogeneous			95% Non-fibrous (other)	**5%**	**Chrysotile**
03A *131502950-0005*	Trailer - Black Tar on Roofing Metal	Black Non-Fibrous Homogeneous	20%	Cellulose	80% Non-fibrous (other)		**None Detected**
03B *131502950-0006*	Trailer - Black Tar on Roofing Metal	Black Non-Fibrous Homogeneous	20%	Cellulose	80% Non-fibrous (other)		**None Detected**
04A *131502950-0007*	Conc. Bldg - Textured Coating	Gray Non-Fibrous Homogeneous			100% Non-fibrous (other)		**None Detected**
04B *131502950-0008*	Conc. Bldg - Textured Coating	Gray Non-Fibrous Homogeneous			100% Non-fibrous (other)		**None Detected**

Analyst(s)

Kevin Pine (32)

Steve Grise, Laboratory Manager
or other approved signatory

Initial report from 06/04/2015 14:45:22

EMSL Analytical, Inc.
7 Constitution Way, Suite 107, Woburn, MA 01801
Phone/Fax: (781) 933-8411 / (781) 933-8412
http://www.EMSL.com bostonlab@emsl.com

EMSL Order: 131502950
CustomerID: WESA62
CustomerPO:
ProjectID:

Attn: **Craig Miner**
Weston & Sampson Engineers, Inc.
5 Centennial Drive
Peabody, MA 01960

Phone: (978) 532-1900
Fax: (978) 977-0100
Received: 06/02/15 9:00 AM
Analysis Date: 6/4/2015
Collected:

Project: **Newton Pauk 2150258**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
04C *131502950-0009*	Conc. Bldg - Textured Coating	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
05A *131502950-0010*	Conc. Bldg - Roof Shingle	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (other)	**None Detected**
05B *131502950-0011*	Conc. Bldg - Roof Shingle	Black Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (other)	**None Detected**
06A *131502950-0012*	Trailer - Window Glazing	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
06B *131502950-0013*	Trailer - Window Glazing	Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
07A *131502950-0014*	Trailer - White Window Caulk	Gray Non-Fibrous Homogeneous		95% Non-fibrous (other)	**5% Chrysotile**
07B *131502950-0015*	Trailer - White Window Caulk	Gray Non-Fibrous Homogeneous		95% Non-fibrous (other)	**5% Chrysotile**
08A *131502950-0016*	Conc. Bldg - Door Caulk	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

Analyst(s)
Kevin Pine (32)

Steve Grise, Laboratory Manager
or other approved signatory

Initial report from 06/04/2015 14:45:22

EMSL Analytical, Inc.
7 Constitution Way, Suite 107, Woburn, MA 01801
Phone/Fax: (781) 933-8411 / (781) 933-8412
http://www.EMSL.com bostonlab@emsl.com

EMSL Order: 131502950
CustomerID: WESA62
CustomerPO:
ProjectID:

Attn: **Craig Miner**
Weston & Sampson Engineers, Inc.
5 Centennial Drive
Peabody, MA 01960

Phone: (978) 532-1900
Fax: (978) 977-0100
Received: 06/02/15 9:00 AM
Analysis Date: 6/4/2015
Collected:

Project: **Newton Pauk 2150258**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
08B *131502950-0017*	Conc. Bldg - Door Caulk	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
09A *131502950-0018*	Trailer - Seam Caulk	Gray Non-Fibrous Homogeneous			95% Non-fibrous (other)	**5% Chrysotile**
09B *131502950-0019*	Trailer - Seam Caulk	Gray Non-Fibrous Homogeneous			95% Non-fibrous (other)	**5% Chrysotile**
10A *131502950-0020*	Conc. Bldg - Tar Paper Under Shingle	Black Non-Fibrous Homogeneous	30%	Cellulose	70% Non-fibrous (other)	**None Detected**
10B *131502950-0021*	Conc. Bldg - Tar Paper Under Shingle	Black Non-Fibrous Homogeneous	30%	Cellulose	70% Non-fibrous (other)	**None Detected**
11A *131502950-0022*	Trailer - Beige Floor Tile	Tan Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
11B *131502950-0023*	Trailer - Beige Floor Tile	Tan Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
12A *131502950-0024*	Trailer - Beige Floor Tile Mastic/Backing	Black Fibrous Homogeneous	70%	Cellulose	30% Non-fibrous (other)	**None Detected**

Analyst(s)

Kevin Pine (32)

Steve Grise, Laboratory Manager
or other approved signatory

Initial report from 06/04/2015 14:45:22

EMSL Analytical, Inc.
7 Constitution Way, Suite 107, Woburn, MA 01801
Phone/Fax: (781) 933-8411 / (781) 933-8412
http://www.EMSL.com bostonlab@emsl.com

EMSL Order: 131502950
CustomerID: WESA62
CustomerPO:
ProjectID:

Attn: **Craig Miner**
Weston & Sampson Engineers, Inc.
5 Centennial Drive
Peabody, MA 01960

Phone: (978) 532-1900
Fax: (978) 977-0100
Received: 06/02/15 9:00 AM
Analysis Date: 6/4/2015
Collected:

Project: **Newton Pauk 2150258**

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**		**% Type**
12B *131502950-0025*	Trailer - Beige Floor Tile Mastic/Backing	Black Fibrous Homogeneous	70%	Cellulose	30%	Non-fibrous (other)	**None Detected**
13A *131502950-0026*	Trailer - Stucco Ceiling	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
13B *131502950-0027*	Trailer - Stucco Ceiling	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
13C *131502950-0028*	Trailer - Stucco Ceiling	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
14A *131502950-0029*	Trailer Roof - Sealant	Black Non-Fibrous Homogeneous	30%	Cellulose	70%	Non-fibrous (other)	**None Detected**
14B *131502950-0030*	Trailer Roof - Sealant	Black Non-Fibrous Homogeneous	30%	Cellulose	70%	Non-fibrous (other)	**None Detected**
15A *131502950-0031*	Trailer Roof - Sealant	Black Non-Fibrous Homogeneous	30%	Cellulose	70%	Non-fibrous (other)	**None Detected**
15B *131502950-0032*	Trailer Roof - Sealant	Black Non-Fibrous Homogeneous	30%	Cellulose	70%	Non-fibrous (other)	**None Detected**

Analyst(s)
Kevin Pine (32)

Steve Grise, Laboratory Manager
or other approved signatory

Initial report from 06/04/2015 14:45:22

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

June 10, 2015

Craig Miner
Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960

Project Location: Newton Park
Client Job Number:
Project Number: 2150258 B.4
Laboratory Work Order Number: 15F0128

Enclosed are results of analyses for samples received by the laboratory on June 2, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

Table of Contents

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson Engineers MA
5 Centennial Drive
Peabody, MA 01960
ATTN: Craig Miner

REPORT DATE: 6/10/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2150258 B.4

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15F0128

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

PROJECT LOCATION: Newton Park

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
P1 Trailer Caulk	15F0128-01	Caulk		SW-846 8082A	
P2 Trailer Caulk	15F0128-02	Caulk		SW-846 8082A	
P3 Trailer Caulk	15F0128-03	Caulk		SW-846 8082A	
P4 Trailer Caulk	15F0128-04	Caulk		SW-846 8082A	
P5 Conc. Bldg Caulk	15F0128-05	Caulk		SW-846 8082A	
P6 Conc. Bldg Caulk	15F0128-06	Caulk		SW-846 8082A	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

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

SW-846 8082A

Qualifications:

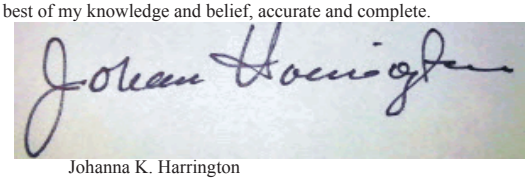
O-32

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

15F0128-01[P1 Trailer Caulk], 15F0128-02[P2 Trailer Caulk], 15F0128-03[P3 Trailer Caulk], 15F0128-04[P4 Trailer Caulk], 15F0128-05[P5 Conc. Bldg Caulk], 15F0128-06[P6 Conc. Bldg Caulk]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Johanna K. Harrington
Manager, Laboratory Reporting

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Newton Park | Sample Description: | Work Order: 15F0128

Date Received: 6/2/2015

Field Sample #: P1 Trailer Caulk | Sampled: 5/29/2015 00:00

Sample ID: 15F0128-01

Sample Matrix: Caulk

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 4:40	JMB
Aroclor-1221 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 4:40	JMB
Aroclor-1232 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 4:40	JMB
Aroclor-1242 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 4:40	JMB
Aroclor-1248 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 4:40	JMB
Aroclor-1254 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 4:40	JMB
Aroclor-1260 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 4:40	JMB
Aroclor-1262 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 4:40	JMB
Aroclor-1268 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 4:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	88.2	30-150		6/10/15	4:40
Decachlorobiphenyl [2]	111	30-150		6/10/15	4:40
Tetrachloro-m-xylene [1]	89.8	30-150		6/10/15	4:40
Tetrachloro-m-xylene [2]	107	30-150		6/10/15	4:40

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Newton Park | Sample Description: | Work Order: 15F0128

Date Received: 6/2/2015

Field Sample #: P2 Trailer Caulk | Sampled: 5/29/2015 00:00

Sample ID: 15F0128-02

Sample Matrix: Caulk

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 4:53	JMB
Aroclor-1221 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 4:53	JMB
Aroclor-1232 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 4:53	JMB
Aroclor-1242 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 4:53	JMB
Aroclor-1248 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 4:53	JMB
Aroclor-1254 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 4:53	JMB
Aroclor-1260 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 4:53	JMB
Aroclor-1262 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 4:53	JMB
Aroclor-1268 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 4:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	85.8	30-150		6/10/15	4:53
Decachlorobiphenyl [2]	116	30-150		6/10/15	4:53
Tetrachloro-m-xylene [1]	90.8	30-150		6/10/15	4:53
Tetrachloro-m-xylene [2]	110	30-150		6/10/15	4:53

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Newton Park | Sample Description: | Work Order: 15F0128

Date Received: 6/2/2015

Field Sample #: P3 Trailer Caulk | Sampled: 5/29/2015 00:00

Sample ID: 15F0128-03

Sample Matrix: Caulk

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:06	JMB
Aroclor-1221 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:06	JMB
Aroclor-1232 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:06	JMB
Aroclor-1242 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:06	JMB
Aroclor-1248 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:06	JMB
Aroclor-1254 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:06	JMB
Aroclor-1260 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:06	JMB
Aroclor-1262 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:06	JMB
Aroclor-1268 [1]	ND	0.78	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.8	30-150		6/10/15 5:06
Decachlorobiphenyl [2]	104	30-150		6/10/15 5:06
Tetrachloro-m-xylene [1]	77.8	30-150		6/10/15 5:06
Tetrachloro-m-xylene [2]	97.7	30-150		6/10/15 5:06

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Newton Park | Sample Description: | Work Order: 15F0128

Date Received: 6/2/2015

Field Sample #: P4 Trailer Caulk | Sampled: 5/29/2015 00:00

Sample ID: 15F0128-04

Sample Matrix: Caulk

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.74	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:19	JMB
Aroclor-1221 [1]	ND	0.74	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:19	JMB
Aroclor-1232 [1]	ND	0.74	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:19	JMB
Aroclor-1242 [1]	ND	0.74	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:19	JMB
Aroclor-1248 [1]	ND	0.74	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:19	JMB
Aroclor-1254 [1]	ND	0.74	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:19	JMB
Aroclor-1260 [1]	ND	0.74	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:19	JMB
Aroclor-1262 [1]	ND	0.74	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:19	JMB
Aroclor-1268 [1]	ND	0.74	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:19	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.3	30-150		6/10/15 5:19
Decachlorobiphenyl [2]	110	30-150		6/10/15 5:19
Tetrachloro-m-xylene [1]	79.5	30-150		6/10/15 5:19
Tetrachloro-m-xylene [2]	99.0	30-150		6/10/15 5:19

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Newton Park | Sample Description: | Work Order: 15F0128

Date Received: 6/2/2015

Field Sample #: P5 Conc. Bldg Caulk | Sampled: 5/29/2015 00:00

Sample ID: 15F0128-05

Sample Matrix: Caulk

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:32	JMB
Aroclor-1221 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:32	JMB
Aroclor-1232 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:32	JMB
Aroclor-1242 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:32	JMB
Aroclor-1248 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:32	JMB
Aroclor-1254 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:32	JMB
Aroclor-1260 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:32	JMB
Aroclor-1262 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:32	JMB
Aroclor-1268 [1]	ND	0.75	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:32	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
Decachlorobiphenyl [1]	76.8	30-150		6/10/15	5:32
Decachlorobiphenyl [2]	108	30-150		6/10/15	5:32
Tetrachloro-m-xylene [1]	89.2	30-150		6/10/15	5:32
Tetrachloro-m-xylene [2]	106	30-150		6/10/15	5:32

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Newton Park | Sample Description: | Work Order: 15F0128

Date Received: 6/2/2015

Field Sample #: P6 Conc. Bldg Caulk | Sampled: 5/29/2015 00:00

Sample ID: 15F0128-06

Sample Matrix: Caulk

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:45	JMB
Aroclor-1221 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:45	JMB
Aroclor-1232 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:45	JMB
Aroclor-1242 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:45	JMB
Aroclor-1248 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:45	JMB
Aroclor-1254 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:45	JMB
Aroclor-1260 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:45	JMB
Aroclor-1262 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:45	JMB
Aroclor-1268 [1]	ND	0.76	mg/Kg	4		SW-846 8082A	6/6/15	6/10/15 5:45	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	54.9	30-150		6/10/15 5:45
Decachlorobiphenyl [2]	73.8	30-150		6/10/15 5:45
Tetrachloro-m-xylene [1]	62.3	30-150		6/10/15 5:45
Tetrachloro-m-xylene [2]	73.6	30-150		6/10/15 5:45

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15F0128-01 [P1 Trailer Caulk]	B123524	0.526	10.0	06/06/15
15F0128-02 [P2 Trailer Caulk]	B123524	0.534	10.0	06/06/15
15F0128-03 [P3 Trailer Caulk]	B123524	0.513	10.0	06/06/15
15F0128-04 [P4 Trailer Caulk]	B123524	0.537	10.0	06/06/15
15F0128-05 [P5 Conc. Bldg Caulk]	B123524	0.534	10.0	06/06/15
15F0128-06 [P6 Conc. Bldg Caulk]	B123524	0.528	10.0	06/06/15

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B123524 - SW-846 3540C										
Blank (B123524-BLK1)				Prepared: 06/06/15 Analyzed: 06/09/15						
Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	*3.24*		mg/Kg	4.00		80.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*4.38*		mg/Kg	4.00		109	30-150			
Surrogate: Tetrachloro-m-xylene	*3.77*		mg/Kg	4.00		94.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*4.41*		mg/Kg	4.00		110	30-150			
LCS (B123524-BS1)				Prepared: 06/06/15 Analyzed: 06/09/15						
Aroclor-1016	1.0	0.20	mg/Kg	1.00		102	40-140			
Aroclor-1016 [2C]	1.2	0.20	mg/Kg	1.00		115	40-140			
Aroclor-1260	1.1	0.20	mg/Kg	1.00		110	40-140			
Aroclor-1260 [2C]	1.2	0.20	mg/Kg	1.00		123	40-140			
Surrogate: Decachlorobiphenyl	*3.48*		mg/Kg	4.00		87.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*4.65*		mg/Kg	4.00		116	30-150			
Surrogate: Tetrachloro-m-xylene	*3.96*		mg/Kg	4.00		98.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*4.61*		mg/Kg	4.00		115	30-150			
LCS Dup (B123524-BSD1)				Prepared: 06/06/15 Analyzed: 06/09/15						
Aroclor-1016	1.3	0.20	mg/Kg	1.00		126	40-140	21.4	30	
Aroclor-1016 [2C]	1.2	0.20	mg/Kg	1.00		121	40-140	5.08	30	
Aroclor-1260	1.0	0.20	mg/Kg	1.00		104	40-140	5.99	30	
Aroclor-1260 [2C]	1.3	0.20	mg/Kg	1.00		126	40-140	1.95	30	
Surrogate: Decachlorobiphenyl	*3.33*		mg/Kg	4.00		83.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*4.49*		mg/Kg	4.00		112	30-150			
Surrogate: Tetrachloro-m-xylene	*3.84*		mg/Kg	4.00		96.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*4.47*		mg/Kg	4.00		112	30-150			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B123524-BS1 Date(s) Analyzed: 06/09/2015 06/09/2015

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	1.0	
	2	0.00	0.00	0.00	1.2	16
Aroclor-1260	1	0.00	0.00	0.00	1.1	
	2	0.00	0.00	0.00	1.2	9

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B123524-BSD1 Date(s) Analyzed: 06/09/2015 06/09/2015

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	1.3	
	2	0.00	0.00	0.00	1.2	5
Aroclor-1260	1	0.00	0.00	0.00	1.0	
	2	0.00	0.00	0.00	1.3	22

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
O-32	A dilution was performed as part of the standard analytical procedure.

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2015
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2015
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	06/30/2015
FL	Florida Department of Health	E871027 NELAP	06/30/2015
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2015
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2015

CHAIN OF CUSTODY RECORD

15F0128

Rev 04.05.12

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

Page_____of_____

Company Name: Weston & Sampson
Telephone: 978-532-1900
Address: 5 Centennial Drive
Peabody, MA 01960
Project # 2150258 B.4
Client PO#
Attention: Craig Miner
Project Location: Newton Park
Sampled By:

DATA DELIVERY (check all that apply)
○ FAX ◉ EMAIL ○ WEBSITE
Fax #
Email: minerc@wseinc.com
Format: ○ PDF ○ EXCEL ○ GIS ○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCB 8082 w/ Soxhlet	# of Containers	** Preservation	***Container Code
01	P1 Trailer Caulk	5-29-15						✓	6	I	A
02	P2 Trailer Caulk	5-29-15						✓	6	I	A
03	P3 Trailer Caulk	5-29-15						✓	6	I	A
04	P4 Trailer Caulk	5-29-15						✓	6	I	A
05	P5 Conc. Bldg Caulk	5-29-15						✓	6	I	A
06	P6 Conc. Bldg Caulk	5-29-15						✓	6	I	A

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time: 6/2/15 7:15
Relinquished by: (signature)	Date/Time: 6/2/15 1900
Received by: (signature) 29°C	Date/Time: 6/2/15 19:00

Turnaround ††
☐ 7-Day
☐ 10-Day
◉ Other 5 day
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

AIHA LAP, LLC ACCREDITED LABORATORY
ACCREDITED IN ACCORDANCE WITH nelac
NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

†† TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

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

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: Weston & Sampson RECEIVED BY: KKM DATE: 6/2/15

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? (Yes) No
If not, explain:

3) Are all the samples in good condition? (Yes) No
If not, explain:

4) How were the samples received:
On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.9

5) Are there Dissolved samples for the lab to filter? Yes (No)
Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)
Who was notified _____ Date _____ Time _____

7) Location where samples are stored: —

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

8) Do all samples have the proper Acid pH: Yes No (N/A) _____

9) Do all samples have the proper Base pH: Yes No (N/A) _____

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	6
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

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

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** KKM **Date/Time:** 6/2/15 19:00

100 Foxborough Blvd., Suite 250
Foxborough, MA 02035
tel: 508-698-3034 fax: 508-698-0843
www.westonandsampson.com

engineering, energy, planning, permitting, design, construction, operation, maintenance

Weston&Sampson®

MEMORANDUM

TO: Brandon Riley, Roger Alcott

FROM: Alyssa Peck

DATE: May 28, 2015

SUBJECT: Newton Highlands Playground – Test pit results

Test pits were performed at the Newton Highlands Playground on May 7, 2015. They were conducted to better understand the subsurface soil and drainage conditions, so that proper drainage systems can be provided for the renovation and replacement of the existing playing fields, tennis and basketball courts, playground, and parking area. The proposed design also includes a new park support building, new walkways and seating areas, new bleachers and benches, new lighting, and other miscellaneous utilities, sport and site features. The following is a brief summary of the test pit explorations.

The five (5) test pits were performed in various locations throughout the existing playing fields. The test pits were excavation to depths ranging from 4.5 feet to 7 feet below ground surface (b.g.s.). The conditions within test pit 2, test pit 3, and test pit 4 were fairly consistent. Beneath the top soil layer, the material was generally a clay loam or a silty clay loam texture. This soil has poor drainage capabilities. Seasonal high groundwater is estimated to be from 12 inches to 20 inches b.g.s. by visual observation of mottling. Test pit 3 did have weeping groundwater at approximately 3 feet b.g.s.

Test pit 1 was located close to the existing concession building. Below the top soil layer, loamy sand, with varying grain size, was present to the bottom of the 6 foot excavation. Loamy sands can be favorable for drainage. Although groundwater was weeping at the bottom of the excavation, soil mottling could be seen at 2 feet b.g.s.

Adjacent to the existing playground, the top soil of test pit 5 was underlain by a gravelly fill material to a depth of 2 feet b.g.s. Two feet of loam was beneath the gravelly material and underlain by a grey (with mottles) sandy loam soil. Groundwater was weeping out of the test pit wall at about 3.5 feet.

Detailed test pit logs and photos are attached to this memorandum.

TEST PIT LOG

PROJECT NAME/NO.	Newton Highlands Playground / 2150258			**TEST PIT NUMBER**	
LOCATION	Newton, MA			TP - 1	
CLIENT	City of Newton			GROUND SURFACE	
CONTRACTOR	City	FOREMAN:		ELEVATION	118.45 ±
OBSERVED BY	A. Peck	DATE	5/7/15	DEPTH TO GROUNDWATER BELOW	
CHECKED BY		DATE		SURFACE	24" (mottling)

DEPTH BELOW GROUND SURFACE (in.)	TEST PIT DIAGRAM AND SOIL DESCRIPTION
10"	Dark brown sandy loam
72"	Very fine loamy sand with pockets of medium loamy sand
	- End of Exploration -

NOTES:

1. Mottling at 24"
2. Weeping at 72"

TEST PIT NUMBER
TP - 1

WESTON & SAMPSON
ENGINEERS, INC.

Z:\MA-Boston-Projects\Newton\Newton Highlands 2015\Test Pits\[Test pit logs.xls]TP-3

TEST PIT LOG

PROJECT NAME/NO.	Newton Highlands Playground / 2150258			**TEST PIT NUMBER**	
LOCATION	Newton, MA			TP - 1	
CLIENT	City of Newton			GROUND SURFACE	
CONTRACTOR	City	FOREMAN:		ELEVATION	118.45 ±
OBSERVED BY	A. Peck	DATE	5/7/15	DEPTH TO GROUNDWATER BELOW	
CHECKED BY		DATE		SURFACE	24" (mottling)

DEPTH BELOW GROUND SURFACE (in.)	TEST PIT DIAGRAM AND SOIL DESCRIPTION

NOTES:

1. Mottling at 24"
2. Weeping at 72"

TEST PIT NUMBER

TP - 1

WESTON & SAMPSON
ENGINEERS, INC.

TEST PIT LOG

PROJECT NAME/NO.	Newton Highlands Playground / 2150258			**TEST PIT NUMBER**	
LOCATION	Newton, MA			TP - 2	
CLIENT	City of Newton			GROUND SURFACE	
CONTRACTOR	City	FOREMAN:		ELEVATION	114.00 ±
OBSERVED BY	A. Peck	DATE	5/7/15	DEPTH TO GROUNDWATER BELOW	
CHECKED BY		DATE		SURFACE	12" (mottling)

DEPTH BELOW GROUND SURFACE (in.)	TEST PIT DIAGRAM AND SOIL DESCRIPTION
10"	Dark brown sandy loam
22"	Grey (with mottles) clay loam
30"	Grey silty clay loam
84"	Light brown silty clay loam
	- End of Exploration -

NOTES:

1. Mottles at 12"
2. No weeping or standing groundwater

TEST PIT NUMBER
TP - 2

WESTON & SAMPSON ENGINEERS, INC.

Z:\MA-Boston-Projects\Newton\Newton Highlands 2015\Test Pits\[Test pit logs.xls]TP-3

TEST PIT LOG

PROJECT NAME/NO.	Newton Highlands Playground / 2150258			**TEST PIT NUMBER**	
LOCATION	Newton, MA			TP - 2	
CLIENT	City of Newton			GROUND SURFACE	
CONTRACTOR	City	FOREMAN:		ELEVATION	114.00 ±
OBSERVED BY	A. Peck	DATE	5/7/15	DEPTH TO GROUNDWATER BELOW	
CHECKED BY		DATE		SURFACE	12" (mottling)

DEPTH BELOW GROUND SURFACE (in.)	TEST PIT DIAGRAM AND SOIL DESCRIPTION

NOTES:	**TEST PIT NUMBER**
	TP - 2
	WESTON & SAMPSON ENGINEERS, INC.

TEST PIT LOG

PROJECT NAME/NO.	Newton Highlands Playground / 2150258			**TEST PIT NUMBER**	
LOCATION	Newton, MA			TP - 3	
CLIENT	City of Newton			GROUND SURFACE	
CONTRACTOR	City	FOREMAN:		ELEVATION	110.84 ±
OBSERVED BY	A. Peck	DATE	5/7/15	DEPTH TO GROUNDWATER BELOW	
CHECKED BY		DATE		SURFACE	20" (mottling)

DEPTH BELOW GROUND SURFACE (in.)	TEST PIT DIAGRAM AND SOIL DESCRIPTION
10"	Dark brown sandy loam
15"	Grey silty clay loam
34"	Clay loam (mottles at 20")
40"	Gravelly coarse sand w/ trace silt
53"	Light brown silty clay loam
	- End of Exploration -

NOTES:

1. Mottles at 20"
2. Weeping at 35"

TEST PIT NUMBER
TP - 3

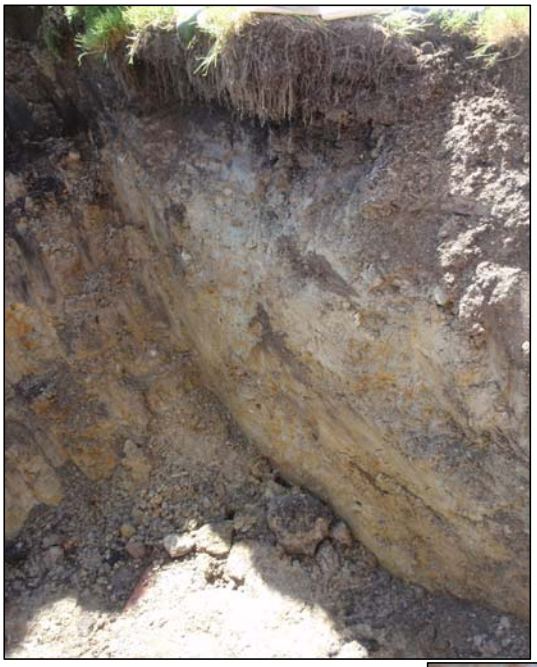
WESTON & SAMPSON ENGINEERS, INC.

Z:\MA-Boston-Projects\Newton\Newton Highlands 2015\Test Pits\[Test pit logs.xls]TP-3

TEST PIT LOG

PROJECT NAME/NO.	Newton Highlands Playground / 2150258			**TEST PIT NUMBER**	
LOCATION	Newton, MA			TP - 3	
CLIENT	City of Newton			GROUND SURFACE	
CONTRACTOR	City	FOREMAN:		ELEVATION	110.84 ±
OBSERVED BY	A. Peck	DATE	5/7/15	DEPTH TO GROUNDWATER BELOW	
CHECKED BY		DATE		SURFACE	20" (mottling)

DEPTH BELOW GROUND SURFACE (in.)	TEST PIT DIAGRAM AND SOIL DESCRIPTION



NOTES:

1. Mottles at 20"
2. Weeping at 35"

TEST PIT NUMBER

TP - 3

WESTON & SAMPSON ENGINEERS, INC.

Z:\MA-Boston-Projects\Newton\Newton Highlands 2015\Test Pits\[Test pit logs.xls]TP-3

TEST PIT LOG

PROJECT NAME/NO.	Newton Highlands Playground / 2150258			**TEST PIT NUMBER**	
LOCATION	Newton, MA			TP - 4	
CLIENT	City of Newton			GROUND SURFACE	
CONTRACTOR	City	FOREMAN:		ELEVATION	110.85 ±
OBSERVED BY	A. Peck	DATE	5/7/15	DEPTH TO GROUNDWATER BELOW	
CHECKED BY		DATE		SURFACE	18" (mottling)

DEPTH BELOW GROUND SURFACE (in.)	TEST PIT DIAGRAM AND SOIL DESCRIPTION
13"	Dark brown sandy loam
17"	Dark brown loam
24"	Clay loam w/ pockets of fine sand (mottles at 18")
37"	Dark brown sandy loam
46"	Medium brown sandy loam with silty/clayey component
50"	Grey (with mottles) very fine sandy loam
72"	Gravelly coarse sand layer underlain by grey silty clay loam
	- End of Exploration -

NOTES:

1. Mottles at 18"
2. No weeping or standing groundwater

TEST PIT NUMBER
TP - 4

WESTON & SAMPSON ENGINEERS, INC.

Z:\MA-Boston-Projects\Newton\Newton Highlands 2015\Test Pits\[Test pit logs.xls]TP-3

TEST PIT LOG

PROJECT NAME/NO.	Newton Highlands Playground / 2150258			**TEST PIT NUMBER**	
LOCATION	Newton, MA			TP - 4	
CLIENT	City of Newton			GROUND SURFACE	
CONTRACTOR	City	FOREMAN:		ELEVATION	110.85 ±
OBSERVED BY	A. Peck	DATE	5/7/15	DEPTH TO GROUNDWATER BELOW	
CHECKED BY		DATE		SURFACE	18" (mottling)

DEPTH BELOW GROUND SURFACE (in.)	TEST PIT DIAGRAM AND SOIL DESCRIPTION

NOTES:

1. Mottles at 18"
2. No weeping or standing groundwater

TEST PIT NUMBER

TP - 4

WESTON & SAMPSON ENGINEERS, INC.

Z:\MA-Boston-Projects\Newton\Newton Highlands 2015\Test Pits\[Test pit logs.xls]TP-3

TEST PIT LOG

PROJECT NAME/NO.	Newton Highlands Playground / 2150258			**TEST PIT NUMBER**	
LOCATION	Newton, MA			TP - 5	
CLIENT	City of Newton			GROUND SURFACE	
CONTRACTOR	City	FOREMAN:		ELEVATION	111.20 ±
OBSERVED BY	A. Peck	DATE	5/7/15	DEPTH TO GROUNDWATER BELOW	
CHECKED BY		DATE		SURFACE	40" (weeping)

DEPTH BELOW GROUND SURFACE (in.)	TEST PIT DIAGRAM AND SOIL DESCRIPTION
6"	Dark brown sandy loam
24"	Gravelly medium brown loamy sand fill w/ some cobbles
48"	Very dark brown loam
57"	Grey (with mottles) very fine sandy loam with silty/clayey component
	- End of Exploration -

NOTES:

1. Weeping at 40"
2. Mottles at 48", none above weeping elevation

TEST PIT NUMBER
TP - 5

WESTON & SAMPSON ENGINEERS, INC.

Z:\MA-Boston-Projects\Newton\Newton Highlands 2015\Test Pits\[Test pit logs.xls]TP-3

TEST PIT LOG

PROJECT NAME/NO.	Newton Highlands Playground / 2150258			**TEST PIT NUMBER**	
LOCATION	Newton, MA			TP - 5	
CLIENT	City of Newton			GROUND SURFACE	
CONTRACTOR	City	FOREMAN:		ELEVATION	111.20 ±
OBSERVED BY	A. Peck	DATE	5/7/15	DEPTH TO GROUNDWATER BELOW	
CHECKED BY		DATE		SURFACE	40" (weeping)

DEPTH BELOW GROUND SURFACE (in.)	TEST PIT DIAGRAM AND SOIL DESCRIPTION

NOTES:

1. Weeping at 40"
2. Mottles at 48", none above weeping elevation

TEST PIT NUMBER

TP - 5

WESTON & SAMPSON ENGINEERS, INC.