

Tighe & Bond

**Citizens Block
28-36 Park Place
Vernon, Connecticut**

Hazardous Building Materials Assessment

Prepared For:

Capitol Region Council of Governments

March 2016

12-1077-3
March 21, 2016



Mary Ellen Kowalewski
Director of Policy and Planning
Capitol Region Council of Governments
241 Main Street
Hartford, CT 06106

Re: **Limited Hazardous Building Material Assessment Report**
Citizen's Block
28-36 Park Place
Vernon, CT

Dear Ms. Kowalewski:

In accordance with our proposal dated October 14, 2015, Tighe & Bond has completed the Limited Hazardous Building Materials Assessment (HBMA) for the Citizen's Block Property at 28-36 Park Place in Vernon, CT. It is our understanding that the Town of Vernon owns the site and plans on performing renovations to improve the appearance of the building façade. The purpose of the inspection was to determine if hazardous building materials are associated with building components that will be impacted during proposed renovations. We utilized a Pre-renovation Hazardous Materials Inspection report from Eagle Environmental, Inc. dated July 31, 2003 to assist in our assessment.

Assessment Summary

The HBMA was conducted by State of Connecticut licensed inspector, Philip C. Hutter of Tighe & Bond on November 6, 2015. A copy of the inspector's license is included in Appendix A. The HBMA was limited to the building's façade in locations where renovations are planned. The inspection included sampling of suspect asbestos containing materials (ACM), lead-based paint screening by paint chip analysis, and an assessment of suspect materials for polychlorinated biphenyls (PCBs). A photographic log is found in Appendix B.

Suspect Asbestos-Containing Materials Sampling

A total of 22 different types of suspect asbestos containing materials were observed and sampled including window frame caulk, window glazing compound, paints, mortar and residual flashing material. Sampled materials are listed in Tables 1 and 2 in Appendix C. Up to 3 samples were collected of each suspect material in accordance with the United States Environmental Protection Agency (EPA) requirements for asbestos identification. Samples were submitted to EMSL Laboratories in Wallingford, Connecticut for asbestos analysis via Polarized Light Microscopy (PLM) using EPA approved protocol in accordance with accreditation of the National Institute of Standards and Technology (NIST).

During inspection activities the sample locations, types of material, and quantities were recorded. Homogenous materials were noted when observed.

Lead-Based Paint Sampling

Lead based paint (LBP) screening was conducted utilizing paint chip sampling techniques. Paint was sampled from the main components on the exterior. There are multiple painted items in the exterior façade that are proposed to be disturbed that include but not limited to wall panel paint, portico paint, window paint, and soffit/cornice paint. The samples were submitted to Phoenix Laboratories for analysis of lead by Flame AAS (SW 846 3050B/7000B).



PCB Assessment

Several types of paints were observed around the façade along with caulking and glazing compounds in locations that are proposed to be disturbed. Tighe & Bond has provided an option to CRCOG that the paints, the caulking and window glazing compound can be assumed to contain PCBs greater than or equal to (\geq) 50 ppm and therefore would be managed as such. CRCOG has directed Tighe & Bond to use the assumed method, the paints, caulking, and window glazing compound will be handled and disposed of as a Toxic Substances Control Act (TSCA) Bulk Product Waste with assumed PCB concentrations \geq 50 ppm. Eleven types of assumed materials were observed, window frame caulk, window glazing compound, door frame caulk, wall panel caulk, glass block caulk, gray/black paint on concrete columns, light gray paint on metal panels, multiple types of window component paint, multiple types of door component paint, beige soffit/cornice paint, and light gray paint on wood portico components.

Findings and Conclusions

Asbestos Sampling Results

During the course of the sampling, a total of 26 bulk samples of suspect ACM were collected, 25 of which were analyzed by PLM based on the “stop on first positive” request from the laboratory. EPA defines any material containing more than 1% asbestos as an asbestos containing material. Of the materials sampled, the following materials were determined to be asbestos-containing:

- Brown Wood Window Frame Caulk – Main Building
- Black Residual Wall Flashing – South Façade

The previous Eagle report determined the following materials to be asbestos-containing:

- Flashing Felts at Chimney – Main Roof
- Flashing Tar – Lower Roof
- Flashing Tar – Lower Roof Edges
- Tan Wall Panel Caulk – South Façade
- Yellow Door Frame Caulk – East Elevation

Refer to Table 1 for a summary of asbestos containing materials identified and locations. Refer to Table 2 for a summary of non-asbestos containing materials. Laboratory analytical reports for asbestos sampling are provided in Appendix D.

If additional materials are encountered during upgrade activities that were not previously sampled then they would need to be sampled to determine if it is an asbestos containing material or should be assumed to be asbestos containing.

All regulated friable and non-friable ACM must be removed prior to renovation or demolition activities. A State of Connecticut Licensed Asbestos Abatement Contractor must be retained to perform removal work. Visual inspections must be performed within each abatement area at the completion of the abatement work. The visual inspection must be performed by a State of Connecticut Licensed Asbestos Project Monitor. The abatement areas must meet final visual inspection criteria prior to renovation or demolition activities. Re-occupancy air monitoring is required before any entry of any person into the work area.

The Asbestos Abatement Contractor must submit a notice of asbestos abatement to the State of Connecticut Department of Health post marked or hand delivered 10 days prior to the commencement of any asbestos abatement activities involving the abatement of greater than 10 linear feet or 25 square feet of asbestos containing materials.

Lead-Based Paint Sampling Results

Refer to Table 3 for a detailed list of paint chip sample results. Laboratory analytical reports for paint chip sampling are provided in Appendix E.

A total of six samples were collected during the lead-based paint screen of the target area. Lead-based paint is typically defined as containing greater than 5,000 milligrams per kilogram (mg/Kg) of lead.

- The paints on the wood soffit/cornice, concrete columns, and wood portico components were determined to be above 5,000 mg/Kg of lead.

Note: The window component paint sample was found below 5,000 mg/kg of lead but the previous report from Eagle in 2003 describes the interior portions of the window sashes as having lead-based paint via x-ray fluorescence (XRF) testing.

Due to the presence of lead based paint, one sample was collected from the painted wood windows, brick and mortar on walls, plywood behind metal panels, and painted items from the exterior and submitted to Phoenix Laboratories of Manchester, CT for lead analysis using Toxicity Characterization Leaching Procedure (TCLP) and methods SW6010, SW3005 and EPA 1311.

EPA and State regulations define a lead waste stream as hazardous if lead leaches out of the material(s) during the testing process at a rate of 5 milligrams per liter (mg/L) or greater. The TCLP results for the lead-based painted wood windows indicate that lead leached out of the composited waste materials at a rate of 0.38 mg/L. Therefore, the proposed renovation areas of the window sashes, wall panels, brick openings and painted items can be considered non-lead hazardous waste but it is important to keep in mind that the window caulk is asbestos-containing and all painted components are assumed PCB containing (≥ 50 ppm).

US Occupational Safety and Health Administration (OSHA) requires task specific worker exposure monitoring for any abatement activities that disturb lead-based paints. If surfaces identified to contain lead-based paints will be impacted by cutting, grinding, scraping or other dust generating activities a task specific worker exposure assessment must be conducted by the abatement contractor in accordance with OSHA 29 CFR 1926.62 to confirm lead dust is not being generated.

The laboratory analytical report for the lead-based TCLP sampling is provided in Appendix E.

PCB Recommendations

Refer to Table 4 for a detailed list of materials which were observed at the site that are assumed to have PCB concentrations ≥ 50 ppm. The façade paints, caulking and window glazing compound are assumed to contain PCBs. Using the assumed method, the following materials should be handled and disposed as a Toxic Substances Control Act (TSCA) Bulk Product Waste with assumed PCB concentrations greater than or equal to ≥ 50 ppm:

- | | |
|--|---|
| • Window Frame Caulk | • Light Gray Paint on Metal Panels |
| • Window Glazing Compound | • Multiple Types of Window Component Paint |
| • Door Frame Caulk | • Multiple Types of Door Component Paint |
| • Wall Panel Caulk | • Beige Soffit/Cornice Paint |
| • Glass Block Caulk | • Light Gray Paint on Wood Portico Components |
| • Gray/Black Paint on Concrete Columns | • Window Glazing Compound |



Since PCB concentrations are assumed to be greater than or equal to ≥ 50 ppm, the following tasks are recommended in association with the proposed façade renovations:

- Abatement of PCB containing source materials (e.g. caulks, paints and glazing compound)
- Handled and Disposed per EPA regulations (40 CFR Part 761)
- 3rd Party Project Oversight including "Pre" and "Post" Visual Inspections
- Provide proper waste documents of disposal / transportation (e.g. waste shipment records and waste manifests)

Source materials containing PCBs at concentrations ≥ 50 ppm are regulated by EPA and the Connecticut Department of Energy and Environmental Protection (CTDEEP). Materials at concentrations greater than 1 ppm are regulated by the Connecticut Department of Energy and Environmental Protection (CTDEEP). Materials with PCB concentrations less than 1 ppm are not regulated and can be disposed of as general construction waste. The materials observed during this inspection are assumed to be ≥ 50 ppm.

Tighe & Bond was not provided with a full detailed set of architectural plans for the renovations. Therefore, we will not be able to generate an opinion of probable abatement cost until the full renovation plans are available.

If you have any questions regarding this letter report, please contact me at (860)704-4761 or jtolsen@tighebond.com.

Very truly yours,
TIGHE & BOND, INC.



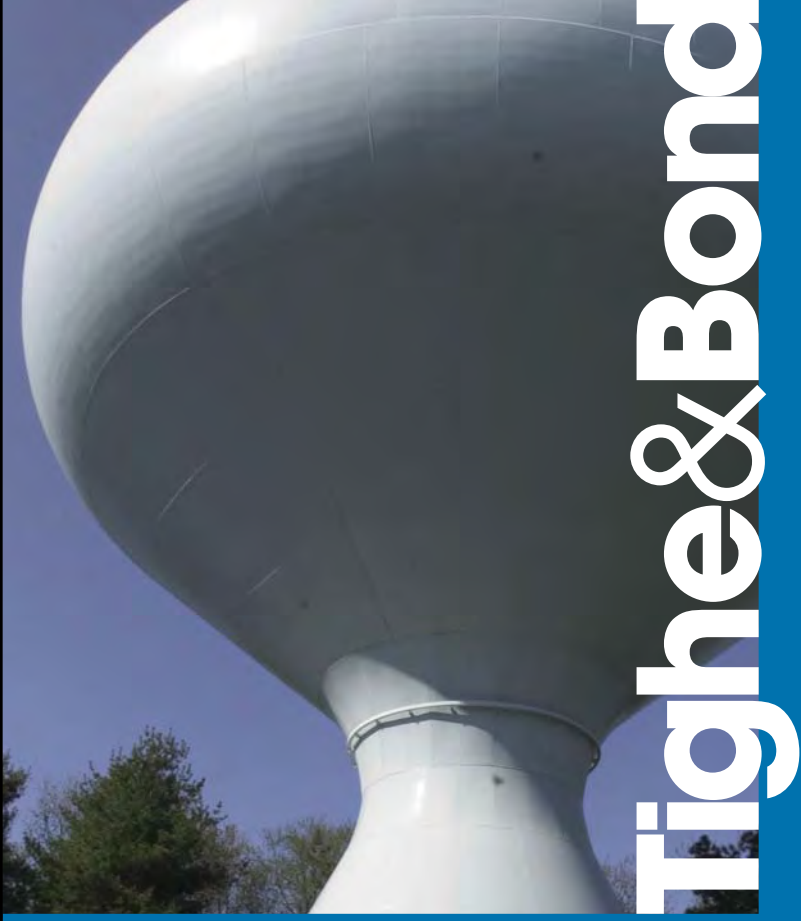
Philip C. Hutter
Project Compliance Specialist



James T. Olsen, LEP
Vice President

Enclosures:

- Appendix A - Inspector License
- Appendix B - Photographic Log
- Appendix C - Table 1 Summary of Asbestos Containing Materials
Table 2 Summary of Non-Asbestos Containing Materials
Table 3 Summary of Lead Paint Chip Sample Results
Table 4 Summary of PCB Assessment and Assumed Materials
- Appendix D - EMSL Asbestos Laboratory Analytical Report
- Appendix E - Phoenix Lead Laboratory Analytical Report



Certificate No.
FEI-082



THIS IS TO CERTIFY THAT

Philip C. Hutter

ATTENDED AND SUCCESSFULLY PASSED AN
EXAMINATION FOR THE COURSE:

**4-Hour Asbestos Inspector
Refresher Training Course**


on

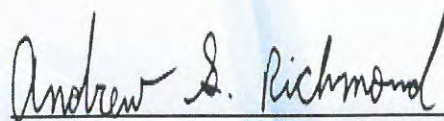
NOVEMBER 25, 2014

THE COURSE AND EXAMINATION LOCATION WAS:

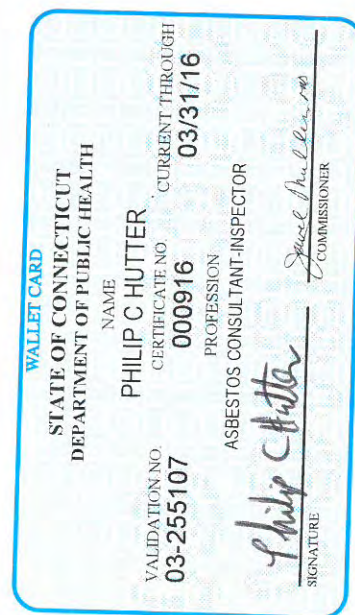
**1141 JEFFERSON GREEN CIRCLE
MIDLOTHIAN, VIRGINIA 23113**

THIS CERTIFICATE EXPIRES ON NOVEMBER 25, 2015


Joseph T. France
Training Manager


Andrew S. Richmond
Principal Instructor

The Person Receiving This Certificate Has Received The Requisite Training For
Asbestos Accreditation Under TSCA Title II



WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME

PHILIP C HUTTER

VALIDATION NO.

03-334131

CERTIFICATE NO.

002264

CURRENT THROUGH

03/31/16

PROFESSION

LEAD INSPECTOR RISK ASSESSOR

Philip C. Hutter
SIGNATURE

David D. Miller, MD
COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Philip Charles Hutter

3 William Street, Middlefield, CT 06455

000-00-8326

has successfully completed the

INSPECTOR RISK ASSESSOR REFRESHER

Training Course

conducted by

Cardno ATC

73 William Franks Drive

West Springfield, MA 01089

(413) 781-0070

Principal Instructor:

Mark S. Fitch

September 30, 2015

Date of Course

CTILIR-400

Certificate Number

September 30, 2015

Exam Date

September 30, 2016

Expiration Date

Regional Training Director


Nancy Mond

*Training received complies with the requirements of the
Connecticut Department of Public Health pursuant to Section 20-477 of the Connecticut General Statutes.*



Client: Capitol Region Council of Governments**Job Number:** C-1077-3**Site:** Citizens Block 28-36 Park Place, Vernon, CT

Photograph No.: 1	Date: 11/6/15
Description: East Elevation Portico with Gray Paint (Lead-based and assumed PCB Containing)	
	

Photograph No.: 2	Date: 11/6/15
Description: Window (Assumed PCB containing paint, caulk, glazing), Asbestos-containing Caulk	
	

Appendix B

Photographic Log


Tighe&Bond

Client: Capitol Region Council of Governments

Job Number: C-1077-3

Site: Citizens Block 28-36 Park Place, Vernon, CT

Photograph No.: 3	Date: 11/6/15
Description: Concrete Column Gray Paint (Lead-based and assumed PCB Containing)	
	

Photograph No.: 4	Date: 11/6/15
Description: Rear Soffit and Fascia Paint (Lead-based and assumed PCB containing)	
	

Client: Capitol Region Council of Governments**Job Number:** C-1077-3**Site:** Citizens Block 28-36 Park Place, Vernon, CT**Photograph No.:** 5 **Date:** 11/6/15**Description:** Wall Panels with Caulk (Asbestos-containing and assumed PCB containing)**Photograph No.:** 6 **Date:** 11/6/15**Description:** Wall Panel Paint (Assumed PCB containing)

Client: Capitol Region Council of Governments**Job Number:** C-1077-3**Site:** Citizens Block 28-36 Park Place, Vernon, CT**Photograph No.:** 7 **Date:** 11/6/15**Description:** Rear Door with Caulk and Paint (Assumed PCB Paint/Caulk), Asbestos-containing Caulk**Photograph No.:** 8 **Date:** 11/6/15**Description:** East Elevation—Residual Roof Flashing (asbestos-containing)

Appendix B

Photographic Log

Tighe&Bond

Client: Capitol Region Council of Governments

Job Number: C-1077-3

Site: Citizens Block 28-36 Park Place, Vernon, CT

Photograph No.: 9 **Date:** 11/6/15

Description: Rear Addition— Caulk and Glazing (Assumed PCB Containing / Non-asbestos)



Photograph No.: 10 **Date:** 11/6/15

Description: East Elevation—Assumed PCBs in all Paints, Caulks and Glazings



Appendix B

Photographic Log

Tighe&Bond

Client: Capitol Region Council of Governments

Job Number: C-1077-3

Site: Citizens Block 28-36 Park Place, Vernon, CT

Photograph No.: 11 **Date:** 11/6/15

Description: South Elevation—Assumed PCBs in all paints, caulks and glazings



Photograph No.: 12 **Date:** 11/6/15

Description: West Elevation— Assumed PCBs in all paints, caulks and glazings



Appendix B

Photographic Log

Tighe&Bond

Client: Capitol Region Council of Governments

Job Number: C-1077-3

Site: Citizens Block 28-36 Park Place, Vernon, CT

Photograph No.: 13 **Date:** 11/6/15

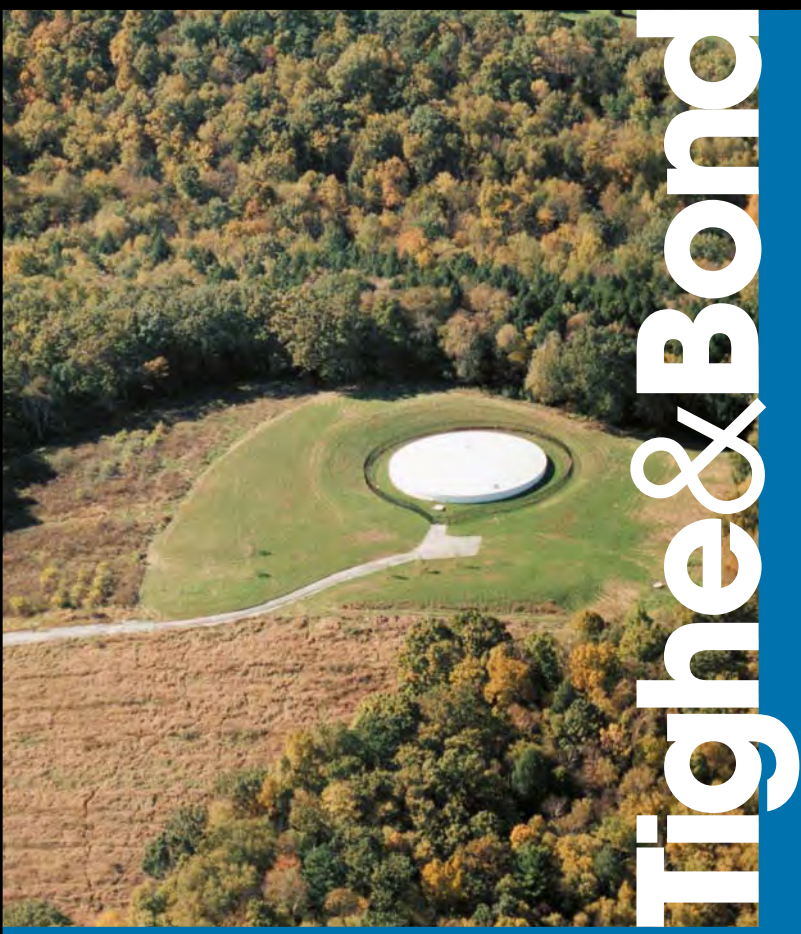
Description: Alley / North Elevation—No proposed work to be performed



Photograph No.: 14 **Date:** 11/6/15

Description: Rear entrances and windows (Assumed PCBs in paints, caulks and glazings)





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TABLE 1

Summary of Asbestos Containing Materials
 Citizen's Block
 28-36 Park Place
 Vernon, CT

Asbestos Sampling Date: November 6, 2015

Sample ID	Material	Color	Sample Location	Approximate Quantity	Result
11-06-PCH-09	Black Wall/Residual Roof Flashing	Black	Front Former Overhang Roof Portions	<10 LF	None Detected
11-06-PCH-10					2.6% Chrysotile (TEM Analysis)
11-06-PCH-13	Wood Window Frame Caulk	Brown	Main Building - All Windows	928 LF	4% Chrysotile
11-06-PCH-14					Stop Positive (Not Analyzed)
Eagle Report 6-23-CC-49	Flashing Felts at Chimney	Black	Main Roof	4 @ 4 SF Each	26% Chrysotile
Eagle Report 6-23-CC-50	Flashing Tar	Black	Lower Roof	33 LF	6% Chrysotile
Eagle Report 6-23-CC-51	Flashing Tar at Lower Roof Edges	Black	Throughout	Not quantified	7% Chrysotile
Eagle Report 6-23-CC-54	Caulk at Panels	Tan	Façade A (South Elevation)	200 LF	7% Chrysotile
Eagle Report 6-23-CC-56	Caulk at Door	Yellow	Exterior D (East Elevation)	17 LF	12% Chrysotile

LEGEND

Asbestos Containing Material = < 1% Asbestos

LF = Linear Foot

SF= Square Foot

TABLE 2

Summary of Non-Asbestos Containing Materials
 Citizen's Block
 28-36 Park Place
 Vernon, CT

Asbestos Sampling Date: November 6, 2015

Sample ID	Material	Color	Location(s)	Result
11-06-PCH-01 to 02	Glass Block Caulk	White/Black	West Elevation	None Detected
11-06-PCH-03 to 04	Glass Block/Brick Mortar	Gray	West Elevation	None Detected
11-06-PCH-05 to 06	Column Paint	Light Gray / Black	Concrete Columns (South Elevation)	None Detected
11-06-PCH-07 to 08	Wall Panel Paint	Light Gray / Red	Wall Panels (South Elevation)	None Detected
11-06-PCH-11 to 12	Portico Paint	Light Gray	Front Portico (South Elevation)	None Detected
11-06-PCH-15 to 16	Wood Window Glazing Compound	White	All Wood Windows	None Detected
11-06-PCH-17 to 18	Wood Window Paint	White	All Wood Windows	None Detected
11-06-PCH-19 to 20	Cornice/Soffit Paint	Beige	All Elevations	None Detected
11-06-PCH-21 to 22	White Replacement Window Caulk	White	North Elevation (West Windows on 2nd and 3rd Floors)	None Detected
11-06-PCH-23 to 24	Wood Window Frame Caulk	White	Addition Windows	None Detected
11-06-PCH-25 to 26	Wood Window Glazing Compound	White	Addition Windows	None Detected
Eagle Report 6-23-CC-48	Tar on felts at Chimney	Black	Main Roof	None Detected
Eagle Report 6-23-CC-52	Rolled Asphalt	Black	Lower Roof	None Detected
Eagle Report 6-23-CC-53	Rubberized Seals at corner panels	Black	Exterior B (South Elevation)	None Detected
Eagle Report 6-23-CC-55	Door Frame Caulk	White	Rear Door	None Detected

TABLE 2

Summary of Non-Asbestos Containing Materials
Citizen's Block
28-36 Park Place
Vernon, CT

Sample ID	Material	Color	Location(s)	Result
Eagle Report 6- 23-CC-11	Hard Window Glazing Compound	White	Main Building Windows	None Detected

LEGEND

Asbestos Containing Material = < 1% Asbestos

TABLE 3

Summary of Lead Paint-Chip Sampling Results
Citizen's Block
28-36 Park Place
Vernon, CT

Lead Paint-Chip Sampling Date: November 6, 2015

ID	Location	Component	Paint Color	Substrate	Result (mg/Kg)
11-06-PB-01	Exterior - South Façade	Column	Gray/Black	Concrete	7,270
11-06-PB-02	Exterior - South Façade	Wall Panel	Light Gray/Red	Metal	149
11-06-PB-03	Exterior - South Façade	Wall Panel	Light Gray	Metal	441
11-06-PB-04	Exterior - South Façade	Window	White	Wood	1,600
11-06-PB-05	Exterior - North Façade	Soffit	Beige/White	Wood	305,000
11-06-PB-06	Exterior - South Façade	Portico	Light Gray	Wood	134,000

LEGEND

Bolded Result = Paint considered "Lead-based" ($\geq 5,000$ mg/Kg)

ND<# = None detected above given laboratory limit

mg/Kg = milligrams per Kilogram

TABLE 4

Summary of PCB Assessment and Assumed Materials
 Citizen's Block
 28-36 Park Place
 Vernon, CT

Description	Location	Aroclor #	Result (ppm)	Notes
Window Frame Caulk (All Colors)	All Windows	N/A	Assumed PCB Containing ≥50 ppm	Approximately 68 Windows; 1,088 LF
Window Glazing Compound (All Colors)	Non-replacement Windows	N/A	Assumed PCB Containing ≥50 ppm	Approximately 51 non-replacement windows; 1,224 LF
Door Frame Caulk (All Colors)	All Entrances on South and North Elevations	N/A	Assumed PCB Containing ≥50 ppm	Approximately 10 Doors; 176 LF
Wall Panel Caulk (All Colors)	South Elevation	N/A	Assumed PCB Containing ≥50 ppm	Approximately 320 LF
Glass Block Caulk (White)	West Elevation	N/A	Assumed PCB Containing ≥50 ppm	Approximately 27 LF
Light Gray Paint on Metal Wall Panels	South Elevation	N/A	Assumed PCB Containing ≥50 ppm	Approximately 800 SF
Gray/Black Paint on Concrete Columns	South Elevation	N/A	Assumed PCB Containing ≥50 ppm	Approximate 800 SF (Assumed behind Metal Wall Panels also)
Window Component Paint (All Colors)	All Painted Windows	N/A	Assumed PCB Containing ≥50 ppm	Approximately 816 SF
Door Component Paint (All Colors)	All Painted Doors	N/A	Assumed PCB Containing ≥50 ppm	Approximately 210 SF
Beige Soffit/Cornice Paint	All Elevations	N/A	Assumed PCB Containing ≥50 ppm	Approximately 710 SF
Light Gray Paint on Wood Portico Components	South Elevation	N/A	Assumed PCB Containing ≥50 ppm	Approximately 20 SF

LEGEND

Bolded and boxed = Assumed greater than or equal to () 50 ppm



Tighe & Bond



EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4 Wallingford, CT 06

Tel/Fax: (203) 284-5948 / (203) 284-5978

<http://www.EMSL.com> / wallingfordlab@emsl.com

EMSL Order: 241504952

Customer ID: TIGH62

Customer PO:

Project ID:

Attention: Phillip Hutter
Tighe & Bond
213 Court Street
Suite 900
Middletown, CT 06457

Phone: (860) 704-4760

Fax: (860) 704-4775

Received Date: 11/ 6/2015 12:45 PM

Analysis Date: 11/13/2015

Collected Date: 11/ 6/2015

Project: 12-1077/CITIZENS BLOCK

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

Sample	Description	Appearance	% Fibrous	Non-Asbestos	Asbestos
				% Non-Fibrous	% Type
11-06-PCH-01 241504952-0001	1st floor south - white/black glass block caulk	White/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11-06-PCH-02 241504952-0002	1st floor south - white/black glass block caulk	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11-06-PCH-03 241504952-0003	1st floor south - gray block/brick mortar	Gray Non-Fibrous Homogeneous		10% Quartz 90% Non-fibrous (Other)	None Detected
11-06-PCH-04 241504952-0004	1st floor south - gray block/brick mortar	Gray Non-Fibrous Homogeneous		25% Quartz 75% Non-fibrous (Other)	None Detected
11-06-PCH-05 241504952-0005	(column on concrete) front - light gray/black paint	Gray Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
11-06-PCH-06 241504952-0006	(column on concrete) front - light gray/black paint	Gray Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
11-06-PCH-07 241504952-0007	By 28 park - light gray/red wall paint	Gray/Red Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
11-06-PCH-08 241504952-0008	By 30 park - light gray/red wall paint	Gray/Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11-06-PCH-09 241504952-0009	East elevation - black wall/residual roof flashing	Black Fibrous Homogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
11-06-PCH-10 241504952-0010	East elevation - black wall/residual roof flashing	Black Fibrous Homogeneous	<1% Synthetic 5% Glass	95% Non-fibrous (Other)	<1% Chrysotile
11-06-PCH-11 241504952-0011	Front portico - light gray paint	Gray/Tan Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
11-06-PCH-12 241504952-0012	Front portico - light gray paint	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11-06-PCH-13 241504952-0013	East elev. 2nd fl - white wood window frame caulk	Brown Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
11-06-PCH-14 241504952-0014	East elev. 3rd fl. - white wood window frame caulk				Stop Positive (Not Analyzed)
11-06-PCH-15 241504952-0015	East elev. 2nd fl - white wood window glazing compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11-06-PCH-16 241504952-0016	East elev. 3rd fl. - white wood window glazing compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Report amended: 11/19/2015 17:06:28 Replaces initial report from: 11/13/2015 11:00:32 Reason Code: Client-Change to Appearance



EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4 Wallingford, CT 06

Tel/Fax: (203) 284-5948 / (203) 284-5978

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EMSL Order: 241504952

Customer ID: TIGH62

Customer PO:

Project ID:

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
11-06-PCH-17 241504952-0017	East elev. 2nd fl - white wood window paint	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11-06-PCH-18 241504952-0018	East elev. 3rd fl. - white wood window paint	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
11-06-PCH-19 241504952-0019	South elev. - beige cornice/soffit paint	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
11-06-PCH-20 241504952-0020	West elev. - beige cornice/soffit paint	White Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
11-06-PCH-21 241504952-0021	West elev. 3rd fl - white replacement window caulk	White Non-Fibrous Homogeneous	3% Fibrous (Other)	97% Non-fibrous (Other)	None Detected
11-06-PCH-22 241504952-0022	West elev. 3rd fl - white replacement window caulk	White Non-Fibrous Homogeneous	2% Fibrous (Other)	98% Non-fibrous (Other)	None Detected
11-06-PCH-23 241504952-0023	Addition west - white wood window frame caulk	White Non-Fibrous Homogeneous	3% Fibrous (Other)	97% Non-fibrous (Other)	None Detected
11-06-PCH-24 241504952-0024	Addition west - white wood window frame caulk	White Non-Fibrous Homogeneous	2% Fibrous (Other)	98% Non-fibrous (Other)	None Detected
11-06-PCH-25 241504952-0025	Addition west - white wood window glazing compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11-06-PCH-26 241504952-0026	Addition west - white wood window glazing compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Jeremy Patino (1)

Kristin Lopez (13)

William Shedrawy (11)

Gloria V. Oriol, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Wallingford, CT NVLAP Lab Code 200700-0,

Report amended: 11/19/2015 17:06:28 Replaces initial report from: 11/13/2015 11:00:32 Reason Code: Client-Change to Appearance

**EMSL Analytical, Inc.**

29 North Plains Highway, Unit # 4, Wallingford, CT 06492

Phone/Fax: 203-284-5948 / (203) 284-5978

<http://www.EMSL.com>wallingfordlab@emsl.com

EMSL Order: 241504952

CustomerID: TIGH62

CustomerPO:

ProjectID:

Attn: **Phillip Hutter**
Tighe & Bond
213 Court Street
Suite 900
Middletown, CT 06457

Phone: (860) 704-4760
Fax: (860) 704-4775
Received: 11/06/15 12:45 PM
Analysis Date: 11/19/2015
Collected: 11/6/2015

Project: 12-1077/CITIZENS BLOCK

Test Report: Asbestos Analysis of Non-Friable Organically Bound Materials by TEM
via EPA/600/R-93/116 Section 2.5.5.1

SAMPLE ID	DESCRIPTION	APPEARANCE	% MATRIX MATERIAL	% NON-ASBESTOS FIBERS	ASBESTOS TYPES
11-06-PCH-10 241504952-0010	East elevation - black wall/residual roof flashing	Black Fibrous Homogeneous	97.4	None	2.6% Chrysotile

Analyst(s)

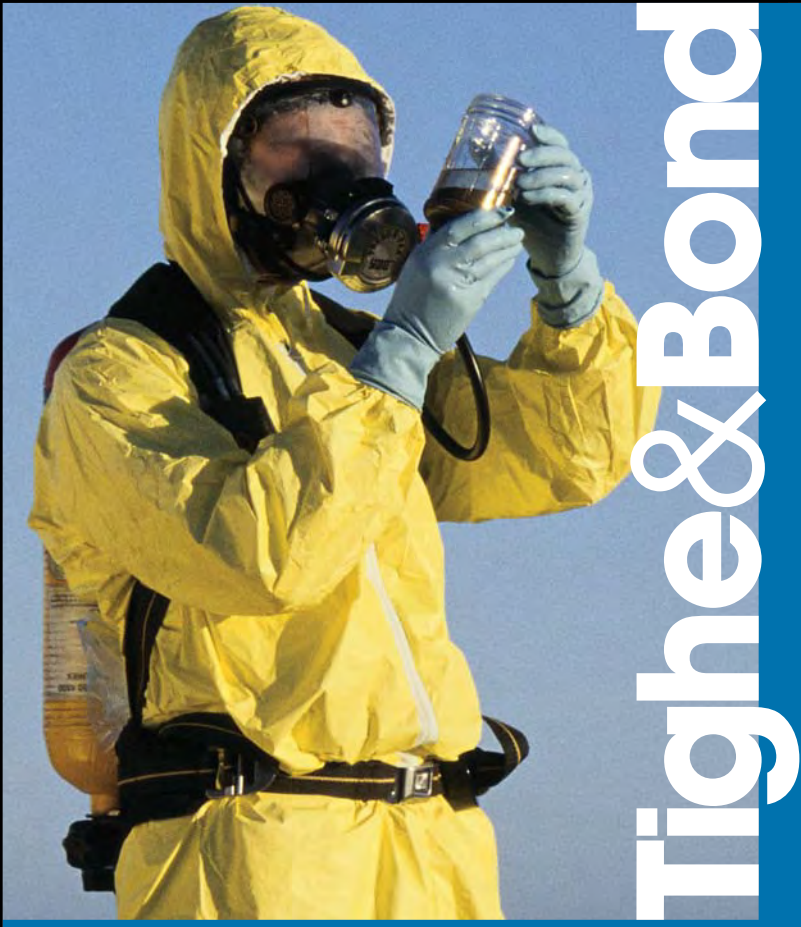
William Shedrawy (1)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

This laboratory is not responsible for % asbestos in total sample when the residue only is submitted for analysis. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Wallingford, CT

Report Amended: 11/19/2015 17:06:28 Replaces the Initial Report 11/13/2015 11:00:32. Reason Code: Client-Change to Appearance



Tighe & Bond



Thursday, November 12, 2015

Attn: Mr. Phillip Hutter
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: CITIZENS BLOCK VERNON
Sample ID#s: BK19345 - BK19350

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 12, 2015

FOR: Attn: Mr. Phillip Hutter
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: BULK
Location Code: TIGHE
Rush Request: Standard
P.O.#: 12-1077

Custody Information

Collected by: PCH
Received by: LB
Analyzed by: see "By" below

Date

11/06/15

Time

11:36

Laboratory Data

SDG ID: GBK19345
Phoenix ID: BK19345

Project ID: CITIZENS BLOCK VERNON
Client ID: 11-06-PB-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	7270	190	mg/Kg	100	11/09/15	LK	SW6010C
Total Metals Digest	Completed				11/06/15	G/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

November 12, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 12, 2015

FOR: Attn: Mr. Phillip Hutter
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: BULK
Location Code: TIGHE
Rush Request: Standard
P.O.#: 12-1077

Custody Information

Collected by: PCH
Received by: LB
Analyzed by: see "By" below

Date

11/06/15

Time

11:36

Laboratory Data

SDG ID: GBK19345
Phoenix ID: BK19346

Project ID: CITIZENS BLOCK VERNON
Client ID: 11-06-PB-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	149	1.8	mg/Kg	1	11/07/15	LK	SW6010C
Total Metals Digest	Completed				11/06/15	G/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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Phyllis Shiller, Laboratory Director

November 12, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 12, 2015

FOR: Attn: Mr. Phillip Hutter
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: BULK
Location Code: TIGHE
Rush Request: Standard
P.O.#: 12-1077

Custody Information

Collected by: PCH
Received by: LB
Analyzed by: see "By" below

Date

11/06/15
11/06/15

Time

11:36

Laboratory Data

SDG ID: GBK19345
Phoenix ID: BK19347

Project ID: CITIZENS BLOCK VERNON
Client ID: 11-06-PB-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	441	2.5	mg/Kg	1	11/07/15	LK	SW6010C
Total Metals Digest	Completed				11/06/15	G/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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Phyllis Shiller, Laboratory Director

November 12, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 12, 2015

FOR: Attn: Mr. Phillip Hutter
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: BULK
Location Code: TIGHE
Rush Request: Standard
P.O.#: 12-1077

Custody Information

Collected by: PCH
Received by: LB
Analyzed by: see "By" below

Date

11/06/15

Time

11:36

Laboratory Data

SDG ID: GBK19345
Phoenix ID: BK19348

Project ID: CITIZENS BLOCK VERNON
Client ID: 11-06-PB-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	1600	21	mg/Kg	10	11/09/15	LK	SW6010C
Total Metals Digest	Completed				11/06/15	G/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

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Phyllis Shiller, Laboratory Director

November 12, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 12, 2015

FOR: Attn: Mr. Phillip Hutter
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: BULK
Location Code: TIGHE
Rush Request: Standard
P.O.#: 12-1077

Custody Information

Collected by: PCH
Received by: LB
Analyzed by: see "By" below

Date

11/06/15

Time

11:36

Laboratory Data

SDG ID: GBK19345
Phoenix ID: BK19349

Project ID: CITIZENS BLOCK VERNON
Client ID: 11-06-PB-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	305000	2300	mg/Kg	1000	11/09/15	LK	SW6010C
Total Metals Digest	Completed				11/06/15	G/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

November 12, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 12, 2015

FOR: Attn: Mr. Phillip Hutter
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: BULK
Location Code: TIGHE
Rush Request: Standard
P.O.#: 12-1077

Custody Information

Collected by: PCH
Received by: LB
Analyzed by: see "By" below

Date

11/06/15

Time

11:36

Laboratory Data

SDG ID: GBK19345
Phoenix ID: BK19350

Project ID: CITIZENS BLOCK VERNON
Client ID: 11-06-PB-06

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	134000	2100	mg/Kg	1000	11/11/15	LK	SW6010C
Total Metals Digest	Completed				11/09/15	G/AG	SW3050B

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

November 12, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

November 12, 2015

QA/QC Data

SDG I.D.: GBK19345

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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QA/QC Batch 326190 (mg/kg), QC Sample No: BK13837 (BK19350)

ICP Metals - Soil

Lead	BRL	0.33	17.8	17.0	4.60	98.5	112	12.8	85.2	88.8	4.1	75 - 125	30
------	-----	------	------	------	------	------	-----	------	------	------	-----	----------	----

QA/QC Batch 326047 (mg/kg), QC Sample No: BK19358 (BK19345, BK19346, BK19347, BK19348, BK19349)

ICP Metals - Soil

Lead	BRL	0.33	116	111	4.40	103	103	0.0	88.9	83.6	6.1	75 - 125	30
------	-----	------	-----	-----	------	-----	-----	-----	------	------	-----	----------	----

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director
November 12, 2015

Sample Criteria Exceedences Report
GBK19345 - TIGHE

Criteria: None

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Customer: Tighe & Bond
Address: 213 Court Street
Middletown, CT

Project: City of Vernon
Report to: Philip Hutter
Invoice to: Westfield

Project P.O.: 12-1077

This section **MUST** be
completed with
Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Philip Hutter Date: 11/6/15

Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
OIL=Oil B=Bulk L=Liquid

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
19345	11-06-PB-01	B	11/6/15	
19346	11-06-PB-02			
19347	11-06-PB-03			
19348	11-06-PB-04			
19349	11-06-PB-05			
19350	11-06-PB-06			

Analysis
Request

Soil VOA Vials () 20	Soil VOA Vials () 20	GL Soil Container () 20	GL Soil Container () 20	GL Amber 1000ml () 20	PL As is () 250ml () 500ml () 1000ml	PL H2SO4 () 250ml () 500ml () 1000ml	PL NaOH 250ml	Bacteria Bottle
-----------------------	-----------------------	--------------------------	--------------------------	------------------------	---	---	---------------	-----------------

Total Lead

Relinquished by: Philip Hutter

Accepted by: [Signature]

Date: 11/6/15

Time: 11:36

RI

Direct Exposure
(Residential)

GW

Other

CT

RCP Cert

GW Protection

SW Protection

GA Mobility

GB Mobility

Residential DEC

I/C DEC

Other

MA

MCP Certification

GW-1

GW-2

GW-3

S-1

S-2

S-3

MWRA eSMART

Other

Data Format

Excel

PDF

GIS/Key

EquiS

Other

Data Package

Tier II Checklist

Full Data Package*

Phoenix Std Report

Other

Comments, Special Requirements or Regulations:

Turnaround:

1 Day*

2 Days*

3 Days*

Standard

Other

* SURCHARGE APPLIES

State where samples were collected: CT

* SURCHARGE APPLIES



Wednesday, November 11, 2015

Attn: Mr. Phillip Hutter
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Project ID: CITIZENS BLOCK VERNON
Sample ID#s: BK19351

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink that reads "Phyllis Shiller". The signature is written in a cursive style.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 11, 2015

FOR: Attn: Mr. Phillip Hutter
Tighe & Bond
213 Court St, Suite 1100
Middletown, CT 06457

Sample Information

Matrix: BULK
Location Code: TIGHE
Rush Request: Standard
P.O.#: 12-1077

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

11/06/15
11/06/15 11:36

Laboratory Data

SDG ID: GBK19351
Phoenix ID: BK19351

Project ID: CITIZENS BLOCK VERNON
Client ID: 11-06-TCLP-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
TCLP Lead	0.38	0.10	mg/L	1	11/09/15	EK	SW6010C
TCLP Metals Digestion	Completed				11/09/15	I/I	SW3005A
TCLP Extraction for Metals	Completed				11/06/15	I	SW1311

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

November 11, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

November 11, 2015

QA/QC Data

SDG I.D.: GBK19351

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 326125 (mg/L), QC Sample No: BK18542 (BK19351)													
<u>ICP Metals - TCLP Extraction</u>													
Lead	BRL	0.010	0.016	0.016	NC	97.9	102	4.1	97.4	101	3.6	75 - 125	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
November 11, 2015

Sample Criteria Exceedences Report
GBK19351 - TIGHE

Criteria: None

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

