Facility Support Services, LLC

Environmental & Safety Consulting Engineers

Connecticut Department of Housing
Community Development Block Grant – Disaster Recovery
Owner Occupied Recovery and Rehabilitation Program

Hazardous Materials
Inspection Report

896-898 Howard Avenue
Bridgeport, Connecticut

PREPARED FOR:

Martinez Couch & Associates, LLC
1084 Cromwell Ave. Suite A-2
Rocky Hill, CT 06067

PREPARED BY:

Facility Support Services, LLC
2685 State Street
Hamden, CT 06517
Phone (203) 288-1281

October 13, 2014

FSS #22214-2149

SIGNATURES OF REPORT AUTHORS

The employees of Facility Support Services, LLC whose names appear below prepared this report. Requests for information on the content of this document should be directed to these individuals.

Kevin S. Bogue, LEP, CHMM
Project Manager
CTDPH Asbestos Inspector #000157

2685 State Street • Hamden, Connecticut 06517
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TABLE OF CONTENTS

TABLES

ATTACHMENTS

I. Introduction

Facility Support Services, LLC (FSS) was contracted by Martinez, Couch & Associates, LLC (MCA) to perform a limited scope hazardous materials survey of 896/898 Howard Avenue in Bridgeport, Connecticut (the "Site"). The purpose of this inspection was to identify the presence of asbestos, PCBs, and lead paint and mold in certain building materials proposed for removal/demolition that qualify for the repair/replacement of items damaged by the October 2012 Tropical Storm Sandy under the Connecticut Department of Housing (DOH), Community Development Block Grant – Disaster Recovery Owner Occupied Recovery and Rehabilitation Program. In addition, FSS performed radon testing as required for DOH funded projects.

FSS utilized best industry practices to identify all suspect materials associated with the structures. Any material that has not been identified during this inspection or discovered during renovation/demolition activities must be presumed to be hazardous until such time that samples of the material can be collected and analyzed.

II. Mold

FSS conducted sampling for mold on September 22, 2014. Testing for total spores in air was conducted for the following areas of 896/898 Howard Avenue in Bridgeport, Connecticut to identify concerns with indoor air quality related to mold and fungi:

- Basement (near entrance staircase)
- Basement (near room divider)
- Outside of House

The outside ambient air sample provided a background reference sample (collected from a location in the front yard). Mr. Kevin Bogue of FSS conducted the spore sampling utilizing an air sampling pump and sample media. Air was collected at a rate of 15.0 liters of air per minute. The samples were collected on Air-O-Cell type sampling cartridges located in line with the sampling pump, which ran for 10 minutes at each sampling location.

The spore samples were analyzed by EMSL Analytical of Wallingford, Connecticut for the identification and enumeration of spores (EMSL Method M001). EMSL is a State of Connecticut, Department of Public Health certified laboratory (Accreditation Number 165118). Analytical reports for mold are included in Appendix A.

The analysis for total spore counts is a direct microscopic examination and does not include culturing or growing fungi. Therefore, the results include both viable and non-viable spores. Spore trap results are reported in spores per cubic meter of air.

Table 1
Summary of Laboratory Analysis of Spore Types
896/898 Howard Avenue, Bridgeport, Connecticut

Sample Number & Location	Raw Count	Total Fungi (Count/m^3)	Spore Types Present
20140922_2149_MS1 Basement (near staircase)	585	12,310	Alternaria, Ascospores, Aspergillus/Penicillium, Basidiospores, Chaetomium, Cladosporium, Curvularia, Epicoccum, Ganoderma, Myxomycetes, Pithomyces, Rust, Stachybotrys, Arthrinium
20140922_2149_MS2 Basement (room divider)	1,069	22,470	Alternaria, Ascospores, Aspergillus/Penicillium, Basidiospores, Chaetomium, Cladosporium, Curvularia, Epicoccum, Ganoderma, Myxomycetes, Pithomyces, Stachybotrys
20140922_2149_MS3 Outside	725	15,240	Alternaria, Ascospores, Aspergillus/Penicillium, Basidiospores, Cladosporium, Fusarium, Ganoderma, Myxomycetes, Pithomyces, Rust, Zygomycetes, Cercospora, Polythrincium

The suite of mold spores in the outside sample versus the interior samples are similar. The primary mold species were Aspergillus/Pencillium for the basement samples; Cladosporium for the outside sample.

Basidiospores are associated with forest floors, lawns and plants, and can grow on wood containing products. Basidiospores below to members of the Phylum Basidiomycota, which includes mushrooms and fungi.

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Cladosporium – Cladosporiums natural habitat is dead plant matter, soil and woody plants. In indoor environments, this spore type is found on fiberglass duct liners, paints, and textiles, especially in water damaged buildings. This spore type is associated with hay fever and asthma.

In Connecticut, there are currently no regulatory standards directly governing mold/fungal spore concentrations. Although no standards for mold exist, some information regarding levels have been published, including the following:

Baxter, et al considers mold contamination present in a building when the total mold spore concentration per cubic meter is above 10,000. However in special cases, even low quantitative levels of certain particles or particle types (such as *Penicillium/Aspergillus* spore chains in an un-treated building) may be diagnostic and may indicate a hidden mold reservoir that merits further investigation.

FSS's investigation found total spore concentrations inside the 896/898 Howard Avenue residence of up to 22,470/m^3, which is above the 10,000/m^3 level noted above.

The American Conference of Government Industrial Hygienists (ACGIH) stated that indoor mold levels are generally less than 1/3 the outdoor level and that when indoor mold is at more than this level remedial action should be taken to find the source of the elevated counts and to clean it up. However, this is a general rule and may be inaccurate and unreliable method for screening buildings for mold. FSS's investigation found a total spore concentration in the interior samples at levels slightly below (by basement entrance) and above the outside sample (middle of basement, near room divider).

III. Asbestos

FSS conducted a limited scope asbestos inspection and bulk sampling on September 22, 2014 of suspect building materials that are proposed for renovations. The inspection was conducted by Kevin Bogue, a State of Connecticut licensed Asbestos Inspector. Mr. Bogue's Connecticut Asbestos Inspectors/Management Planner license is provided in Appendix B.

The following suspect materials were indentified during the inspection:

- Yellow mastic beneath grey carpet (basement)
- Yellow/tan linoleum (basement)
- Black mastic associated with yellow/tan linoleum
- Sheetrock
- Sheetrock joint compound
- Roof Shingle (lower)
- Roof Shingle (top)

This asbestos inspection was performed in accordance with the EPA, NESHAP regulations for building renovations and demolition, 40 CFR Part 61, Amended 11/20/1990. The bulk asbestos samples collected during this inspection were delivered under full chain of custody and analyzed by EMSL Analytical, Inc., via EPA/600/R-93/116. This is currently the approved EPA test method, which uses Polarized Light Microscopy (PLM). EMSL Analytical, Inc. is an accredited asbestos laboratory (NVLAP # 200700-0) and is a State of Connecticut approved public health laboratory for asbestos analysis. Copies of the laboratory analytical results can be found in Attachment C of this report.

Laboratory results have revealed that the asbestos content of the tested materials are below the 1% required to confirm a material as asbestos containing.

IV. Radon

Initial radon testing was conducted by Mr. Kevin Bogue. Test results were obtained by using a passive activated charcoal device manufactured and analyzed by Radon Testing Corporation of America of Elmsford, New York. The test devices are individually numbered and marked with a bar code for identification (RTCA 4 Pass Charcoal Canister, NRSB Device Code 10331).

Devices were placed in the basement level of the residence on September 22, 2014. The sampling devices was placed on tables with a yellow “Do Not Disturb Test in Progress” warning sign placed beneath the test device. The homeowner was reminded to

not open windows or to allow anyone to tamper with the test device. Testing time was approximately 7 days.

The Radon canister was submitted to Radon Testing Corporation of America for analysis. The analytical result for the samples as shown on Table 1 below. The EPA action level established for Radon is 4.0 pCi/L. Analytical result reports are included in Appendix D.

Table 2
Summary of Laboratory Analysis of Radon
110 East Rocks Road, Norwalk, Connecticut

Canister ID#	Location	Radon Concentration (pCi/L)
June 22-29, 2014		
2333070	Basement (room divider)	1.0
2343052	Basement (refrigerator)	1.4

V. PCBs

Following an inspection of building materials proposed for renovations, two suspected PCB-containing materials were identified.

- Yellow mastic beneath grey carpet (basement)
- Black mastic associated with yellow/tan linoleum

FSS collected a sample of these materials for laboratory analysis for PCBs by EPA Method 8082A with Soxhlet Extraction. Complete Environmental Testing of Stratford, Connecticut was utilized to conduct the analysis.

Laboratory data indicates that the PCB content of the sampled materials was below detectable levels (<0.80 ppm and <0.20 ppm) and below the 1 ppm action level for PCBs. No further investigations or special disposal requirements (for PCBs) are required for these materials. Laboratory analytical data for PCBs are provided in Appendix E.

VI. Lead

The subject residential structure was built prior to 1978 (in 1922) and therefore the likelihood that lead painted surfaces are present is increased. As a residential structure built prior to 1978 the removal of lead painted materials where a child under 6 is housed, or may visit, would trigger the EPA Renovation, Repair and Painting (RRP) rule. Furthermore, adherence to the requirements of The Lead-Safe Housing Rule (US Department of Housing and Urban development, HUD) are stipulated by the Connecticut Department of Housing (DOH) as part of the Community Development Block Grant – Disaster Recovery Owner Occupied Recovery and Rehabilitation Program.

A building wide XRF inspection was conducted by Maureen Monaco of Gilberto Lead Inspections, LLC (Gilbertco) utilizing a Scitec Map4 Portable X-Ray Fluoroscope Spectrum Analyzer with a Cobalt 57 source. Appendix F contains the Lead Inspection Report. The findings of the investigation determined several areas tested positive for lead based paint (>1.0 mg/cm^2):

- Front Porch
  - Window Sill
  - Wall
  - Window Trim
  - Clapboard
  - Door Jamb
  - Door Casing
  - Threshold
- Laundry
  - Wall
- Kitchen
  - Wall – Upper
  - Wall
- Bathroom
  - Window Trim
  - Window Stop
- Rear Bedroom
  - Door Jamb
  - Door Casing
  - Window Sill
  - Window Trim
  - Window Stop
  - Closet Door Casing

Non-Intact Materials

A copy of the Gilbertco Lead Inspection Report is provided in Appendix E. Following the HUD Lead-Safe Housing Guidelines, non-intact materials should undergo interim measures to abate the hazard. Non-intact lead containing materials have been identified as the following:

- Front Porch
  - Window Sill
  - Wall
  - Window Trim

Demolition Materials

When toxic wastes are land disposed, contaminated liquid may leach from the waste and pollute ground water. Toxicity is defined through a laboratory procedure called the Toxicity Characteristic Leaching Procedure (TCLP) (Method 1311). The TCLP helps identify wastes likely to leach concentrations of contaminants that may be harmful to human health or the environment. There are no areas that tested positive for lead (regardless of intactness) that are proposed for demolition.

Soils

The lead inspection also included a composite sample of soil from a bare soil area located on the right side of the property. Soil sampling found soils have a lead concentration of 298 ppm, below the 400 ppm action level for lead in soil, and therefore no soil excavation is required.

VII. Conclusions & Recommendations

When the structure is renovated, all removed debris should be sent to an appropriate landfill for final disposal following all appropriate regulations. Any work involving lead-containing paints should be conducted under the EPA's RRP Renovation, Repair and Painting Rule. Any material discovered during renovation activities which have not been included in this survey must be presumed to contain asbestos, lead and PCBs until such time that the material can be evaluated and sampled.

Mold - FSS's investigation found total spore concentrations inside the 896 Howard Avenue residence of up to 22,470/m^3. The preponderance of spores in the basement of the residence indicates that mold remediation should be conducted.

Asbestos – No asbestos containing materials (>1% asbestos) were identified in materials proposed for renovation or demolition.

PCBs - Two suspected PCB-containing materials were identified in proposed renovation materials and sampled. Laboratory data indicates that the PCB content of the sampled materials was below detectable levels and below the 1 ppm action level for PCBs. No further investigations or special disposal requirements (for PCBs) are required for these materials.

Radon – Levels of radon were identified in the basement of the residence at levels of 1.0 and 1.4 pCi/L, below the EPA action level of 4.0 pCi/L. No further work related to radon will be required.

Lead - Following the HUD Lead-Safe Housing Guidelines, the non-intact areas should undergo interim measures to abate the hazard. The following areas were non-intact as well as testing positive:

- Front Porch
    - Window Sill
    - Wall
    - Window Trim

There are no areas that tested positive for lead (regardless of intactness) that are proposed for demolition. No further consideration for lead containing demolition debris is required for this project.

The lead inspection also included a composite sample of soil from a bare soil area located on the right side of the property. Soil sampling found soils have a lead concentration of 298 ppm, below the 400 ppm action level for lead in soil, requiring remediation of soils. However, ground cover is recommended to be planted near the perimeter of the house or in water runoff areas. Asphalt, bushes, mulch, or good quality grass covering are acceptable.

ATTACHMENTS

ATTACHMENT A

MOLD ANALYTICAL DATA

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

Order ID:	241403795
Customer ID:	FSS93
Customer PO:	
Project ID:	

Attn: Kevin Bogue
Facility Support Services, LLC
2685 State Street
Hamden, CT 06517

Phone:	(203) 288-1281
Fax:	(203) 248-4409
Collected:	09/22/2014
Received:	09/24/2014
Analyzed:	09/25/2014

Proj: 22214-2149

Test Report: Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods EMSL 05-TP-003, ASTM D7391)

Lab Sample Number:	241403795-0001			241403795-0002			241403795-0003		
Client Sample ID:	20140922_2149_MS1			20140922_2149_MS2			20140922_2149_MS3		
Volume (L):	150			150			150		
Sample Location:	Basement #1			Basement #2			Outside		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria	12	250	2	2	40	0.2	15	320	2.1
Ascospores	74	1600	13	42	890	4	186	3930	25.8
Aspergillus/Penicillium	307	6480	52.6	858	18100	80.6	1	20	0.1
Basidiospores	59	1200	9.8	37	780	3.5	92	1900	12.5
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	9	200	1.6	9	200	0.9	-	-	-
Cladosporium	39	820	6.7	73	1500	6.7	335	7070	46.4
Curvularia	5	100	0.8	2	40	0.2	-	-	-
Epicoccum	3	60	0.5	2	40	0.2	-	-	-
Fusarium	-	-	-	-	-	-	5	100	0.7
Ganoderma	20	420	3.4	12	250	1.1	21	440	2.9
Myxomycetes++	40	840	6.8	23	490	2.2	40	840	5.5
Pithomyces	5	100	0.8	2	40	0.2	15	320	2.1
Rust	4	80	0.7	-	-	-	4	80	0.5
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	4	80	0.7	7	100	0.4	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	4	80	0.5
Arthrinium	4	80	0.7	-	-	-	-	-	-
Cercospora	-	-	-	-	-	-	2	40	0.3
Polythrincium	-	-	-	-	-	-	5	100	0.7
Total Fungi	**585**	**12310**	**100**	**1069**	**22470**	**100**	**725**	**15240**	**100**
Hyphal Fragment	40	840	6.8	17	360	1.6	33	700	4.6
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	6	100	0.8	-	-	-	25	530	3.5
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	2	-	-	2	-	-	-	-
Fibrous Particulate (1-4)	-	2	-	-	2	-	-	-	-
Background (1-5)	-	3	-	-	4	-	-	2	-

Bipolaris++ = Bipolaris/Drechslera/Exserohilum
Myxomycetes++ = Myxomycetes/Periconia/Smut

No discernable field blank was submitted with this group of samples.

Gloria V. Oriol, Laboratory Manager
or Other Approved Signatory

Samples analyzed by EMSL Analytical, Inc. Wallingford, CT AIHA-LAP, LLC--EMLAP Lab 165118

Initial report from: 09/25/2014 16:29:41

For Information on the fungi listed in this report please visit the Resources section at www.emsl.com

EMSL Analytical, Inc.
29 North Plains Hwy, Unit 4

Wallingford, CT 06492
PHONE: (203) 284-5948
FAX: (203) 284-5978

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Chain of Custody

EMSL Order Number *(Lab Use Only)*: 241403795

Company: Facilty Support Services, LLC	**EMSL-Bill to:** ✓ Same ☐ Different If Bill to is Different note instructions in Comments**
Street: 2685 State Street	Third Party Billing requires written authorization from third party
City: Hamden **State/Province:** CT	**Zip/Postal Code:** 06517 **Country:** United States
Report To (Name): Kevin Bogue	**Telephone #:** 203-288-1281
Email Address: kbogue.fss@snet.net	**Fax #:** **Purchase Order:**
Project Name/Number: 22214-2149	**Please Provide Results:** ☐ FAX ✓ E-mail ☐ Mail
U.S. State Samples Taken: CT	**Connecticut Samples:** Commercial (Residential)

Turnaround Time (TAT) Options* - Please Check

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

For RUSH TAT's Please Call Ahead to Confirm Lab Hours and Availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in Business Days rather than Hours (i.e. 24 Hour = End of Next Business Day)

Asbestos

PCM - Air
☐ NIOSH 7400
☐ w/ 8hr. TWA

TEM– Air ☐ 4-4.5hr TAT(AHERA ONLY)
☐ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Water
Fibers ≥10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

PLM - Bulk
☐ PLM EPA 600/R-93/116
☐ PLM EPA NOB (<1%)
☐ NYS 198.1 (friable-NY)
☐ NYS 198.6 (non-friable-NY)
Point Count ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/ Gravimetric ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

TEM - Dust
☐ Microvac – ASTM D 5755
☐ Wipe-ASTM D6480

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP

Soil/Rock/Vermiculite
☐ PLM CARB 435 – A (0.25% sensitivity)
☐ PLM CARB 435 – B (0.1% sensitivity)
☐ TEM CARB 435 – B (0.1% sensitivity)
☐ EPA Reg. 1 Screening Protocol (Qualitative)

Other:

Lead (Pb)

Flame Atomic Absorption
☐ Chips SW846-7000B or AOAC 974.02
☐ Soil SW846-7000B/7420
☐ Air NIOSH 7082
☐ Wastewater SM3111B or SW846-7000B/7420
☐ ASTM Wipe SW846-7000B/7420
☐ non ASTM Wipe SW846-7000B/7420
☐ TCLP SW846-1311/7420/SM 3111B

ICP
☐ Air NIOSH 7300 Modified
☐ non ASTM Wipe SW846-6010B or C
☐ ASTM Wipe SW846-6010B or C
☐ Soil SW846-6010 B or C
☐ Waste Water SW846-6010B or C
☐ TCLP SW846-6010B or C

Graphite Furnace Atomic Absorption
☐ Soil SW846-7421 ☐ Wastewater EPA 200.9
☐ Air NIOSH 7105 ☐ Drinking Water EPA 200.9

Other: ☐

Materials Science

☐ Common Particle ID (large particles)
☐ Full Particle ID (environmental dust)
☐ Basic Material ID (solids)
☐ Advanced Material ID
☐ Physical Testing (Tensile, Compression)
☐ Combustion-by-products (soot, char, etc.)
☐ X-Ray Fluorescence (elem. analysis)
☐ X-Ray Diffraction (Crystalline Part.)
☐ MMVF's (Fibrous glass, RCF's)
☐ Particle Size (sieve/microscopy/laser)
☐ Combustible Dust
☐ Petrographic Examination
Other: ☐

Microbiology

Wipe and Bulk Samples
☐ Mold & Fungi – Direct Examination
☐ Mold & Fungi Culture (Genus Only)
☐ Mold & Fungi Culture (Genus & Species)
☐ Bacterial Count & ID (Up to Three Types)
☐ Bacterial Count & ID (Up to Five Types)
☐ MRSA
☐ *Pseudomonas aeruginosa*

Water Samples
☐ Total Coliform & E.coli (P/A)
☐ Fecal Coliform (SM 9222D)
☐ Sewage Screen
☐ Heterotrophic Plate Count (SM 9215)

Air Samples
☒ Mold & Fungi (Spore Trap)
☐ Mold & Fungi Culture (Genus Only)
☐ Mold & Fungi (Genus & Species)
☐ Bacterial Culture & ID (Up to Three Types)
☐ Bacterial Culture & ID (Up to Five Types)
☐ Endotoxin Testing

Real Time Q-PCR (See Analytical Guide for Code)
Code:

Legionella
☐ Level 1 ☐ Level 2 ☐ Level 3 ☐ Level 4

Other: ☐

IAQ

Nuisance Dust NIOSH ☐ 0500 ☐ 0600
Airborne Dust ☐ PM10 ☐ TSP
Silica Analysis: ☐ All Species
Silica Analysis – Single Species
☐ Alpha Quartz ☐ Cristobalite ☐ Tridymite
☐ HVAC Efficiency
☐ Carbon Black
☐ Airborne Oil Mist
Radon Testing: Call for Kit and COC
Other: ☐

****Comments/Special Instructions:** Mold; Aero-Cell

Client Sample #'s	M1 - M3	**Total # of Samples:**	
Relinquished (Client): Kevin Bogue	**Date:** 9/24/14	**Time:** 8:30	
Received (Lab):	**Date:**	**Time:**	

RECEIVED SEP 24 2014 8:30 By WI

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Analytical, Inc.
29 North Plains Hwy, Unit 4

Wallingford, CT 06492
PHONE: (203) 284-5948
FAX: (203) 284-5978

Chain of Custody

EMSL Order Number *(Lab Use Only)*:

241403795

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
20140922_2149_MS1	Basement #1	150 l	9/22/14 1:05–1:15
20140922_2149_MS2	Basement #2	150 l	9/22/14 1:18–1:28
20140922_2149_MS3	outside	150 l	9/22/14 1:33–1:43

RECEIVED
SEP 24 2014
BY

*Comments/Special Instructions:

Analysis Completed in Accordance with EMSL's Terms and Conditions located in the Analytical Price Guide

ATTACHMENT B

FSS LISENSURE

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-INSP/MGMT PLANNER

KEVIN S. BOGUE

CERTIFICATE NO
000157

CURRENT THROUGH
08/31/15

VALIDATION NO.
03-928515

SIGNATURE

COMMISSIONER

ATTACHMENT C

ASBESTOS LABORATORY ANALYTICAL DATA

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:	241403790
CustomerID:	FSS93
CustomerPO:	
ProjectID:	

Attn: **Kevin Bogue**
Facility Support Services, LLC
2685 State Street

Hamden, CT 06517

Project: **22214-2149**

Phone:	(203) 288-1281
Fax:	(203) 248-4409
Received:	09/24/14 9:00 AM
Analysis Date:	9/25/2014
Collected:	9/22/2014

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**
20140922_2149_S1 A *241403790-0001*	Basement - grey carpet- yellow mastic	Tan Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	**None Detected**
20140922_2149_S1 B *241403790-0002*	Basement - grey carpet- yellow mastic	Tan Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
20140922_2149_S1 C *241403790-0003*	Basement - grey carpet- yellow mastic	Yellow Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	**None Detected**
20140922_2149_S2 A *241403790-0004*	Basement - yellow/tan linoleum	Tan Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
		This is a composite result of both vinyl and backing layers.					
20140922_2149_S2 B *241403790-0005*	Basement - yellow/tan linoleum	Tan Non-Fibrous Homogeneous	<1%	Glass	100%	Non-fibrous (other)	**None Detected**
		This is a composite result of both vinyl and backing layers.					
20140922_2149_S2 C *241403790-0006*	Basement - yellow/tan linoleum	Tan Non-Fibrous Homogeneous	3%	Glass	97%	Non-fibrous (other)	**None Detected**
		This is a composite result of both vinyl and backing layers.					

Analyst(s)

Kristin Lopez (7)
Lauren Brennan (12)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

Initial report from 09/26/2014 08:21:26

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:	241403790
CustomerID:	FSS93
CustomerPO:	
ProjectID:	

Attn: **Kevin Bogue**
Facility Support Services, LLC
2685 State Street

Hamden, CT 06517

Project: **22214-2149**

Phone:	(203) 288-1281
Fax:	(203) 248-4409
Received:	09/24/14 9:00 AM
Analysis Date:	9/25/2014
Collected:	9/22/2014

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**
20140922_2149_S3 A *241403790-0007*	Basement - yellow/tan linoleum black mastic	Black Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	**None Detected**
20140922_2149_S3 B *241403790-0008*	Basement - yellow/tan linoleum black mastic	Black Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	**None Detected**
20140922_2149_S4 A *241403790-0009*	Basement - sheetrock	White Non-Fibrous Homogeneous	5%	Cellulose	30% 65%	Gypsum Non-fibrous (other)	**None Detected**
20140922_2149_S4 B *241403790-0010*	Basement - sheetrock	White Non-Fibrous Homogeneous	2%	Cellulose	30% 68%	Gypsum Non-fibrous (other)	**None Detected**
20140922_2149_S4 C *241403790-0011*	Basement - sheetrock	White Fibrous Homogeneous	4%	Cellulose	35% 61%	Gypsum Non-fibrous (other)	**None Detected**
20140922_2149_S5 A *241403790-0012*	Sheetrock joint compound	White Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	**None Detected**
20140922_2149_S5 B *241403790-0013*	Sheetrock joint compound	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**

Analyst(s)

Kristin Lopez (7)
Lauren Brennan (12)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

Initial report from 09/26/2014 08:21:26

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:	241403790
CustomerID:	FSS93
CustomerPO:	
ProjectID:	

Attn: **Kevin Bogue**
Facility Support Services, LLC
2685 State Street

Hamden, CT 06517

Project: **22214-2149**

Phone:	(203) 288-1281
Fax:	(203) 248-4409
Received:	09/24/14 9:00 AM
Analysis Date:	9/25/2014
Collected:	9/22/2014

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**
20140922_2149_S6 A *241403790-0014*	Black (lower) shingle	Black Fibrous Homogeneous	2% 10%	Synthetic Cellulose	88%	Non-fibrous (other)	**None Detected**
20140922_2149_S6 B *241403790-0015*	Black (lower) shingle	Black Fibrous Homogeneous	15% 2%	Cellulose Synthetic	83%	Non-fibrous (other)	**None Detected**
20140922_2149_S6 C *241403790-0016*	Black (lower) shingle	Black Fibrous Homogeneous	20% 5%	Cellulose Synthetic	75%	Non-fibrous (other)	**None Detected**
20140922_2149_S7 A *241403790-0017*	Brown (top) shingle	Black Fibrous Homogeneous	5%	Glass	95%	Non-fibrous (other)	**None Detected**
20140922_2149_S7 B *241403790-0018*	Brown (top) shingle	Black Fibrous Homogeneous	4% <1%	Glass Synthetic	96%	Non-fibrous (other)	**None Detected**
20140922_2149_S7 C *241403790-0019*	Brown (top) shingle	Black Fibrous Homogeneous	10%	Glass	90%	Non-fibrous (other)	**None Detected**

Analyst(s)

Kristin Lopez (7)
Lauren Brennan (12)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

Initial report from 09/26/2014 08:21:26

EMSL Analytical, Inc.
29 North Plains Hwy, Unit 4

Wallingford, CT 06492
PHONE: (203) 284-5948
FAX: (203) 284-5978

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*): 241403790

Company: Facilty Support Services, LLC	**EMSL-Bill to:** ☐ Different ☑ Same If Bill to is Different note instructions in Comments**
Street: 2685 State Street	*Third Party Billing requires written authorization from third party*
City: Hamden **State/Province:** CT	**Zip/Postal Code:** 06517 **Country:** United States
Report To (Name): Kevin Bogue	**Telephone #:** 203-288-1281
Email Address: kbogue.fss@snet.net	**Fax #:** **Purchase Order:**
Project Name/Number: 22214-2149	**Please Provide Results:** ☐ FAX ☑ E-mail ☐ Mail
U.S. State Samples Taken: CT	**Connecticut Samples:** ☐ Commercial ☒ Residential

Turnaround Time (TAT) Options* – Please Check

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

**For TEM Air 3 hr through 6 hr, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air ☐ Check if samples are from NY
☐ NIOSH 7400
☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
☒ PLM EPA 600/R-93/116 (<1%)
☐ PLM EPA NOB (<1%)
Point Count
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
Point Count w/Gravimetric
☐ 400 (<0.25%) ☐ 1000 (<0.1%)
☐ NYS 198.1 (friable in NY)
☐ NYS 198.6 NOB (non-friable-NY)
☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT** (AHERA only)
☐ AHERA 40 CFR, Part 763
☐ NIOSH 7402
☐ EPA Level II
☐ ISO 10312

TEM - Bulk
☐ TEM EPA NOB
☐ NYS NOB 198.4 (non-friable-NY)
☐ Chatfield SOP
☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
Fibers >10µm ☐ Waste ☐ Drinking
All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
☐ Microvac - ASTM D 5755
☐ Wipe - ASTM D6480
☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
☐ PLM CARB 435 - A (0.25% sensitivity)
☐ PLM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - B (0.1% sensitivity)
☐ TEM CARB 435 - C (0.01% sensitivity)
☐ TEM Qual. via Filtration Technique
☐ TEM Qual. via Drop-Mount Technique

Other:
☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group** **Filter Pore Size (Air Samples):** ☐ 0.8µm ☐ 0.45µm

Samplers Name: Kevin Bogue **Samplers Signature:** Kevin Bogue

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
20140922_2149_S1A	basement grey carpet - yellow mastic	1	9/22/14
_S1B	↓	1	↓
_S1C	↓	1	↓
20140922_2149_S2A	yellow/tan Linoleum, basement	2	↓
_S2B	↓	2	↓
_S2C	↓	2	↓
20140922_2149_S3A	Yellow/tan Linoleum blck mastic, basement	3	↓
_S3B	↓	3	↓

Client Sample # (s): S1A - S6C **Total # of Samples:** 19

Relinquished (Client): Kevin Bogue **Date:** 9/24/14 **Time:** 8:30

Received (Lab): **Date:** **Time:**

Comments/Special Instructions:

RECEIVED SEP 24 2014 8:30 BY

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Analytical, Inc.
29 North Plains Hwy, Unit 4

Wallingford, CT 06492
PHONE: (203) 284-5948
FAX: (203) 284-5978

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

241403790

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

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
20140922-2149-S4A	Sheetrock (Basement)	4	9/22/14
S4B	↓	↓	↓
S4C	↓	↓	↓
20140922-2149-S5A	Sheetrock joint compound	5	↓
S5B	↓	5	↓
20140922-2149-S6A	Black (lower) shingle	6	↓
S6B	↓	6	↓
S6C	↓	6	↓
20140922-2149-S7A	brown (top) shingle	7	↓
S7B	↓	7	↓
S7C	↓	7	↓

*Comments/Special Instructions:

RECEIVED
SEP 24 2014
8:30
By

ATTACHMENT D

RADON ANALYTICAL DATA

PC1409300096

RTCA RADON TESTING CORPORATION OF AMERICA

Site Radon Inspection Report

Date : 09/30/2014

Kevin Bogue
FACILITY SUPPORT SVCS., LLC
2685 State Street
Hamden, CT 06517-

Client: Anderson
Test Location: 896/898 Howard Ave
Bridgeport, CT 06605-

Individual Canister Results

Canister ID# :	2333070	Test Start :	09/22/2014 @ 13:11
Canister Type :	Charcoal Canister 3 inch	Test Stop :	09/29/2014 @ 12:10
Location :	Basement	Received:	09/30/2014 @ 16:36
Radon Level :	1.0 pCi/L	Analyzed:	09/30/2014 @ 14:58
Error for Measurement is:	± 0.2 pCi/L		

Canister ID# :	2343052	Test Start :	09/22/2014 @ 13:13
Canister Type :	Charcoal Canister 3 inch	Test Stop :	09/29/2014 @ 12:10
Location :	Basement-Refrige/tor	Received:	09/30/2014 @ 16:36
Radon Level :	1.4 pCi/L	Analyzed:	09/30/2014 @ 14:58
Error for Measurement is:	± 0.2 pCi/L		

The reported results indicate that radon levels in the building tested are below the United States Environmental Protection Agency (EPA) action level of 4.0 picoCuries per liter of air (pCi/L). The EPA recommends retesting if your living patterns change and you begin occupying a lower level of the building, such as a basement or if major remodeling is done.

General radon information may be obtained by consulting the EPA booklet: A Citizen's Guide to Radon (www.epa.gov/radon/pubs/citguide.html). To request a copy or for further information, please contact your state health department. The EPA maintains a radon information website, including copies of its publications, at www.epa.gov/iaq/radon.

For New Jersey clients: Please see the attached guidance document entitled Radon Testing and Mitigation: The Basics for further information.

For New York clients: If the radon level of one or more testing devices is equal to or exceeds 20 pCi/L please contact the New York State Department of Health, Bureau of Environmental Radiation Protection, for technical advice and assistance at 518-402-7556 or toll free1-800-458-1158.

PLEDGE OF ASSURED QUALITY

All procedures used for generating this report are in complete accordance with the current EPA protocols for the analysis of radon in air (EPA 402-R-92-004). The analytical results relate only to the samples tested, in the condition received by the lab, and that calculations were based upon the information supplied by client. RTCA and its personnel do not assume responsibility or liability , collectively and individually, for analysis results when detectors have been improperly handled or placed by the consumer, nor does RTCA and its personnel accept responsibility for any financial or health consequences of subsequent action or lack of action, taken by the customer or it's consultants based on RTCA-provided results.

National Radon Safety Board NRSB Certified Radon Professionals

Andreas C. George
Radon Measurement Specialist
NJ MES 11089

Dante Galan
Laboratory Director

NRSB ARL0001
NYS ELAP ID: 10806
PADEP ID: 0346
NJDEP ID: NY933
NJ MEB 90036
FL DOH RB1609
IL RNL2000201

(914)345-3380
FAX (914)345-8546

2 Hayes Street, Elmsford, NY 10523
www.rtca.com

ATTACHMENT E

PCB ANALYTICAL DATA

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Mr. Kevin Bogue
Facility Support Services
2685 State Street
Hamden, CT 06517

Analytical Report

CET# 4090649

Report Date: October 01, 2014
Project: 22214-2149
Project Number: Bridgeport

Connecticut Laboratory Certificate: PH 0116
Massachussetts laboratory Certificate.: M-CT903

New York Certification: 11982
Rhode Island Certification: 199

SAMPLE SUMMARY

The sample(s) were received at 3.9°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
20140922_2149_P1	4090649-01	Solid	9/22/2014	09/23/2014
20140922_2149_P2	4090649-02	Solid	9/22/2014	09/23/2014

Client Sample ID 20140922_2149_P1
Lab ID: 4090649-01

PCBs by Soxhlet
Method: EPA 8082A

Analyst: CA
Matrix: Solid

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.80	4	EPA 3540C	B4I2411	09/24/2014	09/26/2014 13:11	
PCB-1221	ND	0.80	4	EPA 3540C	B4I2411	09/24/2014	09/26/2014 13:11	
PCB-1232	ND	0.80	4	EPA 3540C	B4I2411	09/24/2014	09/26/2014 13:11	
PCB-1242	ND	0.80	4	EPA 3540C	B4I2411	09/24/2014	09/26/2014 13:11	
PCB-1248	ND	0.80	4	EPA 3540C	B4I2411	09/24/2014	09/26/2014 13:11	
PCB-1254	ND	0.80	4	EPA 3540C	B4I2411	09/24/2014	09/26/2014 13:11	
PCB-1260	ND	0.80	4	EPA 3540C	B4I2411	09/24/2014	09/26/2014 13:11	
PCB-1268	ND	0.80	4	EPA 3540C	B4I2411	09/24/2014	09/26/2014 13:11	
PCB-1262	ND	0.80	4	EPA 3540C	B4I2411	09/24/2014	09/26/2014 13:11	
Surrogate: TCMX	*72.9 %*	*50 - 150*			B4I2411	09/24/2014	*09/26/2014 13:11*	
Surrogate: DCB	*78.4 %*	*50 - 150*			B4I2411	09/24/2014	*09/26/2014 13:11*	

Client Sample ID 20140922_2149_P2
Lab ID: 4090649-02

PCBs by Soxhlet **Analyst: CA**

Method: EPA 8082A **Matrix: Solid**

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.20	1	EPA 3540C	B4I2411	09/24/2014	09/26/2014 13:30	
PCB-1221	ND	0.20	1	EPA 3540C	B4I2411	09/24/2014	09/26/2014 13:30	
PCB-1232	ND	0.20	1	EPA 3540C	B4I2411	09/24/2014	09/26/2014 13:30	
PCB-1242	ND	0.20	1	EPA 3540C	B4I2411	09/24/2014	09/26/2014 13:30	
PCB-1248	ND	0.20	1	EPA 3540C	B4I2411	09/24/2014	09/26/2014 13:30	
PCB-1254	ND	0.20	1	EPA 3540C	B4I2411	09/24/2014	09/26/2014 13:30	
PCB-1260	ND	0.20	1	EPA 3540C	B4I2411	09/24/2014	09/26/2014 13:30	
PCB-1268	ND	0.20	1	EPA 3540C	B4I2411	09/24/2014	09/26/2014 13:30	
PCB-1262	ND	0.20	1	EPA 3540C	B4I2411	09/24/2014	09/26/2014 13:30	
Surrogate: TCMX	*48.6 %*	*50 - 150*			B4I2411	09/24/2014	*09/26/2014 13:30*	**L**
Surrogate: DCB	*56.2 %*	*50 - 150*			B4I2411	09/24/2014	*09/26/2014 13:30*	

QUALITY CONTROL SECTION

Batch B4I2411 - EPA 8082A

Analyte	Result (mg/kg (As Rec))	RL (mg/kg (As Rec))	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B4I2411-BLK1)					Prepared: 9/24/2014 Analyzed: 9/26/2014				
PCB-1016	ND	0.20							
PCB-1221	ND	0.20							
PCB-1232	ND	0.20							
PCB-1242	ND	0.20							
PCB-1248	ND	0.20							
PCB-1254	ND	0.20							
PCB-1260	ND	0.20							
PCB-1268	ND	0.20							
PCB-1262	ND	0.20							
Surrogate: TCMX					*70.7*	*50 - 150*			
Surrogate: DCB					*80.4*	*50 - 150*			
LCS (B4I2411-BS1)					Prepared: 9/24/2014 Analyzed: 9/26/2014				
PCB-1016	0.842	0.20	1.000		84.2	50 - 150			
PCB-1260	0.901	0.20	1.000		90.1	50 - 150			
Surrogate: TCMX					*91.4*	*50 - 150*			
Surrogate: DCB					*103*	*50 - 150*			
Duplicate (B4I2411-DUP1)		**Source: 4090649-01**			Prepared: 9/24/2014 Analyzed: 9/26/2014				
PCB-1016	ND	0.20		ND				50	
PCB-1221	ND	0.20		ND				50	
PCB-1232	ND	0.20		ND				50	
PCB-1242	ND	0.20		ND				50	
PCB-1248	ND	0.20		ND				50	
PCB-1254	ND	0.20		ND				50	
PCB-1260	ND	0.20		ND				50	
PCB-1268	ND	0.20		ND				50	
PCB-1262	ND	0.20		ND				50	
Surrogate: TCMX					*42.6*	*50 - 150*			**L**
Surrogate: DCB					*46.0*	*50 - 150*			**L**

Batch S4I2601 - EPA 8082A

Analyte	Result (ug/L)	RL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Calibration Check (S4I2601-CCV1)					Prepared: 9/26/2014 Analyzed: 9/26/2014				
PCB-1016	1010		1,000.000		101	80 - 120			
PCB-1260	925		1,000.000		92.5	80 - 120			
Surrogate: TCMX					*103*	*50 - 150*			
Surrogate: DCB					*92.0*	*50 - 150*			

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-tarer organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected
RL	Reporting Limit
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte foun in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

NELAP ACCREDITED TNI LABORATORY

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903
New York Certification 11982
Rhode Island Certification 199

Questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

Report Comments:

Sample Result Flags:
E- The result is estimated, above the calibration range.
H- The surrogate recovery is above the control limits.
L- The surrogate recovery is below the control limits.
B- The compound was detected in the laboratory blank.
P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
D- The RPD between the sample and the sample duplicate is high. Sample Homogenity may be a problem.
+- The Surrogate was diluted out.
*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at the specified detection limit
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.

CET
COMPLETE ENVIRONMENTAL TESTING, INC.

4090649

OF CUSTODY RECORD

Volatile Soils Only:

Date and Time in Freezer
Client:
CET:

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking W., C=Cassette, Solid, Wipe, Other (Specify)

Turnaround Time ** (check one)

Sample ID	Date/Time	Matrix	Same Day	24 Hours	2–3 Days	Standard	8260 CT List	8260 Aromatics	8260 Halogens	SPLP 8260	TCLP 8260	TPH (418.1)	CT ETPH	8270 CT List	8270 PNAs	PCBs (Soxhlet)	Pesticides	13 Priority Poll	8 RCRA	TOTAL	TCLP	SPLP	Field Filtered	Lab To Filter	Additional Analysis	TOTAL # OF CONT.	NOTE #
20140922_2149_P1	9/22/14	Solid				X										X											
20140922_2149_P2	9/22/14	Solid				X										X											

Organics: 8260 CT List through Pesticides. Metals (check all that apply): 13 Priority Poll through Lab To Filter.

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B= Sodium Bisulfate W=Water F= Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
Ken Bogue	9/22/14 9/23/14 1445	[illegible signature]
[illegible signature]	9/23/14 1545	[illegible signature]

NOTES:

Client / Reporting Information

Company Name: Facility Support Services, LLC

Address: 2685 State Street

City: Hamden State: CT Zip: 06517

Report To: Kevin Bogue E-mail: KBogue_FSS@SNET.NET

Phone #: 203 288 1281 Fax #:

Project Information

Project Contact: K. Bogue PO #: —

Project: 22214 – 2149 Project #: 22214

Location: Bridgeport, CT Collector(s): KSB

QA/QC: ☒ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg *

Data Report: ☒ Email ☐ PDF ☐ Excel ☐ Other

RSR Reporting Limits (check one): ☐ GA ☐ GB ☐ SWP ☒ Other (Specify) 1ppm

Lab Use:
Evidence of Cooling: Y or N
Temp Upon Receipt 3.9 °C

SHEET 1 OF 1

* Additional charge may apply. ** TAT begins when the samples are received at the Lab. TAT for samples received after 3 p.m. will start on the next business day.

REV. 5/9/06

ATTACHMENT F

LEAD REPORT

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

LEAD INSPECTION AND TESTING SUMMARY FORM

This lead inspection and testing summary form must be completed and sent to the property owner of the property in accordance with Section 19a-111-3 (d) of the regulations of Connecticut State Agencies concerning Lead Poisoning Prevention and Control. A Comprehensive Lead Inspection is one performed to satisfy CGS 19a-111 (epidemiological investigation) and CGS 19a-110(d) (on-site inspection). Bare soil areas, dust and water are required to be tested for the presence of lead as part of a comprehensive lead inspection.

PROPERTY INSPECTED/TESTED

(Check): Residence ☑ Child Day Care Center/Group Day Care Home ☐ Name: _____ Family Day Care Home ☐ Name: _____

(Check One): Comprehensive Lead Inspection ☐ Limited Testing ☑

Street Address: 896-898 Howard Ave. Apt.# 2 Floor: 2nd

City/Town: Bridgeport Zip Code: 06605 Telephone: _____

If Apartment, Number of Units: 3-4 Year Property Built: 1910

PROPERTY OWNER

Name: O'Neil and Shena Anderson

Street Address: 896-898 Howard Ave- Second Floor City: Bridgeport

State: CT Zip Code: 06605 Telephone: 203-338-0053

INSPECTING ENTITY

A. If Consultant Contractor:

Name: Gilbertco Lead Inspections LLC

Street Address: 287 Main Street

City: Ansonia State: CT Zip Code: 06401

Consultant License Number: CC 270

Inspector's Name: Maureen Monaco Telephone: 1-800-959-2985

Inspector's Certification Number: IR 1172

B. If Code Enforcement Agency:

Department Name: n/a

Street Address: _____

City: _____ State: _____ Zip Code: _____

Inspector's Name: _____ Telephone: _____

Date of Inspector's Initial Training: ____/____/____ Date of Latest Refresher Training: ____/____/____

INSPECTION INFORMATION **Beginning and End Date(s) of Inspection:** 9 /22 /14

For each day that the inspection was conducted consent was given by an adult occupant of the dwelling unit to enter and inspect all areas of the dwelling that are under the control of that individual or to which that individual has legitimate access.
☑ Yes ☐ No

Name of person 18 years of age or older who granted consent: Shena Anderson Age: 18+ Date: 9/22/14

Name of person 18 years of age or older who granted consent: _____ Age: ___ Date: _____

A. Were Lead-Based Surfaces Identified? (Check One) ☑ Yes ☐ No
If yes, complete the tables below. Data in tables may not indicate all identified lead-based surfaces.

EXTERIOR Lead-Based Surfaces	Foundation	Siding &/or Trim	Stairs &/or Stair Components	Porch &/or Porch Components	Doors &/or Trim	Windows &/or Trim	Garage &/or Garage Components
Deteriorated	☐	☑	☐	☑	☑	☐	☐
Intact	☐	☑	☐	☑	☑	☐	☐

(X = positive location)

INTERIOR Lead-Based Surfaces	Floors	Baseboards	Walls	Ceilings	Stairs &/or Stair Components	Doors &/or Trim	Windows &/or Trim	Closet/ Cabinet Components
Deteriorated	☐	☐	☐	☐	☐	☐	☐	☐
Intact	☐	☐	☑	☐	☐	☑	☑	☐

(X = positive location)

Were rooms, areas or components inaccessible during inspection? (Check One) ☐ Yes ☐ No
List any inaccessible locations: _____

B. Indicate Potential Lead Hazards Identified:

(Check All That Apply)
Was drinking water tested for lead?
☐ Yes ☑ No
Was dust tested for lead?
☐ Yes ☑ No
Was bare soil tested for lead?
☑ Yes ☐ No ☐ N/A If yes, complete the adjacent table.

Lead Hazard Locations	Floors (dust)	Window Sills (dust)	Window Wells (dust)	Soil	Water	Paint (XRF)	Paint Chip
(Enter highest result for each)				398		21.59	

Per section 19a-111-4(a) and 19a-111-2(e) of the Lead Poisoning Prevention and Control Regulations:

A lead abatement plan **is required for this property:** ☑ Yes ☐ No
A lead management plan is required for this property: ☑ Yes ☐ No

A lead hazard remediation **plan is required for this property:** ☐ Yes ☐ No
A lead management plan is required for this property: ☐ Yes ☐ No

Inspector's Signature: _____ Date: 10 /1 /2014

The federal Residential Lead-Based Paint Hazard Reduction Act, 42 U.S.C. 4852d, requires sellers and landlords of most residential housing built before 1978 to disclose all available records and reports concerning lead-based paint and/or lead-based paint hazards, including the test results contained or referenced in this notice, to purchasers and tenants at the time of sale or lease or upon lease renewal. This disclosure must occur even if hazard reduction or abatement has been completed. Failure to disclose these test results is a violation of the U.S. Department of Housing and Urban Development and the U.S. Environmental Protection Agency regulations at 24 CFR Part 35 and 40 CFR Part 745 and can result in a fine of up to $11,000 per violation. To find out more information about your obligations under federal lead-based paint requirements, call 1-800-424-LEAD.

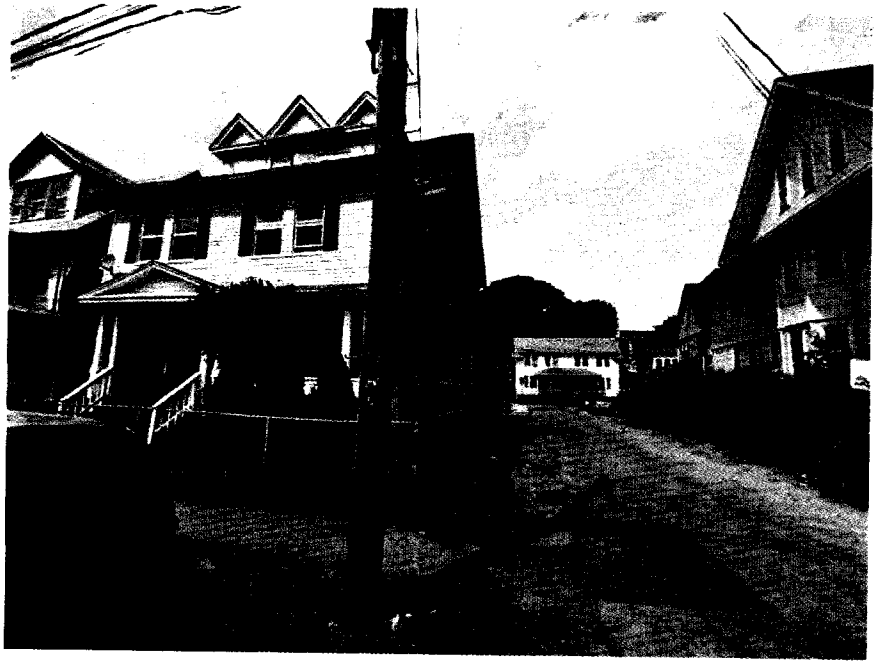
I have received a copy of this summary report from my landlord/property manager and have been informed that I can obtain further information about the testing results from the report by contacting the property owner listed above.

Resident's Signature: _____ Date: ____/____/____

1-7-14

LEAD BASED PAINT INSPECTION
REPORT OF FINDINGS
OF:

896-898 HOWARD AVENUE
BRIDGEPORT, CONNECTICUT



DATE:
SEPTEMBER 22, 2014

PREPARED BY:
GILBERTCO LEAD INSPECTIONS LLC
287 MAIN STREET
ANSONIA, CONNECTICUT 06401

GILBERTCO
LEAD INSPECTIONS, LLC

"LEAD BASED PAINT SPECIALIST"

October 1, 2014

Job 9928-16-896

Kevin Bogue, LEP, CHMM
Facility Support Services, LLC
2685 State Street
Hamden, Connecticut 06517

Re: Lead Based Paint Inspection: 896-898 Howard Ave., Bridgeport, CT
Applicant 2149- O'Neil and Shena Anderson

Gilbertco Lead Inspections LLC performed a limited XRF inspection for the presence of lead based paint at 896-898 Howard Ave., Bridgeport, Connecticut. The inspection was requested by Facility Support Services in response to distribution of HUD funds given to CT DOH for Storm Sandy repair work.

The site inspected consists of a large, four story, three family home built about 1910. The exterior is vinyl siding with vinyl replacements windows throughout. The home is in good repair and enjoys excellent housekeeping.

In accordance with HUD/EPA guidance issued June 26, 1996, the Scitec Map 4 Spectrum Analyzer was used in the "Unlimited" assaying mode. This enables the equipment to accurately determine whether the result is "Positive", above the 1.0 mg/cm2 action level or "Negative", below the action level regardless of precision or operator bias. In accordance with the above guidance, values of 0.91 mg/cm2 through 1.19 mg/cm2 are considered "Inconclusive", meaning the value level of lead in paint was so close to the 1.0 mg/cm2 action level that further analysis by XRF would not result in a "Positive" or "Negative" answer. Only laboratory analysis of the paint film can determine actual values in this range. Chip sampling of inconclusive was not included in the scope of this report, therefore, any results above 0.9 mg/cm2 are considered positive. Results are arranged floor plan style with the substrate and condition noted. Orientation of rooms places side 'one' as street side, with side 'two' to the left, side 'three' opposite, and wall 'four' to the right. Rooms were tested in a clockwise pattern.

In regards to the above mentioned property, *several lead based paint hazards were identified.* A lead based paint hazard is "any condition that causes lead exposure to lead from lead-contaminated dust, lead contaminated soil, or lead-contaminated paint that is deteriorated or present in accessible surfaces, friction surfaces, or impact surfaces that would result in adverse human health effects...". ...". (The Residential Lead Based Paint Hazard Reduction Act of 1992 – Title X). ...". Several areas tested positive for lead based paint but are currently in an intact condition. These areas should be placed on a Management Plan and monitored annually for signs of deterioration or paint breakdown. *See attached* . In April 2010, a new EPA regulation requires that any contractor who disturbs more than six square feet of painted surface per room or does window replacement must be certified as a Renovate Right Contractor. Homeowners are allowed to do their own renovation but are not exempt from providing renovation notices or posting informational signs. Further information regarding Renovate Right may be obtained at www.epa.gov/lead/pubs/renovation or by calling the National Lead Information Center at 1-800-424-LEAD (5323).

Lead in dust was not included in the scope of this report. Only laboratory analysis can insure that no lead dust hazards remain after renovations or from everyday use of the home.

A composite soil sample was obtained from exposed bare soil on the right side of the property and found to have a lead concentration of 398 ppm. This is below the 400 ppm recommended lead in soil level and therefore no action needs to be taken. Nevertheless, vegetable plants should not be planted near the perimeter of the house or in water runoff areas. Children should not be allowed to play in bare soil areas adjacent to the house. Asphalt, bushes, mulch, or good quality grass covering are acceptable deterrents.

This lead inspection report should be disclosed to future tenants and /or buyers in accordance with Title X (copy enclosed). As with any lead-containing surface, children should not be allowed to chew or mouth painted surfaces as this is a common source of lead poisoning in children.

A copy of this report and has been sent to the owner in accordance with CGS 19a-111 and a proposed abatement plan has been submitted to the Bridgeport Health Department as required. Additionally, notification has been sent to the State Historic Preservation Office for approval.

Please feel free to call if any questions arise,

Maureen Monaco

Maureen Monaco
Consultant Contractor #270
Lead Inspector Risk Assessor #1172

CERTIFICATION
LEAD IN PAINT RESULTS

AGENCY:	GILBERTCO LEAD INSPECTIONS LLC 287 MAIN STREET ANSONIA, CONNECTICUT 06401
PROJECT ADDRESS:	896-898 HOWARD AVENUE BRIDGEPORT, CONNECTICUT
PROJECT NUMBER:	9928-16-896
TEST DATE:	SEPTEMBER 22, 2014
REQUIREMENTS:	CHAPTER 7 HUD GUIDELINES LEAD INSPECTION- SURFACE BY SURFACE
INSTRUMENTATION:	SCITEC MAP4 PORTABLE X-RAY (BRUKER HANDHELD) FLUOROSCOPE SPECTRUM ANALYZER (XRF) COBALT 57 SOURCE
REPORT MEDIUM:	MG PB/CM2 (MILLIGRAMS OF LEAD PER SQUARE CENTIMETER)
CALIBRATION:	TO MEASURE LEAD K-SHELL EMISSIONS. FACTORY CALIBRATED WITH HUD APPROVED REFERENCE STANDARDS. CALIBRATION FIELD CHECKED HOURLY AS RECOMMENDED BY MANUFACTURER
OPERATORS CERTIFICATION:	LEAD CONSULTANT CONTRACTOR-CC270 LEAD INSPECTOR RISK ASSESSOR- IR 1172 LEAD ABATEMENT SUPERVISOR- 2383

I hereby certify to the best of my knowledge and capabilities that this report reflects the true lead content of the surfaces tested in this report on this date.

Shawn Morris 10/2/14

896-898 Howard Ave., Lower Level, Bridgeport, Connecticut

September 22, 2014

Room Type	Room #	Wall #	Component	Substrate	Condition	K Shell	Decision
Calibration						1.34	okay
Front Right BR	1	1	Wall	Sheetrk	Intact	-0.24	Negative
Front Right BR	1	1	Ceiling	Sheetrk	Intact	-0.6	Negative
Front Right BR	1	2	Wall	Sheetrk	Intact	-0.06	Negative
Front Right BR	1	2	Baseboard	Wood	Intact	-0.01	Negative
Front Right BR	1	2	Wall	Sheetrk	Intact	0.17	Negative
Front Right BR	1	3	Door	Wood	Intact	-0.14	Negative
Front Right BR	1	3	Door Casing	Wood	Intact	-0.09	Negative
Living Room	2	1	Wall	Sheetrk	Intact	0.24	Negative
Living Room	2	1	Door Casing	Wood	Intact	-0.14	Negative
Living Room	2	2	Baseboard	Wood	Intact	0.47	Negative
Living Room	2	2	Wall	Sheetrk	Intact	0.16	Negative
Living Room	2	3	Closet Door	Sheetrk	Intact	0.12	Negative
Living Room	2	3	Clo Dr Csng	Sheetrk	Intact	0.13	Negative
Living Room	2	4	Wall	Sheetrk	Intact	0.03	Negative
Living Room	2	4	Window Trim	Wood	Intact	-0.03	Negative
Kitchen	3	1	Wall	Sheetrk	Intact	-0.14	Negative
Kitchen	3	4	Wall	Sheetrk	Non-intact	0.21	Negative
Kitchen	3	4	Clo Dr Csng	Wood	Intact	0.19	Negative
Kitchen	3	4	Ceiling	Sheetrk	Intact	0.15	Negative
Kitchen	3	4	Wall	Sheetrk	Intact	0.37	Negative
Kitchen	3	4	Baseboard	Wood	Intact	-0.2	Negative
Kitchen	3	4	Cabinet	Wood	Intact	0.15	Negative
Kitchen	3	3	Wall	Sheetrk	Intact	0.35	Negative
Kitchen	3	3	Door	Wood	Intact	0.24	Negative
Kitchen	3	3	Door Casing	Wood	Intact	0.4	Negative
Kitchen	3	2	Closet Door	Wood	Intact	-0.13	Negative
Kitchen	3	2	Clo Dr Csng	Wood	Intact	-0.02	Negative
Front Left BR	4	1	Wall	Sheetrk	Intact	0.28	Negative
Front Left BR	4	2	Wall	Sheetrk	Intact	-0.05	Negative
Front Left BR	4	2	Window Trim	Wood	Intact	0.12	Negative
Front Left BR	4	1	Ceiling	Sheetrk	Intact	0.04	Negative
Front Left BR	4	4	Wall	Sheetrk	Intact	-0.06	Negative
Front Left BR	4	4	Door	Wood	Intact	-0.11	Negative
Front Left BR	4	3	Door Casing	Wood	Intact	-0.06	Negative
Front Left BR	4	3	Wall	Sheetrk	Intact	0.21	Negative
Bathroom	5	4	Door	Wood	Intact	-0.03	Negative
Bathroom	5	4	Door Jamb	Wood	Intact	0.1	Negative
Bathroom	5	4	Door Casing	Wood	Intact	0.05	Negative
Bathroom	5	4	Wall	Sheetrk	Intact	-0.07	Negative

Bathroom	5	1	Wall	Sheetrk	Intact	0	Negative
Bathroom	5	1	Cabinet	Wood	Intact	0.03	Negative
Bathroom	5	2	Wall	Sheetrk	Intact	-0.16	Negative
Bathroom	5	2	Baseboard	Sheetrk	Intact	0.11	Negative
Bathroom	5	1	Ceiling	Sheetrk	Intact	-0.44	Negative
Open Basement	6	1	Door	Wood	Intact	-0.35	Negative
Open Basement	6	1	Door Jamb	Wood	Intact	0.07	Negative
Open Basement	6	4	Wall	Sheetrk	Intact	0.7	Negative
Open Basement	6	2	Wall	Masonry	Intact	-0.27	Negative
Open Basement	6	3	Door	Wood	Intact	0.27	Negative
Open Basement	7	3	Door	Wood	unpainted	0.28	Negative
Open Basement	7	3	Door Casing	Wood	Intact	-0.57	Negative
Open Basement	7	3	Wall	Wood	Intact	-0.13	Negative
Open Basement	7	3	Floor	Masonry	Non-intact	0.23	Negative
Open Basement	7	3	Stair Tread	Wood	Intact	0.26	Negative
Open Basement	7	3	Stair Riser	Wood	Intact	0.49	Negative
Open Basement	7	3	Wall	Wood	Intact	0.23	Negative
Open Basement	7	3	Ceiling	Sheetrk	Intact	-0.43	Negative

896-898 Howard Ave., First Floor, Bridgeport, Connecticut

September 22, 2014

Room Type	Room #	Wall #	Component	Substrate	Condition	K Shell	Decision
Calibration						1.05	okay
Front Right BR	1	1	Wall	Sheetrk	Intact	0.11	Negative
Front Right BR	1	1	Window Trim	Wood	Intact	0.43	Negative
Front Right BR	1	1	Window Sill	Wood	Intact	0.23	Negative
Front Right BR	1	1	Window Apron	Wood	Intact	-0.08	Negative
Front Right BR	1	1	Baseboard	Wood	Intact	0.14	Negative
Front Right BR	1	1	Radiator	Metal	Intact	0.61	Negative
Front Right BR	1	4	Wall	Sheetrk	Intact	-0.12	Negative
Front Right BR	1	4	Baseboard	Wood	Intact	0.04	Negative
Front Right BR	1	4	Window Trim	Wood	Intact	0.02	Negative
Front Right BR	1	4	Window Sill	Wood	Intact	0.84	Negative
Front Right BR	1	4	Window Apron	Wood	Intact	-0.08	Negative
Front Right BR	1	4	Wall	Sheetrk	Intact	0.23	Negative
Front Right BR	1	2	Closet Door	Wood	Intact	-0.03	Negative
Front Right BR	1	2	Clo Dr Csng	Wood	Intact	0.11	Negative
Front Right BR	1	2	Door Casing	Wood	Intact	-0.31	Negative
Front Right BR	1	2	Wall	Sheetrk	Intact	0.24	Negative
Front Right BR	1	2	Baseboard	Wood	Intact	-0.03	Negative
Front Right BR	1	2	Door	Wood	Intact	-0.54	Negative
Front Right BR	1	3	Door Casing	Wood	Intact	0	Negative
Front Right BR	1	3	Wall	Sheetrk	Intact	0.27	Negative
Living Room	2	1	Door Casing	Wood	Intact	-0.34	Negative
Living Room	2	1	Wall	Sheetrk	Intact	0.37	Negative
Living Room	**2**	**2**	**Door**	**Wood**	**Intact**	**10.06**	**Positive**
Living Room	2	2	Door Casing	Wood	Intact	0.03	Negative
Living Room	2	2	Wall	Sheetrk	Intact	0.01	Negative
Living Room	2	2	Baseboard	Wood	Intact	-0.3	Negative
Living Room	2	2	Floor	Wood	Stain/varnish	0.16	Negative
Living Room	2	2	Cabinet	Wood	Intact	-0.02	Negative
Living Room	2	2	Cabinet	Wood	Intact	0.17	Negative
Living Room	2	3	Wall	Sheetrk	Intact	-0.04	Negative
Living Room	2	3	Door Casing	Wood	Intact	-0.28	Negative
Living Room	2	3	Baseboard	Wood	Intact	0.42	Negative
Living Room	2	4	Wall	Sheetrk	Intact	0.13	Negative
Living Room	2	4	Window Sill	Wood	Intact	0.37	Negative
Living Room	2	4	Window Trim	Wood	Intact	0.18	Negative
Living Room	2	5	Window Stop	Wood	Intact	-0.12	Negative
Living Room	2	4	Windwo Apron	Wood	Intact	0.24	Negative
Living Room	2	4	Baseboard	Wood	Intact	-0.08	Negative
Living Room	2	4	Radiator	Metal	Intact	0.76	Negative
Living Room	2	1	Floor	Wood	Stain/varnish	-0.33	Negative
Bathroom	3	2	Door Jamb	Wood	Intact	0.32	Negative
Bathroom	3	2	Door Casing	Wood	Intact	0.18	Negative

Bathroom	**3**	**2**	**Wall**	**Sheetrk**	**Intact**	**1.49**	**Positive**
Bathroom	**3**	**3**	**Wall**	**Sheetrk**	**Intact**	**2.62**	**Positive**
Bathroom	3	3	Baseboard	Wood	Intact	0	Negative
Bathroom	**3**	**4**	**Wall**	**Sheetrk**	**Intact**	**3.25**	**Positive**
Bathroom	3	4	Window Trim	Wood	Intact	0.21	Negative
Bathroom	3	4	Window Sill	Wood	Intact	0.06	Negative
Bathroom	3	4	Window Apron	Wood	Intact	0	Negative
Bathroom	3	1	Wall	Sheetrk	Intact	-0.04	Negative
Bathroom	3	1	Baseboard	Wood	Intact	0.18	Negative
Kitchen	4	1	Door Jamb	Wood	Intact	0.18	Negative
Kitchen	4	1	Door Casing	Wood	Intact	0.38	Negative
Kitchen	4	1	Cabinet	Wood	Stain/varnish	0.27	Negative
Kitchen	4	2	Wall	Sheetrk	Intact	-0.14	Negative
Kitchen	4	2	Baseboard	Wood	Intact	0.27	Negative
Kitchen	**4**	**4**	**Wall**	**Sheetrk**	**Intact**	**4.05**	**Positive**
Kitchen	4	4	Window Trim	Wood	Intact	0.45	Negative
Kitchen	4	4	Window Sill	Wood	Intact	0.22	Negative
Kitchen	4	4	Window Stop	Wood	Intact	0.19	Negative
Kitchen	**4**	**4**	**Wall-upper**	**Sheetrk**	**Intact**	**3.17**	**Positive**
Kitchen	4	4	Wall-lower	Wood	Intact	0.02	Negative
Kitchen	4	4	Radiator	Metal	Intact	0.68	Negative
Kitchen	**4**	**3**	**Wall**	**Sheetrk**	**Intact**	**3.23**	**Positive**
Kitchen	4	3	Cabinet	Wood	Stain/varnish	0.43	Negative
Kitchen	**4**	**3**	**Wall-upper**	**Sheetrk**	**Intact**	**3.93**	**Positive**
Kitchen	4	3	Wall-lower	Sheetrk	Intact	0.17	Negative
Kitchen	4	3	Door	Sheetrk	Intact	0.63	Negative
Kitchen	4	3	Door Casing	Sheetrk	Intact	-0.01	Negative
Kitchen	4	1	Closet Door	Wood	Intact	-0.04	Negative
Kitchen	4	1	Clo Dr Csng	Wood	Intact	0.38	Negative
Front Hall	5	1	Door	Wood	Intact	0.26	Negative
Front Hall	5	1	Door Casing	Wood	Intact	-0.17	Negative
Front Hall	5	1	Wall	Sheetrk	Intact	0.26	Negative
Front Hall	5	1	Baseboard	Wood	Intact	0.37	Negative
Front Hall	5	1	Floor	Wood	Stain/varnish	0.11	Negative
Front Hall	5	4	Wall	Sheetrk	Intact	0.17	Negative
Front Hall	5	4	Baseboard	Wood	Intact	-0.18	Negative
Front Hall	5	2	Wall	Sheetrk	Intact	0.16	Negative
Front Hall	5	2	Baseboard	Wood	Intact	0.25	Negative
Front Hall	5	3	Wall	Sheetrk	Intact	0.21	Negative
Front Hall	5	3	Radiator	Metal	Intact	0.28	Negative
Front Hall	5	3	Baseboard	Wood	Intact	-0.39	Negative
Front Hall	**5**	**3**	**Door**	**Wood**	**Intact**	**8.27**	**Positive**
Front Hall	5	3	Door Casing	Wood	Intact	0.48	Negative
Front Left Bedroom	6	1	Door	Wood	Intact	-0.06	Negative

Front Left Bedroom	6	1	Door Casing	Wood	Intact	0.11	Negative
Front Left Bedroom	6	1	Wall	Sheetrk	Intact	0.13	Negative
Front Left Bedroom	6	1	Baseboard	Wood	Intact	0.29	Negative
Front Left Bedroom	6	1	Closet Door	Wood	Intact	0.09	Negative
Front Left Bedroom	6	1	Clo Dr Csng	Wood	Intact	0.34	Negative
Front Left Bedroom	6	1	Shelf Support	Wood	Intact	0.44	Negative
Front Left Bedroom	6	2	Window Trim	Wood	Intact	0.37	Negative
Front Left Bedroom	6	2	Window Sill	Wood	Intact	0.12	Negative
Front Left Bedroom	6	2	Window Stop	Wood	Intact	-0.11	Negative
Front Left Bedroom	6	2	WindowApron	Wood	Intact	0.75	Negative
Front Left Bedroom	6	2	Baseboard	Wood	Intact	0.53	Negative
Front Left Bedroom	6	2	Radiator	Wood	Intact	0.71	Negative
Front Left Bedroom	6	3	Wall	Sheetrk	Intact	0.04	Negative
Front Left Bedroom	6	3	Baseboard	Wood	Intact	0.43	Negative
Front Left Bedroom	6	3	Door	Wood	Intact	0.06	Negative
Front Left Bedroom	6	3	Door Casing	Wood	Intact	-0.02	Negative
Front Left Bedroom	6	3	Door Jamb	Wood	Intact	0.02	Negative
Bathroom	7	4	Door	Wood	Intact	-0.13	Negative
Bathroom	7	4	Door Jamb	Wood	Intact	0.06	Negative
Bathroom	**7**	**4**	**Door Casing**	**Wood**	**Intact**	**2.37**	**Positive**
Bathroom	7	4	Wall	Sheetrk	Intact	-0.02	Negative
Bathroom	7	1	Wall	Sheetrk	Intact	0.27	Negative
Bathroom	7	2	Wall	Sheetrk	Intact	0.89	Negative
Bathroom	**7**	**2**	**Window trim**	**Wood**	**Intact**	**2.13**	**Positive**
Bathroom	**7**	**2**	**Window Sill**	**Wood**	**Intact**	**2.02**	**Positive**
Bathroom	7	2	Window Stop	Wood	Intact	0.76	Negative
Bathroom	**7**	**2**	**Window Apron**	**Wood**	**Intact**	**2.91**	**Positive**
Bathroom	7	8	Radiator	Metal	Non-intact	0.48	Negative
Bathroom	7	8	Shelf	Metal	Non-intact	-0.2	Negative
Bathroom	7	3	Shelf Support	Wood	Intact	0.48	Negative
Rear Bedroom	8	1	Door	Wood	Intact	-0.04	Negative
Rear Bedroom	8	1	Door Jamb	Wood	Intact	-0.04	Negative
Rear Bedroom	8	1	Door Casing	Wood	Intact	0.31	Negative
Rear Bedroom	8	1	Wall	Sheetrk	Intact	0.09	Negative
Rear Bedroom	8	1	Baseboard	Wood	Intact	0.23	Negative
Rear Bedroom	8	2	Wall	Sheetrk	Intact	-0.19	Negative
Rear Bedroom	8	2	Window Sill	Wood	Intact	0.77	Negative
Rear Bedroom	8	2	Window Trim	Wood	Intact	0.57	Negative
Rear Bedroom	8	2	Window Apron	Wood	Intact	0.86	Negative
Rear Bedroom	8	3	Wall	Sheetrk	Intact	0.09	Negative
Rear Bedroom	8	3	Baseboard	Wood	Intact	-0.21	Negative
Rear Bedroom	8	4	Wall	Sheetrk	Intact	-0.35	Negative
Rear Bedroom	**8**	**4**	**Baseboard**	**Wood**	**Intact**	**2.97**	**Positive**
Rear Bedroom	8	4	Closet Door	Wood	Intact	-0.26	Negative
Rear Bedroom	8	4	Clo Dr CSng	Wood	Intact	0.53	Negative

896-898 Howard Ave., Second Floor, Bridgeport, Connecticut

September 22, 2014

Room Type	Room #	Wall #	Component	Substrate	Condition	K Shell	Decision
Calibration						1.04	okay
Front Porch	1	1	Wall	Sheetrk	Intact	-0.16	Negative
Front Porch	**1**	**1**	**Window Sill**	**Wood**	**Non-intact**	**1**	**Inconclusive**
Front Porch	**1**	**1**	**Window Sill**	**Wood**	**Non-intact**	**1.76**	**Positive**
Front Porch	**1**	**1**	**Wall**	**Wood**	**Non-intact**	**15.2**	**Positive**
Front Porch	1	4	Wall	Sheetrk	Intact	-0.36	Negative
Front Porch	**1**	**4**	**Window Sill**	**Wood**	**Non-intact**	**2.51**	**Positive**
Front Porch	**1**	**4**	**Wall**	**Wood**	**Non-intact**	**8.81**	**Positive**
Front Porch	**1**	**3**	**Window Trim**	**Wood**	**Non-intact**	**19.47**	**Positive**
Front Porch	**1**	**3**	**Window Sill**	**Wood**	**Non-intact**	**8.85**	**Positive**
Front Porch	**1**	**3**	**Clapboard**	**Wood**	**Intact**	**1.04**	**Inconclusive**
Front Porch	1	3	Door	Wood	Intact	0.33	Negative
Front Porch	**1**	**3**	**Door Jamb**	**Wood**	**Intact**	**21.59**	**Positive**
Front Porch	**1**	**3**	**Door Casing**	**Wood**	**Intact**	**3.42**	**Positive**
Front Porch	**1**	**3**	**Threshold**	**Wood**	**Intact**	**3.57**	**Positive**
Front Hall	2	1	Door	Wood	Intact	0.68	Negative
Front Hall	2	1	Door Casing	Wood	Intact	0.07	Negative
Front Hall	2	1	Wall	Sheetrk	Intact	0.35	Negative
Front Hall	2	1	Radiator	Metal	Intact	0.37	Negative
Front Hall	2	4	Wall	Sheetrk	Intact	0.1	Negative
Front Hall	2	4	Baseboard	Sheetrk	Stain/varnish	-0.06	Negative
Front Hall	2	1	Floor	Wood	Stain/varnish	-0.2	Negative
Front Hall	2	1	Stair Tread	Wood	Stain/varnish	0.21	Negative
Front Hall	2	1	Stair Riser	Wood	Intact	0.23	Negative
Front Hall	2	1	Stair Stringer	Wood	Intact	0.28	Negative
Front Hall	2	2	Wall	Sheetrk	Intact	-0.26	Negative
Front Hall	2	2	Newel Post	Wood	Intact	0.04	Negative
Front Hall	2	2	Newel Post	Wood	Intact	-0.06	Negative
Front Hall	2	2	Spindle	Wood	Intact	-0.21	Negative
Front Hall	2	2	Ceiling	Sheetrk	Intact	0.23	Negative
Front Hall	2	3	Wall	Sheetrk	Intact	-0.04	Negative
Front Hall	2	3	Baseboard	Wood	Intact	0.06	Negative
Front Bedroom	3	1	Wall	Sheetrk	Intact	0.77	Negative
Front Bedroom	3	4	Wall	Sheetrk	Intact	-0.52	Negative
Front Bedroom	3	1	Window Sill	Wood	Intact	-0.03	Negative
Front Bedroom	3	1	Window Trim	Wood	Intact	0.02	Negative
Front Bedroom	3	1	Radiator	Metal	Non-intact	0.83	Negative
Front Bedroom	3	1	Clo Dr Csng	Wood	Intact	-0.09	Negative
Front Bedroom	3	1	Wall	Sheetrk	Intact	0.31	Negative
Front Bedroom	3	3	Door Casing	Wood	Intact	0.27	Negative
Front Bedroom	3	3	Baseboard	Wood	Intact	0.26	Negative
Front Bedroom	3	3	Door	Wood	Intact	-0.63	Negative

Front Bedroom	3	3	Door Jamb	Wood	Intact	0.14	Negative
Front Bedroom	3	3	Door Casing	Wood	Intact	-0.13	Negative
Living Room	4	1	Door Casing	Wood	Intact	0.28	Negative
Living Room	4	1	Post/column	Wood	Intact	-0.29	Negative
Living Room	4	1	Window Sill	Wood	Intact	0.07	Negative
Living Room	4	4	Window Trim	Wood	Intact	-0.17	Negative
Living Room	4	4	Wall	Sheetrk	Intact	0.03	Negative
Living Room	4	4	Radiator	Metal	Non-intact	0.15	Negative
Living Room	4	2	Door	Wood	Intact	-0.26	Negative
Living Room	4	2	Door Casing	Wood	Intact	-0.22	Negative
Living Room	4	2	Wall	Sheetrk	Intact	0.45	Negative
Living Room	4	2	Baseboard	Wood	Intact	-0.13	Negative
Living Room	4	2	Floor	Wood	Stain/varnish	-0.36	Negative
Living Room	4	2	Door Casing	Wood	Intact	0.16	Negative
Living Room	4	3	Wall	Sheetrk	Intact	0.05	Negative
Living Room	4	3	Door Casing	Wood	Intact	0.37	Negative
Living Room	4	3	Door Jamb	Wood	Intact	0.13	Negative
Laundry	5	2	Door Casing	Wood	Intact	0.31	Negative
Laundry	**5**	**2**	**Wall**	**Sheetrk**	**Intact**	**3.3**	**Positive**
Laundry	5	2	Baseboard	Wood	Intact	-0.01	Negative
Laundry	**5**	**4**	**Wall**	**Sheetrk**	**Intact**	**11.91**	**Positive**
Laundry	5	4	Window Trim	Wood	Intact	-0.35	Negative
Laundry	5	4	Window Sill	Wood	Intact	0.26	Negative
Laundry	5	4	Window Stop	Wood	Intact	0.41	Negative
Laundry	5	1	Wall	Sheetrk	Intact	0.06	Negative
Laundry	**5**	**2**	**Wall**	**Sheetrk**	**Intact**	**7.21**	**Positive**
Bathroom	5	3	Baseboard	Wood	Intact	0.3	Negative
Kitchen	6	1	Door Jamb	Wood	Intact	0.31	Negative
Kitchen	6	1	Door Casing	Wood	Intact	-0.02	Negative
Kitchen	6	1	Cabinet	Wood	Stain/varnish	-0.39	Negative
Kitchen	6	4	Window Sill	Wood	Intact	0.26	Negative
Kitchen	6	4	Window Trim	Wood	Intact	-0.35	Negative
Kitchen	6	4	Window Stop	Wood	Intact	0.05	Negative
Kitchen	6	4	Window Apron	Wood	Intact	0.15	Negative
Kitchen	6	4	Wall-upper	Sheetrk	Intact	0.04	Negative
Kitchen	6	4	Chairrail	Wood	Intact	-0.01	Negative
Kitchen	6	4	Wall-lower	Wood	Intact	0.37	Negative
Kitchen	6	4	Radiator	Metal	Non-intact	-0.09	Negative
Kitchen	**6**	**2**	**Wall-upper**	**Sheetrk**	**Intact**	**8.61**	**Positive**
Kitchen	6	2	Chairrail	Wood	Intact	0.02	Negative
Kitchen	6	2	Wall-lower	Sheetrk	Intact	0.11	Negative
Kitchen	6	2	Baseboard	Sheetrk	Intact	0.1	Negative
Kitchen	**6**	**3**	**Wall**	**Sheetrk**	**Intact**	**10.87**	**Positive**
Kitchen	6	3	Door	Wood	Intact	-0.47	Negative

Kitchen	6	3	Door Casing	Wood	Intact	-0.03	Negative
Kitchen	6	3	Cabinet	Wood	Stain/varnish	-0.15	Negative
Dining Room	7	1	Wall	Sheetrk	Intact	-0.29	Negative
Dining Room	7	1	Door	Wood	Intact	-0.12	Negative
Dining Room	7	1	Door Casing	Wood	Intact	0.74	Negative
Dining Room	7	1	Closet Door	Wood	Intact	-0.04	Negative
Dining Room	7	1	Clo Dr Csng	Wood	Intact	0.88	Negative
Dining Room	7	1	Window Sill	Wood	Non-intact	0.19	Negative
Dining Room	7	1	Window Trim	Wood	Intact	0.88	Negative
Dining Room	7	1	Window Stop	Wood	Intact	0.5	Negative
Dining Room	7	2	Window Apron	Wood	Intact	0.72	Negative
Dining Room	7	2	Baseboard	Wood	Intact	0.43	Negative
Dining Room	7	2	Floor	Wood	Stain/varnish	0.14	Negative
Dining Room	7	4	Wall	Sheetrk	Intact	0.22	Negative
Dining Room	7	4	Door Casing	Wood	Intact	-0.18	Negative
Dining Room	7	2	Railing	Metal	Non-intact	0.8	Negative
Dining Room	7	2	Wall	Sheetrk	Intact	-0.24	Negative
Dining Room	7	2	Door Casing	Wood	Intact	0.4	Negative
Dining Room	7	3	Door Jamb	Wood	Intact	-0.14	Negative
Bathroom	8	4	Door	Wood	Intact	-0.14	Negative
Bathroom	8	4	Door Jamb	Wood	Intact	0.03	Negative
Bathroom	8	4	Door Casing	Wood	Intact	0.36	Negative
Bathroom	8	4	Wall	Sheetrk	Intact	0.57	Negative
Bathroom	8	1	Wall	Sheetrk	Intact	0.56	Negative
Bathroom	8	1	Cabinet	Wood	Intact	0.14	Negative
Bathroom	8	1	Window Sill	Wood	Intact	-0.2	Negative
Bathroom	**8**	**2**	**Window Trim**	**Wood**	**Intact**	**1.81**	**Positive**
Bathroom	**8**	**2**	**Window Stop**	**Wood**	**Intact**	**1.46**	**Positive**
Bathroom	8	2	Window Apron	Wood	Intact	0.19	Negative
Bathroom	8	2	Shelf	Wood	Intact	-0.06	Negative
Bathroom	8	3	Shelf Support	Wood	Intact	0.02	Negative
Bathroom	8	3	Wall	Sheetrk	Intact	0.12	Negative
Rear Bedroom	9	1	Door	Wood	Intact	0.01	Negative
Rear Bedroom	**9**	**1**	**Door Jamb**	**Wood**	**Intact**	**4.59**	**Positive**
Rear Bedroom	**9**	**1**	**Door Casing**	**Wood**	**Intact**	**4.05**	**Positive**
Rear Bedroom	9	1	Wall	Sheetrk	Intact	0.49	Negative
Rear Bedroom	9	2	Wall	Sheetrk	Intact	0.3	Negative
Rear Bedroom	9	2	Radiator	Metal	Non-intact	0.33	Negative
Rear Bedroom	9	3	Wall	Sheetrk	Intact	-0.31	Negative
Rear Bedroom	**9**	**3**	**Window Sill**	**Wood**	**Intact**	**1.53**	**Positive**
Rear Bedroom	**9**	**3**	**Window Trim**	**Wood**	**Intact**	**4.76**	**Positive**
Rear Bedroom	**9**	**3**	**Window Stop**	**Wood**	**Intact**	**1.88**	**Positive**
Rear Bedroom	9	3	Wall	Sheetrk	Intact	0.15	Negative
Rear Bedroom	9	4	Baseboard	Wood	Non-intact	0.06	Negative

Rear Bedroom	9	4	Closet Door	Wood	Intact	0.11	Negative
Rear Bedroom	**9**	**4**	**Clo Dr Csng**	**Wood**	**Intact**	**4.63**	**Positive**
Rear Bedroom	**9**	**4**	**Clo Dr Csng**	**Wood**	**Intact**	**3.45**	**Positive**

896-898 Howard Ave., Rear Second Floor Porch and Rear Hall. Bridgeport, Connecticut

September 22, 2014

Room Type	Room #	Wall #	Component	Substrate	Condition	K Shell	Decision
Calibration						1.24	Okay
2nd Fl Rear Porch	1	1	Ceiling	Wood	Non-intact	-0.05	Negative
2nd Fl Rear Porch	**1**	**1**	**Transom**	**Wood**	**Non-intact**	**23.47**	**Positive**
2nd Fl Rear Porch	**1**	**1**	**Transom**	**Wood**	**Non-intact**	**18.87**	**Positive**
2nd Fl Rear Porch	**1**	**1**	**Transom**	**Wood**	**Non-intact**	**19.81**	**Positive**
2nd Fl Rear Porch	**1**	**1**	**Threshold**	**Wood**	**Non-intact**	**16.9**	**Positive**
2nd Fl Rear Porch	**1**	**1**	**Door Jamb**	**Wood**	**Non-intact**	**17.39**	**Positive**
2nd Fl Rear Porch	1	1	Door	Wood	Intact	-0.01	Negative
Rear Hall	2	1	Door	Wood	Intact	-0.16	Negative
Rear Hall	2	1	Door Jamb	Wood	Intact	-0.04	Negative
Rear Hall	2	1	Door Casing	Wood	Intact	0.32	Negative
Rear Hall	**2**	**1**	**Wall**	**Sheetrk**	**Intact**	**5.07**	**Positive**
Rear Hall	**2**	**3**	**Wall**	**Sheetrk**	**Intact**	**1.28**	**Positive**
Rear Hall	**2**	**4**	**Wall**	**Sheetrk**	**Intact**	**5.31**	**Positive**
Rear Hall	2	1	Ceiling	Sheetrk	Intact	0.81	Negative
Rear Hall	2	1	Stair Tread	Wood	Intact	-0.03	Negative
Rear Hall	2	1	Stair Riser	Wood	Intact	0.06	Negative
Rear Hall	2	1	Stair Stringer	Wood	Intact	0.19	Negative
Rear Hall	2	1	Floor	Wood	Intact	-0.09	Negative
Rear Hall	**2**	**4**	**Wall**	**Sheetrk**	**Intact**	**3.55**	**Positive**
Rear Hall	2	4	Door Casing	Wood	Intact	0.31	Negative
Rear Hall	2	2	Closet Door	Wood	Intact	-0.1	Negative
Rear Hall	2	2	Clo Dr Csng	Wood	Intact	-0.15	Negative
Rear Hall	2	2	Floor	Wood	Intact	0	Negative

896-898 Howard Ave., Third Floor, Bridgeport, Connecticut

September 22, 2014

Room Type	Room #	Wall #	Component	Substrate	Condition	K Shell	Decision
Calibration						1.08	Okay
Front Bedroom	1	1	Wall	Sheetrk	Intact	-0.21	Negative
Front Bedroom	1	1	Window Sill	Wood	Intact	0.49	Negative
Front Bedroom	1	1	Window Trim	Wood	Intact	-0.03	Negative
Front Bedroom	1	1	Window Stop	Wood	Intact	-0.18	Negative
Front Bedroom	1	1	Window Apron	Wood	Intact	0.37	Negative
Front Bedroom	1	1	Baseboard	Wood	Intact	0.44	Negative
Front Bedroom	1	2	Wall	Sheetrk	Intact	-0.42	Negative
Front Bedroom	1	2	Closet Door	Wood	Intact	-0.04	Negative
Front Bedroom	1	2	Clo Dr Csng	Wood	Intact	-0.08	Negative
Front Bedroom	1	4	Wall	Sheetrk	Intact	0.17	Negative
Front Bedroom	1	4	Baseboard	Wood	Intact	-0.05	Negative
Front Bedroom	1	3	Wall	Sheetrk	Intact	-0.17	Negative
Front Bedroom	1	2	Door	Wood	Intact	0.03	Negative
Front Bedroom	1	2	Door Casing	Wood	Intact	0.1	Negative
Front Bedroom	1	2	Ceiling	Sheetrk	Intact	-0.05	Negative
Right Bedroom	2	2	Door	Wood	Intact	0.24	Negative
Right Bedroom	2	2	Door Casing	Wood	Intact	-0.02	Negative
Right Bedroom	2	2	Wall	Sheetrk	Intact	-0.09	Negative
Right Bedroom	2	2	Baseboard	Wood	Intact	-0.11	Negative
Right Bedroom	2	3	Wall	Sheetrk	Intact	0.06	Negative
Right Bedroom	2	3	Closet Door	Wood	Intact	-0.14	Negative
Right Bedroom	2	3	Clo Dr Csng	Wood	Intact	0.22	Negative
Right Bedroom	2	1	Ceiling	Sheetrk	Intact	-0.3	Negative
Right Bedroom	2	4	Wall	Sheetrk	Intact	0.04	Negative
Right Bedroom	2	4	Baseboard	Wood	Intact	0.22	Negative
Right Bedroom	2	4	Window Trim	Wood	Intact	0.28	Negative
Right Bedroom	2	4	Window Sill	Wood	Intact	0.08	Negative
Right Bedroom	2	4	Window Apron	Wood	Intact	0.14	Negative
Right Bedroom	2	1	Wall	Sheetrk	Intact	0.36	Negative
Right Bedroom	2	1	Wall	Sheetrk	Intact	0.31	Negative
Kitchen	3	1	Door Casing	Wood	Intact	0.35	Negative
Kitchen	3	1	Wall	Sheetrk	Intact	0.61	Negative
Kitchen	3	1	Cabinet	Other	Intact	0.14	Negative
Kitchen	3	2	Wall	Sheetrk	Intact	0.16	Negative
Kitchen	3	2	Window Trim	Wood	Intact	-0.05	Negative
Kitchen	3	2	Wall	Sheetrk	Intact	0.02	Negative
Kitchen	3	3	Wall	Sheetrk	Intact	-0.08	Negative
Kitchen	3	3	Cabinet	Wood	Intact	0.17	Negative
Kitchen	3	4	Wall	Sheetrk	Intact	-0.11	Negative
Kitchen	3	4	Baseboard	Wood	Intact	0.01	Negative

Bathroom	4	4	Door	Wood	Intact	-0.22	Negative
Bathroom	4	4	Door Jamb	Wood	Intact	-0.46	Negative
Bathroom	4	4	Door Casing	Wood	Intact	-0.4	Negative
Bathroom	4	4	Wall	Sheetrk	Intact	-0.15	Negative
Bathroom	4	1	Wall	Sheetrk	Intact	-0.05	Negative
Bathroom	4	2	Wall	Sheetrk	Intact	0.12	Negative
Bathroom	4	2	Cabinet	Wood	Intact	0.17	Negative
Bathroom	4	1	Ceiling	Sheetrk	Intact	-0.15	Negative
Living Room	5	1	Wall	Sheetrk	Intact	0.13	Negative
Living Room	5	1	Baseboard	Wood	Intact	0.23	Negative
Living Room	5	2	Wall	Sheetrk	Intact	-0.14	Negative
Living Room	5	2	Baseboard	Wood	Intact	0.27	Negative
Living Room	5	2	Door	Wood	Intact	0.19	Negative
Living Room	5	2	Door Casing	Wood	Intact	0.04	Negative
Living Room	5	2	Door Jamb	Wood	Intact	0.18	Negative
Living Room	5	3	Door	Wood	Intact	0.28	Negative
Living Room	5	3	Door Casing	Wood	Intact	0.34	Negative
Living Room	5	3	Wall	Sheetrk	Intact	0.04	Negative
Living Room	5	4	Wall	Sheetrk	Intact	0.02	Negative
Living Room	5	4	Baseboard	Wood	Intact	0.3	Negative
			* no windows				
Rear Left BR	6	4	Door	Wood	Intact	0.16	Negative
Rear Left BR	6	4	Door Casing	Wood	Intact	0.14	Negative
Rear Left BR	6	4	Wall	Sheetrk	Intact	0.25	Negative
Rear Left BR	6	4	Baseboard	Wood	Intact	-0.11	Negative
Rear Left BR	6	1	Wall	Sheetrk	Intact	-0.05	Negative
Rear Left BR	6	3	Window Trim	Wood	Intact	-0.15	Negative
Rear Left BR	6	3	Window Sill	Wood	Intact	-0.06	Negative
Rear Left BR	6	3	Window Apron	Wood	Intact	0.06	Negative
Rear Left BR	6	1	Baseboard	Wood	Intact	-0.71	Negative
Rear Left BR	6	2	Wall	Sheetrk	Intact	0.18	Negative
Rear Left BR	6	2	Baseboard	Wood	Intact	0.32	Negative
Rear Left BR	6	1	Ceiling	Sheetrk	Intact	0.05	Negative
Rear Left BR	6	1	Wall	Sheetrk	Intact	0.5	Negative
Rear Left BR	6	1	Closet Door	Wood	Intact	-0.09	Negative
Rear Left BR	6	1	Clo Dr Csng	Wood	Intact	0.09	Negative
Rear Left BR	6	1	Ceiling	Sheetrk	Intact	0.23	Negative
Rear Left BR	6	1	Wall	Sheetrk	Intact	0.2	Negative

896-898 Howard Ave., Exterior, Bridgeport, Connecticut
September 22, 2014

Room Type	Room #	Wall #	Component	Substrate	Condition	K Shell	Decision
Calibration						1	Okay
Exterior	1	3	Door	Metal	Intact	-0.05	Negative
Exterior	**1**	**3**	**Door Casing**	**Wood**	**Non-intact**	**2.48**	**Positive**
Exterior	**1**	**3**	**Door Casing**	**Wood**	**Non-intact**	**19.42**	**Positive**
Exterior	**1**	**3**	**Threshold**	**Wood**	**Non-intact**	**7.37**	**Positive**
Exterior	**1**	**3**	**Kickplate**	**Wood**	**Intact**	**9.86**	**Positive**
Exterior	1	3	Bilco Door	Metal	Non-intact	0.49	Negative
Exterior	**1**	**4**	**Basement wnd trim**	**Wood**	**Non-intact**	**8.22**	**Positive**
Exterior	**1**	**4**	**Basement wnd trim**	**Wood**	**Non-intact**	**13.33**	**Positive**
Exterior	1	4	Wall	Masonry	Intact	0.26	Negative
Exterior	**1**	**7**	**Post/column**	**Wood**	**Non-intact**	**26.65**	**Positive**
Exterior	**1**	**7**	**Post/column**	**Wood**	**Non-intact**	**24.35**	**Positive**
Exterior	**1**	**1**	**Porch Wall**	**Wood**	**Intact**	**15.08**	**Positive**
Exterior	**1**	**1**	**Porch Floor**	**Wood**	**Intact**	**13.11**	**Positive**
Exterior	1	1	Porch Floor	Wood	Stain/varnish	0.14	Negative
Exterior	1	1	Door	Wood	Intact	-0.13	Negative
Exterior	**1**	**1**	**Door Jamb**	**Wood**	**Intact**	**15.04**	**Positive**
Exterior	1	1	Threshold	Wood	Intact	0.56	Negative
Exterior	1	1	Stair Tread	Wood	Non-intact	-0.09	Negative
Exterior	1	1	Stair Riser	Wood	Non-intact	-0.6	Negative
Exterior	1	1	Railing	Wood	Non-intact	0.35	Negative
Exterior	1	1	Spindle	Wood	Non-intact	-0.02	Negative
Exterior	1	2	Wall	Masonry	Non-intact	0.15	Negative
Exterior	**1**	**2**	**Basement wnd trim**	**Wood**	**Non-intact**	**4.95**	**Positive**
Exterior	**1**	**2**	**Trim under front porch**	**Wood**	**Non-intact**	**7.22**	**Positive**
Exterior	1	2	Wall	Wood	Non-intact	0.69	Negative

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LABORATORY ANALYSIS REPORT

Lead Analysis based on EPA 7000B Method
Using Preparation Method EPA 3050B

ACCOUNT #: 3813-14-639
CUSTOMER: Gilbertco Inc
ADDRESS: 287 Main Street
Ansonia, CT 06401
PROJECT NAME: MCA
JOB LOCATION: Howard Ave
PROJECT NO.: 9928-16
PO NO.:

DATE RECEIVED: 9/27/2014
DATE ANALYZED: 9/29/2014
DATE REPORTED: 9/30/2014

Sample Type: SOIL

SLI Sample No.	Customer Sample No.	Collection Date	Sample Description	Sample Wt (mg)	Total Lead (µg)	Lead Conc (% by wt)	Lead Conc PPM
32312514	9928-16	9/22/2014	Composite Right Side Of H	520	207.1	0.040	398

Analysis Run ID: 53876

Analyst: **MARTI H. BAIRD**
Total Number of Pages in Report: 1
Results relate only to samples as received by the laboratory.

Reviewed By **Thoria Nadiem, Analyst**
Visit www.slabinc.com for current certifications.

Accrediting bodies: AIHA-LAP, LLC 100527, NVLAP 101150-0, VELAP/NELAC 460135 - Call laboratory for current national and state certifications.

*Minimum Reporting Limit: 10.0 µg. EPA Soil Std for bare residential soil: 400 ppm by wt in play areas; 1200 ppm by wt in bare soil in the remainder of the yard based on an avg of all other samples collected. EPA does not distinguish between lead-contaminated soil and soil-lead hazards. Soil samples are tested as received unless noted as "Dried before analysis." *Data precision justifies 2 sig. figures. All internal QC parameters were met. Unusual sample conditions, if any, are described.*

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WorkOrderKey V: \ 1026 \ 1026560

Submitting Co.	Gilbertco LLC	Lab WO#	3813-A-639	Phone	800-959-2985
	257 Main St	Acct #	3813	Fax / Email	866-437-8191
	Ansonia CT 06401	**State of Collection	CT	**Cert. Required	☒ Yes ☐ No
Project Name:	MCA -	Special Instructions [Include requests for special reporting or data packages]			
Project Location:	Howard Ave				
Project Number:	9928-16				
PO Number:					

Turn Around Time

- ☐ 2 hours*
- ☐ Same day*
- ☐ 1 business day*
- ☐ 2 business day*
- ☒ 3 business days*
- ☐ 5 business days*
- ☐ Full TCLP (10d)
- ☐ Weekend*

* not available for all tests

Schedule rush organics, multi-metals & weekend tests in advance.

Matrix / Sample Type (Select ONE)

All samples on form should be of SAME matrix type. Use additional forms as needed.

- ☐ Air
- ☐ Aqueous
- ☐ Bulk
- ☐ Hi-Vol Filter (PM10)
- ☐ Hi-Vol Filter (TSP)
- ☐ Oil
- ☐ Paint
- ☐ Sludge
- ☒ Soil
- ☐ Solid
- ☐ Waste
- ☐ Wastewater
- ☐ Water,Drinking
- ☐ Compliance
- ☐ Wipe
- ☐ Wipe, Composite
- ☐ _____
- ☐ _____

Tests / Analytes (Select ALL that Apply)

Asbestos Air / Fiber Counts
- ☐ PCM (NIOSH 7400)
- ☐ TEM (AHERA)
- ☐ TEM (EPA Level II)
- ☐ _____

Miscellaneous Tests
- ☐ Total Dust (NIOSH 0500)
- ☐ Resp. Dust (NIOSH 0600)
- ☐ Silica - FTIR (NIOSH 7602)
- ☐ Silica - XRD (NIOSH 7500)
- ☐ Mold Direct Exam

Asbestos Bulk / Asb ID
- ☐ PLM (EPA 600/R-93/116)
- ☐ PLM (EPA Point Count)
- ☐ PLM (Qualitative only)
- ☐ NYELAP 198.1/.4/.6
- ☐ CAELAP (EPA Interim)
- ☐ TEM (Chatfield)
- ☐ _____

FOR ASBESTOS AIR:
TYPE OF RESPIRATOR USED: _____

Metals-Total Conc.
- ☒ Lead
- ☐ RCRA Metals
- ☐ _____
- ☐ _____

Metals-Extract
- ☐ TCLP / Lead
- ☐ TCLP / RCRA Metals
- ☐ TCLP / Full (w/ organics)

Others
- ☐ _____

Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type[1])	Wiped Area (ft²)	pH / Temp *	Time[2] Start	Time[2] Stop	Flow Rate[3] Start	Flow Rate[3] Stop	Total[4] Air
9928-16	9-22		Composite Soil Right side of house							

[1]Type: A=area B=blank P=personal E=excursion [2]Beginning/End of Sample Period [3]Pump Calibration in Liters/Minute [4]Volume in Liters (time in min * flow in L/min)

Sampled by
NAME M Monaco
SIGNATURE M Monaco
DATE/TIME 9-22-14

Relinquished to lab by
NAME M Monaco
SIGNATURE M Monaco
DATE/TIME 9-24-14

TW 9-27-14 11:15

☐ Receive a physical copy of report.

Sample Disposal
If samples over red. weight (Refer to Fee Schedule)
☐ Return to Sender (Shipping fees)
☐ Disposal by lab ($50 fee)

Shipping Methods
☐ FX ☐ UPS ☐ USM ☐ HD ☒ DB
WB: _____

☐ Sample return requested ☐ Ambient temp ☐ Ice Cl ☐ R ☐ S ☐ X

* Temperature taken with IR Gun A. **Required.

Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.

A. Background Information

Date Plan Submitted: October 2, 2014

Address of Property: 896-898 Howard Ave., Bridgeport, CT

Plan Prepared by: Owner ☐ Planner Project Designer ☒

Lead Planner / Project Designer

Name: Maureen Monaco Certificate: 2152

Telephone: 1-800-959-2985

Address: 287 Main Street, Ansonia, CT 06401

Inspection Report Used to Develop Abatement Plan

Date of Inspection: September 22, 2014

Consultant Contractor: Gilbertco Lead Inspections LLC, 287 Main Street, Ansonia, CT 06401 Consultant Contractor # 270

Telephone- 1-800-959-2985

Inspectors: Maureen Monaco- Lead Inspector Risk Assessor #1172

B . Owner Information

Name: O'Neal and Shena Anderson

Address: 896-898 Howard Ave., Second Floor, Bridgeport, CT

Telephone: 203-338-0053

C. Resident Information

Owner- Anderson family

Number of Children under six years old- one- O'Dayne Anderson dob 3-25-11

Will residents be relocated? Yes ❑ No ☒

D. Abatement Contractor Information

Who will conduct abatement? Owner ❑ Abatement Contractor ☒

Abatement contractor will submit all licenses and certifications of the company and individuals working on the property and give written notice to the Bridgeport Health Department at least five days prior to commencing the project.

This is a Department of Housing and Urban Development Project receiving Storm Sandy Disaster Recovery funds therefore must go out to bid. Abatement Contractor to be determined.

E. Repairs prior to Abatement

Please Note:

- Water leaks: Must be corrected prior to abatement regardless of the method of abatement. Uncorrected water leaks can cause encapsulating material to fail if the underlying lead painted surface deteriorates. Moisture can also cause paint on stripped surface (and unabated surface) to fail and expose lead residue that may remain on the substrate after stripping by heat, caustic chemicals, solvents or scraping.

- Heating Systems: Inadequate heat after abatement may lead to failure of encapsulants and paint. Therefore heating systems must be repaired. Prior to abatement, forced air systems must be shut down and sealed to prevent transport of lead contamination from the abatement area to other areas of the residence.

What Components or Mechanical Systems Need To Be Repaired Prior To Abatement?

❑ Water leaks, roof, plumbing, wall surfaces, etc.- Repairs to include interior ceiling and floor repair.

❑ Heating Systems-

❑ Electrical Systems

❑ Any other conditions that require repair so as not to impede abatement.

☒No prior repairs required.

F. Abatement Techniques To Be Used

Identify which abatement techniques will be used on the attached forms. The three general strategies for lead paint abatement are removal, replacement, and encapsulation. See attached relevant forms.

A. Removal (REM): stripping of paint

B. Replacement (REP): Architectural replacement components shall conform with all contract requirements and specifications. Product submittal shall conform with requirements of Section 01 33 00-Submittal Procedures.

C. BARRIER: (BAR): enclosure using approved materials such as siding or sheetrock.

D. Liquid Encapsulation: (LENCAP) : Use of Connecticut approved encapsulant; technical information and MSDS attached.

E. Cementitious Encapsulation (CENCAP): provide technical information

* Note: If rigid, liquid or cementitious encapsulants are to be used, the associated surfaces must be periodically monitored in the future per a schedule that is established within a lead management plan. Additionally liquid and cementitious encapsulants must be authorized for use by the Connecticut Department of Public Health (DPH) and listed on the DPH registry of Authorized Encapsulant Products.

Paint Removal means the stripping of lead paint from the surfaces of components. The following are some of the paint removal processes that can be used; chemical stripping, mechanical stripping, and wet scraping/wet sanding.

- **Chemical stripping**: there are a variety of paint removal products that are available from various manufacturers. Commonly the stripper is applied to the building component and later removes by manual scraping. All paint layers must be removed. Follow manufacturer's direction on how to apply such products.
- **Mechanical stripping**: This technique requires the use of power tools. Examples of such equipment are: needle guns, vibrating, belt, and rotary sanders. Abrasive blasting equipment and other types of impact strippers that employ the use of steel studs of different sizes and shapes, that rotate in an enclosed head to impact the painted surface. See manufacturer instructions on how to use this equipment. (Note: Mechanically powered abatement equipment requires the use of HEPA-equipped vacuum attachments to remove dust generated during the use of the equipment).
- **Wet Scraping/wet sanding**. Wet scraping or wet sanding manually removes loose and peeling lead paint. Paint chips and dust that are generated during these procedures, must be controlled, to avoid further distribution of contaminates to adjacent areas. Wet Scraping and sanding involves misting

the peeling paint before scraping or sanding, and thus reducing the amount of lead dust that is generated during these processes. Surfactants (wetting agents) may be added to the water to facilitate cleanup.

- **Heat Gun**: This removal technique involves the softening of the paint with a heat gun and then scraping the paint off. To prevent vaporization of the lead contained in the paint, the temperature of the heat gun must not exceed 700 degrees Fahrenheit per DPH regulations.

Replacement means the removal of components such as windows, doors and trim that have lead painted surfaces and the installation of new components that are fee of lead containing paint. Replacement may be feasible for many exterior and interior architectural components. Product submittal shall conform with requirements of Section 01 33 00- Submittal procedures.

Encapsulation refers to the processes that make lead paint inaccessible, by covering or sealing lead painted surfaces. If the lead paint is peeling or deteriorating then some wet scraping and/or wet sanding is necessary prior to encapsulation. The following are some types of rigid encapsulation materials: gypsum dry wall, fiberglass, wool and vinyl siding. Seams must be sealed to prevent the escape of lead dust. Liquid and cementitious encapsulants must be listed on the DPH registry of Authorized Encapsulant Products, to be considered for use.

The following cannot be used as encapsulants:

- A new coat of paint or primer
- Wall paper coverings
- Contact paper

Any area that is to be abated must be properly contained with materials such as 6 mil polyethylene sheeting to prevent further contamination of the dwelling or environment and to facilitate post abatement cleanup.

G. Dates of Abatement Project

Estimated start date: November 1, 2014

Estimated completion date: January 1, 2014

Note: Written notice shall be given to the local health department at least five days prior to actual starting date.

H. Notification To Connecticut Historical Commission- if property is over 50 years old

Year Built: 1920 +/- Notification required? Yes ☒ No ❑

Address of Ct Historical Commission:

CT Commission of Culture and Tourism and Historic Preservation
1 Constitution Plaza, Second Floor
Hartford, CT 06103
1-860-256-2800

Date filed- 10/2/14

I. Notification procedure

Written notice will be given to the residents five working days prior to start date. The notice shall:

- Inform the residents of their rights and responsibilities per the statutes and regulations

- Inform residents which surfaces or soil areas will be abated.

Additionally, warning signs shall be posted at all entrances to and exits from the abatement area, prior to abatement.

J. Containment of Work Area (Interior and Exterior)

Movable objects belonging to residents must be removed from the abatement area. The belongings should be stored in an easily accessible location.

Cover and seal all non-work surfaces with 6 mil polyethylene as follows;

a) non-movable objects

b) air systems heating, ventilation, and air conditioning

c) entrance to abatement areas

d) floors

e) exterior grounds and surfaces (use 6 mil polyethylene sheeting to prevent release of lead into the environment)

Note: The contractor and/or owner is responsible for using the best available engineering controls to reduce the potential for emissions to the exterior of an abatement area. Engineering controls may include but not limited to, proper containment and control of the abatement are, provision of negative pressure within containment area, use of wet scraping/wet sanding methods and use of vacuum HEPA attached power tools.

Describe proposed engineering controls:

Polyethylene to cover ground when any exterior work is to be done.

K. Cleaning After Lead- Based Paint Abatement (Prior to Clearance Testing)

Procedure: ☒ 1. Wet clean

☒ 2. Carefully remove the polyethylene covering.

☒ 3. Use a COMMERCIAL HEPA vacuum and wash with TSP or other effective non-TSP cleaner.

☒ 4. After 24 hours from the time active abatement has ceased, HEPA vac again, rewash with TSP or other effective non-TSP cleaner and HEPA vac again.

L. Waste Disposal (Hazardous)

A. Materials associated with the abatement shall be disposed of as hazardous waste with a TCLP reading $\geq$ 5 mg/l. The contractor shall obtain a small quantity hazardous waste generator ID number from the State of CT DEP for the site if hazardous waste exceeds 100 kilograms per month. Materials associated with this abatement include:

- Any lead containing or lead based paint debris
- Wood painted with lead based paint
- Stripped paint or paint chips
- Painted wall or ceiling plaster
- Painted concrete debris

B. Disposal of all hazardous waste shall comply with the requirements of Resource Conservation and Recovery Act (RCRA).

C. Contractor can wipe clean polyethylene sheeting and dispose of it as construction debris.

D. Dumpsters containing hazardous waste are to be kept covered and locked when not in active use for lading of materials.

E. All containers of hazardous lea bearing material shall carry the following label in accordance with 29 CFR 1926.62.

HAZARDOUS LEAD WASTE

Federal Law prohibits improper disposal.
If found, contact the nearest police or public safety authority,
or the U.S. Environmental Protection Agency
Generator Information:
Facility Name:
Facility Address:
Facility Phone Number:
EPA ID / Manifest Document # _____
Accumulation Start Date:_____
EAP Waste # _____
HAZARDOUS WASTE SOLID NUMBERS
ORM-E NA 9189 D008
HANDLE WITH CARE

Any questions regarding hazardous waste issues should be directed to:

State of CT- Dept of Environmental Protection, Waste Management Bureau, 79 Elm Street, Hartford, CT 06106-5127 ,1- 860-424-3023

M. Worker Protection

Note: Workers must use proper personal protective equipment per the OSHA Lead in Construction Standard (29CFR 1926.62) and state regulation. Full body covering (suits) with hood and shoe covering attached should be used to prevent lead dust contamination. Disposable coveralls that are used one time, provide effective protection. Indicate the level of protection that is to be provided:

Body Covering ❑ Disposable❑

Head Covering☒ hat Disposable☒

Hand covering ☒ Disposable ☒

Shoe Covering ☒ Disposable ☒

Respirator w/HEPA Filter❑ Type of respirator _____

Note: Neither smoking, eating, or drinking nor the application of cosmetic lip balm, is permitted within the work area. Use of personal clothing and foot wear is not permitted during abatement activities.

Indicate available washing facilities. Hand washing ☒ Showers ❑

Bathroom sink water is available for handwashing; do not use kitchen sink for cleanup.

N. Clearance Testing

Prior to reoccupancy, a visual inspection of abatement areas is required and dust samples shall be collected and analyzed from floors and window sills in each area where abatement has occurred. This inspection and sampling must be performed by a certified lead inspector, certified lead inspector risk assessor or an authorized code enforcement official.

☒ Visual inspection and sampling to be performed by a certified lead risk assessor.

Maureen Monaco , IR #1172
Gilbertco Lead Inspections LLC , CC # 270
287 Main Street, Ansonia, Ct 06401
1-800-959-2985 or

Facilities Support Services LLC
2685 State Street
Hamden, Connecticut 06517
1-203-288-1281

Sampling to include window sill, window well, and floor to be sampled in each room where abatement work has taken place.

❑ Visual Inspection to be performed by an authorized code enforcement official of the Bridgeport Health Department once reoccupancy criteria has been met.

O. Soil Abatement-

1. For soil lead levels between 400 ppm and 5000 ppm

❑ Plant grass or shrubbery to reduce exposure to bare soil.

❑ Permanent barrier; examples asphalt or cement

❑ Cover three to six inches with gravel or mulch-

❑ Restrict access-

❑ Excavate, remove and replace contaminated soil. Specify depth___.

❑ Relocate play equipment

2. For soil lead levels over 5000 ppm

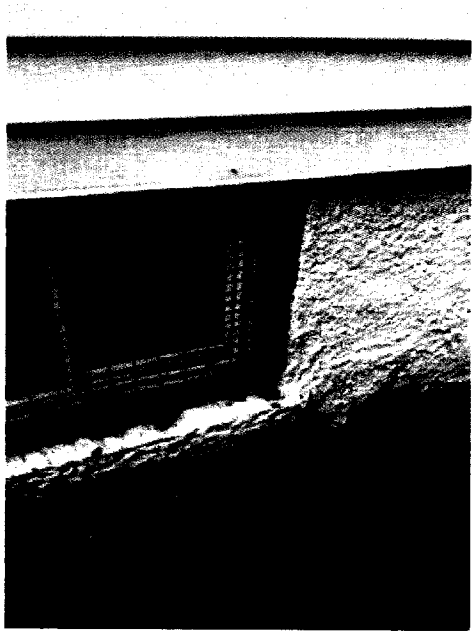
❑ Excavate and disposal top two inches

❑ Rototill soil

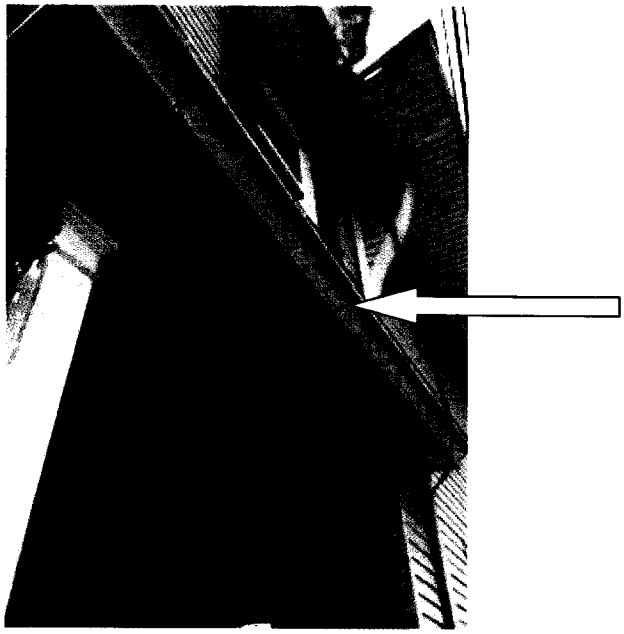
❑ Cover area with lead free soil, mulch, stone, asphalt or other acceptable covering

Key: PS- Paint Stabilization
BAR- Barriers
RESACC- Restricted Access
REM- Paint Removal
REP- Replace with new
LEN- Liquid Encapsulate
REN- Rigid Encapsulate
DCU- Dust Clean-up

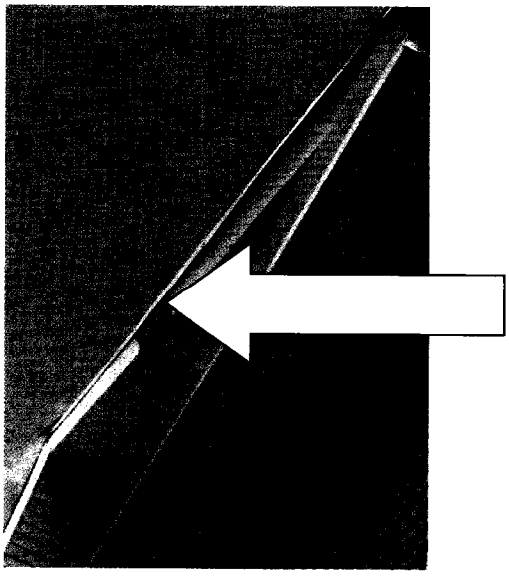
Room Name	Component	Abatement Method	Comments
2nd Floor Front Porch	Window Sills	LEN	
2nd Floor Front Porch	Wood Walls	LEN	
2nd Floor Front Porch	Clapboard –Wall 3	LEN	
2nd Floor Rear Porch	Transom	LEN or REN	
2nd Floor Rear Porch	Threshold	REM	
2nd Floor Rear Porch	Door Jamb	REM	
Exterior	Rear Door Casing	LEN	
Exterior	Threshold	REM	
Exterior	Basement window trim x 6 or 7	LEN	
Exterior	Front Porch columns	LEN	4 square and 2 round
Exterior	Trim under front porch side 2	REN	
Exterior	Exposed fascia	REN	



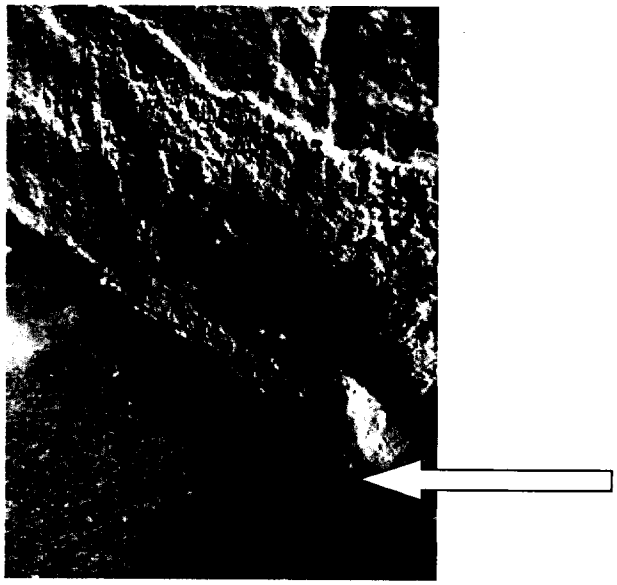
Basement wnd trim



exposed drip edge



Exposed Fascia- left side



Front Porch Trim side 2

GILBERTCO
LEAD INSPECTIONS, LLC

"LEAD BASED PAINT SPECIALIST"

October 1, 2014

State Historic Preservation Office
One Constitution Plaza
2nd Floor
Hartford, Connecticut 06103

Re: 896-898 Howard Ave., Bridgeport

An inspection of the above mentioned property in anticipation of Storm Sandy Disaster Recovery Block Grant monies revealed several lead hazards that require abatement because a child under the age of six resides on the property. Abatement will include drip edge and soffit repair and encapsulation of the basement window trim and front porch columns. Do you have any input?

Maureen Monaco
Gilbertco Lead Inspections LLC

287 Main Street
Ansonia, CT 06401
203-732-2615 - FAX 866-437-8191
Toll Free In CT Only 1-800-959-2985