APPENDIX "A"

ENVIRONMENTAL REVIEW REPORT

Community Development Block Grant – Disaster Recovery
Owner Occupied Rehabilitation and Rebuilding Program

Applicant #2322

62 Morehouse Highway, Fairfield, CT

September 30, 2014

Prepared for:

Quisenberry Arcari Architects, LLC
318 Main Street
Farmington, Connecticut

Prepared by:

Stephen Ball
294 White Deer Rocks Road
Woodbury, Connecticut

STATUTORY CHECKLIST [§58.35(a) activities]

for Categorical Exclusions and Environmental Assessments

Note: Review of the items on this checklist is required for both Categorical Exclusions under Sec. 58.35(a) and projects requiring an Environmental Assessment under Sec. 58.36. If no compliance with any of the items is required, a Categorical Exclusion [58.35(a)] may become "exempt" under the provisions of Sec. 58.34 (a) (12). In such cases attach the completed Statutory Checklist to a written determination of the exemption. Projects requiring an Environmental Assessment under Sec. 58.36 cannot be determined to be exempt even if no compliance with Statutory Checklist items is found. Three items listed at Sec. 58.6 are applicable to all projects, including those determined to be exempt.

Project Name and Identification/Location: **Steiner Residence # 2322**
62 Morehouse Highway
Fairfield, Connecicut

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
Document Laws and authorities listed at 24 CFR Sec. 58.5							
1. Historic Properties [58.5(a)] [Section 106 of NHPA]	☒	☐	☐	☐	☐	☐	No Effect - Consulted with State Historic Preservation Office (SHPO); Building built in 1947. No Effect determination dated April 10, 2014 attached.
2. Floodplain Management [58.5(b)] [EO 11988] [24 CFR 55]	☒	☐	☐	☐	☐	☐	Not located in Flood Plain – Map Number 09001C0428F Revised June 8, 2010. . See attached FIRMLET.
3. Wetland Protection [58.5 (b)]	☐	☒	☒	☐	☐	☐	Anticipated impacts on wetlands minimal due to majority of activities limited to pre-storm building footprint. National Wetlands mapper did not show as wetlands property, but local official stated wetlands on property. Consultation with local Inland/Wetland regulatory body may be required.
4. Coastal Zone Management [58.5(c)] [CGS 22a-100(b)]	☒	☐	☐	☐	☐	☐	Not located in a Coastal Zone Management area.
5. Water Quality – Aquifers [58.5(d)] [40 CFR 149] Clean Water Act 1977 Safe Drinking Water Act 1974	☒	☐	☐	☐	☐	☐	Water Quality – N/A Project does not involving on-site water and sewer facilities.
6. Endangered Species [58.5(e)] [16 U.S.C. 1531 et seq.] [CGS 26-310]	☒	☐	☐	☐	☐	☐	NOT LOCATED AT WATERFRONT PROPERTIES WITH SANDY BEACHES - consult with Department of Interior Fish and Wildlife Database – See attached Department of Interior Fish and Wildlife report.dated September 16, 2014.
7. Wild and Scenic Rivers [58.5 (f)] [16 U.S.C. 1271 et seq.]	☒	☐	☐	☐	☐	☐	Eightmile River is only designated wild & scenic river within program area running through Lyme, Salem and East Haddam, CT (rivers.gov; November 2012
8. Air Quality [58.5(g)] [42 U.S.C. 7401 et seq.]	☒	☐	☐	☐	☐	☐	Clean Air Act, State Implementation Plan, HUD & EPA Regulations; in general, residential rehabilitation exempted w/no quantifiable increase in air pollution.

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
9. Farmland Protection [58.5(h)]	☒	☐	☐	☐	☐	☐	Agricultural land use conversion not anticipated. Adverse effects to agricultural resources are not anticipated; clearly defined urban areas . Location not considered protected farmland
Manmade Hazards: 10 A. Thermal Explosive [58.5(i)]	☒	☐	☐	☐	☐	☐	N/A for projects that do not add density
10 B. Noise [58.5(i)]	☒	☐	☐	☐	☐	☐	Not applicable to project – restoration of structure substanitially as it existed prior to Super Storm Sandy.
10 C. Airport Clear Zones [58.5 (i)]	☒	☐	☐	☐	☐	☐	Not applicable - Two (2) FAA designated Commercial Service airports in program area: Tweed New Haven Regional and Groton-New London.
10 D. Toxic Sites [58.5 (i)(2)(i)]	☒	☐	☐	☐	☐	☐	The site has no known toxic history based on the attached Toxix Site Certification. The site: 1) is not listed on EPA Superfund National Prioritiyes or CERCLA list. 2) is not located within 3,000ft of a toxic or solid waste landfill. 3) is not known to have an undergroud storage tank (which is not an undergroud storage fuel tank). 4) Is not known or suspected to be contaminated by radioactive chemicals or radioactive materials.
11. Environmental Justice [58.5(j)]	☒	☐	☐	☐	☐	☐	Executive Order 12898 Program activities do not anticipate high & adverse human health and environmental effects on minority or low-income populations;
Document Laws and authorities listed at Sec. 58.6 and other potential environmental concerns							
12 A. Flood Insurance [58.6(a) & (b)]	☒	☐	☐	☐	☐	☐	Not located in Flood Plain – . – Map Number 09001C0428F Revised June 8, 2010. See attached FIRMLET Flood insurance not required.
12 B. Coastal Barriers [58.6(c)]	☒	☐	☐	☐	☐	☐	Property is not in a Coastal Barrier zone.
12 C. Airport Clear Zone Notification [58.6(d)]	☒	☐	☐	☐	☐	☐	Not applicable - Two (2) FAA designated Commercial Service airports in program area: Tweed New Haven Regional and Groton-New London. The project does not involve the purchase or sale of an existing property in an airport clear zone.
13. A Solid Waste Disposal [42 U.S.C. S3251 et seq.] and [42 U.S.C. 6901-6987 eq seq.]	☒	☐	☐	☐	☐	☐	Resource Conservation and Recovery Act and Solid Waste Disposal Act; Residential Exemption

Area of Statutory or Regulatory Compliance	Not Applicable to This Project	Consultation Required*	Review Required*	Permits Required*	Determination of consistency Approvals, Permits Obtained*	Conditions and/or Mitigation Actions Required	Provide compliance documentation. Additional material may be attached.
13 B. Fish and Wildlife [U.S.C. 661-666c]	☒	☐	☐	☐	☐	☐	Fish and Wildlife Coordination Act: Program activities will not result in impounding, diverting, deepening, channelizing or modification of any stream or body of water; not a water control project.
13 C. Lead-Based Paint [24 CFR Part 35] and [40 CFR 745.80 Subpart E]	☐	☒	☒	☐	☐	☐	Lead paint found - See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated May 2014. Give tenant Notice about Lead. Compliance will include removal of lead-based paint hazards, notifications, and clearance examinations.
13 D. Asbestos	☐	☒	☒	☒	☐	☐	Asbestos found – See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated May 2014. Compliance will include measures to minimize risk of exposure and when necessary abate any hazardous materials.
13 E. Radon [50.3 (i) 1]	☐	☐	☒	☐	☐	☐	Radon concentration less than 4 picocuries per liter of air. See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated May 2014. No action required.
13 F. Mold	☐	☒	☒	☐	☐	☐	Mold Found - See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated May 2014 Follw recommendations in report.
Other: State or Local 14 A. Flood Management Certification [CGS 25-68]	☒	☐	☐	☐	☐	☐	General Permit for CDBG-DR program activities with DEEP in development. Not located in Flood Plain – . – Map Number 09001C0428F Revised June 8, 2010. See attached FIRMLET
14 B. Structures, Dredging & Fill Act [CGS 22a-359 through 22a-363f]	☒	☐	☐	☐	☐	☐	Not applicable – this project is not waterward of the Coastal Jurisdiction Line.
14 C. Tidal Wetlands Act [CGS 22a-28 through 22a-35]	☒	☐	☐	☐	☐	☐	Not located in Title wetlands
14 D. Local inland wetlands/watercourses [CGS 22a-42]	☐	☐	☒	☐	☐	☐	Anticipated impacts on wetlands minimal due to majority of activities limited to pre-storm building footprint. National Wetlands mapper did not show as wetlands property, but local official stated wetlands on property. Consultation with local Inland/Wetland regulatory body may be required
14 E. Various Municipal Zoning Approvals	☐	☒	☐	☐	☐	☐	Approvals required by Planning/Zoning Commission or ZBA if work required outside building footprint..

DETERMINATION:

☐ This project converts to Exempt, per §58.349a)(12), because it does not require any mitigation for compiance with any listed statutes or authorities, nor requires any formal permit or license. Funds may be drawn down for this (now) EXEMPT project; **OR**

☒ This project cannot convert to Exempt because one or more statutes/authories requires consultation or itigation. Complete consultation/mitigation requirements, publish NOI/RROF and obtain Authority to Use Grant Funds (HUD 7015.16) per §58.70 and 58.71 before drawing down funds; **OR**

☐ The unusual circumstances of this project may reasult in a significant environmental impact. This project requires preparation of an Environmental Assessment (EA). Prepare the EA according to 24 CFR Part 58 Subpart E.

Prepared by:

9/26/14

Name: Stephen Bali — Date

Responsible Entity or designee Signature:

Hermia Delaire, CDBG-DR Program Manager — 10/6/14 Date

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MBLU :	46/ 291/ / / /
Location:	62 MOREHOUSE HIGHWAY
Owner Name:	STEINER HILDA
Account Number:	17276

Parcel Value

Appraised Value	Assessed Value
385,000	269,500

Owner of Record

STEINER HILDA
62 MOREHOUSE HIGHWAY
FAIRFIELD, CT 06824

Ownership History

Owner Name	Book/Page	Sale Date	Sale Price
STEINER HILDA	984/ 337	6/7/1990	0

Land Use

Land Use Code	Land Use Description
1010	Single Fam MDL-01

Land Information

Size	Zone
0.34 AC	R3

Construction Detail

Building # 1

STYLE Cape
MODEL Residential
Stories: 1 1/4 Stories
Occupancy 1
Exterior Wall 1 Stucco/Masonry
Exterior Wall 2 Wood Shingle
Roof Structure: Gable/Hip
Roof Cover Asphalt
Interior Wall 1 Plastered
Interior Flr 1 Carpet
Interior Flr 2 Hardwood
Heat Fuel Gas
Heat Type: Forced Air-Duc
AC Type: None
Total Bedrooms: 03
Total Bthrms: 2
Total Half Baths: 0
Total Rooms: 6

Building Information

Living Area: 1,358 square feet
Year Built: 1947
Building Value: 82,200

Extra Features

Code	Description	Units
No Extra Building Features		

Outbuildings

Code	Description	Units
FGR1	GARAGE-AVE	440 S.F.

Building Sketch

62 morehouse fairfield, ct
Search Maps
Morehouse Hwy
Congress St
Morehouse Dr
Merritt Pky
Congress St
Trail St
Cascade
Mohican Hill Rd
Cascade Dr
Sassafrass Rd
Lamplighter Ln
Morehouse Hwy
'ck Rock Tpke

62 MOREHOUSE HIGHWAY

Location	62 MOREHOUSE HIGHWAY	**Assessment**	$269,500
Mblu	46/ 291/ / /	**Appraisal**	$385,000
Acct#	17276	**PID**	4247
Owner	STEINER HILDA	**Building Count**	1

Current Value

Appraisal	
Valuation Year	**Total**
2013	$385,000
Assessment	
Valuation Year	**Total**
2013	$269,500

Owner of Record

Owner	STEINER HILDA	**Sale Price**	$0
Co-Owner		**Book & Page**	984/ 337
Address	62 MOREHOUSE HIGHWAY FAIRFIELD, CT 06824	**Sale Date**	06/07/1990

Ownership History

Ownership History
No Data for Ownership History

Building Information

Building 1 : Section 1

Year Built: 1947
Living Area: 1358

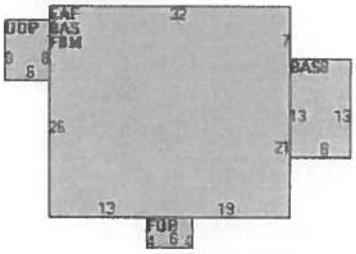
Building Attributes	
Field	**Description**
Style	Cape
Stories:	1 1/4 Stories
Occupancy	1
Exterior Wall 1	Stucco/Masonry
Exterior Wall 2	Wood Shingle
Roof Structure:	Gable/Hip
Roof Cover	Asphalt
Interior Wall 1	Plastered

Building Photo

Interior Wall 2	
Interior Flr 1	Carpet
Interior Flr 2	Hardwood
Heat Fuel	Gas
Heat Type:	Forced Air-Duc
AC Type:	None
Total Bedrooms:	3 Bedrooms
Total Bthrms:	2
Total Half Baths:	0
Total Xtra Fixtrs:	
Total Rooms:	6 Rooms
Bath Style:	Average
Kitchen Style:	Average

(http://images.vgsi.com/photos/FairfieldCTPhotos//\02\01\30/29.jpg)

Building Layout



Building Sub-Areas			
Code	Description	Gross Area	Living Area
BAS	First Floor	1000	1000
EAF	Attic, Expansion, Finished	896	358
FBM	Basement, Finished	896	0
FOP	Porch, Open, Finished	24	0
UOP	Porch, Open, Unfinished	48	0
		2864	1358

Extra Features

Extra Features
No Data for Extra Features

Land

Land Use

Use Code	1010
Description	Single Fam MDL-01
Zone	R3
Alt Land Appr	No

Land Line Valuation

Size (Acres)	0.34
Depth	0

Category

Outbuildings

Outbuildings				Legend
Code	**Description**	**Sub Code**	**Sub Description**	**Size**
FGR1	GARAGE-AVE			440 S.F.

Valuation History

Appraisal	
Valuation Year	**Total**
2012	$385,000
2011	$385,000
2010	$385,000

Assessment	
Valuation Year	**Total**
2012	$269,500
2011	$269,500
2010	$269,500

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Print

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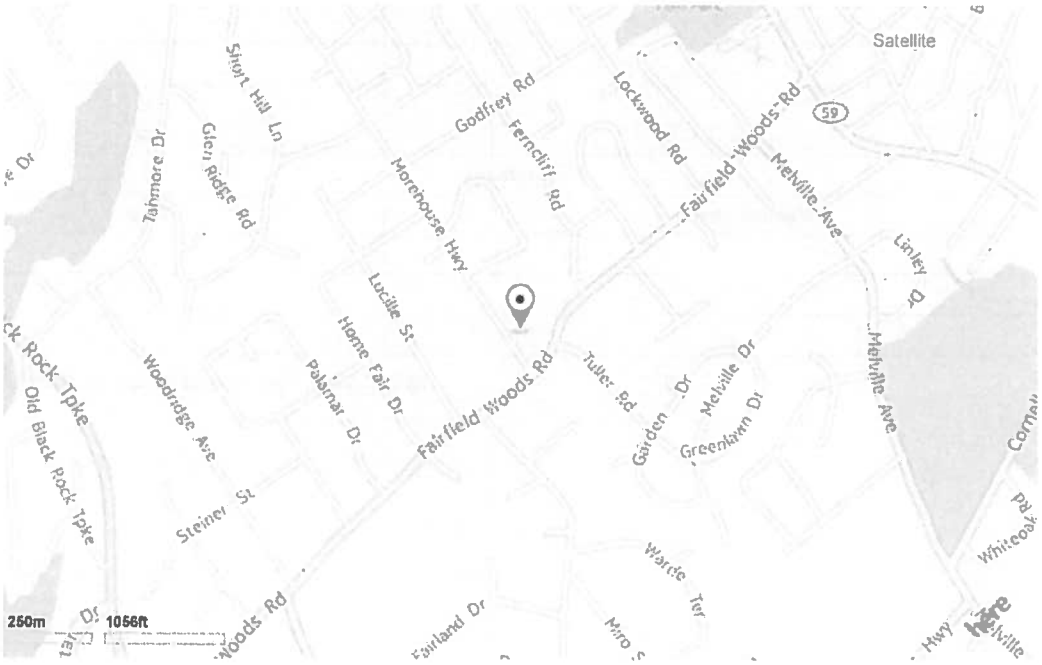
YAHOO! MAPS

62 Morehouse Hwy, Fairfield, CT 06825-2709

Enter notes here

255



When using any driving directions or map, it is a good idea to double check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning

2322511

Department of Economic and Community Development

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April 10, 2014

RECEIVED
APR 21 2014
DEPT. OF HOUSING

Hermia M. Delaire
Program Manager
CDBG - Sandy Disaster Recovery Program
Department of Housing
505 Hudson Street
Hartford, CT 06106

Subject: Department of Housing Superstorm Sandy Reviews
62 Morehouse Highway
Fairfield, CT

Dear Ms. Delaire:

The State Historic Preservation Office has reviewed the information submitted for the above-named pursuant to the provisions of Section 106 of the National Historic Preservation Act of 1966. It is the opinion of this office that the property located at 62 Morehouse Highway is not eligible for listing on the National Register of Historic Places.

Based on the information provided, the proposed rehabilitation of 62 Morehouse Highway will have no effect on the state's cultural resources.

This office appreciates the opportunity to have reviewed and commented upon the project.

For further information please contact Laura L. Mancuso, Environmental Review Coordinator, at (860) 256-2757 or laura.mancuso@ct.gov.

Sincerely,

Daniel T. Forrest
Deputy State Historic Preservation Officer

STEPHEN BALL
294 White Deer Rocks Road
Woodbury, Connecticut 06798

April 7, 2014

Todd Levine
Deputy State Historic Preservation Officer
One Constitution Plaza, 2nd floor
Hartford, CT 06103

Re: Environmental Review – 62 Morehouse Highway, Fairfield, CT

Dear Mr. Levine:

An Environmental Review for renovations due to Super Storm Sandy at 62 Morehouse Highway, Fairfield, CT is required for the use of CDBG-DR funding through the Connecticut Department of Housing. The review requires that State Historic Preservation Office determination regarding historic significance.

I have attached the State Historic Preservation Office review form, scope of proposed work, photographs, map, and assessor's cards.

We do not feel the property has any historic significance and are requesting a finding of "No Effect".

Should you have any questions or require any additional information, feel free to call me at (203) 509-7231.

Thanks,

Stephen Ball

Enc.

Department of Economic and Community Development

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State Historic Preservation Office

One Constitution Plaza | Hartford, CT 06103 | 860.256.2800 | Cultureandtourism.org

PROJECT REVIEW COVER FORM

1. This information relates to a previously submitted project. [ ] You do not need to complete the rest of the form if you have been previously issued a SHPO Project Number. Please attach information to this form and submit.

SHPO Project Number _____
(Not all previously submitted projects will have project numbers)

Project Address 62 Morehouse Hwy
(Street Address and City or Town)

2. This is a new Project. [x] If you have checked this box, it is necessary to complete ALL entries on this form .

Project Name Steiner House Renovations

Project Location 62 Morehouse Highway
Include street number, street name, and or Route Number. If no street address exists give closest intersection.

City or Town Fairfield
In addition to the village or hamlet name (if appropriate), the municipality must be included here.

County Fairfield
If the undertaking includes multiple addresses, please attach a list to this form.

Date of Construction (for existing structures)_____

PROJECT DESCRIPTION SUMMARY (include full description in attachment):
See attached Projected Scope and Magnitude of Cost prepared by Quisenberry Arcari Architects LLC dated March 24, 2014

TYPE OF REVIEW REQUESTED

a. Does this undertaking involve funding or permit approval from a State or Federal Agency?

[x] Yes [ ] No

Agency Name/Contact	Type of Permit/Approval	State	Federal
CT Dept. of Housing	CDBG-DR	x	x

	Yes	No
b. Have you consulted the SHPO and UCONN Dodd Center files to determine the presence or absence of previously identified cultural resources within or adjacent to the project area?		x
If yes: Was the project site wholly or partially located within an identified archeologically sensitive area?		
Does the project site involve or is it substantially contiguous to a property listed or recommended for listing in the CT State or National Registers of Historic Places?		
Does the project involve the rehabilitation, renovation, relocation, demolition or addition to any building or structure that is 50 years old or older?		

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PROJECT REVIEW COVER FORM

The Historic Preservation Review Process in Connecticut Cultural Resource Review under the National Historic Preservation Act – Section 106 http://www.achp.gov/106summary.html involves providing technical guidance and professional advice on the potential impact of publicly funded, assisted, licensed or permitted projects on the state's historic, architectural and archaeological resources. This responsibility of the State Historic Preservation Office (SHPO) is discharged in two steps: (1) identification of significant historic, architectural and archaeological resources; and (2) advisory assistance to promote compatibility between new development and preservation of the state's cultural heritage.

Project review is conducted in two stages. First, the SHPO assesses affected properties to determine whether or not they are listed or eligible for listing in the Connecticut State or National Registers of Historic Places. If so, it is deemed "historic" and worthy of protection and the second stage of review is undertaken. The project is reviewed to evaluate its impact on the properties significant materials and character. Where adverse effects are identified, alternatives are explored to avoid, or reduce project impacts; where this is unsuccessful, mitigation measures are developed and formal agreement documents are prepared stipulating these measures. For more information and guidance, please see our website at: http://www.cultureandtourism.org/cct/cwp/view.asp?a=3933&q=293820

ALL PROJECTS SUBMITTED FOR REVIEW MUST INCLUDE THE FOLLOWING MATERIALS*:

[x] **PROJECT DESCRIPTION** Please attach a full description of the work that will be undertaken as a result of this project. Portions of environmental statements or project applications may be included. The project boundary of the project should be clearly defined**

[x] **PROJECT MAP** This should include the precise location of the project – preferably a clear color image showing the nearest streets or roadways as well as all portions of the project. Tax maps, Sanborn maps and USGS quadrangle maps are all acceptable, but Bing and Google Earth are also accepted if the information provided is clear and well labeled. The project boundary should be clearly defined on the map and affected legal parcels should be identified.

[x] **PHOTOGRAPHS** Clear, current images of the property should be submitted. Black and white photocopies will not be accepted. Include images of the areas where the proposed work will take place. May require: exterior elevations, detailed photos of elements to be repaired/replaced (windows, doors, porches, etc.) All photos should be clearly labeled.

For Existing Structures	Yes	N/A	Comments
Property Card	[x]	[ ]	
For New Construction	**Yes**	**N/A**	**Comments**
Project plans or limits of construction (if available)	[ ]	[ ]	
If project is located in a Historic District include renderings or elevation drawings of the proposed structure	[ ]	[ ]	
Soils Maps http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm	[ ]	[ ]	
Historic Maps http://magic.lib.uconn.edu/	[ ]	[ ]	
For non-building-related projects (dams, culverts, bridge repair, etc)	Yes	N/S	Comments
Property Card	[ ]	[ ]	
Soils Map (see above)	[ ]	[ ]	
Historic Maps (see above)	[ ]	[ ]	

STAFF REVIEW AREA	Above	Date	Below	Date
Indicate date of Review and Initials of Reviewer				

PROJECT CONTACT

Name Stephen Ball Title Consultant

Firm/Agency

Address 294 White Deer Rocks Road

City Woodbury State CT Zip 06798

Phone Cell 203-509-7231 Fax

Email stephenjball@hotmail.com

*Note that he SHPO's ability to complete a timely project review depends largely on the quality of the materials submitted.

** Please be sure to include the project name and location on *each page* of your submission.

Department of Economic and Community Development

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State Historic Preservation Office

One Constitution Plaza | Hartford, CT 06103 | 860.256.2800 | Cultureandtourism.org

PROJECT REVIEW COVER FORM

SHPO USE ONLY

Based on our review of the information provided to the State Historic Preservation Office, it is our opinion that:

☐ No historic properties will be affected by this project. No further review is requested.

☐ This project will cause no adverse effects to the following historic properties. No further review is requested:

☐ This project will cause no adverse effects to the following historic properties, conditional upon the stipulations included in the attached letter:

☐ Additional information is required to complete our review of this project. Please see the attached letter with our requests and recommendations.

☐ This project will adversely affect historic properties as it is currently designed or proposed. Please see the attached letter for further details and guidance.

Daniel T. Forrest
Deputy State Historic Preservation Officer

Date

MAP SCALE 1" = 500'

250 0 500 1000 FEET

METER

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0428F

FIRM

FLOOD INSURANCE RATE MAP

FAIRFIELD COUNTY, CONNECTICUT
(ALL JURISDICTIONS)

PANEL 428 OF 626

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS

COMMUNITY	NUMBER	PANEL	SUFFIX
BRIDGEPORT, CITY OF	090002	0428	F
FAIRFIELD, TOWN OF	090007	0428	F

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
09001C0428F

EFFECTIVE DATE
JUNE 18, 2010

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

U.S. Fish and Wildlife Service

National Wetlands Inventory

Steiner Residence

Sep 27, 2014

Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

Wetlands - yes

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 3301
PHONE: (603)223-2541 FAX: (603)223-0104
URL: www.fws.gov/newengland

Consultation Tracking Number: 05E1NE00-2014-SLI-0563 September 16, 2014
Project Name: Steiner Residence

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project.

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having

similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment

United States Department of Interior
Fish and Wildlife Service

Project name: Steiner Residence

Official Species List

Provided by:

New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 3301
(603) 223-2541
http://www.fws.gov/newengland

Consultation Tracking Number: 05E1NE00-2014-SLI-0563
Project Type: Federal Grant / Loan Related
Project Description: Repair damage from Superstorm Sandy

United States Department of Interior
Fish and Wildlife Service

Project name: Steiner Residence

Project Location Map:

Project Coordinates: MULTIPOLYGON (((-73.2614858 41.2096489, -73.260414 41.2077125, -73.2619804 41.2068892, -73.2629675 41.2087941, -73.2614858 41.2096489)))

Project Counties: Fairfield, CT

United States Department of Interior
Fish and Wildlife Service

Project name: Steiner Residence

Endangered Species Act Species List

There are a total of 0 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

There are no listed species identified for the vicinity of your project.

Critical habitats that lie within your project area

There are no critical habitats within your project area.

10 D. Toxic Site Certification

I certify that the property identified as 62 Morehouse Highway Fairfield, Connecticut was checked for inclusion on the attached lists/databases:

DEEP State of Connecticut Superfund Priority List
EPA – Proposed National Priority List dated May 12, 2014
EPA – Final National Priority List dated May 12, 2014
EPA – Deleted National Priority List dated May 12, 2014
EPA – Partial Deleted National Priority List dated May 12, 2014
EPA – Construction Completed at NPL Site
DEEP List of Contaminated or Potentially Contaminated Site dated February 10, 2014.

As on August 28, 2014, 62 Morehouse Highway Fairfield, Connecticut was not listed on any of the above.

Stephen Ball
ERR Reviewer

MAP SCALE 1" = 500'

50 0 500 1000 FEET

METER

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0428F

FIRM

FLOOD INSURANCE RATE MAP

FAIRFIELD COUNTY, CONNECTICUT
(ALL JURISDICTIONS)

PANEL 428 OF 626

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS

COMMUNITY	NUMBER	PANEL	SUFFIX
BRIDGEPORT, CITY OF	090003	0428	F
FAIRFIELD, TOWN OF	090007	0428	F

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER
09001C0428F

EFFECTIVE DATE
JUNE 18, 2010

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

Limited Hazardous Building Materials Inspection Report

Storm Sandy Residential Rehabilitation Project
62 Morehouse Highway
Fairfield, Connecticut

Quisenberry Arcari Architects, LLC

Farmington, Connecticut

May 2014

FUSS & O'NEILL

Fuss & O'Neill EnviroScience, LLC
56 Quarry Road
Trumbull, CT 06611

Project No. 20140277.B3L

FUSS & O'NEILL
EnviroScience, LLC

May 15, 2014

Mr. Thomas Arcari
Principal
Quisenberry Arcari Architects LLC
318 Main Street
Farmington, CT 06032

RE: Limited Hazardous Building Materials Inspection
Storm Sandy Residential Rehabilitation Project
62 Morehouse Highway, Fairfield, Connecticut
Fuss & O'Neill EnviroScience Project No. 20140277.B3E
Quisenberry Arcari Project No. 1346-20

Dear Mr. Arcari:

Enclosed is the report for the limited hazardous building materials inspection performed at 62 Morehouse Highway in Fairfield, Connecticut.

The initial inspection was performed on April 25, 2014, by Fuss & O'Neill EnviroScience, LLC state licensed inspectors and included an asbestos inspection, testing for lead-based paint, airborne radon assessment, mold assessment, and assessments for PCB-containing light ballasts and mercury hazards. On May 12, 2014, EnviroScience performed a lead-based paint risk assessment.

The information summarized in this document is for the above-mentioned materials only. It does not include information on other hazardous materials that may exist in the property (such as underground storage tanks, PCB containing building materials, etc.).

If you have any questions regarding the contents of this report, please do not hesitate to contact us at 203) 374-3748. Thank you for this opportunity to have served your environmental needs.

Sincerely,

Kevin McCarthy
Project Manager

Timothy Downey
Senior Project Manager

cc: Chris O'Neill, Quisenberry Arcari Architects LLC

Enclosure

56 Quarry Road
Trumbull, CT
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www.fando.com

Connecticut
Massachusetts
Rhode Island
South Carolina

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FUSS & O'NEILL
EnviroScience.m

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Quisenberry Arcari Architects LLC
62 Morehouse Highway, Fairfield, Connecticut

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Quisenberry Arcari Architects LLC
62 Morehouse Highway, Fairfield, Connecticut

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APPENDIX H - SITE PHOTOGRAPHS

1 Introduction

On April 25, 2014, and April 28, 2014, Fuss & O'Neill EnviroScience, LLC (EnviroScience) Environmental Technicians, Mr. Robert Hobbins and Mr. James Blum, performed a limited hazardous building materials inspection of the residential structure located at 62 Morehouse Highway in Fairfield, Connecticut. Mr. Hobbins and Mr. Blum are State of Connecticut-licensed Asbestos Consultants - Inspectors and Certified Lead Paint Inspectors. On May 12, 2014, EnviroScience Environmental Technician Mr. Ulkens Auguste performed a lead paint risk assessment within the residence. Mr. Auguste is a State of Connecticut-Certified Lead Paint Inspector/Risk Assessor. The residential structure was not occupied at the time and date of the inspection. Refer to *Appendix A* for EnviroScience license and certifications

This inspection was performed in response to the planned renovations to damaged or impacted areas of the building caused by Superstorm Sandy, as identified in the *Draft Residence Rehabilitation Letter* dated March 24, 2014, provided by Quisenberry Arcari Architects. The limited inspection consisted of the following:

- A inspection for asbestos-containing materials (ACM) associated with the scheduled roof replacement;
- Testing and risk assessment of painted surfaces for lead;
- An evaluation of fluorescent light fixtures for polychlorinated biphenyls (PCB) light ballasts;
- An inventory of light tubes/lamps and devices for mercury;
- Airborne radon gas assessment; and
- A mold assessment.

2 Asbestos Inspection

A Property Owner must ensure that performance of a thorough inspection for asbestos-containing materials (ACM), prior to possible disturbance of suspect ACM during renovation or demolition, is conducted. This is a requirement of the Unite States Environmental Protection Agency (EPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) regulation located at Title 40 CFR Part 61, Sub-Part M.

This includes Friable, Non-Friable Category I, and Non-Friable Category II ACM.

- A Friable Material is defined as material that contains greater than one percent (>1%) asbestos, that when dry **can** be crumbled, pulverized, or reduced to powder by hand pressure.
- A Category I Non-Friable Material refers to material that contains greater than one percent (>1%) asbestos (e.g. packings, gaskets, resilient floor coverings, asphalt roofing products, etc.) that when dry **cannot** be crumbled, pulverized, or reduced to powder by hand pressure.
- A Category II Non-Friable Material refers to any non-friable material (excluding Category I materials) that contains greater than one percent (>1%) asbestos that when dry **cannot** be crumbled, pulverized, or reduced to powder by hand pressure.

During this inspection, suspect ACM were separated into three EPA categories. These categories are: thermal system insulation (TSI), surfacing ACM, and miscellaneous ACM. TSI includes all materials used to prevent heat loss or gain or water condensation on mechanical systems. Examples of TSI are pipe insulation, boiler insulation, duct insulation, and mudded insulation on pipe fittings. Surfacing ACM includes all ACM that is sprayed, troweled, or otherwise applied to an existing surface. Surfacing ACM is commonly used for fireproofing, decorative, and acoustical applications. Miscellaneous materials include all ACM not listed in thermal or surfacing, such as linoleum, vinyl asbestos flooring, and ceiling tiles.

Samples are recommended to be collected in a manner sufficient to determine asbestos content and include homogenous building materials. The EPA NESHAP regulation does not specifically identify a minimum number of samples to be collected and analyzed, but recommends the use of sampling protocols included in EPA Title 40 CFR Part 763, Sub-Part E - Asbestos Containing Materials in Schools regulation.

Samples of suspect ACM were collected in accordance with EPA recommendations and Asbestos Hazard Emergency Response Act (AHERA) protocols. The protocols included the following:

1. Surfacing Materials (SURF) (e.g., plaster, spray-on fireproofing, etc.) were collected in a randomly distributed manner representing each homogenous area based on the overall quantity represented by the sampling as follows:
   a. Three samples collected from each homogenous area that is less than or equal to (≤) 1,000 square feet.
   b. Five samples collected from each homogenous area that is greater than (>) 1,000 square feet, but less than or equal to 5,000 square feet.
   c. Seven samples collected from each homogenous area that is greater than (>) 5,000 square feet.

2. Thermal System Insulation (TSI) (e.g., pipe insulation, tank insulation, etc.) was collected in a randomly distributed manner representing each homogenous area. Three bulk samples were collected as representative of each homogeneous material type, and sent to laboratory for asbestos analysis. Also, a minimum of one sample of any patching material (less than 6 linear of square feet) applied to TSI was collected.

3. Miscellaneous Materials (MISC) (e.g. floor tile, gaskets, construction mastics, etc.) had a minimum of two samples collected as representative of each homogenous material type. Sampling was conducted in a manner sufficient to determine asbestos content of the homogenous material as determined by the Asbestos Inspector. If materials identified were of (significant) minimal quantity, only a single sample was collected.

The Asbestos Consultant – Inspector collected samples and prepared proper chain-of-custody for transmission of samples to an accredited asbestos analytical laboratory for analysis by Polarized Light Microscopy (PLM). The sampling locations, material type, quantity, sample identification, and asbestos content are identified by bulk sample analysis in Tables 1 and 2 of the "Results" section and Table 3 of the "Discussion" section. Any materials on the site not listed in the following tables should be considered suspect ACM until sample results indicate otherwise. Refer to *Appendix B* for PLM analytical results for asbestos bulk samples.

2.1 Results

Utilizing the EPA protocol and criteria, the following materials were determined to be ACM:

Table 1
Asbestos-Containing Materials

Location	Material Type	Asbestos Content	Estimated Quantity	Sample No.
Basement Furnace Room	Pipe Insulation	30 % Chrysotile	2 SF	0425BH01A
Basement	Duct Wrap/Cover	40 % Chrysotile	40 SF	0425BH03A
Basement Furnace Room	Wrap/Cover on Sheetrock Ceiling	20 % Chrysotile	200 SF	0425BH15A
Kitchen	Pink Sink Undercoating	5 % Chrysotile	1 Sink	0425BH19A
Main Floor Bathroom	Ceramic Wall Tile Grout	2.25 % Chrysotile	50 SF *(Estimate Includes Tile & Mortar)*	*0425BH26A*[1]
Kitchen	Yellow/White/Brown Sheet Flooring	15 % Chrysotile	100 SF	0425BH35A
Exterior Window Systems	Exterior Window Glazing Compound	5 % Chrysotile	15 Window Systems	0425BH49A
	Exterior Window Caulking Compound	5 % Chrysotile		0425BH50A
(Rear) Basement Exterior Window System (Crank style)	Exterior Window Glazing Compound	5 % Chrysotile	1 Window System	0425BH51A
Roof	Roof Flashing	Assumed	10 SF	N/A

Note: **SF**=Square Feet
*1*See *Section 2.2 Discussion* for Point Count Analysis

Utilizing the EPA protocol and criteria, the following materials were determined to be **non-ACM**:

Table 2
Non-Asbestos Containing Materials

Location	Material Type	Sample No.
Basement	Woven Hair-Like Pipe Insulation	0425BH02A-C
	Paper Backing on Fiberglass Insulation	0425BH04A-C
Main Floor Bump-Out Room	2' x 4' Fiberboard Ceiling Tile	0425BH05A-B
Main Floor and 2nd Floor	Top & Base Coat Plasters	0425BH06A-G, 07A-G
Basement Furnace Room	Gray Light-Weight Concrete/Plaster over Sheetrock Wall	0425BH08A-C
Kitchen	Stamped Skim Coat Wall Plaster (Tile Pattern)	0425BH09A-C
Basement	Sheetrock & Taping Compound	0425BH10A-B, 11A-B, 12
Main Floor	Wallpaper & Associated Glue	0425BH13A-B, 14A-B
Basement Furnace Room	Chimney Flue Cement	*0425BH16A-C*[1]
2nd Floor Bathroom	Countertop/Glue	0425BH17A-B
Basement	Black Sink Undercoating	0425BH18A-B
2nd Floor Bath	Ceramic Wall Tile, Glue, & Grout	0425BH20A-B, 21A-B, 22A-B
	Ceramic Floor Tile & Grout	0425BH23A-B, 24A-B
Main Floor Bathroom	Ceramic Wall Tile & Thinset	*0425BH25A-B*[2], *27A-B*[2]
Kitchen	Brown Cove Base & Glue	0425BH28A-B, 29A-B
Basement	White/Blue/Pink Sheet Flooring , Glue, & Vapor Barrier/Mastic	0425BH30A-B, 31A-B, 32A-B
Main Floor Bathroom	White Floor Tile & Mastic	0425BH33A-B, 34A-B[1]
Kitchen	Yellow/White/Brown Sheet Flooring Glue	0425BH36A-B[2]
Basement	Multi-Colored Sheet Flooring (under Stair Tread)	0425BH37A-B
	Black Stair Tread & Glue	0425BH38A-B, 39A-B
	Concrete Block & Grout	0425BH40A-B, 41A-B
	Brick & Grout	0425BH42A-B, 43A-B
	Concrete over Furnace Oil Line (Floor)	0425BH44A-B
Exterior of Building	Exterior Concrete Stucco	0425BH45A-B
	Exterior Concrete Foundation	0425BH46A-B
	Exterior Damp-Proofing/Tar on Foundation	0425BH47A-C
	Exterior Concrete Stairs	0425BH48A-B
Exterior Roof	Exterior Roof Shingles & Base Sheet	0425BH52A-B, 53A-B

Note: *1* See *Section 2.2 Discussion* for Point Count Analysis
2 To be disposed of as asbestos-contaminated waste

2.2 Discussion

The EPA defines any material that contains greater than one percent (>1%) asbestos, utilizing PLM, as being an ACM. Materials that are identified as "none detected" are specified as not containing asbestos. At EnviroScience, materials that are identified as containing less than four percent (< 4%) asbestos are analyzed further utilizing the "point-counting" technique to verify asbestos content. This policy is supported by EPA requirements for "point-counting" confirmation of low level PLM results. The following samples were analyzed by point-counting based on initial PLM results of < 4% asbestos.

Table 3
Analysis Results using Point-Counting

Sample No.	Location	Material Type	Asbestos Content	Verified ACM?
0425BH16B	Basement Furnace Room	Chimney Flue Cement	0.75 % Chrysotile	**No**
0425BH26A	Main Floor Bathroom	Ceramic Tile Grout	2.25 % Chrysotile	**Yes**
0425BH34A-B		Black Floor Mastic	0.25 %–0.75% Chrysotile	**No**

2.3 Conclusion

ACM that is identified in *Section 2.1 - Table 1* must be removed by a State of Connecticut-licensed Asbestos Abatement Contractor prior to building renovations that will disturb these materials. This is a requirement of the State of Connecticut Department of Public Health (CTDPH) Standards for Asbestos Abatement requirement.

The non-friable roofing materials identified in *Section 2.1 - Table 1* have been de-regulated by the Connecticut Department of Public Health (CTDPH). The identified non-friable roofing materials may be removed by either a CTDPH-licensed Asbestos Abatement Contractor, or by a roofing contractor provided they adhere to all Occupational Safety and Health Administration (OSHA) training requirements and EPA NESHAP regulatory requirements. All asbestos waste must be properly sealed (leak/airtight containers) and disposed in a landfill approved to accept asbestos waste. A licensed Asbestos Abatement Contractor is only required should the ACM be made friable and become a regulated asbestos containing material (RACM) by work activities. All applicable CTDPH regulations shall apply if the roofing material becomes RACM.

Note that materials containing trace amounts of asbestos (less than 1%) asbestos are not regulated by the abovementioned regulations and standards with the exception of OSHA regulations with regard to worker exposure to asbestos. If disturbed, materials noted as containing less than 1% asbestos will be subject to OSHA requirements to determine appropriate worker exposure and training requirements.

Roof Flashing –Roof flashing was not identified along gutters and roof drip line at the time of the inspection. Roof flashing exists at chimney, vent pipes, and dormer windows and should be assumed to be ACM unless sample results prove otherwise.
Note that since this asbestos inspection was limited, we recommend conducting a supplemental inspection of hidden and inaccessible areas (behind walls/beneath fixed floors, exterior foundation, etc.) prior to demolition/renovation activities.

Any suspect material encountered during renovation activities that is not identified in this report as being non-ACM, should be assumed to be ACM unless sample collection and analysis indicate otherwise.

3 Lead-Based Paint Testing

EnviroScience conducted comprehensive testing for lead-based paint (LBP) within the residential structure located at 62 Morehouse Highway in Fairfield, Connecticut. The testing was performed by EnviroScience's Environmental Technicians Mr. Hobbins and Mr. Blum on April 25, 2014, and 28, 2014. The purpose of the testing was for compliance with EPA's Renovation, Repair, and Painting Rule (RRP) (Title 40 CFR, Parts 745.80 through 92), and the United States Department of Housing and Urban Development (HUD) Lead-Safe Housing Rule (Title 24 CFR, Part 35, Sub-part B-R). On May 12, 2014, Mr. August performed a risk assessment for the purpose of compliance with HUD Lead-Safe Housing Rule (Title 24 CFR, Part 35, Sub-part B-R).

A direct reading X-ray fluorescence (XRF) analyzer was used to perform the testing. The testing was conducted in accordance with the protocol outlined in the attached document: "Testing Procedures and Equipment" (*Appendix C*).

For the purpose of this testing, various interior and exterior building components representing the initial painting history of the building, and any building-wide repainting by the owners/managers of these building components were tested. Individual repainting efforts are not discoverable in such a limited testing program. The purpose of this testing was to identify patterns and trends in the painting history of the buildings in order to determine if the EPA Toxicity Characteristic Leaching Procedure (TCLP) analysis is required for demolition debris prior to off-site disposal. Additionally, representative lead in dust wipe samples, lead in soil samples, and lead in drinking water samples were collected for the risk assessment portion of the project.

The structure is constructed of a concrete siding exterior with metal/wood window and door systems. The interior walls and ceiling are constructed of sheetrock and plaster with both wood and concrete floors. The building was unoccupied at the time and date of the testing, and no children under the age of six were present within the residence at time of the inspection.

3.1 XRF Testing Results

The testing indicated consistent painting patterns and trends throughout the building interiors and exteriors. No painted components were determined to contain toxic levels of lead (greater than 1.0 milligrams of lead per square centimeter of paint [mg/cm^2]) with the exception of the following:

Table 4
Lead Painted Building Components

Building Component	Location	Reading (mg/cm²)	Defective?
Concrete Block Wall (B-side)	Basement Storage	1.4	Yes
Interior Door		>9.9	Yes
Interior Window Sash	1st Floor Bedroom	1.7	No
Interior Window System Components (Trim, Sill, Sash, Well)	1st Floor Bathroom	2.5 - >9.9	No
Interior Window Sash	1st Floor Dining Room	1.5	No
Interior Door & Casing	1st Floor Living Room	1.0 – 2.2	No
Interior Window Sash		1.6	No
Wood Ceiling (above 2' x 4' Ceiling Tile)	1st Floor Bump Out	3.1	No
Interior Door & Casing		1.9 – 2.3	No
Exterior Window Trim	Exterior of Side-B	>9.9	Yes
Metal Porch Ceiling		3.4	Yes
Exterior Window Sash	Exterior of Side-C	4.8	Yes
Upper Trim	Garage	1.1	Yes
Exterior Window–Blindstop	Garage	6.6	Yes

Refer to Appendix D for the field testing sheets and diagrams.

3.2 Dust Wipe Samples Results

Representative dust wipe samples were collected inside the residence located at 62 Morehouse Highway to evaluate whether a lead dust hazard existed. The sample numbers, locations, and results are as follows:

Table 5
Lead Dust Wipe Sample Results

Sample No.	Sample Location	Results*
051214UA-01	Room 1–Floor	<10 ug/ft²
051214UA-02	Room 1 (A)–Window Sill	8,800 ug/ft²
051214UA-03	Room 2–Floor	<10 ug/ft²
051214UA-04	Room 2 (A1)–Window Sill	5,200 ug/ft²
051214UA-05	Room 2 (A1)–Window Sill–*duplicate sample*	2,800 ug/ft²
051214UA-06	Room 3 (A1)–Window Sill	13,000 ug/ft²
051214UA-07	Room 3–Floor	<10 ug/ft²
051214UA-08	Room 4–Floor	<10 ug/ft²
051214UA-09	Room 1 (C)–Window Sill	2,100 ug/ft²
051214UA-10	Field Blank	<10 ug/ft²
051214UA-11	Field Blank	<10 ug/ft²

Note: **µg/ft²** = micrograms of lead per square foot

Dust wipe samples were collected from window sill and floor locations as delineated on our sample log. The dust wipe sampling was conducted in accordance with the protocol outlined in the document "Lead Testing Procedures and Equipment" (*Appendix C*). Sample results were compared to State of Connecticut standards for dust as follows:

- 40 µg/ft² for floors
- 250 µg/ft² for window sills

The analytical sample results and chain of custody forms are provided as *Appendix E* in this report.

3.3 Lead in Soil and Drinking Water

Bare soil areas were not identified on the property, therefore lead in soil was not assessed. In addition, water service to the residence was disconnected, therefore lead in drinking water was not assessed.

3.4 Conclusion

The following building components were determined to be coated with toxic levels of lead in paint::

- Basement Storage Concrete Wall
- Basement Storage Door
- 1st Floor Bedroom Window Sash

- 1st Floor Bathroom Window System
- 1st Floor Dining Room Window Sash
- 1st Floor Living Room Window Sash
- 1st Floor Living Room Door
- 1st Floor Bump-Out Room Ceiling
- 1st Floor Bump-Out Room Door
- Exterior Window Systems
- Exterior Porch Ceiling
- Exterior Garage Upper Trim
- Exterior Garage Window Blindstop

Interior defective LBP identified on the basement storage wall and door must be completely abated of LBP. Exterior defective LBP identified on the exterior window trim and metal porch ceiling on the B Side of the residence, exterior window sash on the C Side of the residence, and upper trim and exterior window – blindstop on the garage can be managed with interim controls that consist of scrapping defective LBP and encapsulating the painted surface with a State of Connecticut-approved encapsulate.

If these LBP-containing building components are to be demolished during renovations, a TCLP sample of the demolition waste stream must be collected to determine off-site disposal requirements.

Dust wipe sample results were above the State of Connecticut standard for window sill surfaces; a lead dust hazard does exist in the areas tested. Lead dust located on the window sill surfaces throughout the residence must be cleaned to below the State of Connecticut clearance standard of 40 $\mu g/ft^2$.

Note that OSHA has not established a level of lead in a material below which Title 29 CFR, Part 1926.62 does not apply. The Contractor shall comply with exposure assessment criteria, interim worker protection, and other requirements of the regulation as necessary to protect workers and building occupants.

For purposes of complying with the EPA RRP, a comprehensive lead inspection of the entire structure or targeted areas scheduled for renovation is necessary to determine if the RRP rule is applicable. A Comprehensive Lead Inspection includes testing representative coated surfaces of each building component in each room or room equivalent for lead in paint content. All similar building components to the surface tested on a per room basis shall be considered as having the same paint (e.g., if more than one window or door in a room - typically only one is tested but remaining must be assumed to be the same as the one tested). **This inspection was performed as a comprehensive inspection of all representative surfaces within the residence that are scheduled to be disturbed and can be utilized to determine applicability requirements for the RRP rule on surfaces tested.**

Those surfaces which contain lead paint are subject to RRP work practice and training requirements if more than de-minimus amounts are disturbed in renovation or for projects involving window replacement. Those surfaces which do not contain lead paint are not subject to the RRP requirements. If a specific component or surface is not identified as having been tested it should be presumed to contain lead paint unless tested. Contractor's should be aware that the threshold limit of 1.0 mg/cm^2 for purposes of RRP requirements is not recognized by the Occupational Safety and Health Administration (OSHA) and worker exposures are still subject to the Lead in Construction regulation (Title 29 CFR, Part 1926.62).

4 Assessment of PCB-Containing Fluorescent Ballasts

Fluorescent light ballasts manufactured prior to 1979 may contain capacitors that contain PCBs. Ballasts installed as late as 1985 may contain PCB capacitors. Fluorescent light ballasts that are not labeled as "No-PCBs" must be assumed to contain PCBs unless proven otherwise by quantitative analytical testing. Capacitors in fluorescent light ballasts labeled as non-PCB containing may contain diethylhexl phthalate (DEHP). DEHP was the primary substitute to replace PCBs for small capacitors in fluorescent lighting ballasts in use until 1991. DEHP is a toxic substance, a suspected carcinogen and is listed under the EPA Resource Conservation and Recovery Act (RCRA) and the Superfund law as a hazardous waste. Therefore, Superfund liability exists for land filling both PCB and DEHP-containing light ballasts. These listed materials are considered hazardous waste under RCRA and require special handling and disposal requirements.

On April 25, 2014, EnviroScience representative Mr. Hobbins performed an inspection of representative fluorescent light fixtures to identify possible PCB-containing ballasts. The inspection involved visually inspecting labels on representative light ballasts to identify dates of manufacture and labels indicating "No PCB's". Ballasts manufactured after 1991 were not listed as a PCB or DEHP-containing ballast and not quantified for disposal. Ballasts without a label indicating "No PCB's" are presumed to be PCB waste and must be segregated for proper removal, packaging, transport and disposal as PCB waste. Ballasts with date labels indicating manufacture prior to 1991 that indicate "No PCB's" are presumed to contain DEHP and must be segregated for proper removal, packaging, transport, and disposal as non-PCB hazardous waste. The disposal requirements are slightly varied and costs are slightly less for DEHP than PCB-containing light ballasts.

4.1 Results

Several of the light fixtures that were examined were labeled with neither the manufacturer's information, nor a "No PCB's" label. However during the inspection, some types of light ballasts were labeled with a "No PCB's" label. Therefore there is a mixture of assumed PCB-containing and non-PCB containing light ballasts within the building areas inspected. .

All of the light ballasts observed in the building were labeled with either the manufacturer's information, or a "No PCBs" label. The light ballast labeled with the manufacturer's information are assumed to contain PCBs and the light ballasts label "No PCBs" are assumed to contain DEHP.

4.2 Conclusion

The ballasts labeled "No PCBs" should properly recycled as PCB and the remaining ballast labeled "No PCBs" ballasts should be properly recycled as assumed DEHP if the renovation activities will disturb the materials.

5 Assessment of Mercury-Containing Devices

Fluorescent lamps/tubes are presumed to contain mercury vapor, which is a hazardous substance to both human health and the environment. Thermostatic controls and electrical switch gear may contain a vial or bulb of mercury associated with the control. Mercury-containing equipment is regulated for proper disposal by the EPA RCRA hazardous waste regulations. Mercury lamps according to the EPA are considered a universal waste requiring all fluorescent lamps/tubes to be recycled or disposed as hazardous waste.

On April 25, 2014, EnviroScience's representative Robert Hobbins performed a visual in-place inventory of mercury amps/tubes, thermometers, and mercury switches.

5.1 Results

One thermometer and 20 light bulbs were observed during the inventory conducted.

5.2 Conclusion

The mercury-containing thermostat and light bulbs should be properly disposed prior to disturbance.

6 Mold Visual Assessment

On April 24, 2014, EnviroScience representative Mr. Hobbins performed a visual assessment for the presence of suspect mold and water intrusion.

6.1 Observations

Suspect mold growth was identified on the sheetrock walls throughout the basement area. Mold was confirmed by the identification of *Stachybotrys* in a bulk sample collected of the suspect mold growth by whom…when?.

Refer to *Appendix E* for analytical mold bulk sample results.

6.2 Recommendations

Potential exposure to mold during renovation should be considered and appropriate work protection, possible use of engineering controls and surface treatment of mold on building materials to remain should is recommended.

We recommend building materials that are to remain in areas of visible suspect mold growth be cleaned and treated with a mold inhibitor, where feasible. Remediation of visible suspect mold growth and removal of water damaged building materials should be performed within a negative pressure enclosure/environment, using properly trained and protected workers. Removal should comply with guidance according to EPA and the Institute of Inspection, Cleaning and Restoration Certification (IICRC).

7 Airborne Radon Information, Sampling and Procedure

7.1 Radon Facts and Health Effects

Radon is a naturally-occurring radioactive gas produced by the natural breakdown (decay) of uranium which is naturally occurring in soil and rock throughout the United States. Radon gas travels through soil and enters buildings through cracks and other penetrations in building foundations. Eventually the gas itself decays into radioactive particles (decay products) that can become trapped in the lungs during human respiration. As these particles in turn decay they release small bursts of radiation which can damage lung tissue and lead to lung cancer over the course of a person's lifespan.

EPA studies have found that radon concentrations in outdoor air average approximately 0.4 picoCuries per liter of air (pCi/L). However, radon and its decay products can accumulate too much higher concentrations inside a building. The EPA has adopted an action level of 4.0 pCi/L; equal to or above which the EPA recommends that building owners take action to reduce the level of airborne radon with the building.

Radon is a colorless, odorless and tasteless gas, and thus, the only way to know whether or not an elevated level of radon is present in a building is to test the air for radon gas. The lowest living level of a dwelling should be measured, as even adjacent rooms can have significantly different levels of radon.

Again, radon is a known human carcinogen. Prolonged exposure to elevated radon concentrations causes an increased risk of lung cancer. Like other environmental pollutants, there is some uncertainty about the magnitude of radon health risks. However, scientists are more certain about radon risks than risks from most other cancer-causing environmental pollutants as estimates of radon risk are based on studies of cancer in humans (underground miners). Additional studies on more typical, non-occupationally exposed, populations are underway.

EPA estimates that radon may cause about 14,000 lung cancer deaths in the United States each year, with a range of 7,000 to 30,000. The United States Surgeon General has warned that radon gas is the second-leading cause of lung cancer deaths after smoking, and is the leading cause among non-smokers.

7.2 Airborne Radon Sampling

From April 25, 2014, to April 28, 2014, EnviroScience representatives set up passive radon detection canisters in limited areas within the dwelling located at 62 Morehouse Highway. The canisters were retrieved at least 48 hours, but not later than 96 hours later. The canisters were supplied by Radon Testing Corporation of America (RTCA).

It is recommended that such canisters be placed at least 20-inches from the floor and 12-inches away from exterior walls. Also, it is recommended that the canisters not be placed near drafts resulting from HVAC intakes and returns, doors, and at least 36-inches from windows. Canisters should also not be exposed to direct sunlight, be covered up, or otherwise disturbed during the testing period. A closed building condition is also utilized for 12-hours prior to testing being conducted.

Sample analysis is performed by RTCA and results are included in *Appendix F*.

7.3 Airborne Radon Quality Assurance Procedure

EPA strongly recommends that quality assurance measurements are included in radon measurement studies. Quality assurance measurements include side-by-side canisters (duplicates), and unexposed control canisters (blanks).

Duplicates are pairs of canisters deployed in the same location, side by side, for the same measurement period. Duplicates are placed in at least ten percent of all sampling locations. These duplicate canisters are stored, deployed, removed, and shipped to the laboratory for analysis in the same manner as the other canisters. If either or both of the analyses in a duplicate pairing is above the EPA standard of 4.0 pCi/L the relative percent difference (RPD) between the two tests must be determined. If the allowable difference is exceeded, the test is determined to be invalid and a new duplicate test must be run. If both canister results are below the EPA standard then the RPD is not calculated since, despite any disparity, both results are below the EPA standard.

Blanks are utilized to determine whether the manufacturing, shipping, storage, and processing of the canisters has affected the accuracy of airborne radon sampling procedures. Blanks are unopened, unexposed canisters which are set out with and shipped with the exposed canisters so that the processing laboratory treats them equally. The number of blanks is at least five percent of the number of canisters deployed up to a maximum of 25 canisters.

7.4 Airborne Radon Analytical Results

Four canisters, including one duplicate and one blank, were placed in target locations within the structure during sampling that was performed April 25, 2014, to April 28 2014. The concentrations of radon in the samples during the assessment ranged from 0.1 pCi/L to 0.8 pCi/L. The EPA recommended action level for radon is 4.0 pCi/L.

Table 6 lists the locations and analytical results of quality control duplicate tests for April 25, 2014, to April 28, 2014.

Table 6
Duplicate Samples Results – April 25, 2014 – April 28, 2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)			Relative Percent Difference (RPD, %)
		Sample	Sample Duplicate	Sample Average	
Dining Room	2314146 2314076	0.2	0.1	0.15	Percent Difference Not Needed (No Concentrations above 4.0 pCi/Liter)

Note Duplicate testing results were satisfactory.

In *Table 7,* the locations and results of quality control blank tests for April 25, 2014, to April 28, 2014, are listed.

Table 7
Blank Samples Results – April 25 2014 – April 28, 2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)
Basement	2313927	0.1

Note Blank testing results were satisfactory

In *Table 8,* the locations, canister numbers, and radon concentrations are listed for the airborne radon assessment conducted on April 25, 2014, to April 28, 2014..

Table 8
Radon Sampling Results – April 25, 2014 – April 28, 2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)
Dining Room	2314146	0.2
Basement	2314145	0.8

7.5 Conclusion

During the course of the initial radon measurement assessment, four sampling canisters, including one duplicate and one blank, were placed in targeted locations within the dwelling located at 62 Morehouse Highway in Fairfield, Connecticut. The analytical results of each of the four samples analyzed, indicated radon gas concentrations below the EPA recommended action level of 4.0 pCi/L.

Photographs are provided in *Appendix G.*

Report prepared by Environmental Technician Robert Hobbins.

Reviewed by:

Kevin McCarthy
Project Manager

Timothy Downey
Senior Project Manager

Appendix A

Fuss &O'Neill EnviroScience State Licenses and Certifications

0001088 FP **PRSRT T5 0 0564 06040

JOHN R. HOBBINS
C/O FUSS & O'NEILL ENVIROSCIENCE, LLC
146 HARTFORD ROAD
MANCHESTER CT 06040

Dear Licensed/Certified Professional,

Attached you will find your validated license/certification for the existing year. Should you have any questions about your license/certificate renewal, please do not hesitate to write or call:

Department of Public Health (860) 509-7603
P.O. Box [illegible]
[illegible] http://www.dph.state.ct.us
Hartford, CT 06134-0308

Sincerely,

[illegible]

INSTRUCTIONS:

1. **Detach** and **sign** each of the cards on this form.
2. Display the large card **in** a prominent place in your office or place of business.
3. The **wallet** card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's **copy** is for **persons** who must demonstrate current **licensure/certification** in order to **retain employment** or **privileges**. The employer's card is to be **presented** to **the employer** and kept by them as a **part** of your **personal file. Only** one copy of this card can be **supplied** to you.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE PROFESSIONAL [illegible] IS LICENSED
TO PRACTICE [illegible] IN THE PROFESSION OF

ASBESTOS CONSULTANT INSPECTOR

LICENSE NO.
A107140
CURRENT THROUGH
01/31/15
VALIDATION NO.
03-798142

JOHN R. HOBBINS

signature

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JOHN R. HOBBINS
LICENSE NO. 000700
CURRENT THROUGH 01/31/15
VALIDATION NO. 03-798142
PROFESSION
ASBESTOS CONSULTANT INSPECTOR

signature

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JOHN R. HOBBINS
LICENSE NO. 000700
CURRENT THROUGH 01/31/15
VALIDATION NO. 03-798142
PROFESSION
ASBESTOS CONSULTANT INSPECTOR

signature

Pano & O'Neill EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040 - (860) 646-2469

This is to certify that

John Robert Hobbins

XXX-XX-6053

has successfully completed the

4 Hr. Asbestos Inspector Refresher

Asbestos Accreditation under TSCA Title II

40 CFR Part 763

John Kowinski, Principal Instructor

Robert L. May, Jr., Training Manager

September 4, 2013

Date of Course

AI R-09/13-6

Certificate Number

September 4, 2013; B-

Examination Date & Grade

September 4, 2014

Expiration Date

John R. Hobbins
C/O FUSS & O'NEILL ENVIROSCIENCE, LLC
146 HARTFORD ROAD
MANCHESTER, CT 06040

Dear Licensed/Certified Professional,
Attached you will find your [illegible] license/certification for the coming year. Should you have any questions about your license/certification renewal, please do not hesitate to write or call:

Department of Public Health
P.O. Box [illegible]
M.S.#12MQA
Hartford, CT 06134-0308

(860) 509-7603
http://www.dph.state.ct.us

Sincerely,

JEWEL MULLEN, MD, MPH, MPA, COMMISSIONER
DEPARTMENT OF PUBLIC HEALTH

INSTRUCTIONS:

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]

[redacted]
John R. Hobbins
[redacted]
Lead Inspector
[redacted]

[redacted]
John R. Hobbins
[redacted]
Lead Inspector
[redacted]

[redacted]
John R. Hobbins
[redacted]
Lead Inspector
[redacted]

CERTIFICATE OF ACHIEVEMENT

This certifies that

John Robert Hobbins
97 Montowese Street, Branford, CT 06405
000-00-0853

has successfully completed the

INSPECTOR REFRESHER
Training Course
conducted by
Cardno ATC
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070

Principal Instructor: Neal Freuden

January 30, 2014
Date of Course

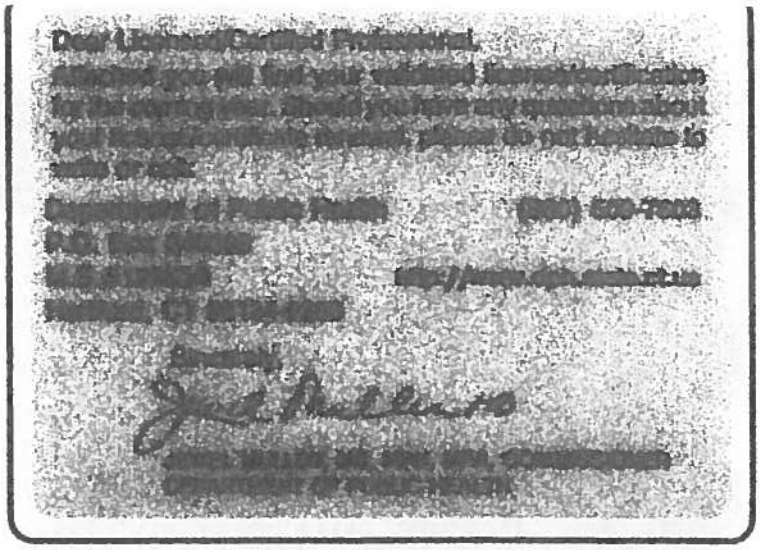
January 30, 2014
Exam Date

CT-IR-205
Certificate Number

January 30, 2015
Expiration Date

Training Manager: Gregory Morsch

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



0001672 FP **PRSRT T0 0 1564 06040
JAMES B BLUM
FUSS & O'NEILL ENVIROSCIENCE LLC
146 HARTFORD RD
MANCHESTER CT 06040-5992

INSTRUCTIONS:

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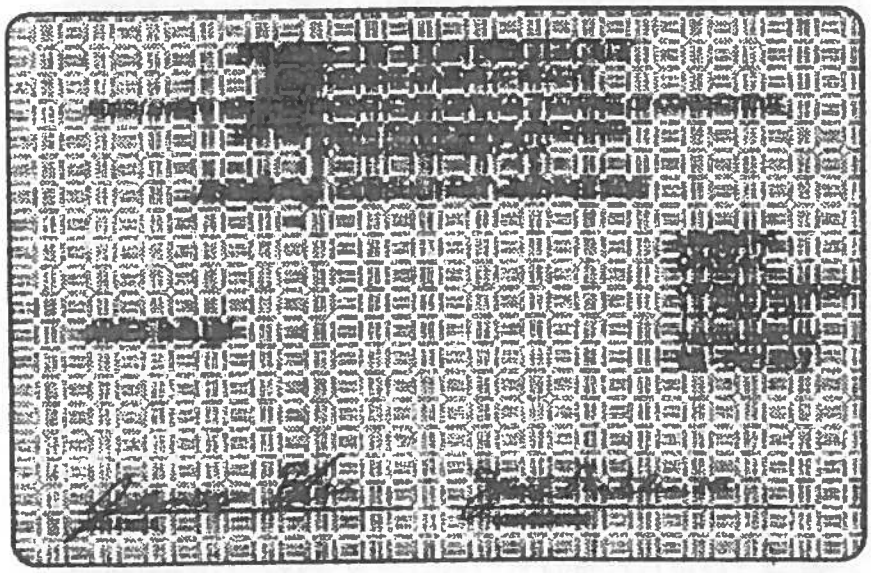
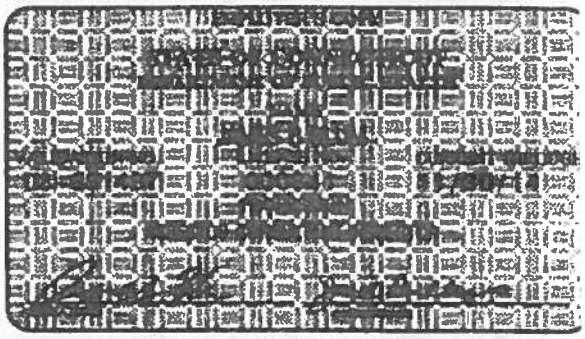
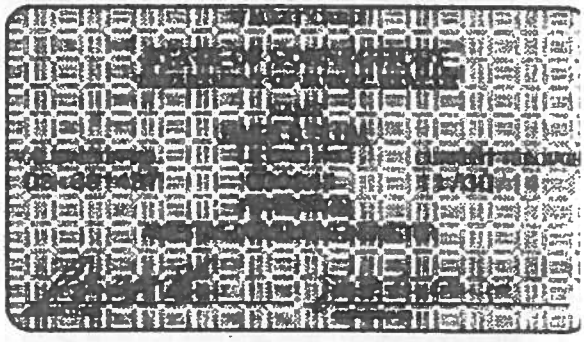
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personal file. Only one copy of this card can be supplied to you.







Fuss & O'Neill EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040 – (860) 646-2469

This is to certify that

James Blum

xxx-xx-1625

[illegible]

[illegible] Asbestos Inspector Refresher

Asbestos [illegible] under 15 U.S.C. Title II

40 C.F.R. Part 763

John Rowinski, Principal Instructor

Robert L. May, Jr., Training Manager

September 4, 2013

Date of Course

AI-R-0913-2

Certificate Number

September 4, 2013; A

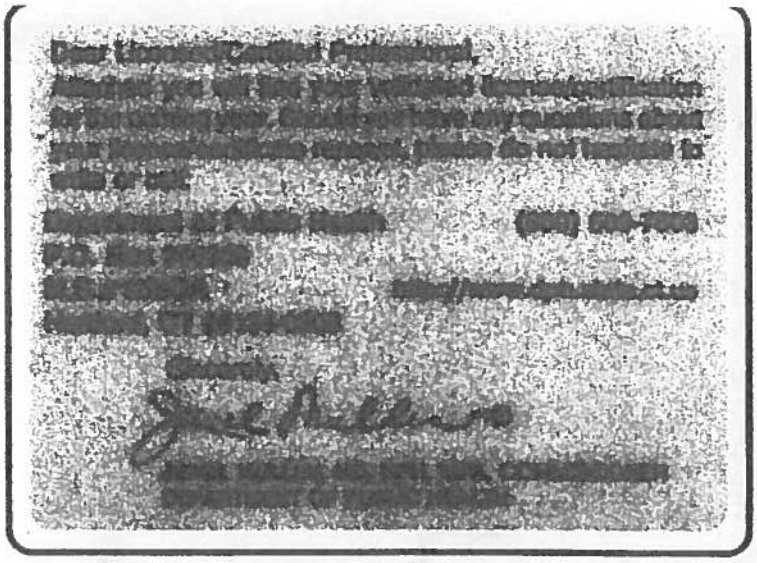
Examination Date & Grade

September 4, 2014

Expiration Date

0001674 FP **PRSRT T0 0 1564 06040

JAMES B BLUM
FUSS & O'NEILL ENVIROSCIENCE LLC
146 HARTFORD RD
MANCHESTER CT 06040-5992



INSTRUCTIONS:

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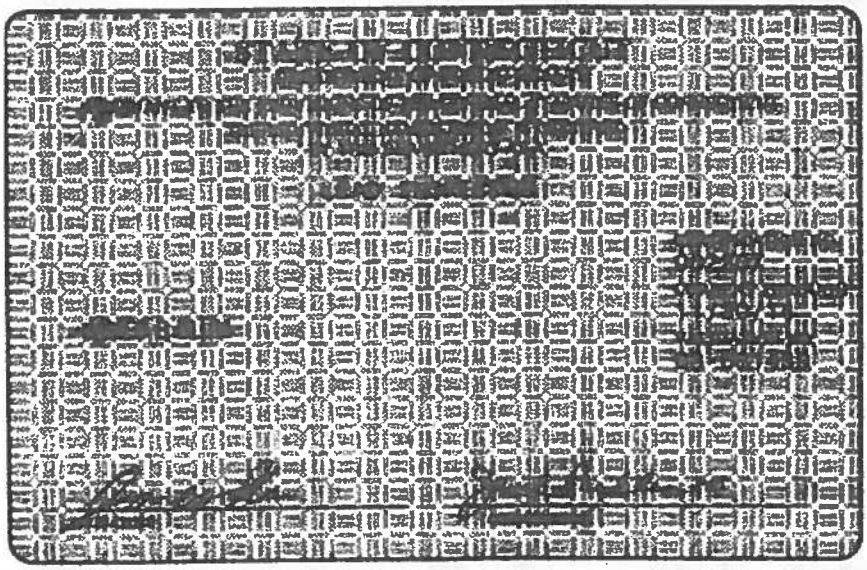

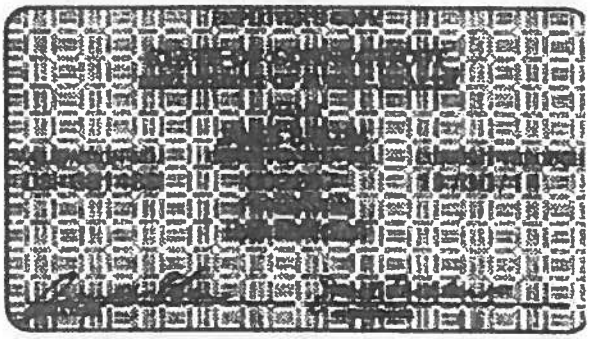

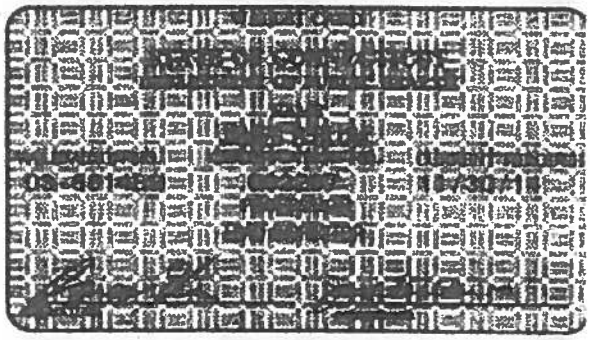

Fuss & O'Neill EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040 – (860) 646-2469

This is to certify that

James Blum

xxx-xx-1625

has successfully completed the

8 Hour Lead Inspector Risk Assessor Refresher Course

(Approved per Sec. 20-477, CT General Statutes)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (U.S.C. 1001 and 15 U.S.C. 2615), I certify that this training complies with all applicable requirements of Title IV of TSCA, 40 CFR part 745 and any other applicable Federal, State, or local requirements.

Brian Santos, Principal Instructor

Robert L. May, Jr., Training Manager

February 20 & 25, 2014

Date of Course

LIRA-R-02/14-3

Certificate Number

February 25, 2014

Examination Date

February 25, 2015

Expiration Date

0001700 FP **PRSRT T7 0 1204 00040
ULXENS AUGUSTE
146 HARTFORD RD
C/O FUSS & O'NEIL ENVIRO SCIENCE
MANCHESTER CT 06040-5992

Dear Licensed/Certified Professional,

[redacted]

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. The employer's copy is for persons who must demonstrate current licensure/certification in order to retain employment or privileges. The employer's card is to be presented to the employer and kept by them as a part of your personnel file. Only one copy of this card can be supplied to you.

[redacted]

[redacted]

[redacted]

Fuss & O'Neill EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040 – (860) 646-2469

This is to certify that

Ulkens Auguste

xxx-xx-6277

has successfully completed the

8 Hour Lead Inspector Risk Assessor Refresher Course

(Approved per Sec. 20-477, CT General Statutes)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (U.S.C. 1001 and 15 U.S.C. 2615), I certify that this training complies with all applicable requirements of Title IV of TSCA, 40 CFR part 745 and any other applicable Federal, State, or local requirements.

Brian Santos, Principal Instructor

Robert L. May, Jr., Training Manager

February 20 & 25, 2014

Date of Course

LIRA-R-02/14-1

Certificate Number

February 25, 2014

Examination Date

February 25, 2015

Expiration Date

FUSS & O'NEILL
Passion Science.™

Appendix B

Asbestos Sample Results and Chain of Custody

OrderID: 041411547

041411547

FUSS & O'NEILL
EnviroScience, LLC

www.fando.com

146 Hartford Road, Manchester, CT 06040

Phone (860)646-2469 Fax (860) 649 6885

SAMPLE LOG FOR ASBESTOS BULKS

Sheet 1 of 1

Project Name: Storm Sandy Residential Rehab–62 Morehouse Hwy, Fairfield, CT Project No. 20140277.B3E

Building: 62 Morehouse Hwy Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0425BH01A	Basement Furnace Room	Pipe Insulation	80% chrysotile
0425BH01B	Basement Furnace Room	Pipe Insulation	SP
0425BH01C	Basement Furnace Room	Pipe Insulation	SP
0425BH02A	Basement Furnace Room	Woven Hair-Like Pipe Insulation	None Detected
0425BH02B	Basement Furnace Room	Woven Hair-Like Pipe Insulation	
0425BH02C	Basement Furnace Room	Woven Hair-Like Pipe Insulation	
0425BH03A	Basement	Duct Wrap/Cover	40% chrysotile
0425BH03B	Basement	Duct Wrap/Cover	SP
0425BH03C	Basement	Duct Wrap/Cover	SP
0425BH04A	Basement	Paper Backing on Fiberglass Insulation	None Detected
0425BH04B	Basement	Paper Backing on Fiberglass Insulation	
0425BH05A	Main Floor Bump-Out Room	2'x4' Fiberboard Ceiling Tile	
0425BH05B	Main Floor Bump Out Room	2'x4' Fiberboard Ceiling Tile	
0425BH06A	Main Floor	Grey Base Coat Plaster	
0425BH06B	Main Floor	Grey Base Coat Plaster	

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 hour

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____ Please call the EnviroScience Laboratory if analyses will be late at (860) 646 2469.

Fax Results to the EnviroScience Laboratory at: 888-838-1160.

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 400 Point Count all samples of content <4%, positive stop on all point counts.

Samples collected by: FS Hoffman **Date:** 4-25-14 **Time:** _____

Samples [Rec'd][Sent by] [FH] [ ] **Date:** [4-28-14] [ ] **Time:** _____

Samples Received by: AK EMSL Fx **Date:** 4/29/14 **Time:** 0940

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ FedEx ☐ Other _____

125 AK

F:\P2014\0277\B3E\Lab Data\COC BH 2014 0428.doc

OrderID: 041411547

041411547

FUSS & O'NEILL
EnviroScience, LLC

www.fando.com

146 Hartford Road, Manchester, CT 06040

Phone (860)646-2469 Fax (860) 649-6883

SAMPLE LOG FOR ASBESTOS BULKS

Sheet 2 of 9

Project Name: Storm Sandy Residential Rehab–62 Morehouse Hwy, Fairfield, CT Project No. 20140277.B3E

Building: 62 Morehouse Hwy Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0425BH06C	Main Floor	Grey Base Coat Plaster	None Detected
0425BH06D	Main Floor	Grey Base Coat Plaster	
0425BH06E	2nd Floor	Grey Base Coat Plaster	
0425BH06F	2nd Floor	Grey Base Coat Plaster	
0425BH06G	2nd Floor	Grey Base Coat Plaster	
0425BH07A	Main Floor	White Top Coat Plaster	
0425BH07B	Main Floor	White Top Coat Plaster	
0425BH07C	Main Floor	White Top Coat Plaster	
0425BH07D	Main Floor	White Top Coat Plaster	
0425BH07E	2nd Floor	White Top Coat Plaster	
0425BH07F	2nd Floor	White Top Coat Plaster	
0425BH07G	2nd Floor	White Top Coat Plaster	
0425BH08A	Basement Furnace Room	Grey Light-Weight Concrete/Plaster over Sheetrock Wall	
0425BH08B	Basement Furnace Room	Grey Light-Weight Concrete/Plaster over Sheetrock Wall	
0425BH08C	Basement Furnace Room	Grey Light-Weight Concrete/Plaster over Sheetrock Wall	—

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 hour

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 888-838-1160.

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 400 Point Count all samples of content <4%, positive stop on all point counts.

Samples collected by: [illegible] **Date:** 4-25-14 **Time:** _____

Samples [Rec'd][Sent by] [illegible] **Date:** 4-25-14 **Time:** _____

Samples Received by: _____ **Date:** _____ **Time:** _____

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ FedEx ☐ Other _____

F:\P2014\0277\B3E\Lab Data\COC BH 20140428.doc

OrderID: 041411547

041411547

FUSS & O'NEILL
EnviroScience, LLC

www.fando.com

146 Hartford Road, Manchester, CT 06040

Phone (860)646-2469 Fax (860) 649-6883

SAMPLE LOG FOR ASBESTOS BULKS

Sheet 3 of 9

Project Name: Storm Sandy Residential Rehab–62 Morehouse Hwy, Fairfield, CT Project No. 20140277.B31

Building: 62 Morehouse Hwy Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0425BH09A	Main Floor Kitchen	White Stamped (Tile Pattern) Skim Coat Wall Plaster	None Detected
0425BH09B	Main Floor Kitchen	White Stamped (Tile Pattern) Skim Coat Wall Plaster	
0425BH09C	Main Floor Kitchen	White Stamped (Tile Pattern) Skim Coat Wall Plaster	
0425BH10A	Basement	Sheetrock	
0425BH10B	Basement	Sheetrock	
0425BH11A	Basement	Taping Compound	
0425BH11B	Basement	Taping Compound	
0425BH12	Basement	Sheetrock & Taping Compound Composite	
0425BH13A	Main Floor	Wallpaper	
0425BH13B	Main Floor	Wallpaper	
0425BH14A	Main Floor	Wallpaper Glue	
0425BH14B	Main Floor	Wallpaper Glue	
0425BH15A	Basement Furnace Room	Wrap/Cover on Sheetrock Ceiling	20% Chrysotile
0425BH15B	Basement Furnace Room	Wrap/Cover on Sheetrock Ceiling	SP
0425BH16A	Basement Furnace Room	Chimney Flue Cement	None Detected

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 hour

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____ Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 888-838-1160.

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 400 Point Count all samples of content <4%, positive stop on all point counts.

Samples collected by: B. Hoffman **Date:** 4-25-14 **Time:** _____

Samples [Rec'd][Sent by] [BH] **Date:** [4-28] **Time:** _____

Samples Received by: _____ **Date:** _____ **Time:** _____

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ FedEx ☐ Other _____

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 4 of 7

Project Name: Storm Sandy Residential Rehab--62 Morehouse Hwy, Fairfield, CT Project No. 20140277.B3E

Building: 62 Morehouse Hwy Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0425BH16B	Basement Furnace Room	Chimney Flue Cement	0.75% Chrysotile
0425BH16C	Basement Furnace Room	Chimney Flue Cement	None Detected
0425BH17A	2nd Floor Bath	Countertop/Glue	
0425BH17B	2nd Floor Bath	Countertop/Glue	
0425BH18A	Basement Studio	Black Sink Undercoating	None Detected
0425BH18B	Basement Studio	Black Sink Undercoating	
0425BH19A	Main Floor Kitchen	Pink Sink Undercoating	5% Chrysotile
0425BH19B	Main Floor Kitchen	Pink Sink Undercoating	SP
0425BH20A	2nd Floor Bath	Green Ceramic Wall Tile	None Detected
0425BH20B	2nd Floor Bath	Green Ceramic Wall Tile	
0425BH21A	2nd Floor Bath	Ceramic Wall Tile Glue	
0425BH21B	2nd Floor Bath	Ceramic Wall Tile Glue	
0425BH22A	2nd Floor Bath	Ceramic Wall Tile Grout	
0425BH22B	2nd Floor Bath	Ceramic Wall Tile Grout	
0425BH23A	2nd Floor Bath	Green Ceramic Floor Tile	

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 hour

Based on the turnaround time indicated above, analyses are due to EnviroScience on or before this date: _____. Please call the EnviroScience Laboratory if analyses will be late at (860) 646-2469.

Fax Results to the EnviroScience Laboratory at: 888-838-1160.

Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 400 Point Count all samples of content <4%, positive stop on all point counts.

Samples collected by: [illegible] **Date:** 4-25 **Time:** _____

Samples [Rec'd][Sent by] [illegible] **Date:** 4-25 **Time:** _____

Samples Received by: _____ **Date:** _____ **Time:** _____

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 5 of 9

Project Name: Storm Sandy Residential Rehab–62 Morehouse Hwy, Fairfield, CT Project No. 20140277.B3E

Building: 62 Morehouse Hwy Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0425BH23B	2nd Floor Bath	Green Ceramic Floor Tile	None Detected
0425BH24A	2nd Floor Bath	Ceramic Floor Tile Grout (Grey)	⊥
0425BH24B	2nd Floor Bath	Ceramic Floor Tile Grout (Grey)	⊥
0425BH25A	Main Floor Bath	Black Ceramic Tile	⊥
0425BH25B	Main Floor Bath	Black Ceramic Tile	⊥
0425BH26A	Main Floor Bath	Ceramic Tile Grout	2.25% Chrysotile
0425BH26B	Main Floor Bath	Ceramic Tile Grout	⊥ SP
0425BH27A	Main Floor Bath	Ceramic Tile Thinset	None Detected
0425BH27B	Main Floor Bath	Ceramic Tile Thinset	⊥
0425BH28A	Main Floor Kitchen	Brown Cove Base	⊥
0425BH28B	Main Floor Kitchen	Brown Cove Base	⊥
0425BH29A	Main Floor Kitchen	Cove Base Glue (Tan)	⊥
0425BH29B	Main Floor Kitchen	Cove Base Glue (Tan)	⊥
0425BH30A	Basement Studio	White/Blue/Pink Sheet Flooring	⊥
0425BH30B	Basement Studio	White/Blue/Pink Sheet Flooring	⊥

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 hour

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Samples collected by: BH **Date:** 4-25 **Time:** _____

Samples [Rec'd][Sent by] [BH] [ ] **Date:** [4-25] [ ] **Time:** _____

Samples Received by: _____ **Date:** _____ **Time:** _____

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 6 of 9

Project Name: Storm Sandy Residential Rehab–62 Morehouse Hwy, Fairfield, CT Project No. 20140277.B3E

Building: 62 Morehouse Hwy Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0425BH31A	Basement Studio	Sheet Flooring Glue (White)	None Detected
0425BH31B	Basement Studio	Sheet Flooring Glue (White)	
0425BH32A	Basement Studio	Black Vapor Barrier/Mastic under White/Blue/Pink Sheet Flooring	
0425BH32B	Basement Studio	Black Vapor Barrier/Mastic under White/Blue/Pink Sheet Flooring	
0425BH33A	Main Floor Bath	White Floor Tile	
0425BH33B	Main Floor Bath	White Floor Tile	
0425BH34A	Main Floor Bath	Black Floor Mastic	0.25% Chrysotile
0425BH34B	Main Floor Bath	Black Floor Mastic	0.50% Chrysotile
0425BH35A	Main Floor Kitchen	Yellow/White/Brown Sheet Flooring	15% Chrysotile
0425BH35B	Main Floor Kitchen	Yellow/White/Brown Sheet Flooring	⊥ SP
0425BH36A	Main Floor Kitchen	Sheet Flooring Glue (Yellow)	None Detected
0425BH36B	Main Floor Kitchen	Sheet Flooring Glue (Yellow)	
0425BH37A	Basement Stairwell	Multicolored Sheet Flooring under Stair Tread	
0425BH37B	Basement Stairwell	Multicolored Sheet Flooring under Stair Tread	
0425BH38A	Basement Stairwell	Black Stair Tread	

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 hour

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Special Instructions: Stop analysis on first positive sample in each homogeneous set of samples unless otherwise noted. Do not layer samples unless indicated. EPA 400 Point Count all samples of content <4%, positive stop on all point counts.

Samples collected by: BH **Date:** 4-25 **Time:** _____

Samples [Rec'd][Sent by] [GH] [ ] **Date:** [4-28] [ ] **Time:** _____

Samples Received by: _____ **Date:** _____ **Time:** _____

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Method of Shipment: ☒ FedEx ☐ Other _____

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 7 of 9

Project Name: Storm Sandy Residential Rehab–62 Morehouse Hwy, Fairfield, CT Project No. 20140277.B3B

Building: 62 Morehouse Hwy Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0425BH38B	Basement Stairwell	Black Stair Tread	None Detected
0425BH39A	Basement Stairwell	Stair Tread Glue	
0425BH39B	Basement Stairwell	Stair Tread Glue	
0425BH40A	Basement	Concrete Block Wall	
0425BH40B	Basement	Concrete Block Wall	
0425BH41A	Basement	Concrete Block Wall Grout	
0425BH41B	Basement	Concrete Block Wall Grout	
0425BH42A	Basement	Brick	
0425BH42B	Basement	Brick	
0425BH43A	Basement	Brick Grout	
0425BH43B	Basement	Brick Grout	
0425BH44A	Basement	Concrete over furnace oil line (floor)	
0425BH44B	Basement	Concrete over furnace oil line (floor)	
0425BH45A	Exterior of Building	Exterior Concrete Stucco	
0425BH45B	Exterior of Building	Exterior Concrete Stucco	

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 hour

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Fax Results to the EnviroScience Laboratory at: 888-838-1160.

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Samples collected by: B.H **Date:** 4-25 **Time:** _____

Samples [Rec'd][Sent by] [B.H] [ ] **Date:** [4-28] [ ] **Time:** _____

Samples Received by: _____ **Date:** _____ **Time:** _____

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ FedEx ☐ Other _____

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 8 of 1

Project Name: Storm Sandy Residential Rehab - 62 Morehouse Hwy, Fairfield, CT Project No. 20140277.B3E

Building: 62 Morehouse Hwy Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0425BH46A	Exterior of Building	Exterior Concrete Foundation	None Detected
0425BH46B	Exterior of Building	Exterior Concrete Foundation	↓
0425BH47A	Exterior of Building	Black Damp Proofing/Tar on Foundation	↓
0425BH47B	Exterior of Building	Black Damp Proofing/Tar on Foundation	↓
0425BH47C	Exterior of Building	Black Damp Proofing/Tar on Foundation	↓
0425BH48A	Exterior of Building	Exterior Concrete Stairs	↓
0425BH48B	Exterior of Building	Exterior Concrete Stairs	↓
0425BH49A	Exterior Window System	Exterior Window Glazing Compound	5% Chrysotile
0425BH49B	Exterior Window System	Exterior Window Glazing Compound	↓ SP
0425BH49C	Exterior Window System	Exterior Window Glazing Compound	↓ SP
0425BH50A	Exterior Window System	Exterior Window Caulking Compound	5% Chrysotile
0425BH50B	Exterior Window System	Exterior Window Caulking Compound	↓ SP
0425BH50C	Exterior Window System	Exterior Window Caulking Compound	↓ SP
0425BH51A	Exterior Basement System–Rear	Exterior Window Glazing Compound	5% Chrysotile
0425BH51B	Exterior Basement System - Rear	Exterior Window Glazing Compound	↓ SP

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 hour

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Samples collected by: BH **Date:** 4-25 **Time:** _____

Samples [Rec'd][Sent by] [BH] [ ] **Date:** [4-28] [ ] **Time:** _____

Samples Received by: _____ **Date:** _____ **Time:** _____

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SAMPLE LOG FOR ASBESTOS BULKS

Sheet 9 of 9

Project Name: Storm Sandy Residential Rehab–62 Morehouse Hwy, Fairfield, CT Project No. 20140277.B3E

Building: 62 Morehouse Hwy Project Manager: K. McCarthy

Sample ID	Sample Location	Material	Result (%)
0425BI151C	Exterior Basement System–Rear	Exterior Window Glazing Compound	5% chrysotile
0425BI152A	Exterior Roof	Exterior Roof Shingle	None Detected
0425BI152B	Exterior Roof	Exterior Roof Shingle	
0425BI153A	Exterior Roof	Exterior Roof Base Sheet	
0425BI153B	Exterior Roof	Exterior Roof Base Sheet	

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 hour

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Fax Results to the EnviroScience Laboratory at: 888-838-1160.

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Samples collected by: B.H **Date:** 4-25 **Time:** _____

Samples [Rec'd][Sent by] [B.H] [ ] **Date:** [4-28] [ ] **Time:** _____

Samples Received by: _____ **Date:** _____ **Time:** _____

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Customer PO: 20140277.B3E
Project ID:

Attn: Kevin McCarthy
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Manchester, CT 06040

Phone: (860) 646-2469
Fax: (888) 838-1160
Collected: 4/25/2014
Received: 4/29/2014
Analyzed: 4/30/2014

Proj: Storm Sandy Residential Rehab-62 Morehouse Hwy, Fairfield, CT / 20140277.B3E

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0425BH01A ***Lab Sample ID:*** 041411547-0001
Sample Description: Basement Furnace Room/Pipe Insulation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	70%	30% Chrysotile	

Client Sample ID: 0425BH01B ***Lab Sample ID:*** 041411547-0002
Sample Description: Basement Furnace Room/Pipe Insulation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 0425BH01C ***Lab Sample ID:*** 041411547-0003
Sample Description: Basement Furnace Room/Pipe Insulation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 0425BH02A ***Lab Sample ID:*** 041411547-0004
Sample Description: Basement Furnace Room/Woven Hair-Like Pipe Insulation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Brown	95%	5%	None Detected	

Client Sample ID: 0425BH02B ***Lab Sample ID:*** 041411547-0005
Sample Description: Basement Furnace Room/Woven Hair-Like Pipe Insulation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Brown	0%	100%	None Detected	

Client Sample ID: 0425BH02C ***Lab Sample ID:*** 041411547-0006
Sample Description: Basement Furnace Room/Woven Hair-Like Pipe Insulation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Brown	98%	2%	None Detected	

Client Sample ID: 0425BH03A ***Lab Sample ID:*** 041411547-0007
Sample Description: Basement/Duct Wrap/Cover

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	60%	40% Chrysotile	

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Customer ID: ENVI54
Customer PO: 20140277.B3E
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0425BH03B **Lab Sample ID:** 041411547-0008
Sample Description: Basement/Duct Wrap/Cover

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 0425BH03C **Lab Sample ID:** 041411547-0009
Sample Description: Basement/Duct Wrap/Cover

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 0425BH04A **Lab Sample ID:** 041411547-0010
Sample Description: Basement/Paper Backing on Fiberglass Insulation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Brown	90%	10%	None Detected	

Client Sample ID: 0425BH04B **Lab Sample ID:** 041411547-0011
Sample Description: Basement/Paper Backing on Fiberglass Insulation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Brown	98%	2%	None Detected	

Client Sample ID: 0425BH05A **Lab Sample ID:** 041411547-0012
Sample Description: Main Floor Bump-Out Room/2x4 Fiberboard Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Brown	95%	5%	None Detected	

Client Sample ID: 0425BH05B **Lab Sample ID:** 041411547-0013
Sample Description: Main Floor Bump-Out Room/2x4 Fiberboard Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Brown/White	95%	5%	None Detected	

Client Sample ID: 0425BH06A **Lab Sample ID:** 041411547-0014
Sample Description: Main Floor/Gray Base Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH06B **Lab Sample ID:** 041411547-0015
Sample Description: Main Floor/Gray Base Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	100%	None Detected	

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Customer ID:	ENVI54
Customer PO:	20140277.B3E
Project ID:	

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0425BH06C ***Lab Sample ID:*** 041411547-0016
Sample Description: Main Floor/Gray Base Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH06D ***Lab Sample ID:*** 041411547-0017
Sample Description: Main Floor/Gray Base Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH06E ***Lab Sample ID:*** 041411547-0018
Sample Description: 2nd Floor/Gray Base Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH06F ***Lab Sample ID:*** 041411547-0019
Sample Description: 2nd Floor/Gray Base Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH06G ***Lab Sample ID:*** 041411547-0020
Sample Description: 2nd Floor/Gray Base Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH07A ***Lab Sample ID:*** 041411547-0021
Sample Description: Main Floor/White Top Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	0%	100%	None Detected	

Client Sample ID: 0425BH07B ***Lab Sample ID:*** 041411547-0022
Sample Description: Main Floor/White Top Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	0%	100%	None Detected	

Client Sample ID: 0425BH07C ***Lab Sample ID:*** 041411547-0023
Sample Description: Main Floor/White Top Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	0%	100%	None Detected	

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Customer PO:	20140277.B3E
Project ID:	

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0425BH07D ***Lab Sample ID:*** 041411547-0024
Sample Description: Main Floor/White Top Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	0%	100%	None Detected	

Client Sample ID: 0425BH07E ***Lab Sample ID:*** 041411547-0025
Sample Description: 2nd Floor/White Top Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	0%	100%	None Detected	

Client Sample ID: 0425BH07F ***Lab Sample ID:*** 041411547-0026
Sample Description: 2nd Floor/White Top Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	0%	100%	None Detected	

Client Sample ID: 0425BH07G ***Lab Sample ID:*** 041411547-0027
Sample Description: 2nd Floor/White Top Coat Plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	0%	100%	None Detected	

Client Sample ID: 0425BH08A ***Lab Sample ID:*** 041411547-0028
Sample Description: Basement Furnace Room/Gray Light-Weight Concrete/Plaster over Sheetrock Wall

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH08B ***Lab Sample ID:*** 041411547-0029
Sample Description: Basement Furnace Room/Gray Light-Weight Concrete/Plaster over Sheetrock Wall

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH08C ***Lab Sample ID:*** 041411547-0030
Sample Description: Basement Furnace Room/Gray Light-Weight Concrete/Plaster over Sheetrock Wall

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray/White	0%	100%	None Detected	

Client Sample ID: 0425BH09A ***Lab Sample ID:*** 041411547-0031
Sample Description: Main Floor Kitchen/White Stamped (Tile Pattern) Skim Coat Wall Plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray/White	0%	100%	None Detected	

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EMSL Order ID:	041411547
Customer ID:	ENVI54
Customer PO:	20140277.B3E
Project ID:	

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0425BH09B **Lab Sample ID:** 041411547-0032
Sample Description: Main Floor Kitchen/White Stamped (Tile Pattern) Skim Coat Wall Plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray/White	0%	100%	None Detected	

Client Sample ID: 0425BH09C **Lab Sample ID:** 041411547-0033
Sample Description: Main Floor Kitchen/White Stamped (Tile Pattern) Skim Coat Wall Plaster

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray/White	0%	100%	None Detected	

Client Sample ID: 0425BH10A **Lab Sample ID:** 041411547-0034
Sample Description: Basement/Sheetrock

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	4%	96%	None Detected	

Client Sample ID: 0425BH10B **Lab Sample ID:** 041411547-0035
Sample Description: Basement/Sheetrock

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Brown/White	25%	75%	None Detected	

Client Sample ID: 0425BH11A **Lab Sample ID:** 041411547-0036
Sample Description: Basement/Taping Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	0%	100%	None Detected	

Client Sample ID: 0425BH11B **Lab Sample ID:** 041411547-0037
Sample Description: Basement/Taping Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	0%	100%	None Detected	

Client Sample ID: 0425BH12 **Lab Sample ID:** 041411547-0038
Sample Description: Basement/Sheetrock and Taping Compound Composite

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Brown/White	6%	94%	None Detected	This is a composite result of wallboard, jt. compound, and tape

Client Sample ID: 0425BH13A **Lab Sample ID:** 041411547-0039
Sample Description: Main Floor/Wallpaper

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Tan	15%	85%	None Detected	

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Client Sample ID: 0425BH13B **Lab Sample ID:** 041411547-0040
Sample Description: Main Floor/Wallpaper

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Brown/White	15%	85%	None Detected	

Client Sample ID: 0425BH14A **Lab Sample ID:** 041411547-0041
Sample Description: Main Floor/Wallpaper Glue

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH14B **Lab Sample ID:** 041411547-0042
Sample Description: Main Floor/Wallpaper Glue

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH15A **Lab Sample ID:** 041411547-0043
Sample Description: Basement Furnace Room/Wrap/Cover on Sheetrock Ceiling

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	80%	20% Chrysotile	

Client Sample ID: 0425BH15B **Lab Sample ID:** 041411547-0044
Sample Description: Basement Furnace Room/Wrap/Cover on Sheetrock Ceiling

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 0425BH16A **Lab Sample ID:** 041411547-0045
Sample Description: Basement Furnace Room/Chimney Flue Cement

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	0%	100%	None Detected	

Client Sample ID: 0425BH16B **Lab Sample ID:** 041411547-0046
Sample Description: Basement Furnace Room/Chimney Flue Cement

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
400 PLM Pt Ct	4/29/2014	White	0%	99.25%	0.75% Chrysotile	Black mastic present in sample.

Client Sample ID: 0425BH16C **Lab Sample ID:** 041411547-0047
Sample Description: Basement Furnace Room/Chimney Flue Cement

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	0%	100%	None Detected	only chimney flue cement analyzed

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Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0425BH17A-Countertop **Lab Sample ID:** 041411547-0048
Sample Description: 2nd Floor Bath/Countertop/Glue

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	0%	100%	None Detected	

Client Sample ID: 0425BH17A-Glue **Lab Sample ID:** 041411547-0048A
Sample Description: 2nd Floor Bath/Countertop/Glue

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Brown	0%	100%	None Detected	

Client Sample ID: 0425BH17B-Countertop **Lab Sample ID:** 041411547-0049
Sample Description: 2nd Floor Bath/Countertop/Glue

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White/Green	15%	85%	None Detected	

Client Sample ID: 0425BH17B-Glue **Lab Sample ID:** 041411547-0049A
Sample Description: 2nd Floor Bath/Countertop/Glue

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Brown	0%	100%	None Detected	

Client Sample ID: 0425BH18A **Lab Sample ID:** 041411547-0050
Sample Description: Basement Studio/Black Sink Undercoating

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Black	0%	100%	None Detected	

Client Sample ID: 0425BH18B **Lab Sample ID:** 041411547-0051
Sample Description: Basement Studio/Black Sink Undercoating

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Black	5%	95%	None Detected	

Client Sample ID: 0425BH19A **Lab Sample ID:** 041411547-0052
Sample Description: Main Floor Kitchen/Pink Sink Undercoating

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Pink	0%	95%	5% Chrysotile	

Client Sample ID: 0425BH19B **Lab Sample ID:** 041411547-0053
Sample Description: Main Floor Kitchen/Pink Sink Undercoating

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014				Stop Positive (Not Analyzed)	

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Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0425BH20A **Lab Sample ID:** 041411547-0054
Sample Description: 2nd Floor Bath/Green Ceramic Wall Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Green	0%	100%	None Detected	

Client Sample ID: 0425BH20B **Lab Sample ID:** 041411547-0055
Sample Description: 2nd Floor Bath/Green Ceramic Wall Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Green	0%	100%	None Detected	

Client Sample ID: 0425BH21A **Lab Sample ID:** 041411547-0056
Sample Description: 2nd Floor Bath/Ceramic Wall Tile Glue

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Yellow	0%	100%	None Detected	

Client Sample ID: 0425BH21B **Lab Sample ID:** 041411547-0057
Sample Description: 2nd Floor Bath/Ceramic Wall Tile Glue

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Yellow	0%	100%	None Detected	

Client Sample ID: 0425BH22A **Lab Sample ID:** 041411547-0058
Sample Description: 2nd Floor Bath/Ceramic Wall Tile Grout

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	0%	100%	None Detected	

Client Sample ID: 0425BH22B **Lab Sample ID:** 041411547-0059
Sample Description: 2nd Floor Bath/Ceramic Wall Tile Grout

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	0%	100%	None Detected	

Client Sample ID: 0425BH23A **Lab Sample ID:** 041411547-0060
Sample Description: 2nd Floor Bath/Green Ceramic Wall Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Green	0%	100%	None Detected	

Client Sample ID: 0425BH23B **Lab Sample ID:** 041411547-0061
Sample Description: 2nd Floor Bath/Green Ceramic Floor Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Green	0%	100%	None Detected	

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Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0425BH24A **Lab Sample ID:** 041411547-0062
Sample Description: 2nd Floor Bath/Ceramic Floor Tile Grout (Gray)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH24B **Lab Sample ID:** 041411547-0063
Sample Description: 2nd Floor Bath/Ceramic Floor Tile Grout (Gray)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH25A **Lab Sample ID:** 041411547-0064
Sample Description: Main Floor Bath/Black Ceramic Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Black	0%	100%	None Detected	

Client Sample ID: 0425BH25B **Lab Sample ID:** 041411547-0065
Sample Description: Main Floor Bath/Black Ceramic Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Black	0%	100%	None Detected	

Client Sample ID: 0425BH26A **Lab Sample ID:** 041411547-0066
Sample Description: Main Floor Bath/Ceramic Tile Grout

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
400 PLM Pt Ct	4/29/2014	White	0%	97.75%	2.25% Chrysotile	

Client Sample ID: 0425BH26B **Lab Sample ID:** 041411547-0067
Sample Description: Main Floor Bath/Ceramic Tile Grout

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 0425BH27A **Lab Sample ID:** 041411547-0068
Sample Description: Main Floor Bath/Ceramic Tile Thinset

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH27B **Lab Sample ID:** 041411547-0069
Sample Description: Main Floor Bath/Ceramic Tile Thinset

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	100%	None Detected	

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Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0425BH28A **Lab Sample ID:** 041411547-0070
Sample Description: Main Floor Kitchen/Brown Covebase

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Brown	0%	100%	None Detected	

Client Sample ID: 0425BH28B **Lab Sample ID:** 041411547-0071
Sample Description: Main Floor Kitchen/Brown Covebase

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Brown	0%	100%	None Detected	

Client Sample ID: 0425BH29A **Lab Sample ID:** 041411547-0072
Sample Description: Main Floor Kitchen/Covebase Glue (Tan)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Yellow	0%	100%	None Detected	

Client Sample ID: 0425BH29B **Lab Sample ID:** 041411547-0073
Sample Description: Main Floor Kitchen/Covebase Glue (Tan)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Tan	0%	100%	None Detected	

Client Sample ID: 0425BH30A **Lab Sample ID:** 041411547-0074
Sample Description: Basement Studio/White/Blue/Pink Sheet Flooring

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White/Blue/Pink	60%	40%	None Detected	

Client Sample ID: 0425BH30B **Lab Sample ID:** 041411547-0075
Sample Description: Basement Studio/White/Blue/Pink Sheet Flooring

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White/Blue/Pink	45%	55%	None Detected	

Client Sample ID: 0425BH31A **Lab Sample ID:** 041411547-0076
Sample Description: Basement Studio/Sheet Flooring Glue (White)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	0%	100%	None Detected	

Client Sample ID: 0425BH31B **Lab Sample ID:** 041411547-0077
Sample Description: Basement Studio/Sheet Flooring Glue (White)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	0%	100%	None Detected	

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Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0425BH32A **Lab Sample ID:** 041411547-0078
Sample Description: Basement Studio/Black Vapor Barrier/Mastic under White/Blue/Pink Sheet Flooring

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Black	60%	40%	None Detected	

Client Sample ID: 0425BH32B **Lab Sample ID:** 041411547-0079
Sample Description: Basement Studio/Black Vapor Barrier/Mastic under White/Blue/Pink Sheet Flooring

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Black	70%	30%	None Detected	

Client Sample ID: 0425BH33A **Lab Sample ID:** 041411547-0080
Sample Description: Main Floor Bath/White Floor Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	0%	100%	None Detected	

Client Sample ID: 0425BH33B **Lab Sample ID:** 041411547-0081
Sample Description: Main Floor Bath/White Floor Tile

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	White	0%	100%	None Detected	

Client Sample ID: 0425BH34A **Lab Sample ID:** 041411547-0082
Sample Description: Main Floor Bath/Black Floor Mastic

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
400 PLM Pt Ct	4/30/2014	Black	0%	99.75%	0.25% Chrysotile	Point Count performed on NOB material without gravimetric reduction at client request. Asbestos results may be under-reported.

Client Sample ID: 0425BH34B **Lab Sample ID:** 041411547-0083
Sample Description: Main Floor Bath/Black Floor Mastic

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
400 PLM Pt Ct	4/30/2014	Black	0%	99.50%	0.50% Chrysotile	Point Count performed on NOB material without gravimetric reduction at client request. Asbestos results may be under-reported.

Client Sample ID: 0425BH35A **Lab Sample ID:** 041411547-0084
Sample Description: Main Floor Kitchen/Yellow/White/Brown Sheet Flooring

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Brown/White/Yellov	30%	55%	15% Chrysotile	

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Client Sample ID: 0425BH35B **Lab Sample ID:** 041411547-0085
Sample Description: Main Floor Kitchen/Yellow/White/Brown Sheet Flooring

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 0425BH36A **Lab Sample ID:** 041411547-0086
Sample Description: Main Floor Kitchen/Sheet Flooring Glue (Yellow)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Yellow	0%	100%	None Detected	

Client Sample ID: 0425BH36B **Lab Sample ID:** 041411547-0087
Sample Description: Main Floor Kitchen/Sheet Flooring Glue (Yellow)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Yellow	0%	100%	None Detected	

Client Sample ID: 0425BH37A **Lab Sample ID:** 041411547-0088
Sample Description: Basement Stairwell/Multicolored Sheet Flooring under Stair Tread

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray/Various	40%	60%	None Detected	

Client Sample ID: 0425BH37B **Lab Sample ID:** 041411547-0089
Sample Description: Basement Stairwell/Multicolored Sheet Flooring under Stair Tread

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Various	40%	60%	None Detected	

Client Sample ID: 0425BH38A **Lab Sample ID:** 041411547-0090
Sample Description: Basement Stairwell/Black Stair Tread

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Black	0%	100%	None Detected	

Client Sample ID: 0425BH38B **Lab Sample ID:** 041411547-0091
Sample Description: Basement Stairwell/Black Stair Tread

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Black	0%	100%	None Detected	

Client Sample ID: 0425BH39A **Lab Sample ID:** 041411547-0092
Sample Description: Basement Stairwell/Stair Tread Glue

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Tan	0%	100%	None Detected	

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Client Sample ID: 0425BH39B **Lab Sample ID:** 041411547-0093
Sample Description: Basement Stairwell/Stair Tread Glue

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Tan	0%	100%	None Detected	

Client Sample ID: 0425BH40A **Lab Sample ID:** 041411547-0094
Sample Description: Basement/Concrete Block Wall

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray/White	0%	100%	None Detected	

Client Sample ID: 0425BH40B **Lab Sample ID:** 041411547-0095
Sample Description: Basement/Concrete Block Wall

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH41A **Lab Sample ID:** 041411547-0096
Sample Description: Basement/Concrete Block Wall Grout

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH41B **Lab Sample ID:** 041411547-0097
Sample Description: Basement/Concrete Block Wall Grout

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Cream	0%	100%	None Detected	

Client Sample ID: 0425BH42A **Lab Sample ID:** 041411547-0098
Sample Description: Basement/Brick

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Red	0%	100%	None Detected	

Client Sample ID: 0425BH42B **Lab Sample ID:** 041411547-0099
Sample Description: Basement/Brick

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	White/Red	0%	100%	None Detected	

Client Sample ID: 0425BH43A **Lab Sample ID:** 041411547-0100
Sample Description: Basement/Brick Grout

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray/White	0%	100%	None Detected	

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Project ID:	

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0425BH43B **Lab Sample ID:** 041411547-0101
Sample Description: Basement/Brick Grout

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH44A **Lab Sample ID:** 041411547-0102
Sample Description: Basement/Concrete over Furnace Oil Line (Floor)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH44B **Lab Sample ID:** 041411547-0103
Sample Description: Basement/Concrete over Furnace Oil Line (Floor)

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH45A **Lab Sample ID:** 041411547-0104
Sample Description: Exterior of Building/Exterior Concrete Stucco

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/29/2014	Gray/White	0%	100%	None Detected	

Client Sample ID: 0425BH45B **Lab Sample ID:** 041411547-0105
Sample Description: Exterior of Building/Exterior Concrete Stucco

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Gray/White	0%	100%	None Detected	

Client Sample ID: 0425BH46A **Lab Sample ID:** 041411547-0106
Sample Description: Exterior of Building/Exterior Concrete Foundation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH46B **Lab Sample ID:** 041411547-0107
Sample Description: Exterior of Building/Exterior Concrete Foundation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH47A **Lab Sample ID:** 041411547-0108
Sample Description: Exterior of Building/Black Damp Proofing/Tar on Foundation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Gray	0%	100%	None Detected	

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EMSL Order ID: 041411547
Customer ID: ENVI54
Customer PO: 20140277.B3E
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0425BH47B **Lab Sample ID:** 041411547-0109
Sample Description: Exterior of Building/Black Damp Proofing/Tar on Foundation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH47C **Lab Sample ID:** 041411547-0110
Sample Description: Exterior of Building/Black Damp Proofing/Tar on Foundation

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH48A **Lab Sample ID:** 041411547-0111
Sample Description: Exterior of Building/Exterior Concrete Stairs

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH48B **Lab Sample ID:** 041411547-0112
Sample Description: Exterior of Building/Exterior Concrete Stairs

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Gray	0%	100%	None Detected	

Client Sample ID: 0425BH49A **Lab Sample ID:** 041411547-0113
Sample Description: Exterior Window System/Exterior Window Glazing Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	White/Beige	0%	95%	5% Chrysotile	

Client Sample ID: 0425BH49B **Lab Sample ID:** 041411547-0114
Sample Description: Exterior Window System/Exterior Window Glazing Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 0425BH49C **Lab Sample ID:** 041411547-0115
Sample Description: Exterior Window System/Exterior Window Glazing Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 0425BH50A **Lab Sample ID:** 041411547-0116
Sample Description: Exterior Window System/Exterior Window Caulking Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	White/Beige	0%	95%	5% Chrysotile	

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EMSL Order ID: 041411547
Customer ID: ENVI54
Customer PO: 20140277.B3E
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0425BH50B **Lab Sample ID:** 041411547-0117
Sample Description: Exterior Window System/Exterior Window Caulking Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/30/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 0425BH50C **Lab Sample ID:** 041411547-0118
Sample Description: Exterior Window System/Exterior Window Caulking Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/30/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 0425BH51A **Lab Sample ID:** 041411547-0119
Sample Description: Exterior Basement System-Rear/Exterior Window Glazing Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Gray	0%	95%	5% Chrysotile	

Client Sample ID: 0425BH51B **Lab Sample ID:** 041411547-0120
Sample Description: Exterior Basement System-Rear/Exterior Window Glazing Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/30/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 0425BH51C **Lab Sample ID:** 041411547-0121
Sample Description: Exterior Basement System-Rear/Exterior Window Glazing Compound

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/30/2014				Stop Positive (Not Analyzed)	

Client Sample ID: 0425BH52A **Lab Sample ID:** 041411547-0122
Sample Description: Exterior Roof/Exterior Roof Shingle

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Gray/Black	20%	80%	None Detected	

Client Sample ID: 0425BH52B **Lab Sample ID:** 041411547-0123
Sample Description: Exterior Roof/Exterior Roof Shingle

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Gray/Black	15%	85%	None Detected	

Client Sample ID: 0425BH53A **Lab Sample ID:** 041411547-0124
Sample Description: Exterior Roof/Exterior Roof Base Sheet

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Black	60%	40%	None Detected	

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EMSL Order ID:	041411547
Customer ID:	ENVI54
Customer PO:	20140277.B3E
Project ID:	

Summary Test Report for Asbestos Analysis of Bulk Material via EPA 600/R-93/116 Method via Polarized Light Microscopy

Client Sample ID: 0425BH53B ***Lab Sample ID:*** 041411547-0125

Sample Description: Exterior Roof/Exterior Roof Base Sheet

TEST	Analyzed Date	Color	Non-Asbestos Fibrous	Non-Asbestos Non-Fibrous	Asbestos	Comment
PLM	4/30/2014	Black	75%	25%	None Detected	

Analyst(s)

Alexis Kum	PLM	(18)
Michael Garrity	PLM	(43)
	400 PLM Pt Ct	(2)
Nasdira Carter	PLM	(45)
Patrick Carr	PLM	(3)
	400 PLM Pt Ct	(2)

Stephen Siegel, CIH, Laboratory Manager
or other Approved Signatory

Any questions please contact Steve Siegel.

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036

Initial report from: 04/30/2014 11:48:36

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Appendix C

Lead Paint Testing Procedures and Equipment

STANDARD OPERATING PROCEDURES
HUD AND STATE OF CONNECTICUT LEAD-BASED PAINT INSPECTIONS

TESTING PROCEDURES AND EQUIPMENT

The U. S. Department of Housing and Urban Development (HUD) "Guidelines for the Evaluation and Control of Lead Hazards in Housing, September 1997" were consulted for this lead evaluation. HUD has been the agency at the federal level with responsibility for the establishment of national lead-based paint standards for testing and abatement. The HUD document will be referenced as the Guidelines in this report. The State of Connecticut Department of Public Health's current lead regulations, Lead Poisoning Prevention and Control (19a-111-1 through 19a-111-11) were also consulted.

This lead evaluation was comprehensive. A comprehensive inspection means that representative painted surfaces were systematically evaluated on a room-by-room basis in accordance with the Guidelines and the State of Connecticut regulations.

Lead-based paint surfaces and components were identified by utilizing on-site x-ray fluorescence (XRF) instruments. EnviroScience Consultants, Inc. owns and utilizes Radiation Monitoring Device LPA-1s (RMD instruments) exclusively for lead-based paint testing. Each instrument is operated in accordance with state and federal and manufacturer standards on the use of the instruments. State and federal protocols provide, with the exception of wall surfaces, one reading with the instrument on a representative component in each room, i.e., baseboard, chair rail, etc., as sufficient to establish the lead paint classification of all the representatives of that component type in a room. In the case of walls, because of the large spatial areas involved and the variability in lead content in paint over such large areas, the federal and state governments want a reading on each wall surface in a room. Therefore, representative testing is not permitted for walls.

The federal government has developed Performance Characteristic Sheets (PCS) for the type of instrument cited above. Each instrument must be calibrated in accordance with these PCSs on a 1.0-milligram lead standard. Each of EnviroScience's instruments has one of these standards assigned to it. Some of the standards were purchased directly from the government and the others from the manufacturers of the instruments.

For the RMD in the standard reading mode on metal, a Substrate Equivalent Lead (SEL) concentration has to be determined. To determine the SEL, the paint is removed from the surface of the component to obtain a bare substrate reading. After removing the paint, the surface is wiped with a 5% trisodium phosphate solution (a heavy duty cleaner). All paint residue is collected and properly disposed. Once the paint and surrounding area are cleaned, the XRF is utilized to determine the SEL for each surface. The SEL values are subtracted from the XRF values to determine the Corrected Lead Concentration (CLC). The CLC is the lead content of the paint on the component tested.

The RMD instrument has federal government-determined positive and negative ranges for the definition of lead-based paint. XRF results are classified using either the threshold or the inconclusive range. For the threshold, results are classified as positive if they are greater than or equal to the threshold and negative if they are less than the threshold. There is no inconclusive

classification when using the threshold values associated with an RMD instrument. The ranges for the RMD instrument and their various operating modes are as follows:

Radiation Monitoring Device LPA Analyzer 1

30-Second Standard Mode Reading Description	Substrate	Threshold (mg/cm^2)
Results corrected for substrate bias on metal substrate only.	Brick	1.0
	Concrete	1.0
	Drywall	1.0
	Metal	0.9
	Plaster	1.0
	Wood	1.0

Quick Mode Reading Description	Substrate	Threshold (mg/cm^2)	Inconclusive Range (mg/cm^2)
Readings not corrected for substrate bias on any substrate.	Brick	1.0	None
	Concrete	1.0	None
	Drywall	1.0	None
	Metal	1.0	None
	Plaster	1.0	None
	Wood	1.0	None

Prior to the start of any testing, a sketch of the building is drawn, and side designations are given to help identify exactly where readings were taken. Drawings depicting the room-numbering scheme are located on the cover page(s) for the building(s) inspected. Each side of the building was labeled A, B, C, or D. The wall "A" side of the unit is generally the side of primary entrance into a dwelling, and this room is always Room 1. Areas in the units include rooms, hallways, and closets. Areas are numbered in a clockwise fashion as building construction allows. This allows the inspector to indicate which substrate surface was tested. The condition of the surface is described by a check mark in the appropriate column, under the heading "condition of surface" on the testing form.

When more than one surface type was present on a side, the component tested was indicated with a number. If two windows were present on a building side, they were numbered left to right. Closet shelves and shelf supports were numbered top to bottom.

It is understood that the room layouts presented in the report are in conformance with the conditions that exist at the time the testing is performed. EnviroScience avoids labeling a room solely by its current functional use (i.e., living room, bedroom, etc.) since this use can change over time. Similarly, room layouts can change dramatically as dwellings are renovated and additions are built, incorporating existing rooms, or existing interior walls are moved or eliminated altogether.

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Lead Dust Wipe Sampling Protocol

Data Collection

A. A description of the sample location is recorded.

B. Surface type (floor, windowsill, window well) is noted.

C. Surface area measurements are recorded.

Wipe Sampling Method

A. The area to be wiped is identified and measured.

B. A disposable glove is put on and the "ghost wipe" package is opened.

C. Without touching any other surface, the wipe is opened and placed flat down on the surface. Using firm, consistent pressure, a wipe is taken in a single "S" motion.

D. Next the wipe is folded in half with the contaminated side facing inward and another wipe is taken again at 90 degrees to the first "S" wipe. Do not use a scrubbing motion, but be sure to collect all visible dust in the measured area.

E. The wipe is folded again with the contaminated side inward. Without touching any other surface, the wipe is placed into a plastic centrifuge tube. The tube is sealed and labeled. The sample number indicates the date and sampler's identity.

F. The samples are submitted to our laboratory on our standard sample log. Date and time of transfer is recorded to ensure proper chain of custody. The analytical procedure utilized is a modified EPA SW-846-3050. Blanks are submitted in accordance with EnviroScience's QA/QC program.

Appendix D

Lead Testing Field Data Sheets

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LEAD INSPECTION COVER SHEET

Inspector's Information

Inspector's Name: James Blum

License Number: 2207

XRF Model: LPA-1

Serial Number: B241

Date of Inspection: April 28, 2014

Project Number: 20081399.A4E

Property Information

Building Address: 62 Morehouse Highway (Street)

Fairfield (City) Connecticut (State) Age of Property: _____

Describe Structure: Two-story concrete structure with basement. Interior walls and ceilings are plaster and sheetrock panels. Window systems are wood. Door systems are wood/metal.

Are there lead hazards present? ☐ Yes ☒ No

Were lead dust wipes taken? ☐ Yes ☒ No

Were soil samples collected? ☐ Yes ☒ No

Were drinking water samples collected? ☐ Yes ☒ No

Single Family Dwelling ☒

Is there an EBL child present? ☐ Yes ☒ No ☐ Unknown

Is there a child under six years of age in the dwelling? ☐ Yes ☒ No ☐ Unknown

Multiple Family Dwelling ☐

Number of units in building: _____

Number of units tested: _____

Is there an EBL child present in the building? ☐ Yes ☐ No ☐ Unknown

If EBL child, which unit(s)? _____

Is there a child under six years of age in the building? ☐ Yes ☐ No ☐ Unknown

If child under six, which unit(s)? _____

XRF Calibration Check

Calibration Paint Film Used: ☐ NIST 1.02 mg/cm² ☒ Manufacturer's Standard 1.0 mg/cm²

Calibration Check Limits Used: ☒ RMD (0.7 to 1.3 mg/cm² inclusive)
☐ Scitec MAP4 (0.6 to 1.2 mg/cm² inclusive)

	Hour	First Reading	Second Reading	Third Reading	Average
First Check	1000	1.1	1.0	1.1	1.06
Second Check	1200	1.0	1.0	1.0	1.0
Third Check					
Fourth Check					

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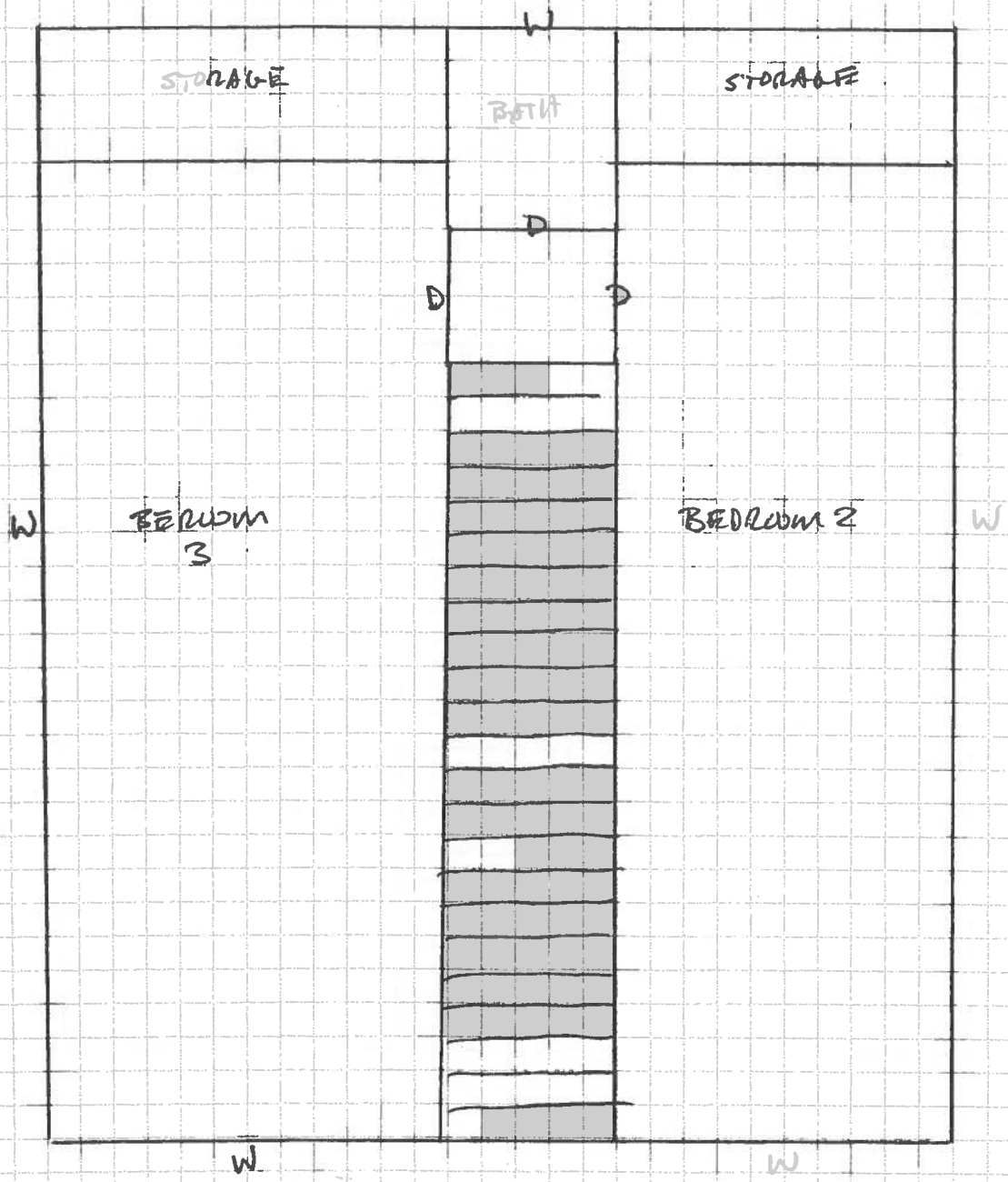
Prepared By	Date	Checked By	Date	Project No

Sheet No
of

2ND FLOOR



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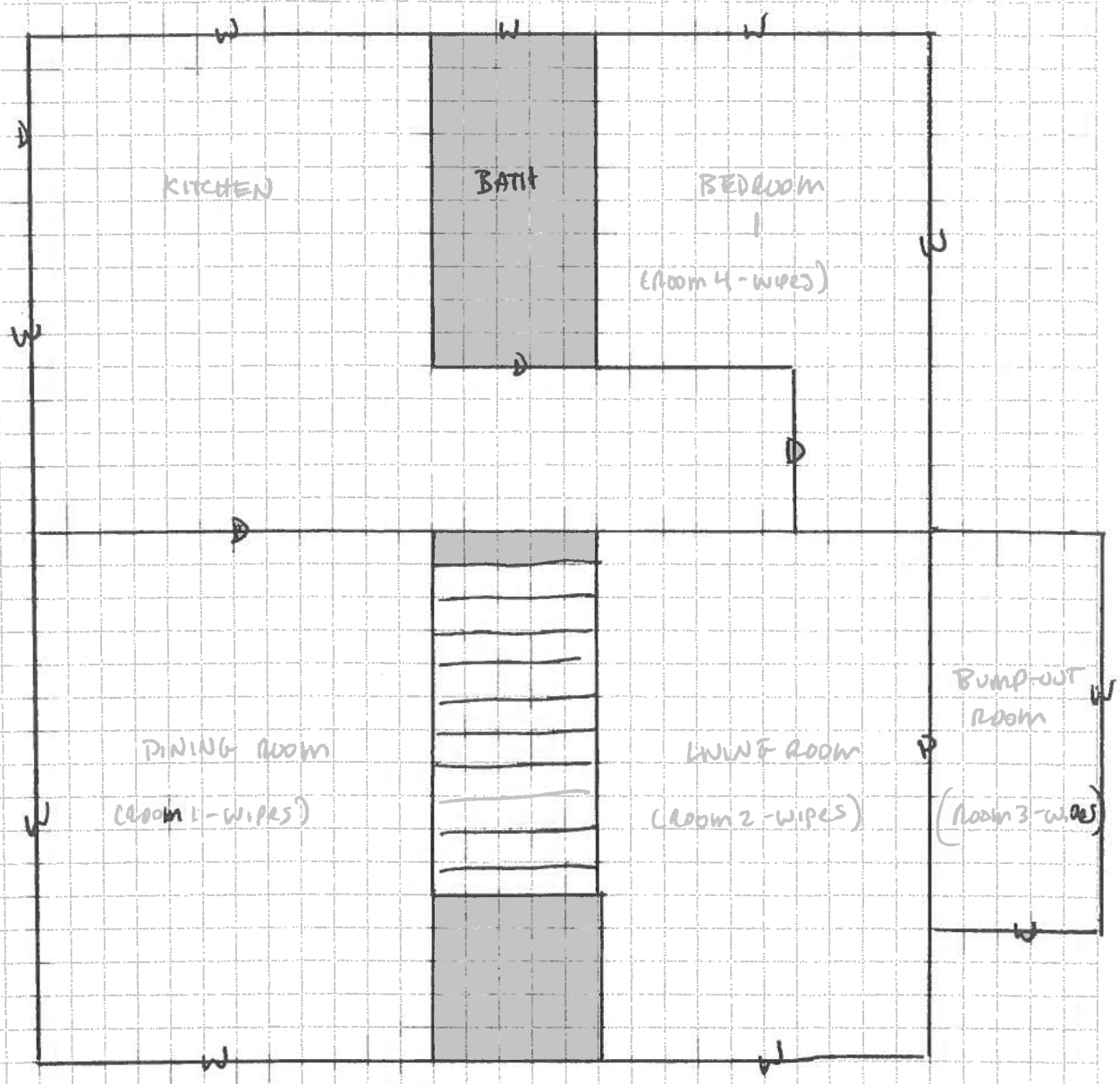
Prepared By	Date	Checked By	Date	Project No

Sheet No of

Main Level



Moorehouse Hwy

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Prepared By	Date	Checked By	Date	Project No

Basement

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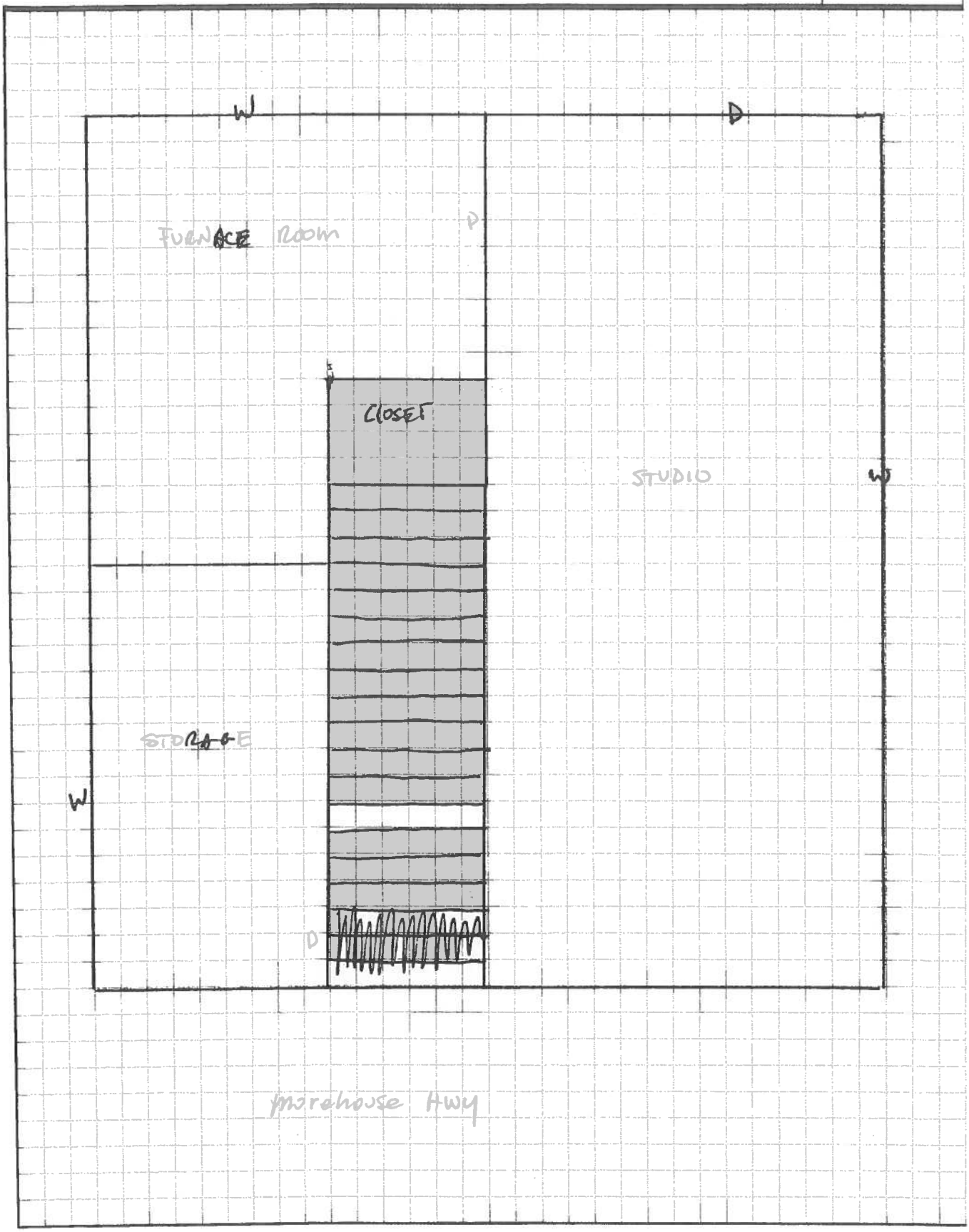
of



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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 62 Morehouse Hwy, Fairfield, CT **Apt. #:**

Floor: Basement **Room:** Storage **Page** 1 **of** 18

Project Name: 62 Morehouse Hwy **Project Number:** 20140277.B3E

Project Manager: K. McCarthy **(If Positive - Check All That Apply)**

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	0.4		CB					
B	Wall	1.4	✓	CB	Y				off white
C	Wall	-0.6		CB					off white
D	Wall	0.2		CB					
	Chair rail								
	Ceiling								
	Crown Molding								
	Door	>2.9	✓	W	✓				
	Casing	0.1		W					
	Jamb	-0.2		W					
	Door								
	Casing								
	Jamb								
	Window Trim								
	Sill								
	Sash	0.3		W					
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves	-0.2		W					white
	Shelf Supports	-0.2		W					white
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding	-0.0		W					white

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 62 Morehouse Hwy, Fairfield, CT **Apt. #:**

Floor: Basement **Room:** Studio **Page** 2 **of** 18

Project Name: 62 Morehouse Hwy **Project Number:** 20140277.B3E

Project Manager: K. McCarthy (If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards	<0.2		W					
A	Wall	0.2		S					
B	Wall	-0.3		S					
C	Wall	-0.3		S					
D	Wall	-0.3		S					
	Chair rail								
	Ceiling	-0.4		S					
	Crown Molding								
	Door	0.1		W					
	Casing	-0.1		W					
	Jamb	0.1		W					
	Door								
	Casing								
	Jamb								
	Window Trim	0.0		W					
	Sill	-0.2		W					
	Sash	-0.1		W					
	Well	-0.0		W					
	Cabinet Base								
	Door Exterior								
	Door Interior	-0.3		W					
	Walls								
	Shelves								
	Shelf Supports								CLOSET
	Closet Shelf	-0.2		W					A wall 0.1 SR
	Shelf Supports	-0.4		W					B wall -0.0 |
	Radiator								D wall 0.2 +
	Wall Molding								

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 62 Morehouse Hwy, Fairfield, CT **Apt. #:**

Floor: Basement **Room:** Furnace/laundry **Page** 3 **of** 18

Project Name: 62 Morehouse Hwy **Project Number:** 20140277.B3E

Project Manager: K. McCarthy (If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	-0.3		P					
B	Wall	N/A							
C	Wall	-0.3		C					
D	Wall	-0.1		B					
	Chair rail								
	Ceiling								
	Crown Molding								
	Door								
	Casing								
	Jamb								
	Door								
	Casing								
	Jamb								
	Window Trim								
	Sill	-0.3		C					
	Sash	-0.2		W					
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 62 Morehouse Hwy, Fairfield, CT **Apt. #:**

Floor: Basement **Room:** Stair well **Page** 4 **of** 18

Project Name: 62 Morehouse Hwy **Project Number:** 20140277.B3E

Project Manager: K. McCarthy **(If Positive - Check All That Apply)**

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall								
B	Wall								
C	Wall								
D	Wall								
	Chair rail								
	Ceiling								
	Crown Molding								
	Door								
	Casing								
	Jamb								
	Door								
	Casing								
	Jamb								
	Window Trim								
	Sill								
	Sash								
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								
	Stair riser	-0.1		W					
	tread	-0.3		W					
	handrail	-0.2		W					

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 62 Morehouse Hwy, Fairfield, CT **Apt. #:**
Floor: 1st **Room:** Bathroom **Page** 5 **of** 18
Project Name: 62 Morehouse Hwy **Project Number:** 20140277.B3E
Project Manager: K. McCarthy (If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	-0.5		P					
B	Wall	-0.0		P					
C	Wall	-0.1		P					
D	Wall	-0.4		P					
	Chair rail								
	Ceiling	-0.5		P					
	Crown Molding								
	Door	-0.3		W					
	Casing	-0.2		W					
	Jamb	0.1		W					
	Door								
	Casing								
	Jamb								
	Window Trim	0.1		W					
	Sill	-0.2		W					
	Sash	1.7	✓	W	N				
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf	0.1		W					CLOSET
	Shelf Supports	0.2		W					A WALL 0.3
	Radiator								B WALL -0.0
	Wall Molding								D WALL -0.2

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement
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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 62 Morehouse Hwy, Fairfield, CT **Apt. #:**

Floor: 1st Flr **Room:** Bathroom **Page** 6 **of** 18

Project Name: 62 Morehouse Hwy **Project Number:** 20140277.B3E

Project Manager: K. McCarthy **(If Positive - Check All That Apply)**

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	0.0		Tile					Glazed tile
B	Wall	-0.1		Tile					
C	Wall	-0.2		Tile					
D	Wall	-0.3		tile					
	Chair rail								
	Ceiling	-0.2		P					
	Crown Molding								
	Door	-0.2		W					
	Casing	-0.2		W					
	Jamb	-0.1		W					
	Door								
	Casing								
	Jamb								
	Window Trim	3.2	✓	W	N				
	Sill	2.5	✓	W	N				
	Sash	4.2	✓	W	N				
	Well	>9.9	✓	W	N				
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf	0.3		W					
	Shelf Supports	-0.0		W					
	Radiator								
	Wall Molding								

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 62 Morehouse Hwy, Fairfield, CT **Apt. #:**

Floor: 1st Flr **Room:** Kitchen **Page** 7 **of** 18

Project Name: 62 Morehouse Hwy **Project Number:** 20140277.B3E

Project Manager: K. McCarthy (If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	-0.1		P					
B	Wall	-0.3		P					
C	Wall	N/C							
D	Wall	N/C							
	Chair rail								
	Ceiling	-0.2		P					
	Crown Molding								
	Door	-0.2		M					
	Casing	-0.1		W					
	Jamb	-0.0		W					
	Door								
	Casing								
	Jamb								
	Window Trim	0.5		W					
	Sill	-0.2		W					
	Sash	N/C		M					
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 62 Morehouse Hwy, Fairfield, CT **Apt. #:**

Floor: 1st Flor **Room:** Dining Room **Page** 9 **of** 13

Project Name: 62 Morehouse Hwy **Project Number:** 20140277.B3E

Project Manager: K. McCarthy (If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards	0.0		W					
A	Wall	-0.4		P					
B	Wall	-0.3		P					
C	Wall	-0.4		P					
D	Wall	-0.4		P					
	Chair rail								
	Ceiling	-0.4		P					
	Crown Molding								
	Door	-0.4		W					
	Casing	-0.0		W					
	Jamb	-0.2		W					
	Door								
	Casing								
	Jamb								
	Window Trim	-0.0		W					
	Sill	-0.2		W					
	Sash	1.5	✓	W	N				
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 62 Morehouse Hwy, Fairfield, CT **Apt. #:**

Floor: 1st Flr **Room:** Living Room **Page** 10 **of** 18

Project Name: 62 Morehouse Hwy **Project Number:** 20140277.B3E

Project Manager: K. McCarthy (If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards	-0.0		W					
A	Wall	-0.0		P					
B	Wall	-0.3		P					
C	Wall	-0.3		P					
D	Wall	-0.3		P					
	Chair rail								
	Ceiling	-0.1		P					
	Crown Molding								
	Door	2.2	✓	W	N				
	Casing	1.0	✓	W	N				
	Jamb	N/A							
	Door	-0.0		W					CLOSET
	Casing	-0.1		W					
	Jamb	-0.3		W					
	Window Trim	-0.3		W					
	Sill	0.1							
	Sash	1.6	✓	W	N				
	Well	N/A							
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf	-0.1		W					CLOSET
	Shelf Supports	-0.0		W					A WALL 0.2 PL
	Radiator								B 0.1
	Wall Molding								C -0.1
									D -0.2

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 62 Morehouse Hwy, Fairfield, CT **Apt. #:**

Floor: 1st Flr **Room:** Bunp out **Page** 11 **of** 18

Project Name: 62 Morehouse Hwy **Project Number:** 20140277.B3E

Project Manager: K. McCarthy **(If Positive - Check All That Apply)**

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	N/C							
B	Wall	-0.3		C					
C	Wall	N/C							
D	Wall	N/C							
	Chair rail								
	Ceiling	3.1	✓	W	N				above 2x4 CT
	Crown Molding								
	Door	2.3	✓	W	N				
	Casing	1.9	✓	W	N				
	Jamb	0.6		W					
	Door								
	Casing								
	Jamb								
	Window Trim								
	Sill								
	Sash								
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								
	Stair String	0.1		W					
	Riser	N/C		W					
	Tread	N/C		W					

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 62 Morehouse Hwy, Fairfield CT **Apt. #:**

Floor: 2nd Flr **Room:** Bedroom 2 **Page** 12 **of** 18

Project Name: 62 Morehouse Hwy, Fairfield, CT **Project Number:** 2014 0277.B3E

Project Manager: K. McCarthy **(If Positive - Check All That Apply)**

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards	-0.1		W					
A	Wall	-0.1		P					
B	Wall	-0.2		P					
C	Wall	-0.2		P					
D	Wall	-0.2		P					
	Chair rail								
	Ceiling	-0.3		P					
	Crown Molding								
	Door	-0.2		W					
	Casing	-0.0		W					
	Jamb	-0.1		W					
	Door								
	Casing								
	Jamb								
	Window Trim	0.0		W					
	Sill	0.2		W					
	Sash	0.5		W					
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf	0.3		W					Closet (Storage)
	Shelf Supports	0.4		W					A wall 0.2 52
	Radiator								B -0.0
	Wall Molding								C -0.2
									D 0.1

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 62 Morehouse Hwy, Fairfield CT **Apt. #:**

Floor: 2nd Flr **Room:** Bedroom 3 **Page** 13 **of** 18

Project Name: 62 Morehouse Hwy **Project Number:** 20140277.B3E

Project Manager: K McCarthy (If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards	-0.0		W					
A	Wall	-0.3		P					
B	Wall	-0.4		P					
C	Wall	-0.7		P					
D	Wall	-0.3		P					
	Chair rail								
	Ceiling	-0.3		P					
	Crown Molding								
	Door	-0.2		W					
	Casing	-0.2		W					
	Jamb	0.1		W					
	Door								
	Casing								
	Jamb								
	Window Trim	0.0		W					
	Sill	-0.2		W					
	Sash	0.0		W					
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf	-0.1		W					CLOSET
	Shelf Supports	0.0		W					A wall 0.0 SR
	Radiator								B -0.0
	Wall Molding								C -0.3
									D -0.2

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 62 Morehouse Hwy, Fair Field CT **Apt. #:**

Floor: 2nd Floor **Room:** Bathroom **Page** 14 **of** 18

Project Name: 62 Morehouse Hwy **Project Number:** 20140277.83E

Project Manager: K. McCarthy **(If Positive - Check All That Apply)**

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards	-0.1		W					
A	Wall	-0.2		P					
B	Wall	-0.1		P					
C	Wall	-0.1		P					
D	Wall	-0.1		P					
	Chair rail								
	Ceiling	-0.3		P					
	Crown Molding								
	Door	-0.3		W					
	Casing	-0.1		W					
	Jamb	-0.2		W					
	Door								
	Casing								
	Jamb								
	Window Trim	-0.1		W					
	Sill	-0.0		W					
	Sash	-0.2		W					
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 62 Morehouse Hwy, Fairfield CT **Apt. #:**

Floor: 2nd Floor **Room:** Stair landing **Page** 15 **of** 18

Project Name: 62 Morehouse Hwy **Project Number:** 20140277 B31E

Project Manager: K. McCarthy **(If Positive - Check All That Apply)**

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards	0.1		W					
A	Wall	N/A							
B	Wall	-0.1		P					
C	Wall	-0.4		P					
D	Wall	-0.3		P					
	Chair rail								
	Ceiling	-0.3		P					
	Crown Molding								
	Door								
	Casing								
	Jamb								
	Door								
	Casing								
	Jamb								
	Window Trim								
	Sill								
	Sash								
	Well								
	Cabinet Base								
	Door Exterior								
	Door Interior								
	Walls								
	Shelves								
	Shelf Supports								
	Closet Shelf								
	Shelf Supports								
	Radiator								
	Wall Molding								

* Substrate Type: Metal = M, Wood = W, Plaster = P, Sheetrock = S, Concrete = C, Brick = B
N/A = Not Accessible; N/C = Not Coated; COV = Covered; VR = Vinyl Replacement

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE A

Address: 62 Morehouse Hwy, Fairfield, CT **Page** 16 **of** 19

Project Name: 62 Morehouse Hwy **Project Number:**

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation	-0.1		C					
	Skirt Board								
	Corner Boards	~~-0.1~~		C					
	Siding	-0.1		C					
	Upper Trim								
	Door								
	Casing								
	Jamb								
	Threshold	-0.3		C					
	Kick Board								
	Storm Door	N/A							
	Window Sill	-0.3		C					
	Trim	-0.1		C					
	Sash								
	Blind Stops								
	Storm Window								
	Basement Sash	3.7	✓	W	Y				
	Frame	1.7	✓	W	Y				
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns	-0.2		W					
	Column Base	0.0		W					
	Brackets								
	Hand Rails	-0.1		M					
	Treads								
	Risers								
	Stringers								

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE B

Address: 62 Morehouse Hwy, Fairfield, CT **Page** 17 **of** 18
Project Name: 62 Morehouse Hwy **Project Number:**
Project Manager: K. McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation	0.1		C					
	Skirt Board								
	Corner Boards								
	Siding	-0.3		C					
	Upper Trim								
	Door	-0.2		M					
	Casing								
	Jamb								
	Threshold								
	Kick Board								
	Storm Door	-0.2		M					
	Window Sill	-0.1		C					
	Trim	>9.9	✓	W	Y				
	Sash								
	Blind Stops								
	Storm Window								
	Basement Sash	3.7	✓	W	Y				
	Frame	1.7	✓	W	Y				
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling	3.4	✓	M	Y				porch
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base	-0.1		W					
	Brackets								
	Hand Rails	-0.4		M					
	Treads								
	Risers								
	Stringers								

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE C

Address: 62 Morehouse Hwy, Fairfield, CT **Page** 18 **of** 19

Project Name: 62 Morehouse Hwy **Project Number:**

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation	-0.3		C					
	Skirt Board								
	Corner Boards								
	Siding								
	Upper Trim								
	Door	-0.2							
	Casing	-0.1							
	Jamb								
	Threshold								
	Kick Board								
	Storm Door	-0.1							
	Window Sill	-0.1		C					Basement
	Trim	0.2		W					
	Sash	4.8	✓	W	Y				
	Blind Stops								
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts	-0.1		M					
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE D

Address: 62 Morehouse Hwy, Fairfield, CT **Page** _____ **of** _____

Project Name: 62 Morehouse Hwy **Project Number:** _____

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation	-0.2		C					
	Skirt Board								
	Corner Boards								
	Siding	-0.2		W					
	Upper Trim								
	Door								
	Casing								
	Jamb								
	Threshold								
	Kick Board								
	Storm Door								
	Window Sill	-0.2		C					Basement
	Trim	-0.1		C					
	Sash	-0.3		W					
	Blind Stops								
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE A

Address: 62 Morehouse Hwy, Fairfield, CT **Page** _____ **of** _____

Project Name: 62 Morehouse Hwy, Fairfield, CT Garage **Project Number:** 20140277.B3E

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation	0.2		C					
	Skirt Board								
	Corner Boards								
	Siding	-0.1		C					
	Upper Trim	0.2		W					
	Door	-0.1		V					
	Casing	-0.1		V					
	Jamb								
	Threshold								
	Kick Board								
	Storm Door								
	Window Sill								
	Trim								
	Sash								
	Blind Stops								
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE B

Address: 62 Morehouse Hwy, Fairfield, CT **Page** ____ **of** ____

Project Name: 62 Morehouse Hwy, Fairfield, CT GARAGE **Project Number:** 20140277.B3E

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation	0.1		C					
	Skirt Board								
	Corner Boards								
	Siding	-0.1		C					
	Upper Trim	1.1	✓	W	Y				
	Door								
	Casing								
	Jamb								
	Threshold								
	Kick Board								
	Storm Door								
	Window Sill								
	Trim								
	Sash								
	Blind Stops								
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE C

Address: 62 Morehouse Hwy, Fairfield, CT **Page** ____ **of** ____

Project Name: 62 Morehouse Hwy, Fairfield, CT Garage **Project Number:** 20140277.B3E

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation	-0.3		CR					
	Skirt Board								
	Corner Boards								
	Siding	-0.3		CR					
	Upper Trim								
	Door								
	Casing								
	Jamb								
	Threshold								
	Kick Board								
	Storm Door								
	Window Sill								
	Trim								
	Sash								
	Blind Stops								
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								

FUSS & O'NEILL
EnviroScience, LLC

www.fando.com

146 Hartford Road, Manchester, CT 06040

(860) 646-2469 Fax (860) 649-6883

XRF FIELD DATA SHEET – EXTERIOR OF SIDE D

Address: 62 Morehouse Hwy, Fairfield, CT **Page** _____ **of** _____

Project Name: 62 Morehouse Hwy, Fairfield, CT Garage **Project Number:** 20140277.B3E

Project Manager: K. McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board								
	Corner Boards								
	Siding	-0.3		C					
	Upper Trim								
	Door	0.8		W					
	Casing	<0.1		W					
	Jamb								
	Threshold	-0.1		W					
	Kick Board								
	Storm Door								
	Window Sill	<0.1		W					
	Trim	0.7		W					
	Sash	0.1		W					
	Blind Stops	6.6	✓	W	yes				
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor								
	Ceiling Joist								
	Lower Trim								
	Lower Railing								
	Balusters								
	Railing Cap								
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								

Appendix E

Lead in Dust Sample Results and Chain of Custody Form

FUSS & O'NEILL
EnviroSciences, LLC

Hartford Road, Manchester, CT 06040

www.fando.com

(860) 646-2469 Fax (860) 649-6883

201407063

SAMPLE LOG FOR LEAD WIPES

Sheet No. 1 of 1

Project Name: Lockup ASSIC.
Building: 62 Morehouse Hwy, Fairfield, CT

Project Number: 2014-0277-B3E
Project Manager: KM

Sample ID Number	Sample Location/Building	Surface Component	Surface Sq. Ft	Result (ug/ft)	Laboratory Number
2014-0277-01	Room #1	Floor	144		07063-1
	Room #1 A, Window	W. Sill	36		2
	Room #2	Floor	144		3
-04	Room #2 - A2 Window	W. Sill	36		4
-05	Room #2 - A2 Window - Dup	W. Sill	36		5
-06	Room #3 - A1 Window	W. Sill	36		6
-07	Room #3	Floor	144		7
-08	Room #4	Floor	144		8
-09	Room #4 C - Window	W. Sill	36		9
	Blank	N/A	—		10
-11	Blank	N/A	—		11

Analysis Method: EPA-SW-846-3050(MOD.)
Wipe Media ☒ ASTM ☐ Non ASTM

Turnaround Time 6 hrs

Based on the turnaround time indicated above, analyses are due to Fuss & O'Neill EnviroScience on or before this date: 5/13/14
Please call the Fuss & O'Neill EnviroScience laboratory at 860-646-2469 if analyses will be late.

Fax Results To: Fuss & O'Neill EnviroScience Laboratory at 888-838-1160

Special Instructions:

Samples Collected By: [illegible] Date: 5/12/14 Time: 1015
Samples Rec'd/Sent By: / Date: / Time: /
Samples Received By: [illegible] Date: 5/13/14 Time: 1025 [illegible]

Shipped To: ☒ EMSL (State) NJ ☐ Other

Method of Shipment: ☒ Fed Ex. ☐ UPS Overnight ☐ UPS Ground ☐ Other

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

EMSL Order:	201407063
CustomerID:	ENVI54
CustomerPO:	
ProjectID:	

Attn: **Fuss & O'Neill EnviroScience, LLC**
146 Hartford Road
Manchester, CT 06040

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	05/13/14 10:25 AM
Collected:	5/12/2014

Project: **20140277.B3E / Lorthop Assoc. / 62 Morehouse Hwy, Fairfield, CT**

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

Client Sample Description	*Lab ID*	*Collected*	*Analyzed*	*Area Sampled*	*Lead Concentration*
051214UA-01	*0001*	5/12/2014	5/13/2014	144 in^2	<10 $\mu g/ft^2$
Site: Room #1 - Floor					
051214UA-02	*0002*	5/12/2014	5/13/2014	36 in^2	8800 $\mu g/ft^2$
Site: Room #1 A1 Window - W. Sill					
051214UA-03	*0003*	5/12/2014	5/13/2014	144 in^2	<10 $\mu g/ft^2$
Site: Room #2 - Floor					
051214UA-04	*0004*	5/12/2014	5/13/2014	36 in^2	5200 $\mu g/ft^2$
Site: Room #2 A1 Window - W. Sill					
051214UA-05	*0005*	5/12/2014	5/13/2014	36 in^2	2800 $\mu g/ft^2$
Site: Room #2 A1 Window -Dup - W.Sill					
051214UA-06	*0006*	5/12/2014	5/13/2014	36 in^2	13000 $\mu g/ft^2$
Site: Room #3 A1 Window - W.Sill					
051214UA-07	*0007*	5/12/2014	5/13/2014	144 in^2	<10 $\mu g/ft^2$
Site: Room #3 - Floor					
051214UA-08	*0008*	5/12/2014	5/13/2014	144 in^2	<10 $\mu g/ft^2$
Site: Room #4 - Floor					
051214UA-09	*0009*	5/12/2014	5/13/2014	36 in^2	2100 $\mu g/ft^2$
Site: Room #4 C-Window - W.Sill					
051214UA-10	*0010*	5/12/2014	5/13/2014	n/a	<10 µg/wipe
Site: Blank					
051214UA-11	*0011*	5/12/2014	5/13/2014	n/a	<10 µg/wipe
Site: Blank					

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

*Analysis following Lead in Dust by EMSL SOP/ Determination of Environmental Lead by FLAA. Reporting limit is 10 ug/wipe. ug/wipe = ug/ft2 x area sampled in ft2. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities (such as volume sampled) or analytical method limitations. Samples received in good condition unless otherwise noted. The lab is not responsible for data reported in µg/ft² which is dependant on the area provided by non-lab personnel. The test results contained within this report meet the requirements of NELAC unless otherwise noted. "<" (less than) results signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

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

Initial report from 05/13/2014 13:29:09

FUSS & O'NEILL
EnviroScience

Appendix F

Mold Bulk Sample Results and Chain of Custody Form

OrderID: 371405822

Chain of Custody

Environmental Microbiology Lab

Services

EMSL Analytical, Inc.
200 Route 130 North
Cinnaminson, NJ, 08077

Phone: (856) 858-4800
Fax: (856) 858-4960
(856) 427-1603
http://www.emslcom

Please print all information legibly.

371405822

	Fuss & O'Neill EnviroScience, LLC		Fuss & O'Neill EnviroScience, LLC
	56 Quarry Road		56 Quarry Road
	Trumbull, CT		Trumbull, CT
	06611		06611
	USA		USA
	Kevin McCarthy		Kevin McCarthy
	203-374-3748x 3533		203-374-3748x3533
	888-838-1160		888-838-1160
	kmccarthy@fando.com		kmccarthy@fando.com
	Ellen Podell		
	70 Morehouse Hwy, Fairfield, CT/2014277.B3E		

Sampling Location: 70 Morehouse Hwy Date Collected: 4-28-14 Date Sent:

Other Information: Mold Bulk Sample

For EMSL only
EMSL Order No.
Sample(s) received
Discernable field

Sample ID	Sample Location	Sample Type	Volume (liters), Area (sq. cm), or Weight (grams)	Analysis Code*	Turnaround Time*	
0425BH-01	Basement	Bulk	6 grams	M041	24 hour	N/A

Relinquished by: B. Holbrin Date: 4-28 Time: 1700
Received by: AK EMSL Fx Date: 4/29/14 Time: 0948

RECEIVED EMSL CINNAMINSON NJ 2014 APR 29 AM 11:52

Page: 1 of 1

EMSL Analytical, Inc.
200 Route 130 North Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-0262
http://www.EMSL.com / cinnmicrolab@emsl.com

Order ID:	371405822
Customer ID:	ENVI54
Customer PO:	
Project ID:	

Attn: Kevin McCarthy
Fuss & O'Neill EnviroScience, LLC
146 Hartford Road
Manchester, CT 06040

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Collected:	04/25/2014
Received:	04/29/2014
Analyzed:	04/29/2014

Proj: 62 Morehouse Hwy

Test Report: Microscopic Examination of Fungal Spores, Fungal Structures, Hyphae, and Other Particulates from Bulk Samples (EMSL Method: M041)

Lab Sample Number: / Client Sample ID: / Sample Location:	371405822-0001 0425BH-01 Basement				
Spore Types	Category				
Agrocybe/Coprinus	-				
[illegible]	[illegible]				
Ascospores	-				
[illegible]	[illegible]				
Basidiospores	-				
[illegible]	[illegible]				
Chaetomium	-				
[illegible]	[illegible]				
Curvularia	-				
[illegible]	[illegible]				
Fusarium	-				
[illegible]	[illegible]				
Myxomycetes++	-				
[illegible]	[illegible]				
Rust	-				
[illegible]	[illegible]				
Stachybotrys	*High*				
[illegible]	[illegible]				
Ulocladium	-				
[illegible]	[illegible]				
Zygomycetes	-				
[illegible]	[illegible]				
Hyphal Fragment	-				
[illegible]	[illegible]				
Pollen	-				

Category: Count/per area analyzed
Rare: 1 to 10 Low: 11 to 100 Medium: 101 to 1000 High: >1000

Bipolaris++ = Bipolaris/Dreschlera/Exserohilum Myxomycetes++ = Myxomycetes/Periconia/Smut
* = Sample contains fruiting structures and/or hyphae associated with the spores.

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

Farbod Nekouei, M.S., Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation of the data contained in this report is the responsibility of the client. "-" denotes not detected. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ AIHA-LAP, LLC--EMLAP Accredited #100194

Initial report from: 04/29/2014 14:47:50

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

FUSS & O'NEILL
EnviroScience,Inc

Appendix G

Airborne Radon Assessment Results and Chain of Custody Form

PC1404290055

RTCA RADON TESTING CORPORATION OF AMERICA

Site Radon Inspection Report

Date : 04/29/2014

Ms. Karron Redfield
Fuss & O'Neill Enviroscience, LLC
146 Hartford Road
Manchester, CT 06040-

Client: 20140277.B3E

Test Location: 62 Morehouse Highway
Fairfield, CT 06825-

Individual Canister Results

Canister ID# :	2313927	Test Start :	04/25/2014 @ 11:08
Canister Type :	Charcoal Canister 3 inch	Test Stop :	04/28/2014 @ 11:22
Location :	Basement-Blank	Received:	04/29/2014 @ 11:21
Radon Level :	**0.1 pCi/L**	Analyzed:	04/29/2014 @ 13:00

Error for Measurement is: ± 0.2 pCi/L

Canister ID# :	2314076	Test Start :	04/25/2014 @ 11:07
Canister Type :	Charcoal Canister 3 inch	Test Stop :	04/28/2014 @ 11:20
Location :	Dining Rm-DP	Received:	04/29/2014 @ 11:21
Radon Level :	**0.1 pCi/L**	Analyzed:	04/29/2014 @ 13:00

Error for Measurement is: ± 0.1 pCi/L

Canister ID# :	2314145	Test Start :	04/25/2014 @ 11:08
Canister Type :	Charcoal Canister 3 inch	Test Stop :	04/28/2014 @ 11:22
Location :	Basement	Received:	04/29/2014 @ 11:21
Radon Level :	**0.8 pCi/L**	Analyzed:	04/29/2014 @ 13:00

Error for Measurement is: ± 0.2 pCi/L

Canister ID# :	2314146	Test Start :	04/25/2014 @ 11:07
Canister Type :	Charcoal Canister 3 inch	Test Stop :	04/28/2014 @ 11:20
Location :	Dining Rm	Received:	04/29/2014 @ 11:21
Radon Level :	**0.2 pCi/L**	Analyzed:	04/29/2014 @ 13:00

Error for Measurement is: ± 0.2 pCi/L

NRSB

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

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

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

RTCA RADON TESTING CORPORATION OF AMERICA

PC1404290055

Site Radon Inspection Report

Date : 04/29/2014

The reported results indicate that radon levels in the building 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 free 1-800-458-1158.

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.

NRSB

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

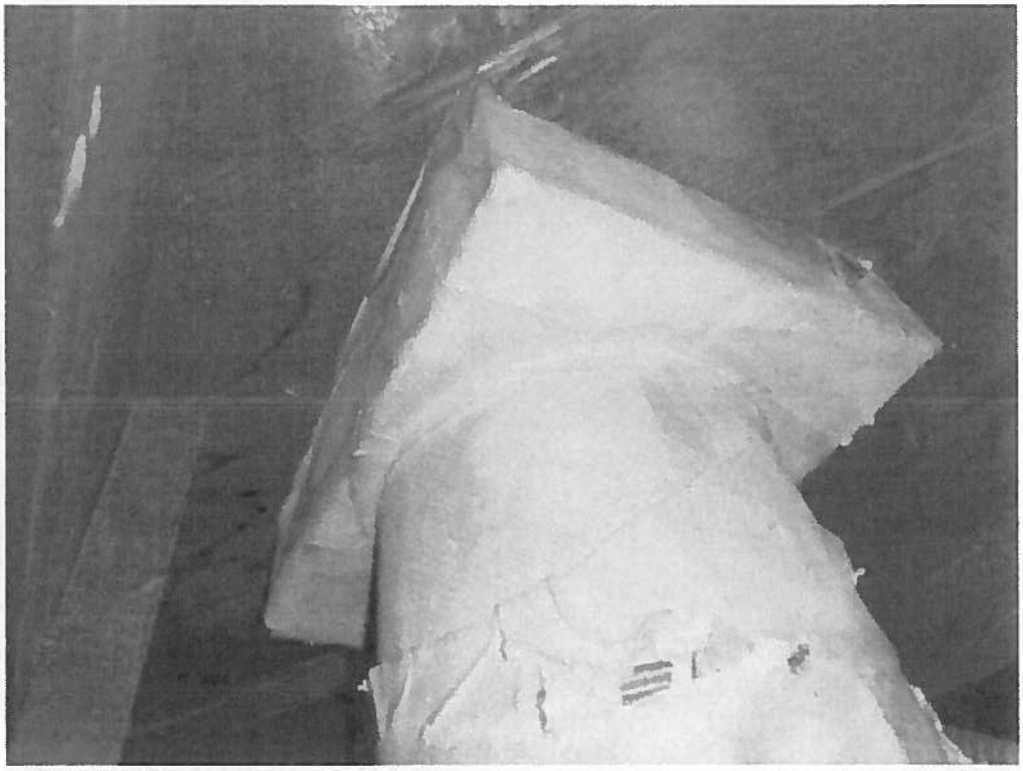
(914)345-3380
FAX (914)345-8546

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

Appendix H

Site Photographs

ACM Basement Pipe Insulation



ACM Basement Duct Wrap

Mold Growth on Basement Sheetrock Wall

Mold Growth on Basement Carpet

AUTION CAUTION CAUTION CAUTION CAUTION CAUTION CA

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

EPA

1-800-424-LEAD (5323)
www.epa.gov/getleadsafe

EPA-740-K-10-001
April 2010

THE LEAD-SAFE CERTIFIED GUIDE TO RENOVATE RIGHT

Important lead hazard information for families, child care providers and schools.

EPA

LEAD-SAFE EPA CERTIFIED FIRM

IT'S THE LAW!

Federal law requires contractors that disturb painted surfaces in homes, child care facilities and schools, built before 1978 to be certified and follow specific work practices to prevent lead contamination. Always ask to see your contractor's certification.

Federal law requires that individuals receive certain information before renovating more than six square feet of painted surfaces in a room for interior projects or more than twenty square feet of painted surfaces for exterior projects or window replacement or demolition in housing, child care facilities and schools built before 1978.

- Homeowners and tenants: renovators must give you this pamphlet before starting work.
- Child care facilities, including preschools and kindergarten classrooms, and the families of children under six years of age that attend those facilities: renovators must provide a copy of this pamphlet to child care facilities and general renovation information to families whose children attend those facilities.

WHO SHOULD READ THIS PAMPHLET?

This pamphlet is for you if you:

- Reside in a home built before 1978.
- Own or operate a child care facility, including preschools and kindergarten classrooms, built before 1978, or
- Have a child under six years of age who attends a child care facility built before 1978.

You will learn:

- Basic facts about lead and your health.
- How to choose a contractor, if you are a property owner.
- What tenants, and parents/guardians of a child in a child care facility or school should consider.
- How to prepare for the renovation or repair job.
- What to look for during the job and after the job is done.
- Where to get more information about lead.

This pamphlet is not for:

- **Abatement projects.** Abatement is a set of activities aimed specifically at eliminating lead or lead hazards. EPA has regulations for certification and training of abatement professionals. If your goal is to eliminate lead or lead hazards, contact the National Lead Information Center at **1-800-424-LEAD (5323)** for more information.
- **"Do-it-yourself"** projects. If you plan to do renovation work yourself, this document is a good start, but you will need more information to complete the work safely. Call the National Lead Information Center at **1-800-424-LEAD (5323)** and ask for more information on how to work safely in a home with lead-based paint.
- **Contractor education.** Contractors who want information about working safely with lead should contact the National Lead Information Center at **1-800-424-LEAD (5323)** for information about courses and resources on lead-safe work practices.

RENOVATING, REPAIRING, OR PAINTING?

- Is your home, your building, or the child care facility or school your children attend being renovated, repaired, or painted?
- Was your home, your building, or the child care facility or school where your children under six years of age attend built before 1978?

If the answer to these questions is YES, there are a few important things you need to know about lead-based paint.

This pamphlet provides basic facts about lead and information about lead safety when work is being done in your home, your building or the child care facility or school your children attend.

The Facts About Lead

- Lead can affect children's brains and developing nervous systems, causing reduced IQ, learning disabilities, and behavioral problems. Lead is also harmful to adults.
- Lead in dust is the most common way people are exposed to lead. People can also get lead in their bodies from lead in soil or paint chips. Lead dust is often invisible.
- Lead-based paint was used in more than 38 million homes until it was banned for residential use in 1978.
- Projects that disturb painted surfaces can create dust and endanger you and your family. Don't let this happen to you. Follow the practices described in this pamphlet to protect you and your family.

LEAD AND YOUR HEALTH

Lead is especially dangerous to children under six years of age.

Lead can affect children's brains and developing nervous systems, causing:

- Reduced IQ and learning disabilities.
- Behavior problems.

Even children who appear healthy can have dangerous levels of lead in their bodies.

Lead is also harmful to adults. In adults, low levels of lead can pose many dangers, including:

- High blood pressure and hypertension.
- Pregnant women exposed to lead can transfer lead to their fetuses. Lead gets into the body when it is swallowed or inhaled.
- People, especially children, can swallow lead dust as they eat, play, and do other normal hand-to-mouth activities.
- People may also breathe in lead dust or fumes if they disturb lead-based paint. People who sand, scrape, burn, brush or blast or otherwise disturb lead-based paint risk unsafe exposure to lead.

What should I do if I am concerned about my family's exposure to lead?

- Call your local health department for advice on reducing and eliminating exposures to lead inside and outside your home, child care facility or school.
- Always use lead-safe work practices when renovation or repair will disturb painted surfaces.
- A blood test is the only way to find out if you or a family member already has lead poisoning. Call your doctor or local health department to arrange for a blood test.

For more information about the health effects of exposure to lead, visit the EPA lead website at **www.epa.gov/lead/pubs/leadinfo**.htm or call **1-800-424-LEAD (5323)**.

There are other things you can do to protect your family every day.

- Regularly clean floors, window sills, and other surfaces.
- Wash children's hands, bottles, pacifiers, and toys often.
- Make sure children eat a healthy, nutritious diet consistent with the USDA's dietary guidelines, that helps protect children from the effects of lead.
- Wipe off shoes before entering house.

WHERE DOES THE LEAD COME FROM?

Dust is the main problem.

The most common way to get lead in the body is from dust. Lead dust comes from deteriorating lead-based paint and lead-contaminated soil that gets tracked into your home. This dust may accumulate to unsafe levels. Then, normal hand to-mouth activities, like playing and eating (especially in young children), move that dust from surfaces like floors and window sills into the body.

Home renovation creates dust.

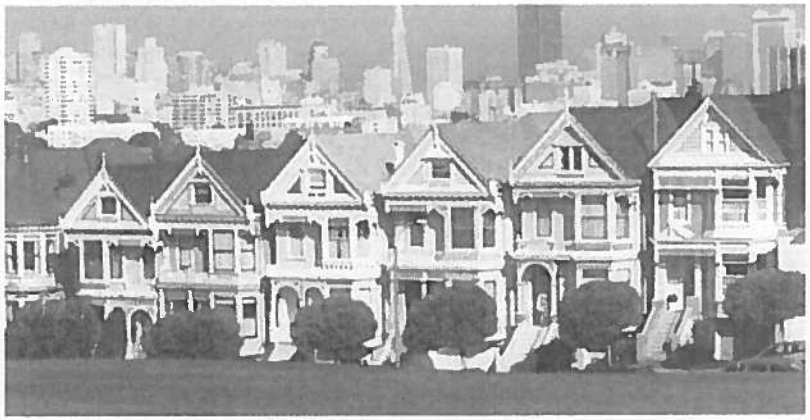
Common renovation activities like sanding, cutting, and demolition can create hazardous lead dust and chips.

Proper work practices protect you from the dust.

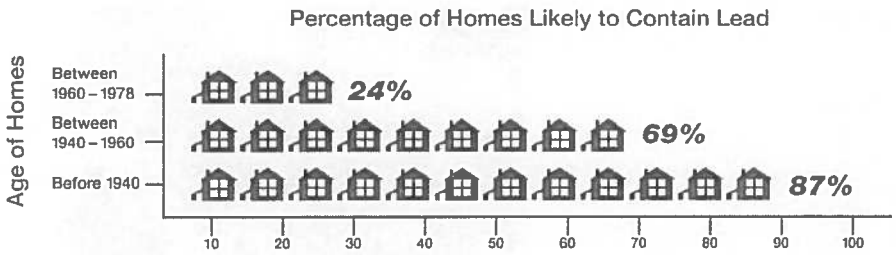
The key to protecting yourself and your family during a renovation, repair or painting job is to use lead-safe work practices such as containing dust inside the work area, using dust-minimizing work methods, and conducting a careful cleanup, as described in this pamphlet.

Other sources of lead.

Remember, lead can also come from outside soil, your water, or household items (such as lead-glazed pottery and lead crystal). Contact the National Lead Information Center at **1-800-424-LEAD (5323)** for more information on these sources.



CHECKING YOUR HOME FOR LEAD-BASED PAINT



Older homes, child care facilities, and schools are more likely to contain lead-based paint.

Homes may be single-family homes or apartments. They may be private, government-assisted, or public housing. Schools are preschools and kindergarten classrooms. They may be urban, suburban, or rural.

You have the following options:

You may decide to assume your home, child care facility, or school contains lead. Especially in older homes and buildings, you may simply want to assume lead-based paint is present and follow the lead-safe work practices described in this brochure during the renovation, repair, or painting job.

You can hire a certified professional to check for lead-based paint. These professionals are certified risk assessors or inspectors, and can determine if your home has lead or lead hazards.

- A certified inspector or risk assessor can conduct an inspection telling you whether your home, or a portion of your home, has lead-based paint and where it is located. This will tell you the areas in your home where lead-safe work practices are needed.
- A certified risk assessor can conduct a risk assessment telling you if your home currently has any lead hazards from lead in paint, dust, or soil. The risk assessor can also tell you what actions to take to address any hazards.
- For help finding a certified risk assessor or inspector, call the National Lead Information Center at **1-800-424-LEAD (5323)**.

You may also have a certified renovator test the surfaces or components being disturbed for lead using a lead test kit. Test kits must be EPA-recognized and are available at hardware stores. They include detailed instructions for their use.

FOR PROPERTY OWNERS

You have the ultimate responsibility for the safety of your family, tenants, or children in your care.

This means properly preparing for the renovation and keeping persons out of the work area (see p. 8). It also means ensuring the contractor uses lead-safe work practices.

Federal law requires that contractors performing renovation, repair and painting projects that disturb painted surfaces in homes, child care facilities, and schools built before 1978 be certified and follow specific work practices to prevent lead contamination.

Make sure your contractor is certified, and can explain clearly the details of the job and how the contractor will minimize lead hazards during the work.

- You can verify that a contractor is certified by checking EPA's website at **epa.gov/getleadsafe** or by calling the National Lead Information Center at **1-800-424-LEAD (5323)**. You can also ask to see a copy of the contractor's firm certification.
- Ask if the contractor is trained to perform lead-safe work practices and to see a copy of their training certificate.
- Ask them what lead-safe methods they will use to set up and perform the job in your home, child care facility or school.
- Ask for references from at least three recent jobs involving homes built before 1978, and speak to each personally.

Always make sure the contract is clear about how the work will be set up, performed, and cleaned.

- Share the results of any previous lead tests with the contractor.
- You should specify in the contract that they follow the work practices described on pages 9 and 10 of this brochure.
- The contract should specify which parts of your home are part of the work area and specify which lead-safe work practices will be used in those areas. Remember, your contractor should confine dust and debris to the work area and should minimize spreading that dust to other areas of the home.
- The contract should also specify that the contractor will clean the work area, verify that it was cleaned adequately, and re-clean it if necessary.

If you think a worker is not doing what he is supposed to do or is doing something that is unsafe, you should:

- Direct the contractor to comply with regulatory and contract requirements.
- Call your local health or building department, or
- Call EPA's hotline **1-800-424-LEAD (5323)**.

If your property receives housing assistance from HUD (or a state or local agency that uses HUD funds), you must follow the requirements of HUD's Lead-Safe Housing Rule and the ones described in this pamphlet.

FOR TENANTS AND FAMILIES OF CHILDREN UNDER SIX YEARS OF AGE IN CHILD CARE FACILITIES AND SCHOOLS

You play an important role ensuring the ultimate safety of your family.

This means properly preparing for the renovation and staying out of the work area (see p. 8).

Federal law requires that contractors performing renovation, repair and painting projects that disturb painted surfaces in homes built before 1978 and in child care facilities and schools built before 1978, that a child under six years of age visits regularly, to be certified and follow specific work practices to prevent lead contamination.

The law requires anyone hired to renovate, repair, or do painting preparation work on a property built before 1978 to follow the steps described on pages 9 and 10 unless the area where the work will be done contains no lead-based paint.

If you think a worker is not doing what he is supposed to do or is doing something that is unsafe, you should:

- Contact your landlord.
- Call your local health or building department, or
- Call EPA's hotline **1-800-424-LEAD (5323)**.

If you are concerned about lead hazards left behind after the job is over, you can check the work yourself (see page 10).

PREPARING FOR A RENOVATION

The work areas should not be accessible to occupants while the work occurs.

The rooms or areas where work is being done may need to be blocked off or sealed with plastic sheeting to contain any dust that is generated. Therefore, the contained area may not be available to you until the work in that room or area is complete, cleaned thoroughly, and the containment has been removed. Because you may not have access to some areas during the renovation, you should plan accordingly.

You may need:

- Alternative bedroom, bathroom, and kitchen arrangements if work is occurring in those areas of your home.
- A safe place for pets because they too can be poisoned by lead and can track lead dust into other areas of the home.
- A separate pathway for the contractor from the work area to the outside in order to bring materials in and out of the home. Ideally, it should not be through the same entrance that your family uses.
- A place to store your furniture. All furniture and belongings may have to be moved from the work area while the work is being done. Items that can't be moved, such as cabinets, should be wrapped in plastic.
- To turn off forced-air heating and air conditioning systems while the work is being done. This prevents dust from spreading through vents from the work area to the rest of your home. Consider how this may affect your living arrangements.

You may even want to move out of your home temporarily while all or part of the work is being done.

Child care facilities and schools may want to consider alternative accommodations for children and access to necessary facilities.

DURING THE WORK

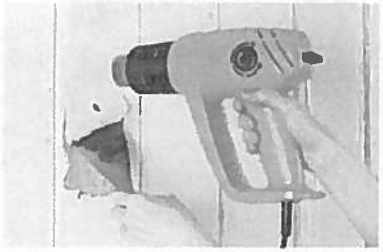
Federal law requires contractors that are hired to perform renovation, repair and painting projects in homes, child care facilities, and schools built before 1978 that disturb painted surfaces to be certified and follow specific work practices to prevent lead contamination.

The work practices the contractor must follow include these three simple procedures, described below:

1. **Contain the work area.** The area must be contained so that dust and debris do not escape from that area. Warning signs must be put up and plastic or other impermeable material and tape must be used as appropriate to:
   - Cover the floors and any furniture that cannot be moved.
   - Seal off doors and heating and cooling system vents.

These will help prevent dust or debris from getting outside the work area.

2. **Avoid renovation methods that generate large amounts of lead-contaminated dust.** Some methods generate so much lead-contaminated dust that their use is prohibited. They are:
   - Open flame burning or torching.
   - Sanding, grinding, planing, needle gunning, or blasting with power tools and equipment not equipped with a shroud and HEPA vacuum attachment.
   - Using a heat gun at temperatures greater than 1100°F.



There is no way to eliminate dust, but some renovation methods make less dust than others. Contractors may choose to use various methods to minimize dust generation, including using water to mist areas before sanding or scraping; scoring paint before separating components; and prying and pulling apart components instead of breaking them.

3. **Clean up thoroughly.** The work area should be cleaned up daily to keep it as clean as possible. When all the work is done, the area must be cleaned up using special cleaning methods before taking down any plastic that isolates the work area from the rest of the home. The special cleaning methods should include:
   - Using a HEPA vacuum to clean up dust and debris on all surfaces, followed by
   - Wet wiping and wet mopping with plenty of rinse water.

When the final cleaning is done, look around. There should be no dust, paint chips, or debris in the work area. If you see any dust, paint chips, or debris, the area must be re-cleaned.

FOR PROPERTY OWNERS: AFTER THE WORK IS DONE

When all the work is finished, you will want to know if your home, child care facility, or school has been cleaned up properly. Here are some ways to check.

Ask about your contractor's final cleanup check. Remember, lead dust is often invisible to the naked eye. It may still be present even if you cannot see it. The contractor must use disposable cleaning cloths to wipe the floor of the work area and compare them to a cleaning verification card to determine if the work area was adequately cleaned.

To order a cleaning verification card and detailed instructions visit the EPA lead website at **www.epa.gov/lead** or contact the National Lead Information Center at **1-800-424-LEAD (5323)** or visit their website at **www.epa.gov/lead/nlic.htm**.

You also may choose to have a lead-dust test. Lead-dust tests are wipe samples sent to a laboratory for analysis.

- You should specify in your contract that a lead-dust test will be done. In this case, make it clear who will do the testing.
- Testing should be done by a lead professional.

If you choose to do the testing, some EPA-recognized lead laboratories will send you a kit that allows you to collect samples and send them back to the lab for analysis.

Contact the National Lead Information Center at **1-800-424-LEAD (5323)** for lists of qualified professionals and EPA-recognized lead labs.

If your home, child care facility, or school fails the dust test, the area should be re-cleaned and tested again.

Where the project is done by contract, it is a good idea to specify in the contract that the contractor is responsible for re-cleaning if the home, child care facility, or school fails the test.

FOR ADDITIONAL INFORMATION

You may need additional information on how to protect yourself and your children while a job is going on in your home, your building, or child care facility.

The National Lead Information Center at **1-800-424-LEAD (5323)** or **www.epa.gov/lead/nlic.htm** can tell you how to contact your state, local, and/or tribal programs or get general information about lead poisoning prevention.

- State and tribal lead poisoning prevention or environmental protection programs can provide information about lead regulations and potential sources of financial aid for reducing lead hazards. If your state or local government has requirements more stringent than those described in this pamphlet, you must follow those requirements.
- Local building code officials can tell you the regulations that apply to the renovation work that you are planning.
- State, county, and local health departments can provide information about local programs, including assistance for lead-poisoned children and advice on ways to get your home checked for lead.

The National Lead Information Center can also provide a variety of resource materials, including the following guides to lead-safe work practices. Many of these materials are also available at **www.epa.gov/lead/pubs/brochure.htm**.

- Steps to Lead Safe Renovation, Repair and Painting.
- Protect Your Family from Lead in Your Home
- Lead in Your Home: A Parent's Reference Guide

For the hearing impaired, call the Federal Information Relay Service at 1-800-877-8339 to access any of the phone numbers in this brochure.

EPA CONTACTS

EPA Regional Offices

EPA addresses residential lead hazards through several different regulations. EPA requires training and certification for conducting abatement and renovations, education about hazards associated with renovations, disclosure about known lead paint and lead hazards in housing, and sets lead-paint hazard standards.

Your Regional EPA Office can provide further information regarding lead safety and lead protection programs at **epa.gov/lead**.

Region 1
(Connecticut, Massachusetts, Maine, New Hampshire, Rhode Island, Vermont)
Regional Lead Contact
U.S. EPA Region 1
Suite 1100
One Congress Street
Boston, MA 02114-2023
(888) 372-7341

Region 2
(New Jersey, New York, Puerto Rico, Virgin Islands)
Regional Lead Contact
U.S. EPA Region 2
2890 Woodbridge Avenue
Building 205, Mail Stop 225
Edison, NJ 08837-3679
(732) 321-6671

Region 3
(Delaware, Maryland, Pennsylvania, Virginia, Washington, DC, West Virginia)
Regional Lead Contact
U.S. EPA Region 3
1650 Arch Street
Philadelphia, PA
19103-2029
(215) 814-5000

Region 4
(Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee)
Regional Lead Contact
U.S. EPA Region 4
61 Forsyth Street, SW
Atlanta, GA 30303-8960
(404) 562-9900

Region 5
(Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin)
Regional Lead Contact
U.S. EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604-3507
(312) 886-6003

Region 6
(Arkansas, Louisiana, New Mexico, Oklahoma, Texas)
Regional Lead Contact
U.S. EPA Region 6
1445 Ross Avenue,
12th Floor
Dallas, TX 75202-2733
(214) 665-6444

Region 7
(Iowa, Kansas, Missouri, Nebraska)
Regional Lead Contact
U.S. EPA Region 7
901 N. 5th Street
Kansas City, KS 66101
(913) 551-7003

Region 8
(Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming)
Regional Lead Contact
U.S. EPA Region 8
1595 Wynkoop Street
Denver, CO 80202
(303) 312-6312

Region 9
(Arizona, California, Hawaii, Nevada)
Regional Lead Contact
U.S. Region 9
75 Hawthorne Street
San Francisco, CA 94105
(415) 947-8021

Region 10
(Alaska, Idaho, Oregon, Washington)
Regional Lead Contact
U.S. EPA Region 10
1200 Sixth Avenue
Seattle, WA 98101-1128
(206) 553-1200

OTHER FEDERAL AGENCIES

CPSC

The Consumer Product Safety Commission (CPSC) protects the public from the unreasonable risk of injury or death from 15,000 types of consumer products under the agency's jurisdiction. CPSC warns the public and private sectors to reduce exposure to lead and increase consumer awareness. Contact CPSC for further information regarding regulations and consumer product safety.

CPSC
4330 East West Highway
Bethesda, MD 20814
Hotline 1-(800) 638-2772
www.cpsc.gov

CDC Childhood Lead Poisoning Prevention Branch

The Centers for Disease Control and Prevention (CDC) assists state and local childhood lead poisoning prevention programs to provide a scientific basis for policy decisions, and to ensure that health issues are addressed in decisions about housing and the environment. Contact CDC Childhood Lead Poisoning Prevention Program for additional materials and links on the topic of lead.

CDC Childhood Lead Poisoning Prevention Branch
4770 Buford Highway, MS F-40
Atlanta, GA 30341
(770) 488-3300
www.cdc.gov/nceh/lead

HUD Office of Healthy Homes and Lead Hazard Control

The Department of Housing and Urban Development (HUD) provides funds to state and local governments to develop cost-effective ways to reduce lead-based paint hazards in America's privately-owned low-income housing. In addition, the office enforces the rule on disclosure of known lead paint and lead hazards in housing, and HUD's lead safety regulations in HUD-assisted housing, provides public outreach and technical assistance, and conducts technical studies to help protect children and their families from health and safety hazards in the home. Contact the HUD Office of Healthy Homes and Lead Hazard Control for information on lead regulations, outreach efforts, and lead hazard control research and outreach grant programs.

U.S. Department of Housing and Urban Development
Office of Healthy Homes and
Lead Hazard Control
451 Seventh Street, SW, Room 8236
Washington, DC 20410-3000
HUD's Lead Regulations Hotline
(202) 402-7698
www.hud.gov/offices/lead/

SAMPLE PRE-RENOVATION FORM

This sample form may be used by renovation firms to document compliance with the Federal pre-renovation education and renovation, repair, and painting regulations.

Occupant Confirmation

Pamphlet Receipt

❑ I have received a copy of the lead hazard information pamphlet informing me of the potential risk of the lead hazard exposure from renovation activity to be performed in my dwelling unit. I received this pamphlet before the work began.

_____

Printed Name of Owner-occupant

_____ _____

Signature of Owner-occupant Signature Date

Renovator's Self Certification Option (for tenant-occupied dwellings only)

Instructions to Renovator: If the lead hazard information pamphlet was delivered but a tenant signature was not obtainable, you may check the appropriate box below.

❑ **Declined** – I certify that I have made a good faith effort to deliver the lead hazard information pamphlet to the rental dwelling unit listed below at the date and time indicated and that the occupant declined to sign the confirmation of receipt. I further certify that I have left a copy of the pamphlet at the unit with the occupant.

❑ **Unavailable for signature** – I certify that I have made a good faith effort to deliver the lead hazard information pamphlet to the rental dwelling unit listed below and that the occupant was unavailable to sign the confirmation of receipt. I further certify that I have left a copy of the pamphlet at the unit by sliding it under the door or by (fill in how pamphlet was left).

_____ _____

Printed Name of Person Certifying Delivery Attempted Delivery Date

_____

Signature of Person Certifying Lead Pamphlet Delivery

_____

_____

_____

Unit Address

Note Regarding Mailing Option — As an alternative to delivery in person, you may mail the lead hazard information pamphlet to the owner and/or tenant. Pamphlet must be mailed at least seven days before renovation. Mailing must be documented by a certificate of mailing from the post office.

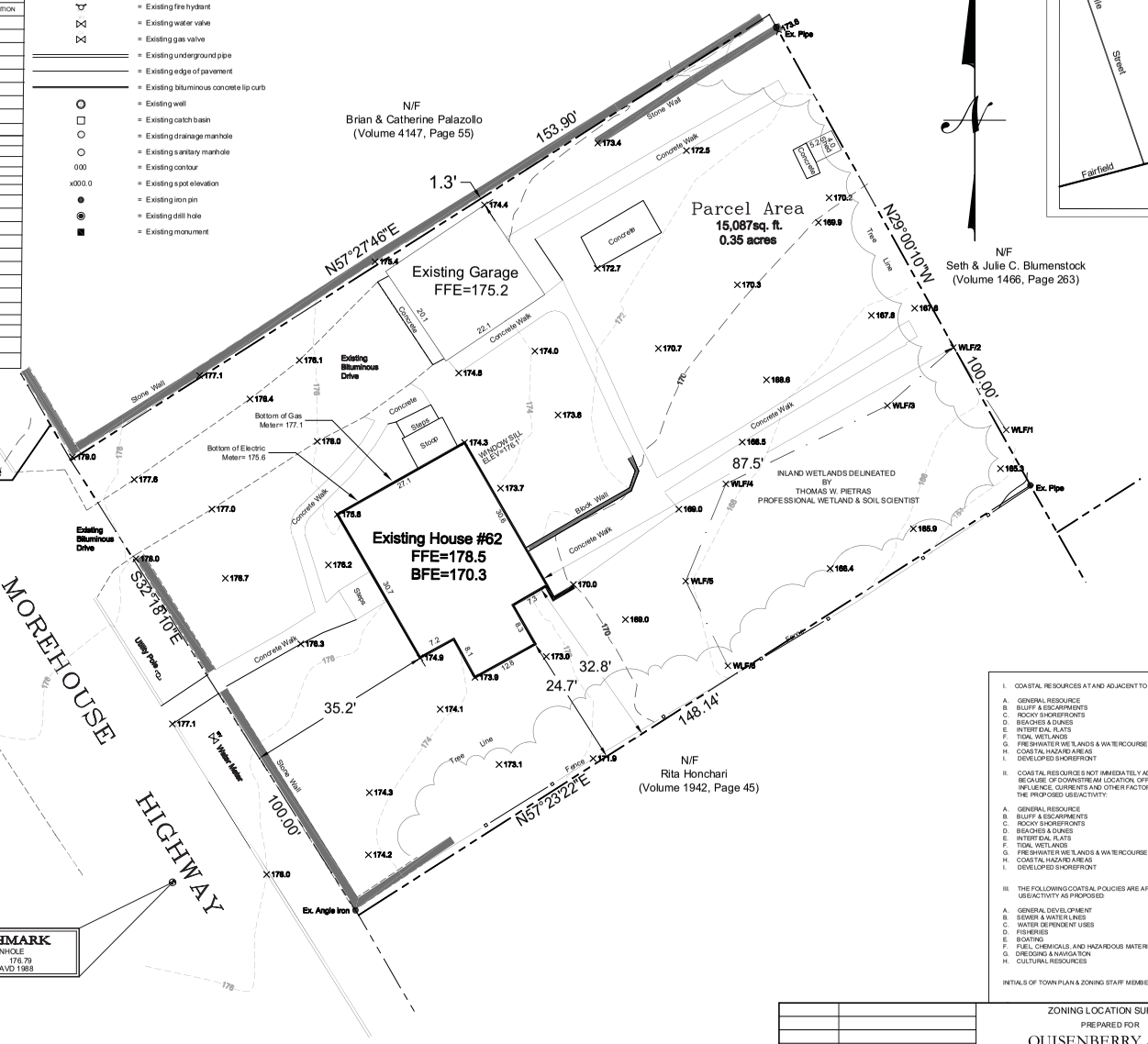
ZONING DATA

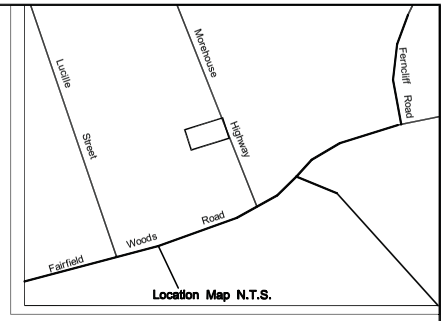
Zoning Information -- Zone "A" Residential

STATUS / ITEM	REQUIRED	EXISTING CONDITION	PROPOSED	AS - BUILT CONDITION
MINIMUM LOT AREA	9,375 S.F.	15,087 S.F.		
MIN. SQUARE ON LOT	78'	50'		
MINIMUM LOT FRONTAGE	20'	50'		
DENSITY - MIN. LOT AREA PER DWELLING UNIT				
ONE FAMILY	9,375 S.F.	15,087 S.F.		
TWO FAMILY				
THREE FAMILY				
FOUR FAMILY				
EACH ADDITIONAL UNIT				
MINIMUM SETBACKS:				
FROM STREET LINE	30'	35.2'		
SIDE PROPERTY LINES	20'	24.7'		
(MORE THAN ONE STORY)	25'			
ONE SIDE PROPERTY LINE	30'			
REAR PROPERTY LINE	30'	87.5'		
ONE STREET LINE ON COR. (ONE STORY)	17'			
(MORE THAN ONE STORY)	22'			
MINIMUM FLOOR AREA:				
ONE STORY BUILDING	750 S.F.			
SPLIT LEVEL BUILDING	1,000 S.F.			
TWO OR MORE STORY BLDG TOTAL FLOOR AREA	1,000 S.F.	940 S.F.		
GROUND FLOOR AREA	650 S.F.			
FLOOR AREA PER APARTMENT	500 S.F.			
MAX. HEIGHT FOR BUILDING	32'			
MAX. NO. STORIES FOR BUILDING	2-1/2			
MAX. BLDG LOT COVERAGE (% OF LOT AREA)	20%	9.2%		
MAX. BLDG FLOOR AREA (% OF LOT AREA)	40%			
MINIMUM FIRST FLOOR ELEVATION	FIRM BFE= 11'	FFE= 178.5'		

LEGEND

- = Existing utility pole
- = Existing light pole
- = Existing fire hydrant
- = Existing water valve
- = Existing gas valve
- = Existing underground pipe
- = Existing edge of pavement
- = Existing bituminous concrete lip curb
- = Existing well
- = Existing catch basin
- = Existing drainage manhole
- = Existing sanitary manhole
- 000 = Existing contour
- x000.0 = Existing spot elevation
- = Existing iron pin
- = Existing drill hole
- = Existing monument





Average Grade Around Residence:

Elevation= 174.0'
Elevation of roof peak= 199.5'
Elevation of roof eave= 186.5'
Elevation of roof midpoint= 199.5' + 186.5' = 385.5' / 2 =193.0'

Height of Residence:

Elevation of roof midpoint - avg. grade= 193' - 174' = 19'
Finish floor elevation of elevated residence= 178.5'
Concrete floor elevation= (Basement) 170.3'
Detached garage floor elevation= 175.2'
As-built building lot coverage: N/A at this time
As-built building floor area: N/A at this time

SURVEY NOTES:

1. This map has been prepared pursuant to the Regulation of Connecticut State Agencies Sections 20-300b-1 through 20-300b-20 and the "Standards for Surveys and Maps in the State of Connecticut" as adopted by the Connecticut Association of Land Surveyors, Inc. on September 26, 1996.

2. Type of survey performed: Zoning Location Survey

3. Boundary determination category: Dependent Resurvey

4. Class of accuracy:
   Horizontal: A-2
   Vertical: T-2

5. The intent of this map is to depict the position horizontally and where required vertically, between particular existing or proposed improvements with respect to the applicable municipal or statutory requirements.

6. Map References:

   a) Revision of property in Fairfield, Conn., for Catherine Ryback, Scale:1"=30', Dec. 9, 1974. by Fuller & Company, Engineers, Surveyors, 1301 Wood Avenue, Bridgeport, Conn. Fairfield, Connecticut.

7. Per agreement with property owner no boundary corners were set by this survey unless noted hereon. All monumentation found is depicted or noted hereon.

8. Zone: R3

9. Total area: 15,078 S.F. / 0.35 Ac.

10. Peter and Hilda Steiner

11. Town of Fairfield Assessors Map #46 Lot #291

12. Filed in Volume 543, Page 190 of the Town Clerk's office.

13. Contours are established from field topography.

14. Vertical Datum is NAVD 1988 and based on the CGS Mon LX 0935.

15. There are wetlands located on the property or within 250' as shown.

16. The subject property is situated in Zone "X", which is not in a "Special Flood Hazard Area" (Firm Map 090007 Panel 428 Suffix F/ Effective date of June 18, 2010)

17. This survey does not include the location of any underground improvements or encroachments, subsurface utility lines or buried debris. Nor does it necessarily reflect the existence of any waste dumps or hazardous materials. The underground items depicted or noted are approximate and are not guaranteed. Notify "CALL BEFORE YOU DIG" 1-800-922-4455 prior to any excavation operations.

BENCHMARK
TF MANHOLE
ELEV. = 176.79
Datum: NAVD 1988

I. COASTAL RESOURCES AT AND ADJACENT TO THE SITE:

A. GENERAL RESOURCE
B. BLUFF & ESCARPMENTS
C. ROCKY SHOREFRONTS
D. BEACHES & DUNES
E. INTERTIDAL FLATS
F. TIDAL WETLANDS
G. FRESHWATER WETLANDS & WATERCOURSE
H. COASTAL HAZARD AREAS
I. DEVELOPED SHOREFRONT
J. ISLAND
K. SHORELANDS
L. SHELLFISH CONGREGATION AREA
EASTERN OYSTER
HARD CLAM
M. NEARSHORE COASTAL WATER
N. OFFSHORE COASTAL WATER
O. ESTUARINE EMBAYMENT
P. AIR RESOURCE & AIR QUALITY

II. COASTAL RESOURCES NOT IMMEDIATELY ADJACENT TO THE SITE, BUT BECAUSE OF DOWNSTREAM LOCATION, OFF-SITE DRAINAGE, TIDAL INFLUENCE, CURRENTS AND OTHER FACTORS, MAY BE IMPACTED BY THE PROPOSED USE/ACTIVITY:

A. GENERAL RESOURCE
B. BLUFF & ESCARPMENTS
C. ROCKY SHOREFRONTS
D. BEACHES & DUNES
E. INTERTIDAL FLATS
F. TIDAL WETLANDS
G. FRESHWATER WETLANDS & WATERCOURSE
H. COASTAL HAZARD AREAS
I. DEVELOPED SHOREFRONT
J. ISLAND
K. SHORELANDS
L. SHELLFISH CONGREGATION AREA
EASTERN OYSTER
HARD CLAM
M. NEARSHORE COASTAL WATER
N. OFFSHORE COASTAL WATER
O. ESTUARINE EMBAYMENT
P. AIR RESOURCE & AIR QUALITY

III. THE FOLLOWING COASTAL POLICIES ARE APPLICABLE TO THE USE/ACTIVITY AS PROPOSED:

A. GENERAL DEVELOPMENT
B. SEWER & WATER LINES
C. WATER DEPENDENT USES
D. FISHERIES
E. BOATING
F. FUEL, CHEMICALS, AND HAZARDOUS MATERIALS
G. DREDGING & NAVIGATION
H. CULTURAL RESOURCES
I. COASTAL STRUCTURES AND FILLING
J. PORT AND HARBORS
K. SOLID WASTE
L. OPEN SPACE & AGRICULTURAL LANDS
M. COASTAL RECREATION AND ACCESS
N. DAMS, DIKES AND RESERVOIRS
O. TRANSPORTATION
P. ENERGY FACILITIES

INITIALS OF TOWN PLAN & ZONING STAFF MEMBER

DATE	REVISION

To the best of my knowledge and belief, this map is substantially correct as noted hereon.

#70145
Stephen M. Giudice, L.S. Reg. No.
NOT VALID UNLESS EMBOSSED SEAL IS AFFIXED HERETO

ZONING LOCATION SURVEY
PREPARED FOR
QUISENBERRY ARCARI
ARCHITECTS, LLC

#62 MOREHOUSE HIGHWAY
ASSESSORS MAP #46 / PARCEL #291
FAIRFIELD, CONNECTICUT

AUGUST 19, 2014 SCALE: 1"=10'

PROJECT #: 1158 F.B. #: 477 DWG. #: D

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