APPENDIX "A"

ENVIRONMENTAL REVIEW REPORT

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

Applicant # 1377

174 Rodney Street
Waterbury, Connecticut

July 11, 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: Simpson Residence #1377
174 Rodney Street Waterbury, CT

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]	☒	☐	☐	☐	☐	☐	Not applicable – Building built in 1990. Not located in historic district.
2. Floodplain Management [58.5(b)] [EO 11988] [24 CFR 55]	☒	☐	☐	☐	☐	☐	Flood Insurance Map Community Panel # 09009C0136H 12/17/2010 See attached FIRMLET. Located in Zone X.
3. Wetland Protection [58.5 (b)]	☐	☐	☒	☒	☐	☐	Consulted City of Waterbury Planning Department. See attached 6/6/14 letter from Margaret Brown of the City Planning Department. Wetland approval required.
4. Coastal Zone Management [58.5(c)] [CGS 22a-100(b)]	☒	☐	☐	☐	☐	☐	Project is not within Coastal Zone Boundry. Spoke with George Wisker at DEEP and was total there is no map for Waterbury.
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 nor is it located in a sole source aquifer zone.
6. Endangered Species [58.5(e)] [16 U.S.C. 1531 et seq.] [CGS 26-310]	☒	☐	☐	☐	☐	☐	NOT LOCATED AT WATERFRONT PROPERTIES WITH SANDY BEACHES - consulted with Department of Interior Fish and Wildlife Database – See attached Department of Interior Fish and Wildlife report.dated May 28, 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) This project is not proximal to any listed Wild and Scenic Rivers.
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. Project is soley residential rehabilitation with no quanifiable increase in air polution..

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. This property is not located in an Airport Clear Zone.
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)]	☒	☐	☐	☐	☐	☐	Flood Insurance Map Community Panel # 09009C0136H 12/17/2010 See attached FIRMLET Flood insurance not required.
12 B. Coastal Barriers [58.6(c)]	☒	☐	☐	☐	☐	☐	Property is not in a Coastal Management Zone. – No Coastal Management Zones in Waterbury, CT
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.

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. 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 rehabilitation activities are not expected to affect the capacities of solid waste disposal services.
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]	☒	☐	☐	☐	☐	☐	No Lead paint found - See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated April 2014.
13 D. Asbestos	☐	☒	☒	☐	☐	☐	Asbestos found (assumed) – See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated April 2014,and follow recommendations listed in report. Compliance will include measures to minimize risk of expsure and when necessary abate any hazardous materials.
13 E. Radon [50.3 (i) 1]	☒	☐	☐	☐	☐	☐	Radon concentration less than 4 picocuries per liter of air and are below regulatory levels. See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated April 2014.
13 F. Mold	☒	☐	☐	☐	☐	☐	No Mold found- See attached Limited Hazardous Materials Inspection Report from Fuss & O'Neill EnviroScience LLC dated April 2014.
Other: State or Local 14 A. Flood Management Certification [CGS 25-68]	☒	☐	☐	☐	☐	☐	Based on FEMA Map # 09009C0136H Flood Management Certification through General Permit for CDBG-DR program activities with DEEP is not required.
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]	☐	☐	☒	☒	☐	☐	Located in wetlands. Consulted City of Waterbury Inland Wetlands. See attached Designated Inland Wetlands and Watercourses of Waterbury map. Wetlands approval required.
14 E. Various Municipal Zoning Approvals	☒	☐	☐	☐	☐	☐	Only Local Building Permits required.

DETERMINATION:

☐ This project converts to Exempt, per §58.349a)(12), because it does not require any mitigation for compliance 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:

Stephen Bell

6/12/14
Date

Responsible Entity or designee Signature:

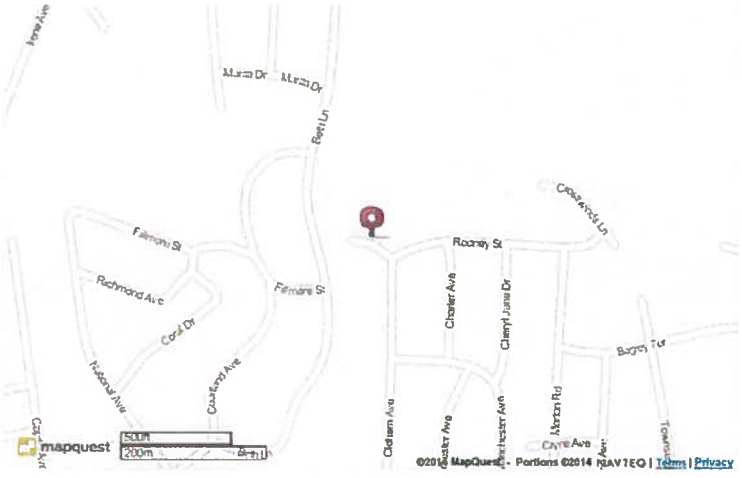
Hermia Delaire, CDBG-DR Program Manager

Date

mapquest

Map of:
15 Rodney St
Waterbury, CT 06705-3036

Notes



Map

Waterbury Parcels

Parcel Labels (MBL, Address, Owner)

City Border

Waterbury Parcels

Major Roads (8, 84)

8; 84

Buildings

Streams (1984)

City Parks

Surrounding Routes

1; 10; 100; 101; 102; 103; 104; 106; 107; 108; 109; 11; 110; 111; 112; 113; 114; 115; 116; 117; 118; 12; 120; 121; 122; 123; 124; 125; 126; 127; 128; 130; 131; 132; 133; 135; 136; 137; 138; 139; 14; 140; 142; 145; 146; 147; 148; 149; 14A; 15; 150; 151; 152; 153; 154; 155; 156; 157; 159; 16; 160; 161; 162;

Surrounding Open Space

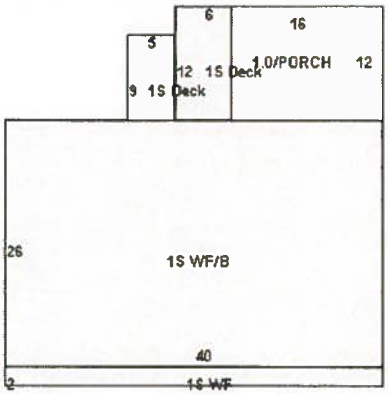
Waterbury Background

Surround Background

Beacon Falls; Berlin; Bethany; Bethlehem; Bristol; Cheshire; Hamden; Litchfield; Meriden; Middlebury; Morris; Naugatuck; New Britain; Newtown; Oxford; Plainville; Plymouth; Prospect; Roxbury; Southbury; Southington; Thomaston; Wallingford; Washington; Watertown; Wolcott; Woodbury; Waterbury

City of Waterbury **Last Updated: 04/04/2014**

Internet Map



Summary

Address	174 RODNEY ST	**Map/Block/Lot**	0264-0399-0035
Primary Use	Residential	**Acres**	0.20
Unique ID	026403990035	**Zone**	RL
Volume	4845	**Page**	45

Ownership Information

Current Owner	SIMPSON CHERA A		**Appraised Value**	**70% Assessment**
		Land	29220	20460
	174 RODNEY ST	**Buildings**	113820	79670
		Outbuildings	0	0
	WATERBURY CT 06705	**Total**	**143040**	**100130**

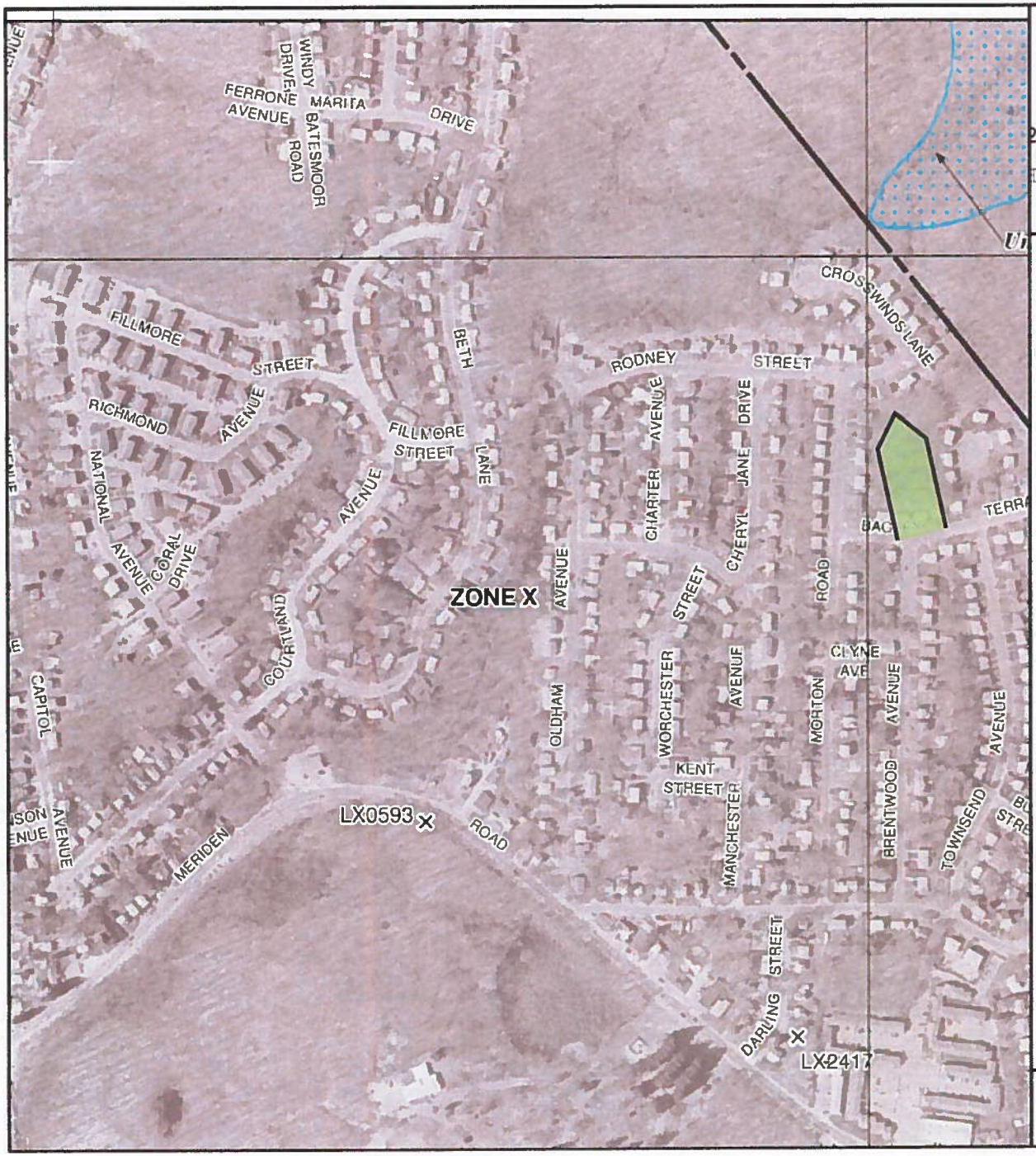
Sales History

Previous Owner	HOUSING AUTHORITY OF THE CITY	**Sale Date**	12/5/2003

Sale Price	120500	**Deed Type**	
Volume/Page	4845 / 45	**Valid Sale**	Yes
Previous Owner		**Sale Date**	12/21/1990
Sale Price	131000	**Deed Type**	
Volume/Page	/	**Valid Sale**	No

Building #1					
Style	High Ranch	Rooms	6	Bsmt Area	1040
Building SF	1312	Bedrooms	1	Bsmt Finish	468
Stories	1.00	Baths	2 Full, 0 Half	Bsmt Garage	2 bays
Construction	Wood Frame	Fireplaces	0	Roof	
Overall Condition	Average	Heating	/ Electric Heat	Siding	Vinyl Siding ,
Year Built	1990	Cooling %	0	Units	1
Special Features	, ,				
Components	Screen Porch , Wood Deck , Wood Deck				

Click here to go back.



MAP SCALE 1" = 500'

250 0 500 1000 FEET

METE

PANEL 0136H

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

NEW HAVEN COUNTY, CONNECTICUT

(ALL JURISDICTIONS)

PANEL 136 OF 635

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CHESHIRE, TOWN OF	090074	0136	H
NORTH HAVEN, TOWN OF	090064	0136	H
WATERBURY, CITY OF	090081	0136	H
WOLCOTT, TOWN OF	090083	0136	H

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
09009C0136H

EFFECTIVE DATE
DECEMBER 17, 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

JAMES A. SEQUIN, AICP
CITY PLANNER

One Jefferson Square • 5th Floor
Waterbury, CT 06706
Office: (203) 574-6817
Fax: (203) 346-3949
Email: jsequin@waterburyct.org

NEIL M. O'LEARY
MAYOR

CITY PLANNING DEPARTMENT
THE CITY OF WATERBURY
CONNECTICUT

June 6, 2014

Mr. Stephen Ball
294 White Deer Rocks Road
Woodbury, CT 06798

RE: Wetlands Determination for Environmental Review
172 Rodney Street, Waterbury, CT

Dear Mr. Ball:

We have received your request as part of an Environmental Review that you are preparing, for a determination from the City of Waterbury Inland Wetlands and Watercourses regulatory body, as to whether or not there are wetlands and or a watercourse on a property located at 172 Rodney Street in Waterbury, CT.

There are no mapped wetlands or watercourses per the city of Waterbury map entitled "Designated Inland Wetlands and Watercourses of Waterbury, CT". Please note that a definitive determination regarding the actual boundary of wetland soils would have to be made by a Connecticut certified soils scientist.

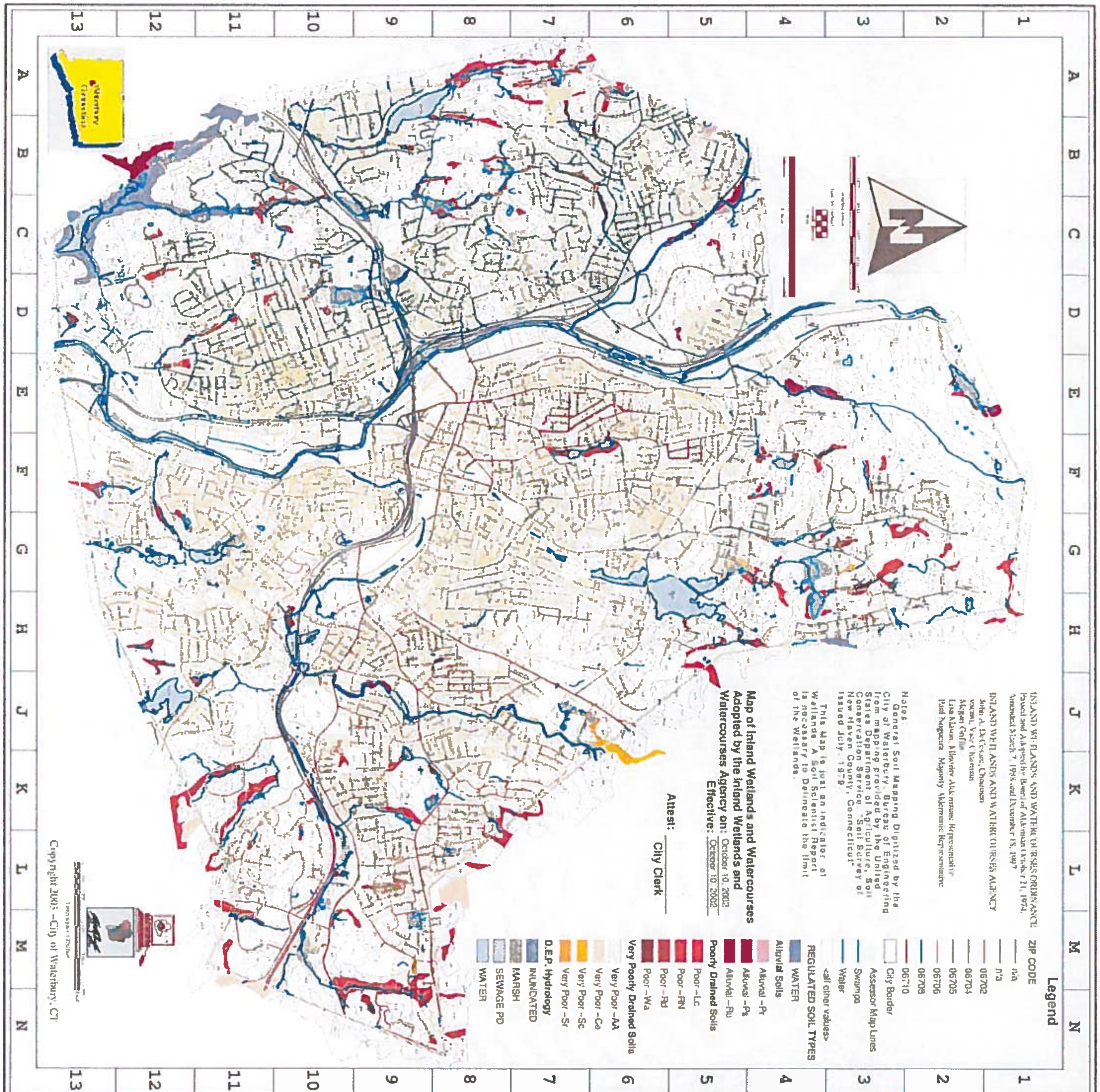
Please do not hesitate to call me at 203-574-6817 or email mbrown@waterburyct.org if you have any questions regarding this review.

Regards,

Margaret Brown

Margaret Brown
Land Use Inspector

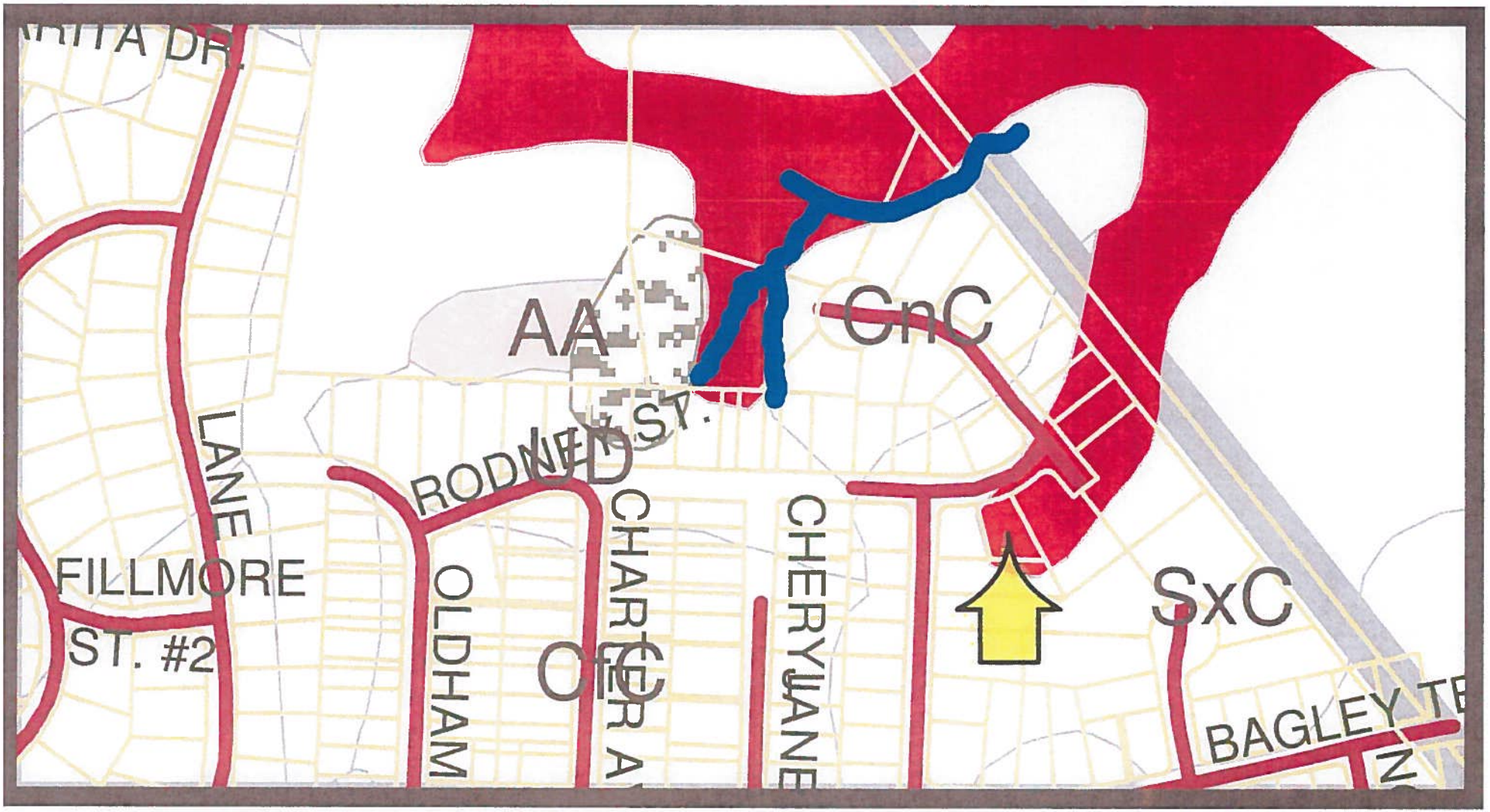
Cc: James Sequin, Planning Director

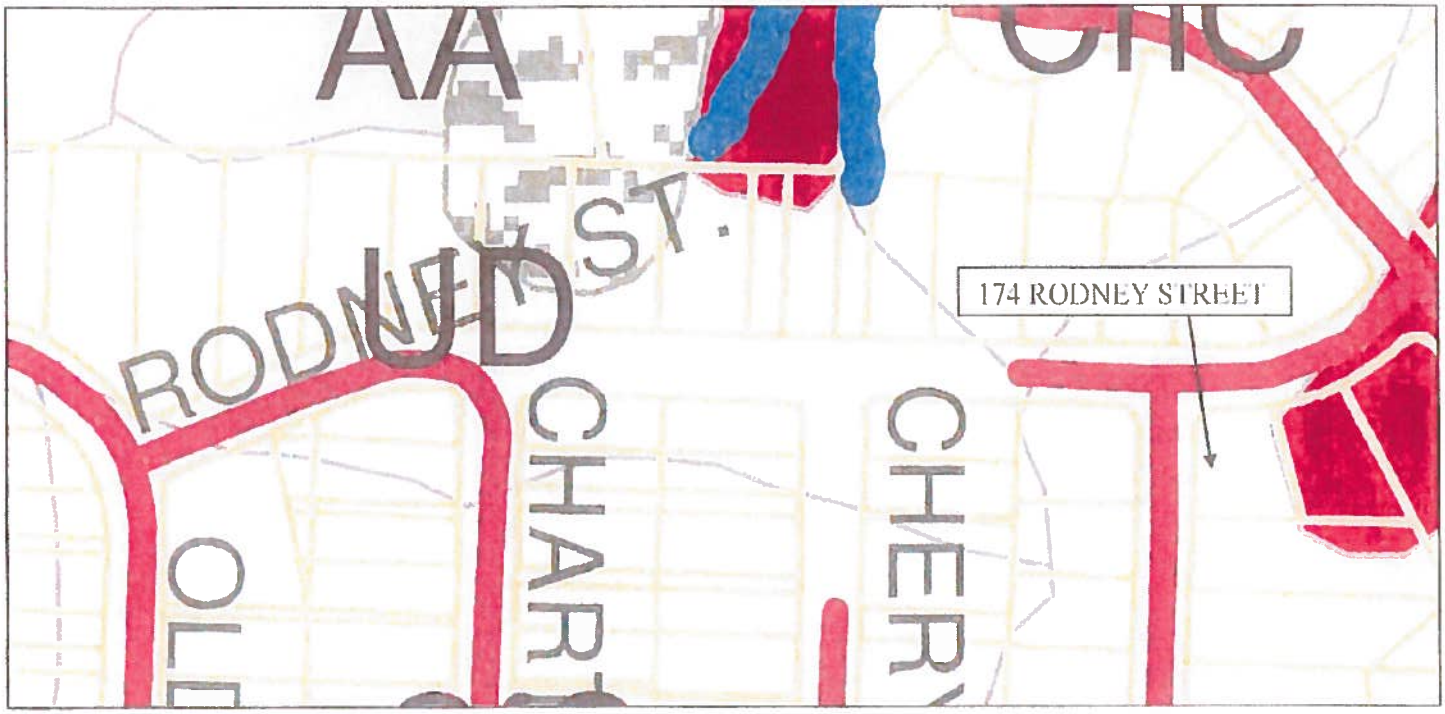


Designated Inland Wetlands and Watercourses of Waterbury, CT

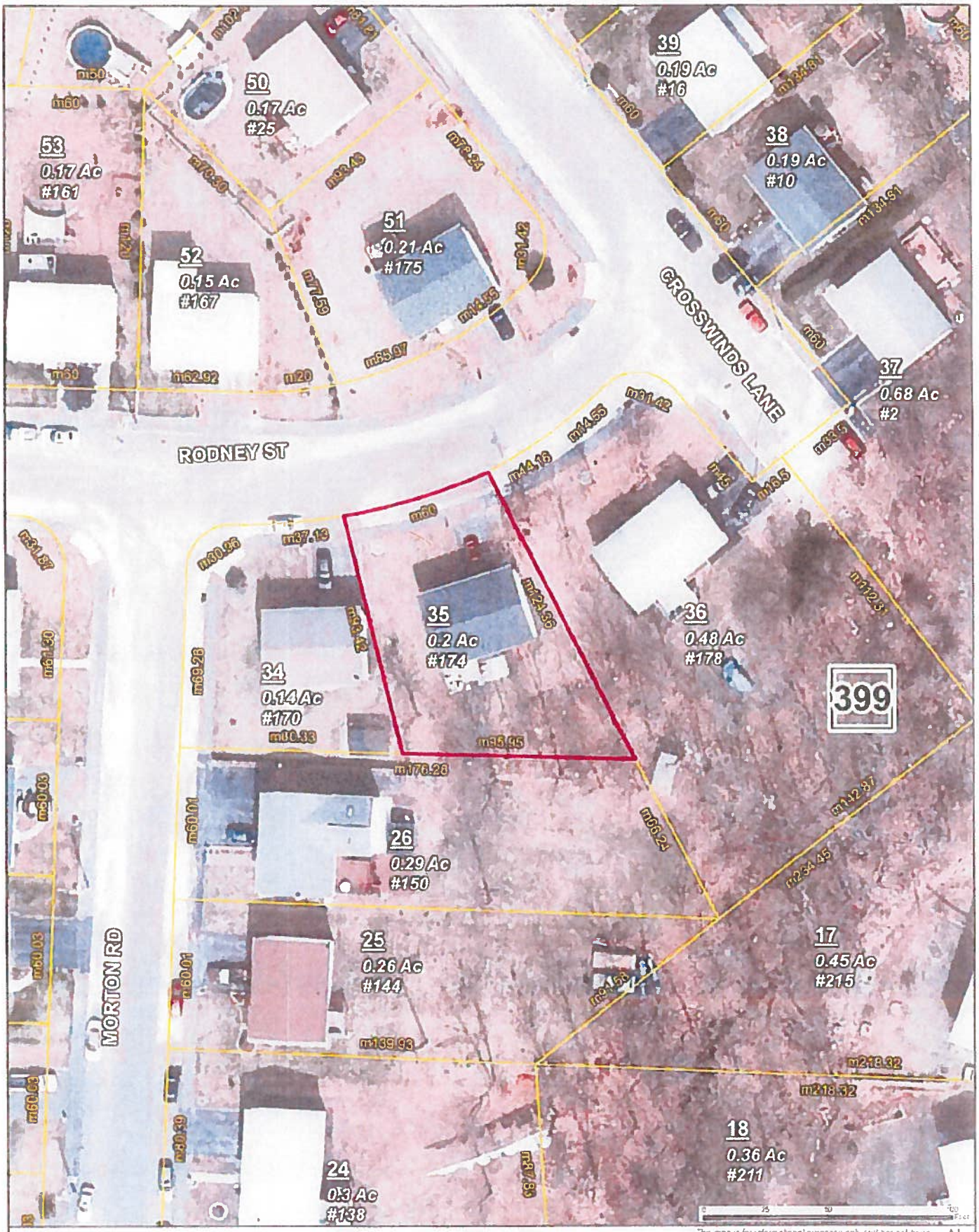
Geographic Information Systems Division

City of Waterbury, Bureau of Engineering 235 Grand St. Waterbury, CT 06702 (203) 574-6851


AA
CnC
SxC
LANE
FILLMORE
ST. #2
RODNEY
OLDHAM
CHERYL LANE
BAGLEY



City of Waterbury map entitled "Designated Inland Wetlands and Watercourses of Waterbury, CT



City of Waterbury
Public Works Department

MBL: 0264-0399-0035
ADDRESS: 174 RODNEY ST

Stephen Ball
294 White Deer Rocks Road
Woodbury, CT 06798
(203) 509-7231
stephenjball@hotmail.com

May 30, 2014

Margaret Brown
Land Use Inspector
City of Waterbury
One Jefferson Square – 5th Floor
Waterbury, CT 06706

RE: Wetlands Determination for Environmental Reviews

Dear Ms. Brown:

I am preparing Environmental Reviews on four (4)) Waterbury properties that have applied for Super Storm Sandy funding (CDBG-DR). HUD requires written review from local Inland/Wetland regulatory body as part of the Environmental Review. Please provide a written memo or letter on your letterhead letter certifying that there are / are not any mapped wetlands or watercourses on the property, based on the City of Waterbury "Designated Inland Wetlands and Watercourses" map.

The four properties are as follows:

653 Willow Street - roof replacement and Chimney repointing
174 Rodney Street - interior renovations, replace siding, roofing, decking
31 Sheldon Street - structural repairs and interior renovations
92 Rockledge Drive - Repair mold and water damage in basement

Upon completion, you can e-mail the letter/memo to me or notify me that they are available and I can pick them up.

Should you have any questions regarding this request, feel free to call me at (203) 509-7231.

Thanks,

Stephen Ball

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-0280 May 28, 2014
Project Name: Rehab of 174 Rodney Street Waterbury, CT

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: Rehab of 174 Rodney Street Waterbury, CT

Official Species List

Provided by:

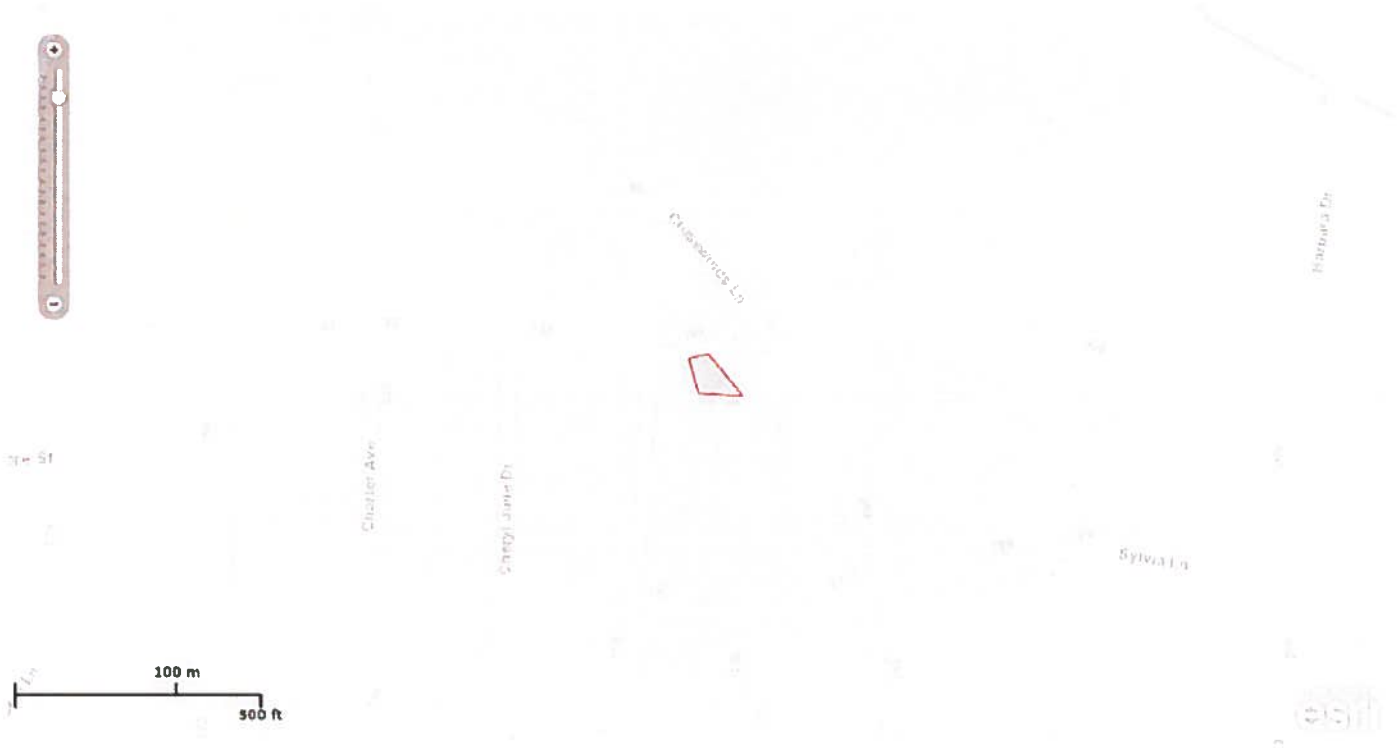
New England Ecological Services Field Office
70 COMMERCIAL STREET, SUITE 300
CONCORD, NH 3301
(603) 223-2541
http://www.fws.gov/newengland

Consultation Tracking Number: 05E1NE00-2014-SLI-0280
Project Type: Federal Grant / Loan Related
Project Description: Housing renovation of 174 Rodney Street Waterbury to include: new roof, replace siding, replace windows, new deck, and interior renovations.

United States Department of Interior
Fish and Wildlife Service

Project name: Rehab of 174 Rodney Street Waterbury, CT

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-72.9874721 41.559302, -72.9873219 41.5593263, -72.9870644 41.5590892, -72.987397 41.5591053, -72.9874721 41.559302)))

Project Counties: New Haven, CT

United States Department of Interior
Fish and Wildlife Service

Project name: Rehab of 174 Rodney Street Waterbury, CT

Endangered Species Act Species List

There are a total of 0 threatened, endangered, or candidate 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 on the **Has Critical Habitat** lines 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.

United States Department of Interior
Fish and Wildlife Service

Project name: Rehab of 174 Rodney Street Waterbury, CT

Critical habitats that lie within your project area

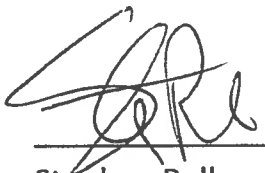
There are no critical habitats within your project area.

10 D. Toxic Site Certification

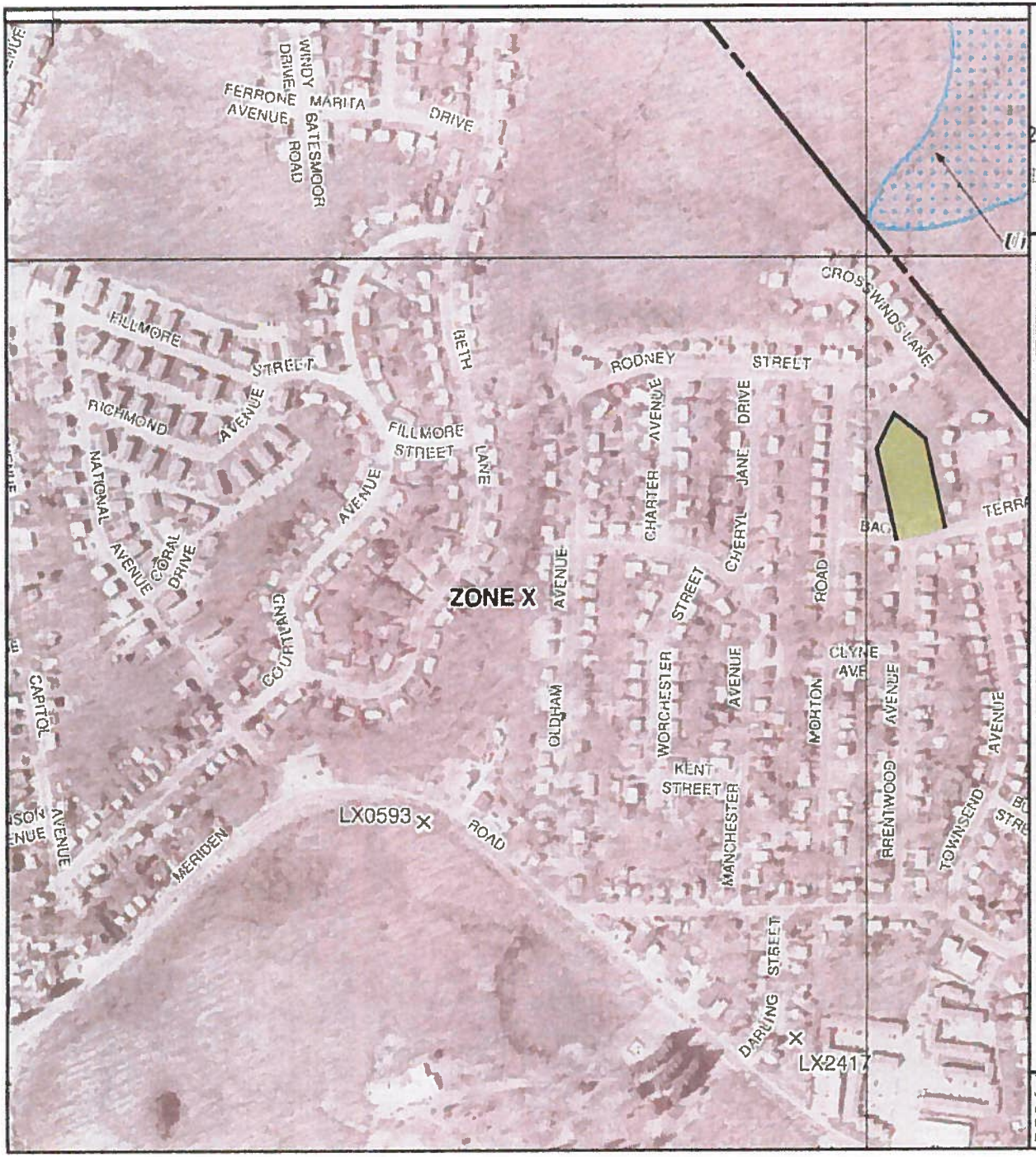
I certify that the property identified as 174 Rodney Street Waterbury, Connecticut was checked for inclusion on the attached lists/databases:

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 May 14, 2014, 174 Rodney Street Waterbury, Connecticut was not listed on any of the above.



Stephen Ball
ERR Reviewer



MAP SCALE 1" = 500'

250 0 500 1000 FEET

METER

PANEL 0136H

FIRM

FLOOD INSURANCE RATE MAP

NEW HAVEN COUNTY, CONNECTICUT

(ALL JURISDICTIONS)

PANEL 136 OF 635

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CHESHIRE, TOWN OF	090074	0136	H
[illegible]	[illegible]	0136	H
WATERBURY, CITY OF	090077	0136	H
WOLCOTT, TOWN OF	090093	0136	H

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.

NATIONAL FLOOD INSURANCE PROGRAM

MAP NUMBER
09009C0136H

EFFECTIVE DATE
DECEMBER 17, 2010

Federal Emergency Management Agency

Limited Hazardous Materials Inspection Report

Storm Sandy Residential Rehabilitation Project
174 Rodney Street
Waterbury, Connecticut

Quisenberry Arcari Architects, LLC

Farmington, Connecticut

April 2014

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

Project No. 20140277.A7E

FUSS & O'NEILL
EnviroScience, LLC

April 28, 2014

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

RE: Limited Hazardous Materials Inspection
Storm Sandy Residential Rehabilitation Project
174 Rodney, Waterbury, Connecticut
Fuss & O'Neill EnviroScience Project No. 20140277.A7E
Quisenberry Arcari Project No. 1346-01

Dear Mr. Arcari:

Enclosed is the report for the limited hazardous materials Inspection performed at 174 Rodney Street in Waterbury, Connecticut.

The initial inspection was performed on March 31, 2014, by Fuss & O'Neill EnviroScience, LLC licensed inspectors and included an asbestos inspection, testing for lead-based paint, airborne radon assessment, mold assessment, and assessments for PCB-containing ballasts and mercury hazards.

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

Robert L. May, Jr.
President
NEHA NRPP # 105366 RT

Enclosure

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FUSS & O'NEILL
EnviroScience, LLC

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Limited Hazardous Materials Inspection Report
174 Rodney Street, Waterbury, Connecticut

Appendices

FUSS & O'NEILL
EnviroScience, LLC

1 Introduction

On March 31, 2014, Fuss & O'Neill EnviroScience, LLC (EnviroScience) Environmental Technicians, Robert Hobbins and Thomas Cruess, whom are State of Connecticut licensed Asbestos Consultants - Inspectors and Certified Lead Paint Inspectors, performed a limited hazardous materials inspection at 174 Rodney Street in Waterbury, Connecticut. Refer to *Appendix A* for EnviroScience certifications and licenses.

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 *Residence Rehabilitation Letter* dated February 3, 2014, provided by Quisenberry Arcari Architects. The limited inspection consisted of the following:

- A Inspection for asbestos containing materials (ACM)
- A screening of painted surfaces for lead
- An evaluation of fluorescent light fixtures for polychlorinated biphenyls (PCB) ballasts
- An inventory of light tubes and devices for mercury
- Airborne radon assessment
- An assessment of mold

2 Asbestos Inspection

A Property Owner must ensure that performance of a thorough inspection for asbestos-containing materials (ACM), prior to possible disturbance of materials containing asbestos during renovation or demolition, is conducted. This is a requirement of the U.S. Environmental Protection Agency (EPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) regulation 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, but recommends the use of sampling protocols included in 40 CFR Part 763, Sub-Part E - Asbestos Containing Materials in Schools.

Samples of suspect asbestos-containing materials 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.

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 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 Table 1 and Table 2. Any materials on the site not listed in the following tables should be considered suspect ACM until sample results prove 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	Quantity	Sample No.
Exterior Roof	Flashing	Assumed *Material assumed due to inaccessibility*	20 SF *Estimated Amount to be Distrubed During Renvoations*	N/A

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.
Furnace Room	Furnace Rib Caulking Compounds	0331BH01A-B
Garage/Therapy Room	Sheetrock and associated Taping/Joint Compound	0331BH02A, 03A-B, 04
	Interior Window Glazing Compounds	0331BH05A-B
Furnace Room	Old Ceramic Floor Tile Grout	0331BH06A-B
Garage/Therapy Room	Concrete Floor	0331BH07A-B
Exterior of Building	Silver Paper/Vapor Barrier behind Siding	0331BH08A-B
Exterior Roof	Roof Shingles and Base Sheet	0331BH09A-C, 10A-C

2.2 Discussion

Sample analyses results are reported in percentages of asbestos and non-asbestos components. The EPA defines any material that contains more than one percent (1%) asbestos, utilizing PLM, as being an ACBM. Materials that are identified as "none detected" are specified as not containing asbestos. It is usually recommended that materials identified as containing less than one percent (<1%) asbestos be analyzed further.

2.3 Conclusion

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 can be removed either by 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 regulations. All asbestos waste must be properly sealed (leak/airtight containers) and disposed of 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 material becomes RACM.

Roof Flashing – The roof flashing was inaccessible at the time of the inspection and is assumed to be asbestos containing.

Any suspect material encountered during renovation/demolition that is not identified in this report as being non-ACM, should be assumed to be ACM unless sample results prove otherwise.

3 Lead-Based Paint Testing

Comprehensive testing for lead paint was performed within 174 Rodney Street in Waterbury, Connecticut by EnviroScience's Environmental Technician Robert Hobbins on March 31, 2014, for the purpose of compliance with EPA's Renovation, Repair and Painting Rule (RRP) (40 CFR 745.80 through 92). 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 components representing the initial painting history of the buildings and any building-wide repainting by the owners/managers of these building components were tested. Of course, individual repainting efforts are not discoverable in such a limited testing program. The purpose of this testing was to identify trends in the painting history of the buildings in order to determine if Toxicity Characteristic Leaching Procedure (TCLP) analysis is required.

The building was constructed with a metal and vinyl siding exterior with metal, wood, and vinyl window and door systems. The interior is sheetrock with concrete floors. There were no children under the age of six present within the residence at the time of the inspection.

3.1 Conclusion

The testing indicated consistent painting trends throughout the building interior and exterior. None of the painted components tested were determined to contain toxic levels of lead (equal to or greater than 1.0 milligrams of lead per square centimeter of paint). Due to the absence of lead paint, a TCLP was not conducted.

The field testing sheets are provided as *Appendix D* in this report.

Disclaimer: The information contained in this report concerning the presence or absence of lead paint does not constitute a comprehensive lead inspection under Connecticut regulations, Section 19a-111-1 to 11. The surfaces tested represent only a portion of those surfaces that would be tested to determine whether the premises are in compliance with Connecticut regulations.

Contractors shall be aware that OSHA has not established a level of lead in a material below which 29 CFR 1926.62 does not apply. Contractors 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's Renovation, Repair and Painting Rule (RRP) (40 CFR 745.80 through 92) 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-Based paint content. All similar 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 workers' exposures are still subject to lead in construction regulation 29 CFR 1926.62 regardless of paint testing results.

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 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 March 31, 2014, EnviroScience representative Robert 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. All those 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. All those ballasts with date labels indicating manufacture prior to 1991 which 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 fixtures that were examined were not labeled with either the manufacturer's information or a "No PCB's" label. However during the Inspection some types of ballasts were labeled with a "No PCB's" label. Therefore there is a mixture of assumed PCB and non-PCB ballasts within the areas inspected in the building.

It is estimated that a total of approximately 10 ballasts exist within the building that were not labeled with either the manufacturer's information or a "No PCB's" label.

4.2 Conclusion

Nearly all fluorescent light ballasts manufactured prior to 1979 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. DEHP is a toxic substance, a suspected carcinogen and is listed under RCRA and the Superfund law as a hazardous waste. Therefore, Superfund liability exists for land filling DEHP ballasts.

The ballasts not labeled "No PCBs" should properly recycled as PCB and the remaining labeled "No PCBs" ballasts properly recycled as assumed DEHP if the renovation activities will disturb the materials.

5 Assessment of Mercury-Containing Devices

Fluorescent lamps 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 to be recycled or disposed of as hazardous waste.

On March 31, EnviroScience's representative Robert Hobbins performed an inventory of mercury lamps, thermostats, thermometers, and mercury switches. These fixtures were inventoried in-place.

5.1 Results

It is estimated that approximately 20 fluorescent bulbs and 3 thermostats exist within the building. No mercury thermometers, switches, or gauges were observed within the building.

5.2 Conclusion

The bulbs should be properly recycled and the thermostats properly disposed of if the renovation activities will disturb the materials.

6 Mold Visual Assessment

On March 31, 2014, EnviroScience representative Robert Hobbins performed a visual assessment for the presence of suspect mold and water intrusion.

6.1 Observations

No suspected mold growth was identified on any building materials within the residence at the time of the inspection.

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 found in soil and rock throughout the United States. Radon 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. Each frequently occupied room that is in contact with the ground 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 U.S. each year, with a range of 7,000 to 30,000. The U.S. Surgeon General has warned that radon 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 March 31, 2014, to April 3, 2014, EnviroScience representatives set up passive radon detection canisters in limited areas within 174 Rodney Street and then retrieved the same canisters 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 E*.

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 Initial Airborne Radon Analytical Results

Four canisters, including one duplicates and one blank, were placed in target locations within the building during sampling that was performed March 31, 2014, to April 3, 2014. The concentrations of radon in the samples during the assessment ranged from 0.1 pCi/L to 2.2 pCi/L. The EPA threshold for radon is 4.0 pCi/L.

In *Table 3*, the locations and results of quality control duplicate tests for March 31, 2014, to April 3, 2014, are listed.

Table 3
Duplicate Samples Results – March 31, 2014 – April 3,2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)			Relative Percent Difference (RPD, %)
		Sample	Sample Duplicate	Sample Average	
Garage/Therapy Room	2299405 2299361	2.2	2.2	2.2	Percent Difference Not Needed (No Concentrations Above 4.0 pCi/Liter)

Note Duplicate testing results were satisfactory.

In *Table 4*, the locations and results of quality control blank tests for March 31, 2014, to April 3, 2014 are listed.

Table 4
Blank Samples Results – March 31, 2014 – April 3,2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)
Garage/Therapy Room	2299369	0.1

Note Blank testing results were satisfactory

In *Table 5*, the locations, canister numbers, and radon concentrations are listed for the airborne radon assessment conducted on March 31, 2014, to April 3, 2014 are listed.

Table 5
Radon Sampling Results – March 31, 2014 – April 3,2014

Location	Canister Numbers	Radon Concentration (pCi/Liter)
Living Room	2299345	0.1
Garage/Therapy Room	2299405	2.2

7.5 Conclusion

During the course of the radon measurement assessment, 4 sampling canisters, including duplicates and blanks, were placed in targeted locations within 174 Rodney Street in Waterbury, Connecticut. Of the four samples analyzed, all samples were below EPA recommended action guideline of 4.0 pCi/L.

Report prepared by Environmental Technician Robert Hobbins.

Reviewed by:

Kevin McCarthy
Project Manager

Robert L. May, Jr.
President
NEHA NRPP # 105366 RT

FUSS & O'NEILL
EnviroScience, LLC

Appendix A

Fuss &O'Neill EnviroScience Certifications

0001557 FP **PRSRT T0 0 1564 06040
THOMAS M. CRUESS
146 HARTFORD RD
MANCHESTER CT 06040-5992

Dear Licensed/Certified Professional,

Attached you will find your validated license/certification for the coming 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 340308
M.S.#12MQA **http://www.dph.state.ct.us**
Hartford, CT 06134-0308

Sincerely,

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

NSTRUCTIONS:

Detach and sign each of the cards on this form.
. Display the large card in a prominent place in your office or place of business.
. The wallet card is for you to carry on your person. If you do not wish to carry he 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.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS LICENSED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT - INSPECTOR

LICENSE NO.
000210
CURRENT THROUGH
11/30/14
VALIDATION NO.
03-681422

THOMAS M. CRUESS

SIGNATURE COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
THOMAS M. CRUESS

VALIDATION NO.	LICENSE NO.	CURRENT THROUGH
03-681422	000210	11/30/14

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

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WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
THOMAS M. CRUESS

VALIDATION NO.	LICENSE NO.	CURRENT THROUGH
03-681422	000210	11/30/14

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE COMMISSIONER

Fuss & O'Neill EnviroScience, LLC

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

This is to certify that

Thomas Cruess

xxx-xx-8566

has successfully completed the

4 Hr. Asbestos Inspector Refresher

Asbestos Accreditation under TSCA Title II

40 CFR Part 763

John Rowinski, Principal Instructor

Robert E. May, Jr., Training Manager

September 4, 2013

Date of Course

AI-R-09/13-5

Certificate Number

September 4, 2013; A

Examination Date & Grade

September 4, 2014

Expiration Date

0001569 FP **PRSRT T0 0 1564 06040
THOMAS M CRUESS
146 HARTFORD RD
MANCHESTER CT 06040-5992

Dear Licensed/Certified Professional,
Attached you will find your validated license/certification for the coming 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 340308
M.S.#12MQA http://www.dph.state.ct.us
Hartford, CT 06134-0308

Sincerely,

Jewel Mullen MD

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

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STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT
THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A

LEAD INSPECTOR

CERTIFICATION NO.
002208
CURRENT THROUGH
11/30/14
VALIDATION NO.
03-681434

THOMAS M CRUESS

SIGNATURE COMMISSIONER

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DEPARTMENT OF PUBLIC HEALTH

NAME
THOMAS M CRUESS

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03-681434	002208	11/30/14

PROFESSION
LEAD INSPECTOR

SIGNATURE COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
THOMAS M CRUESS

VALIDATION NO.	CERTIFICATION NO.	CURRENT THROUGH
03-681434	002208	11/30/14

PROFESSION
LEAD INSPECTOR

SIGNATURE COMMISSIONER

Fuss & O'Neill EnviroScience, LLC

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

This is to certify that

Tom Cruess

xxx-xx-8566

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-02/14-5
Certificate Number

February 25, 2014
Examination Date

February 25, 2015
Expiration Date

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,

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ASBESTOS CONSULTANT - INSPECTOR

JOHN R. HOBBINS

LICENSE NO. 000700
CURRENT THROUGH 01/31/15
VALIDATION NO. 03-708142

SIGNATURE COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
JOHN R. HOBBINS

VALIDATION NO.	LICENSE NO.	CURRENT THROUGH
03-708142	000700	01/31/15

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
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NAME
JOHN R. HOBBINS

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ASBESTOS CONSULTANT-INSPECTOR

SIGNATURE COMMISSIONER

Fuss & O'Neill EnviroScience, LLC

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

This is to certify that

John Robert Hobbins

xxx-xx-6853

has successfully completed the

4 Hr. Asbestos Inspector Refresher

Asbestos Accreditation under TSCA Title II

40 CFR Part 763

John Rowinski, 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 validated license/certification for the coming 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 340308
M.S.#12MQA http://www.dph.state.ct.us
Hartford, CT 06134-0308

Sincerely,

Jewel Mullen MD

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

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.

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH
PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A
Lead Inspector

CERTIFICATION NO.
2156

John R. Hobbins

CURRENT THROUGH
01/31/2015
VALIDATION NO.
DUPLICATE

SIGNATURE

Jewel Mullen MD
COMMISSIONER

EMPLOYER'S COPY

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
John R. Hobbins

VALIDATION NO. CERTIFICATION NO. CURRENT THROUGH
DUPLICATE 2156 01/31/2015
PROFESSION
Lead Inspector

SIGNATURE

Jewel Mullen MD
COMMISSIONER

WALLET CARD

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
John R. Hobbins

VALIDATION NO. CERTIFICATION NO. CURRENT THROUGH
DUPLICATE 2156 01/31/2015
PROFESSION
Lead Inspector

SIGNATURE

Jewel Mullen MD
COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

John Robert Hobbins
97 Montowese Street, Branford, CT 06405
000-00-6853

has successfully completed the

INSPECTOR REFRESHER

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

Neal B. Freuden
Principal Instructor: Neal Freuden

January 30, 2014
Date of Course

January 30, 2014
Exam Date

CTLIR-205
Certificate Number

January 30, 2015
Expiration Date

Gregory D. Morsch
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.

FUSS & O'NEILL
EnviroScience

Appendix B

Asbestos Sample Results and Chain of Custody

FUSS & O'NEILL
EnviroScience, LLC

04140 9001

www.fando.com

146 Hartford Road, Manchester, CT 06040 Phone (860)646-2469 Fax (860) 649-6883

SAMPLE LOG FOR ASBESTOS BULKS

Project Name: QA Residence Rehab–174 Rodney Street, Waterbury Project No. 20140277.A7E

Building: 174 Rodney Street, Waterbury Project Manager: McCarthy

Sample ID	Sample Location	Material	Result (%)
0331BH01A	Furnace Room	Furnace Rib Caulking Compounds	None Detected
0331BH01B	Furnace Room	Furnace Rib Caulking Compounds	
0331BH02A	Garage/Therapy Room	Sheetrock	
0331BH02B	Garage/Therapy Room	Sheetrock	
0331BH03A	Garage/Therapy Room	Taping/Joint Compound	
0331BH03B	Garage/Therapy Room	Taping/Joint Compound	
0331BH04	Garage/Therapy Room	Sheetrock & Taping/Joint Compound Composite	
0331BH05A	Garage/Therapy Room	Interior Window Glazing Compound	
0331BH05C	Garage/Therapy Room	Interior Window Glazing Compound	
0331BH06A	Furnace Room	Old Ceramic Floor Tile Grout	
0331BH06B	Furnace Room	Old Ceramic Floor Tile Grout	
0331BH07A	Garage/Therapy Room	Concrete Floor	
0331BH07B	Garage/Therapy Room	Concrete Floor	
0331BH08A	Exterior of Building	Silver Paper/Vapor Barrier behind Siding	
0331BH08B	Exterior of Building	Silver Paper/Vapor Barrier behind Siding	

2014 APR -7 A 9:56

CONNECTICUT ANALYTICAL LABORATORY

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 hr

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.

2 10 2

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: BH Date: 3-31-14 Time: _____

Samples [Rec'd][Sent by] [BH][_____] **Date:** [4-3-14][_____] **Time:** _____

Samples Received by: VC FX **Date:** 4-7-14 **Time:** 9:10

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ Other _____

FUSS & O'NEILL
EnviroScience, LLC

146 Hartford Road, Manchester, CT 06040

www.fando.com

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

OC/1409001

SAMPLE LOG FOR ASBESTOS BULKS

Sheet 2 of 2

Project Name: QA Residence Rehab–174 Rodney Street, Waterbury Project No. 20140277.A7E

Building: 174 Rodney Street, Waterbury Project Manager: McCarthy

Sample ID	Sample Location	Material	Result (%)
0331BH09A	Exterior Roof	Asphalt Roof Shingles	None Detected
0331BH09B	Exterior Roof	Asphalt Roof Shingles	
0331BH09C	Exterior Roof	Asphalt Roof Shingles	
0331BH10A	Exterior Roof	Roof Base Sheet	
0331BH10B	Exterior Roof	Roof Base Sheet	
0331BH 10C	Exterior Roof	Roof Base Sheet	

RECEIVED
CINNAMINSON, N.J.
2014 APR -7 A 9:57

Analysis Method: ☒ PLM ☐ Other Turnaround Time 24 hr

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 Hobbins **Date:** 3-31-14 **Time:** _____

Samples [Rec'd][Sent by] [BH] [ ] **Date:** [4-3-14] [ ] **Time:** _____

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

Shipped To: ☒ EMSL State NJ ☐ Other _____

Method of Shipment: ☒ Fed Ex ☐ Other _____

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com cinnasblab@EMSL.com

EMSL Order:	041409001
CustomerID:	ENVI54
CustomerPO:	
ProjectID:	

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

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	04/07/14 9:00 AM
Analysis Date:	4/7/2014
Collected:	3/31/2014

Project: **20140277.A7E QA Residential Rehab -174 Rodney Street, Waterbury**

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

			Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous		% Non-Fibrous	% Type
0331BH01A *041409001-0001*	Furnace room - furnace rib caulking compounds	Brown Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
0331BH01B *041409001-0002*	Furnace room - furnace rib caulking compounds					Insufficient Material
0331BH02A *041409001-0003*	Garage/Therapy room - sheetrock	Brown/White Fibrous Homogeneous	15%	Cellulose	85% Non-fibrous (other)	None Detected
0331BH02B *041409001-0004*	Garage/Therapy room - sheetrock	Brown/Gray Fibrous Homogeneous	20%	Cellulose	80% Non-fibrous (other)	None Detected
0331BH03A *041409001-0005*	Garage/Therapy room - taping/joint compound	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
0331BH03B *041409001-0006*	Garage/Therapy room - taping/joint compound	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
0331BH04 *041409001-0007*	Garage/Therapy room - sheetrock & taping/joint compound composite	Brown/Gray Fibrous Homogeneous	20%	Cellulose	80% Non-fibrous (other)	None Detected
0331BH05A *041409001-0008*	Garage/Therapy room - interior window glazing compound	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected

Analyst(s)
Amy Johnson (11)
Samantha Rundstorm (9)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

Initial report from 04/08/2014 07:28:01

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com cinnaslab@EMSL.com

EMSL Order:	041409001
CustomerID:	ENVI54
CustomerPO:	
ProjectID:	

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

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	04/07/14 9:00 AM
Analysis Date:	4/7/2014
Collected:	3/31/2014

Project: **20140277.A7E QA Residential Rehab -174 Rodney Street, Waterbury**

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

			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
0331BH05B *041409001-0009*	Garage/Therapy room - interior window glazing compound	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
		Sample is labled "0331BH05C" on chain of custody			
0331BH06A *041409001-0010*	Furnace room - old ceramic floor tile grout	Brown Non-Fibrous Homogeneous	5% Cellulose 5% Synthetic	90% Non-fibrous (other)	None Detected
0331BH06B *041409001-0011*	Furnace room - old ceramic floor tile grout	Brown Non-Fibrous Homogeneous	5% Cellulose 5% Synthetic	90% Non-fibrous (other)	None Detected
0331BH07A *041409001-0012*	Garage/Therapy room - concrete floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0331BH07B *041409001-0013*	Garage/Therapy room - concrete floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
0331BH08A *041409001-0014*	Exterior of building - silver paper/vapor barrier behind siding	Brown/Silver Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected
0331BH08B *041409001-0015*	Exterior of building - silver paper/vapor barrier behind siding	Brown Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (other)	None Detected

Analyst(s)
Amy Johnson (11)
Samantha Rundstorm (9)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

Initial report from 04/08/2014 07:28:01

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com cinnaslab@EMSL.com

EMSL Order:	041409001
CustomerID:	ENVI54
CustomerPO:	
ProjectID:	

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

Phone:	(860) 646-2469
Fax:	(888) 838-1160
Received:	04/07/14 9:00 AM
Analysis Date:	4/7/2014
Collected:	3/31/2014

Project: **20140277.A7E QA Residential Rehab -174 Rodney Street, Waterbury**

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

			Non-Asbestos			Asbestos
Sample	Description	Appearance	% Fibrous		% Non-Fibrous	% Type
0331BH09A *041409001-0016*	Exterior roof - asphalt roof shingles	Black Fibrous Homogeneous	15%	Glass	85% Non-fibrous (other)	**None Detected**
0331BH09B *041409001-0017*	Exterior roof - asphalt roof shingles	Black Fibrous Homogeneous	15%	Glass	85% Non-fibrous (other)	**None Detected**
0331BH09C *041409001-0018*	Exterior roof - asphalt roof shingles	Black Fibrous Homogeneous	15%	Cellulose	85% Non-fibrous (other)	**None Detected**
0331BH10A *041409001-0019*	Exterior roof - roof base sheet	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
0331BH10B *041409001-0020*	Exterior roof - roof base sheet	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**
0331BH10C *041409001-0021*	Exterior roof - roof base sheet	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	**None Detected**

Analyst(s)
Amy Johnson (11)
Samantha Rundstorm (9)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

Initial report from 04/08/2014 07:28:01

THIS IS THE LAST PAGE OF THE REPORT.

FUSS & O'NEILL

Appendix C

Lead Paint Testing Procedures and Equipment

FUSS & O'NEILL
EnviroScience, LLC

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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EnviroScience, Inc.

Appendix D

Lead Testing Field Data Sheets

FUSS & O'NEILL
EnviroScience, LLC

www.fando.com

146 Hartford Road, Manchester, CT 06040

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

LEAD INSPECTION COVER SHEET

Inspector's Information

Inspector's Name: Robert Hobbins **License Number:** 2156

XRF Model: LPA – 1B **Serial Number:** 1377

Date of Inspection: March 31, 2014 **Project Number:** 20140277.A8E

Property Information

Building Address: 174 Rodney Street
(Street)

Waterbury (City) CT (State) Age of Property: N/A

Describe Structure:

Sheetrock ceilings and walls with wood/vinyl/metal window and door systems and concrete and wood floors

Exterior vinyl/metal siding

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)

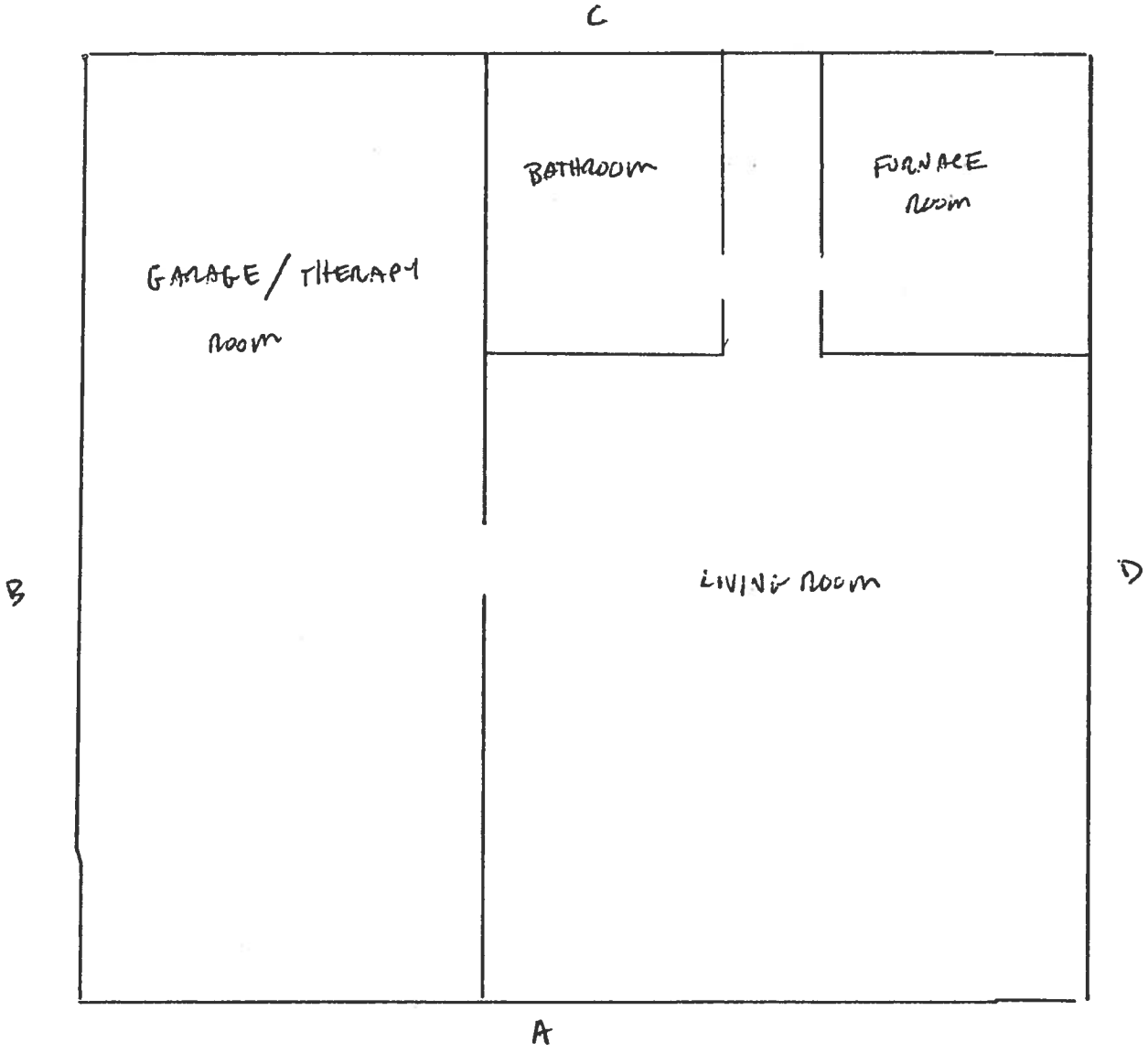
	Hour	First Reading	Second Reading	Third Reading	Average
First Check	0920	1.1	1.2	1.1	1.13
Second Check	1130	1.0	1.2	1.2	1.13
Third Check	1300	1.3	1.1	1.0	1.13
Fourth Check					

FUSS & O'NEILL

Prepared By	Date	Checked By	Date	Project No

Sheet No
of

FIRST FLOOR



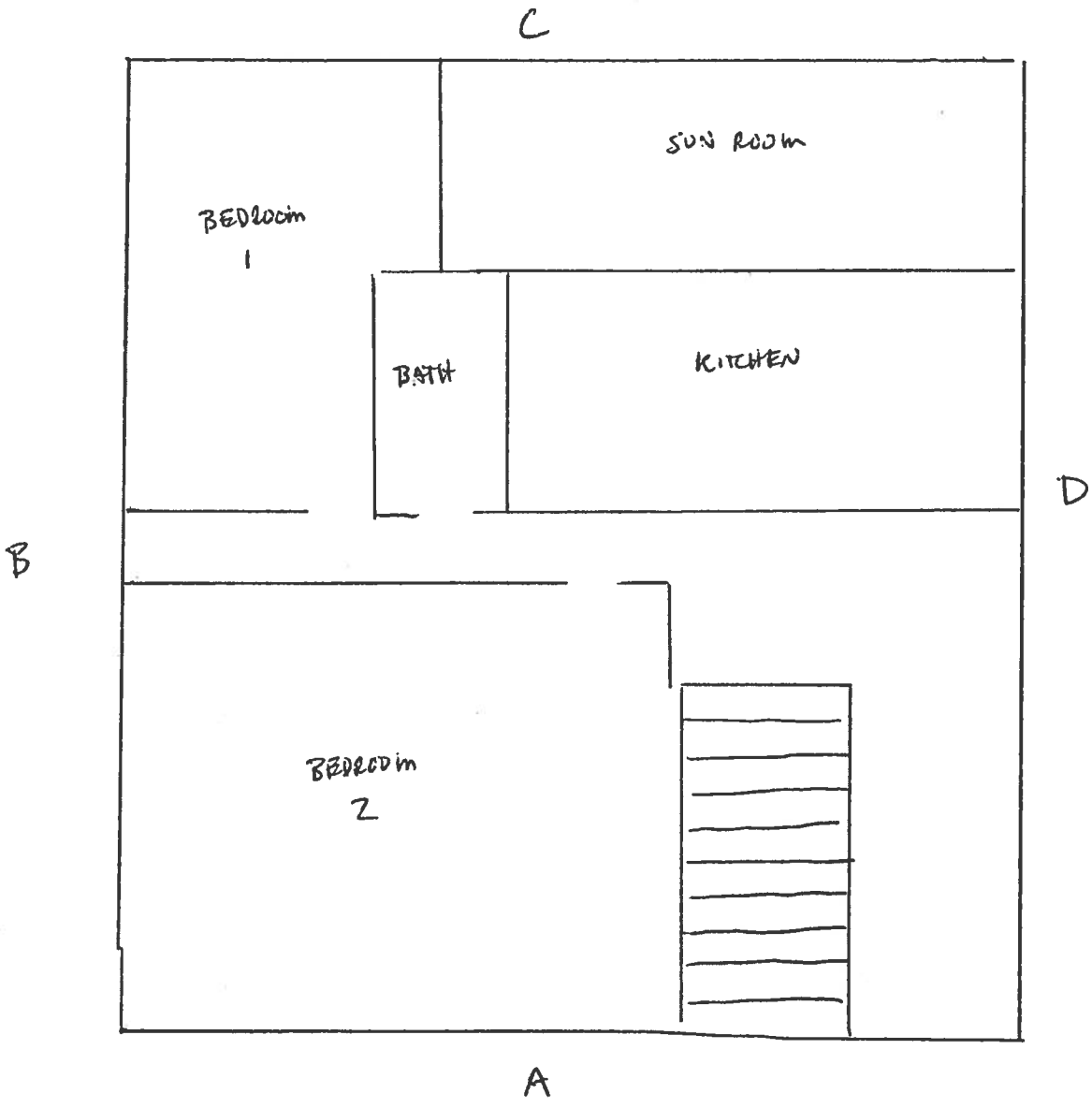
RODNEY STREET

FUSS & O'NEILL

Prepared By	Date	Checked By	Date	Project No

Sheet No
of

2ND FLOOR



RODNEY STREET

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 – INTERIOR ROOM

Address: 174 Rodney Street, Waterbury, CT **Apt. #:**_____

Floor: 1ST. **Room:** Living Rm **Page** 1 **of** 14

Project Name: 174 Rodney Street **Project Number:** 20140277.A7E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	-0.0		SR					
B	Wall	0.0		SR					
C	Wall	0.0		SR					
D	Wall	-0.1		SR					
	Chair rail								
	Ceiling	0.1		SR					
	Crown Molding								
	Door								
	Casing								
	Jamb								
	Door	-0.0		W					
	Casing	0.0		W					
	Jamb	-0.1		W					
	Window Trim	0.1		W					
	Sill	-0.1		W					
	Sash	0.0		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

Notes: _____

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 – INTERIOR ROOM

Address: 174 Rodney Street, Waterbury, CT **Apt. #:**

Floor: 1st **Room:** Bath / Furnace Rm **Page** 2 **of** 14

Project Name: 174 Rodney Street **Project Number:** 20140277.A7E

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

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

Notes:

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 – INTERIOR ROOM

Address: 174 Rodney Street, Waterbury, CT **Apt. #:**

Floor: 1ST. **Room:** Bath **Page** 3 **of** 14

Project Name: 174 Rodney Street **Project Number:** 20140277.A7E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	-0.0		SR					
B	Wall	0.0		SR					
C	Wall	0.1		SR					
D	Wall	-0.0		SR					
	Chair rail								
	Ceiling	0.0		SR					
	Crown Molding								
	Door	0.0		W					
	Casing	0.0		W					
	Jamb	-0.0		W					
	Door								
	Casing								
	Jamb								
	Window Misc	-0.0		vinyl					
	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

Notes:

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 – INTERIOR ROOM

Address: 174 Rodney Street, Waterbury, CT **Apt. #:**

Floor: 1ST. **Room:** Garage Hallway **Page** 4 **of** 14

Project Name: 174 Rodney Street **Project Number:** 20140277.A7E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor	0.0							
	Baseboards								
A	Wall	0.1		SR					
B	Wall	-0.0		SR					
C	Wall	0.0		SR					
D	Wall	0.1		SR					
	Chair rail								
	Ceiling	-0.0		SR					
	Crown Molding								
	Door	0.3							Garage Door
	Casing								
	Jamb								
	Door	0.1		M					
	Casing	0.1		M					
	Jamb	0.0		M					
	Window ~~Trim~~	-0.0		Vinyl.					
	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

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 174 Rodney Street, Waterbury, CT **Apt. #:**

Floor: 2nd **Room:** BDR 1 **Page** 5 **of** 14

Project Name: 174 Rodney Street **Project Number:** 20140277.A7E

Project Manager: 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	0.1		SR					
B	Wall	-0.1		SR					
C	Wall	0.1		SR					
D	Wall	-0.0		SR					
	Chair rail								
	Ceiling	-0.1		SR					
	Crown Molding								
	Door	0.0		W					
	Casing	0.1		W					
	Jamb	-0.1		W					
	Door								
	Casing								
	Jamb								
	Window Trim	0.1		W					
	Sill	-0.0		W					
	Sash	0.1		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

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 174 Rodney Street, Waterbury, CT **Apt. #:**

Floor: 2nd **Room:** kitchen **Page** 6 **of** 14

Project Name: 174 Rodney Street **Project Number:** 20140277.A7E

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

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

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 174 Rodney Street, Waterbury, CT **Apt. #:**

Floor: 2nd **Room:** Sunroom **Page** 7 **of** 14

Project Name: 174 Rodney Street **Project Number:** 20140277.A7E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	0.1		SR					
B	Wall	0.1		SR					
C	Wall	0.2		SR					
D	Wall	0.1		SR					
	Chair rail								
	Ceiling	0.1		SR					
	Crown Molding								
	Door	0.1		W					
	Casing	0.1		W					
	Jamb	0.0		W					
	Door								
	Casing								
	Jamb								
	Window Trim	0.1		W					
	Sill	0.2		W					
	Sash	0.1		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

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 174 Rodney Street, Waterbury, CT **Apt. #:**

Floor: 2nd **Room:** BDR 2 **Page** 8 **of** 14

Project Name: 174 Rodney Street **Project Number:** 20140277.A7E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall	0.1		SR					
B	Wall	0.2		SR					
C	Wall	-0.1		SR					
D	Wall	-0.1		SR					
	Chair rail								
	Ceiling	0.0		SR					
	Crown Molding								
	Door	0.1		W					
	Casing	0.0		W					
	Jamb	0.2		W					
	Door								
	Casing								
	Jamb								
	Window Trim	0.2		W					
	Sill	-0.1		W					
	Sash	-0.0		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

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 174 Rodney Street, Waterbury, CT **Apt. #:**

Floor: 2nd **Room:** Bath **Page** 9 **of** 14

Project Name: 174 Rodney Street **Project Number:** 20140277.A7E

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

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

Notes:

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XRF FIELD DATA SHEET – INTERIOR ROOM

Address: 174 Rodney Street, Waterbury, CT **Apt. #:**

Floor: STAIRWELL **Room:** **Page** 10 **of** 14

Project Name: 174 Rodney Street **Project Number:** 20140277.A7E

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

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Floor								
	Baseboards								
A	Wall								
B	Wall	0.1		SR					
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 Tread	0.1		W					
	RISER	0.2		W					
	Stringer	0.1		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:

Bannister 0.1 W

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XRF FIELD DATA SHEET – EXTERIOR OF SIDE A

Address: 174 Rodney Street, Waterbury, CT **Page** 11 **of** 14

Project Name: 174 Rodney Street **Project Number:** 20170277.A8E

Project Manager: McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board	0.1		V					
	Corner Boards	0.0		V					
	Siding								
	Upper Trim								
	Door	0.1		V					
	Casing	0.0		W					
	Jamb	-0.0		W					
	Threshold								
	Kick Board								
	Storm Door								
	Window Sill	0.1		W					
	Trim	0.0		W					
	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: 174 Rodney Street, Waterbury, CT **Page** 12 **of** 14

Project Name: 174 Rodney Street **Project Number:** 20170277.A8E

Project Manager: McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board								
	Corner Boards								
	Siding	~0.1		V					
	Upper Trim								
	Door	0.1		W					
	Casing	0.2		W					
	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 D

Address: 174 Rodney Street, Waterbury, CT **Page** 13 **of** 14

Project Name: 174 Rodney Street **Project Number:** 20170277.A8E

Project Manager: McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation								
	Skirt Board	0.1		V					
	Corner Boards	0.0		V					
	Siding	-0.1		V					
	Upper Trim								
	Door								
	Casing								
	Jamb								
	Threshold								
	Kick Board								
	Storm Door								
	Window Sill	0.1		W					
	Trim	0.1		W					
	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 NE C

Address: 174 Rodney Street, Waterbury, CT **Page** 14 **of** 14

Project Name: 174 Rodney Street **Project Number:** 20170277.A8E

Project Manager: McCarthy

(If Positive - Check All That Apply)

Side	Surface	XRF Readings	POS	Substrate	Defective	Chewable	Friction	Impact	Comments
	Foundation NP								
	Skirt Board	0.0		V					
	Corner Boards	0.1		V					
	Siding	-0.1		Vinyl					
	Upper Trim								
	Door	0.1		Vinyl					
	Casing	0.0		W					
	Jamb	-0.0		W					
	Threshold								
	Kick Board								
	Storm Door								
	Window Sill	0.0		W					
	Trim	0.1		W					
	Sash								
	Blind Stops								
	Storm Window								
	Basement Sash								
	Frame								
	Bulkhead								
	Downspouts								
	Porch Floor	-0.1		W					Stained
	~~Ceiling Joist~~								
	~~Lower Trim~~								
	~~Lower Railing~~								
	Balusters	0.1		W					
	Railing Cap	-0.0		W					
	Ceiling								
	Lattice								
	Lattice Frame								
	Support Columns								
	Column Base								
	Brackets								
	Hand Rails								
	Treads								
	Risers								
	Stringers								

FUSS & O'NEILL
EnviroScience

Appendix E

Airborne Radon Assessment Results and Chain of Custody

RTCA RADON TESTING CORPORATION OF AMERICA

PC1404040101

Site Radon Inspection Report

Date : 4/8/2014

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

Client: Project # 20140277.A7E
Test Location 174 Rodney Street

Waterbury, CT 06705-

Individual Canister Results

Canister ID# : 2299345
Canister Type : Charcoal Canister 3 inch
Location : Living room
Radon Level : **0.1 pCi/L**
Error for Measurement is: ± 0.2 pCi/L

Test Start : 03/31/2014 @ 11:47
Test Stop : 04/03/2014 @ 13:22
Received: 04/04/2014 @ 11:52
Analyzed: 04/04/2014 @ 14:24

Canister ID# : 2299361
Canister Type : Charcoal Canister 3 inch
Location : Garage / Therapy D
Radon Level : **2.2 pCi/L**
Error for Measurement is: ± 0.2 pCi/L

Test Start : 03/31/2014 @ 11:45
Test Stop : 04/03/2014 @ 13:24
Received: 04/04/2014 @ 11:52
Analyzed: 04/04/2014 @ 14:24

Canister ID# : 2299369
Canister Type : Charcoal Canister 3 inch
Location : Garage / Therapy - B
Radon Level : **0.1 pCi/L**
Error for Measurement is: ± 0.8 pCi/L

Test Start : 03/31/2014 @ 11:47
Test Stop : 04/03/2014 @ 13:22
Received: 04/04/2014 @ 11:52
Analyzed: 04/04/2014 @ 14:24

Canister ID# : 2299405
Canister Type : Charcoal Canister 3 inch
Location : Garage / Therapy
Radon Level : **2.2 pCi/L**
Error for Measurement is: ± 0.2 pCi/L

Test Start : 03/31/2014 @ 11:45
Test Stop : 04/03/2014 @ 13:24
Received: 04/04/2014 @ 11:51
Analyzed: 04/04/2014 @ 14:24

National Radon Safety Board NRSB Certified Radon Professionals

Andreas C. George

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

FUSS & O'NEILL
EnviroScience, LLC

4/4/14
ENVIII
DE

Radon Testing Summary Sheet

~~Housing~~ District: _____

Project # 20140277.A7E

Building: 174 Rodney Street

Address: 174 Rodney Street
Waterbury, CT 06705-

Placed by: B. Robbins

Retrieved by: Tom Cruess &

Start Date: 3-31-14

Stop Date: 4-3-14

Weather at Placement: cold, cloudy, rain

Contact/Phone #: McCarthy/203-374-3748 x3533 email result to: kmccarthy@fando.com

Instructions: Tear off center bar coded label from canister and affix to sheet in spaces provided. Please make sure top bar coded label is left on detector. Identify test location for each detector in space provided for that detector (room #, loc... ...itional sheets as ...ieval. mark clearly if any detector i...

REMOVE TH... ...ION AND AFFIX TO TEST INFORMATION FORM
2299405
REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2299405
Client
RADON TESTING CORP. OF AMERICA

Start Time: 11:45
Stop Time: 1324 X
Identifier: Garage/Therapy

RTCA CANISTER NO.
2299361
REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2299361
REMOVE THIS F... ...FFIX TO TEST INFORMA... ...ORM
2299369
REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2299369 WT
Client
RADON TESTING CORP. OF AMERICA

Start Time: 11:45
Stop Time: 1324 X
Identifier: Garage/Therapy - D

REMOVE THIS PORTION AND AFFIX TO TEST INFORMATION FORM
2299345
REMOVE THIS PORTION AND KEEP FOR YOUR RECORDS
2299345 WT
Client
RADON TESTING CORP. OF AMERICA

Start Time: 11:47
Stop Time: 1322 X
Identifier: Living Room

Start Time: [illegible]
Stop Time: [illegible]
Identifier: Garage/Therapy - B

Start Time: _____
Stop Time: _____
Identifier: _____

Start Time: _____
Stop Time: _____
Identifier: _____

Start Time: _____
Stop Time: _____
Identifier: _____

Start Time: _____
Stop Time: _____
Identifier: _____

Start Time: _____
Stop Time: _____
Identifier: _____

Start Time: _____
Stop Time: _____
Identifier: _____

56 Quarry Road, Trumbull, CT 06611
t (203) 374-3748
f (203) 374-4391
www.FandO.com

JAMES A. SEQUIN, AICP
CITY PLANNER

One Jefferson Square • 5th Floor
Waterbury, CT 06706
Office: (203) 574-6817
Fax: (203) 346-3949
Email: jsequin@waterburyct.org

NEIL M. O'LEARY
MAYOR

CITY PLANNING DEPARTMENT
THE CITY OF WATERBURY
CONNECTICUT

June 6, 2014

Mr. Stephen Ball
294 White Deer Rocks Road
Woodbury, CT 06798

RE: Wetlands Determination for Environmental Review
174 Rodney Street, Waterbury, CT

Dear Mr. Ball:

We have received your request as part of an Environmental Review that you are preparing, for a determination from the City of Waterbury Inland Wetlands and Watercourses regulatory body, as to whether or not there are wetlands and or a watercourse on a property located at 174 Rodney Street in Waterbury, CT.

There are mapped wetlands shown on the property located at 174 Rodney Street per the City of Waterbury map entitled "Designated Inland Wetlands and Watercourses of Waterbury, CT". Please note that a definitive determination regarding the actual boundary of wetland soils would have to be made by a Connecticut certified soils scientist.

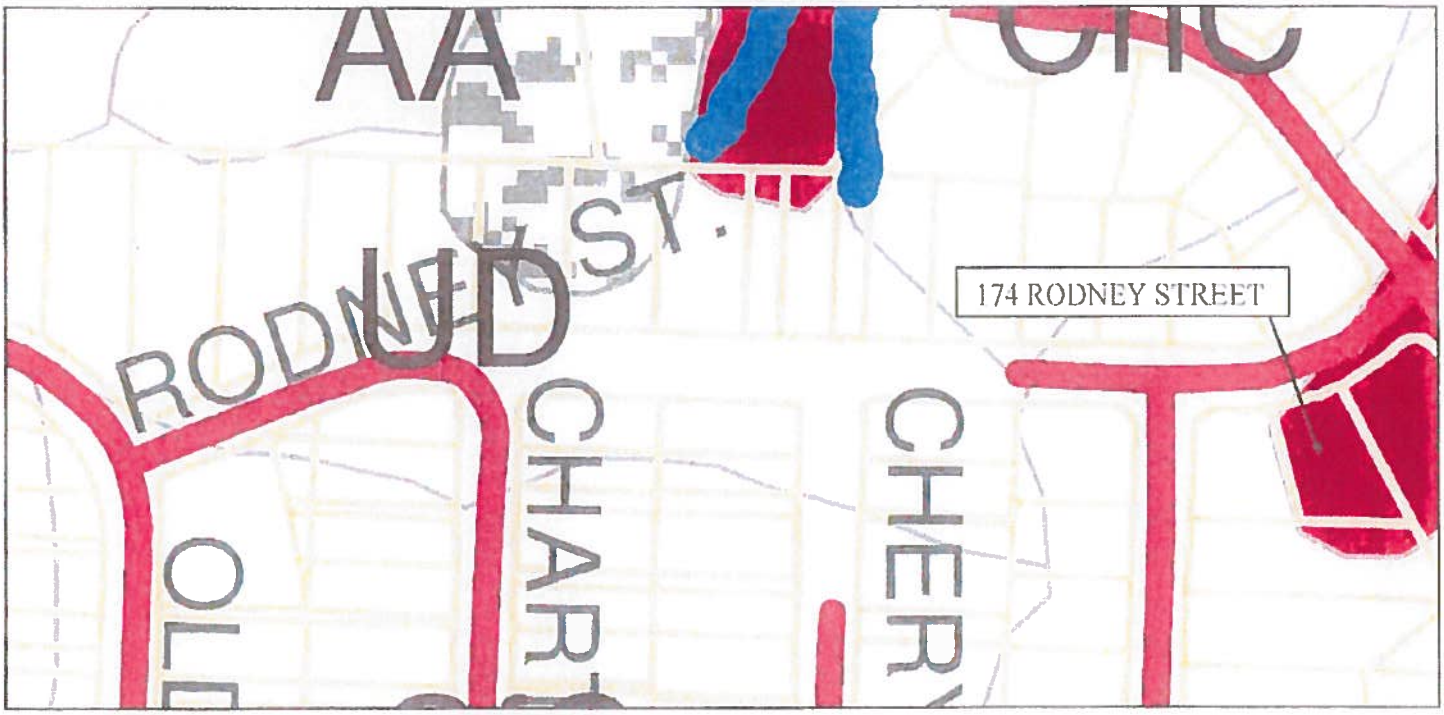
Please do not hesitate to call me at 203-574-6817 or email mbrown@waterburyct.org if you have any questions regarding this review.

Regards,

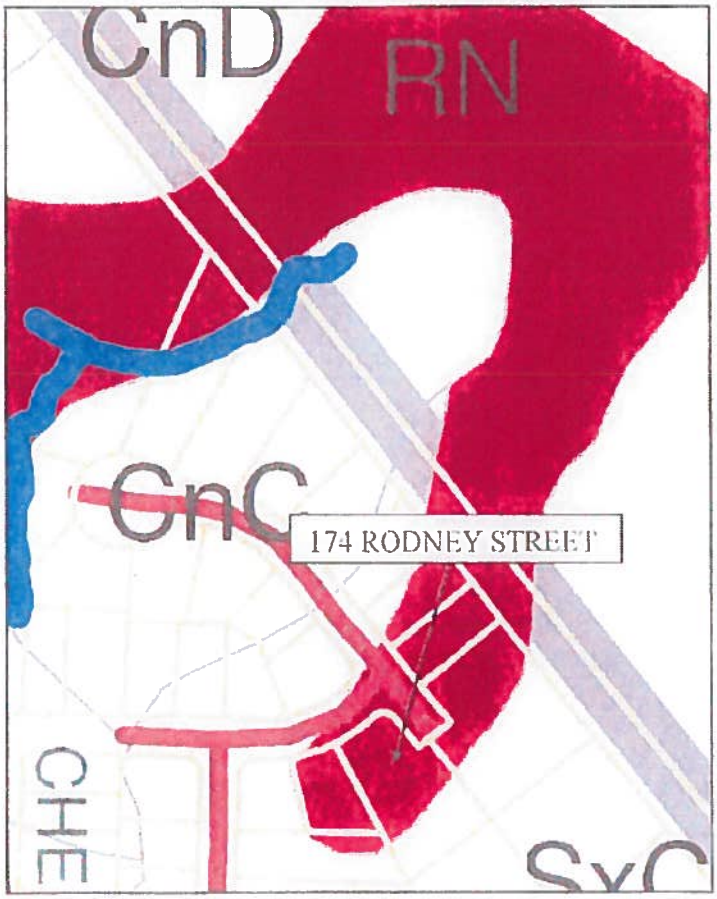
Margaret Brown

Margaret Brown
Land Use Inspector

Cc: James Sequin, Planning Director



City of Waterbury map entitled "Designated Inland Wetlands and Watercourses of Waterbury, CT



REGULATED SOIL TYPES

WATER

Alluvial Soils

- Alluvial –Pr
- Alluvial –Ps
- Alluvial –Ru

Poorly Drained Soils

- Poor –Lc
- Poor –RN
- Poor –Rd
- Poor –Wa

City of Waterbury
Public Works Department

MBL: 0264-0399-0035
ADDRESS: 174 RODNEY ST

Stephen Ball
294 White Deer Rocks Road
Woodbury, CT 06798
(203) 509-7231
stephenjball@hotmail.com

May 30, 2014

Margaret Brown
Land Use Inspector
City of Waterbury
One Jefferson Square – 5th Floor
Waterbury, CT 06706

RE: Wetlands Determination for Environmental Reviews

Dear Ms. Brown:

I am preparing Environmental Reviews on four (4)) Waterbury properties that have applied for Super Storm Sandy funding (CDBG-DR). HUD requires written review from local Inland/Wetland regulatory body as part of the Environmental Review. Please provide a written memo or letter on your letterhead letter certifying that there are / are not any mapped wetlands or watercourses on the property, based on the City of Waterbury "Designated Inland Wetlands and Watercourses" map.

The four properties are as follows:

653 Willow Street - roof replacement and Chimney repointing
174 Rodney Street - interior renovations, replace siding, roofing, decking
31 Sheldon Street - structural repairs and interior renovations
92 Rockledge Drive - Repair mold and water damage in basement

Upon completion, you can e-mail the letter/memo to me or notify me that they are available and I can pick them up.

Should you have any questions regarding this request, feel free to call me at (203) 509-7231.

Thanks,

Stephen Ball