

To: Peter Folino, Eagle Environmental, Inc.
From: Martin Brogie
Date: March 20, 2015
Re: National Environmental Policy Act (NEPA) Statutory Checklist

**225 Main St
Bridgeport, CT
Project No. 1403900-17-1000**

Dear Mr. Folino:

GEI Consultants, Inc. (GEI), at the request of Eagle Environmental Inc. (Eagle), has completed National Environmental Policy Act (NEPA) requirements associated with the rehabilitation of the above-listed property under the HUD-DR Program. GEI conducted a site-visit, reviewed information specific to the proposed, funded rehabilitation activities associated with the property, and completed a NEPA Statutory Checklist. Based on the information gathered, it appears that this project cannot convert to Exempt because one or more statutes/authorities requires consultation or mitigation. Because the property is within a floodzone and located within the designated coastal zone, CTDEEP program-wide General Permit and local zoning review are required for the project. Additionally, the State Historic Preservation Office (SHPO) determination is pending at this time. Complete consultation and asbestos and lead-based paint mitigation requirements, publish NOI/RROF and obtain Authority to Use Grant Funds (HUD 7015.16) per ss58.70 and 58.71 before drawing down funds. The completed NEPA Checklist, photos, environmental database report, and supporting maps and documents are attached.

If you have any questions, please feel free to contact me at 860.368.5408.

Sincerely,

GEI CONSULTANTS, INC.



Martin Brogie, LEP
Senior Consultant

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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/authorities requires consultation or mitigation. Complete consultation/mitigation requirements, publish NOI/RRF 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 result 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:



3/20/15

Martin Brogie, LEP
Senior Consultant, GEI Consultants, Inc.

Date

Responsible Entity or designee Signature:

Hermia Delaire, CDBG-DR Program Manager

Date

PHOTO LOG

NEPA Statutory Checklist
225 Main St
Bridgeport, CT

Photo 1: Front view of the property; photograph facing west.



Photo 2: South side of the property; photograph facing west.



Photo 3: Rear view of the property; photograph facing northwest.



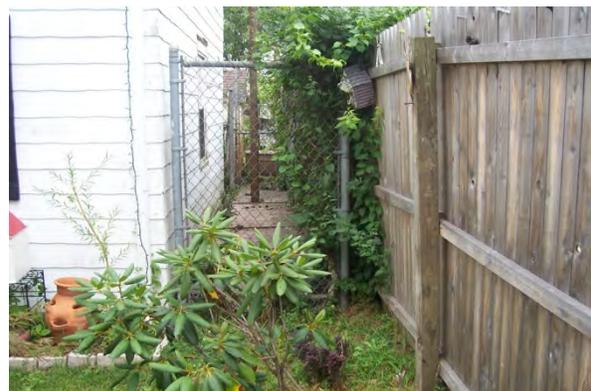
Photo 4: Rear view of the property; photograph facing north.



Photo 5: Rear view of the property; photograph facing west.



Photo 6: North side of the property; photograph facing west.





Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

SOURCE:
1. 2011 ESRI WORLD IMAGERY



SCALE: 1" = 100'

National Environmental Policy Act (NEPA) Statutory
Checklist and Environmental Assessment
225 Main Street
Bridgeport, Connecticut

Eagle Environmental, Inc.
Terryville, Connecticut



Project 1403900

SITE DETAIL

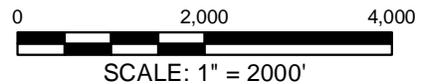
August 2014

Fig. 1



SOURCE:

1. USGS TOPOGRAPHIC MAP
BRIDGEPORT QUADRANGLE ACCESSED
VIA ARCGISONLINE.COM.



National Environmental Policy Act (NEPA) Statutory
Checklist and Environmental Assessment
225 Main Street
Bridgeport, Connecticut

Eagle Environmental, Inc.
Terryville, Connecticut

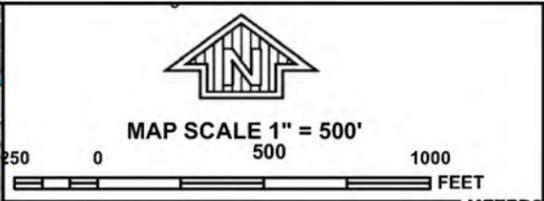
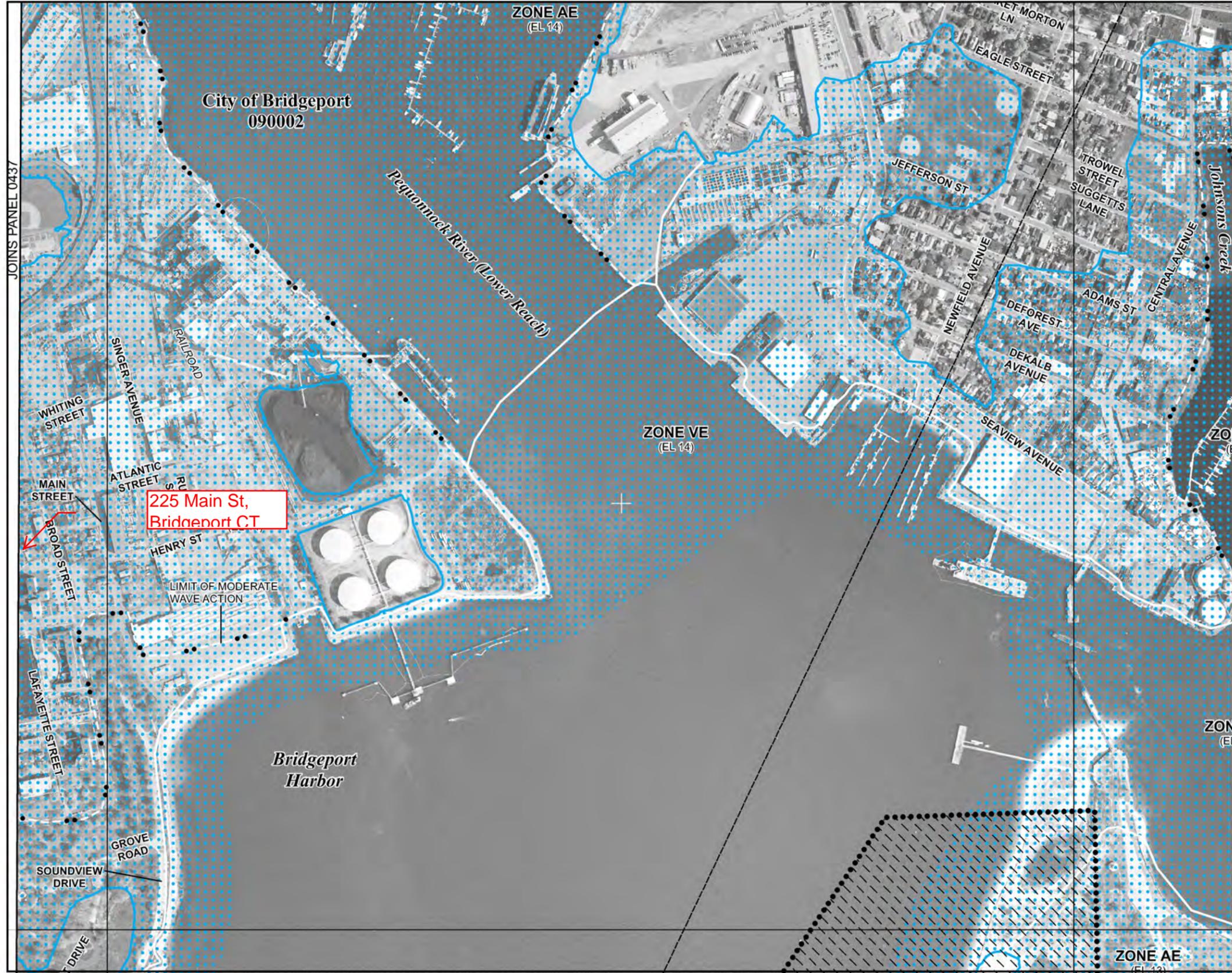


USGS TOPOGRAPHIC MAP

Project 1403900

August 2014

Fig. 2



PANEL 0441G

FIRM
FLOOD INSURANCE RATE MAP
FAIRFIELD COUNTY,
CONNECTICUT
(ALL JURISDICTIONS)

PANEL 441 OF 626
 (SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
BRIDGEPORT, CITY OF	090002	0441	G
STRATFORD, TOWN OF	090016	0441	G

-NOTE-
 THIS MAP INCLUDES BOUNDARIES OF THE COASTAL BARRIER RESOURCES SYSTEM ESTABLISHED UNDER THE COASTAL BARRIER RESOURCES ACT OF 1982 AND/OR SUBSEQUENT ENABLING LEGISLATION.

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
09001C0441G
MAP REVISED
JULY 8, 2013

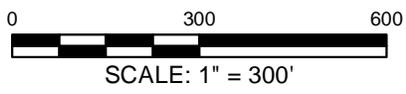

 Federal Emergency Management Agency

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

JOINS PANEL 0437



SOURCE:
 1. 2012 US FISH AND WILDLIFE (USFWS)
 NATIONAL WETLANDS INVENTORY
 WWW.FWS.GOV/WETLANDS, ACCESSED
 JULY 2014.



LEGEND

Wetland Type

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Pond

National Environmental Policy Act (NEPA) Statutory
 Checklist and Environmental Assessment
 225 Main Street
 Bridgeport, Connecticut

Eagle Environmental, Inc.
 Terryville, Connecticut

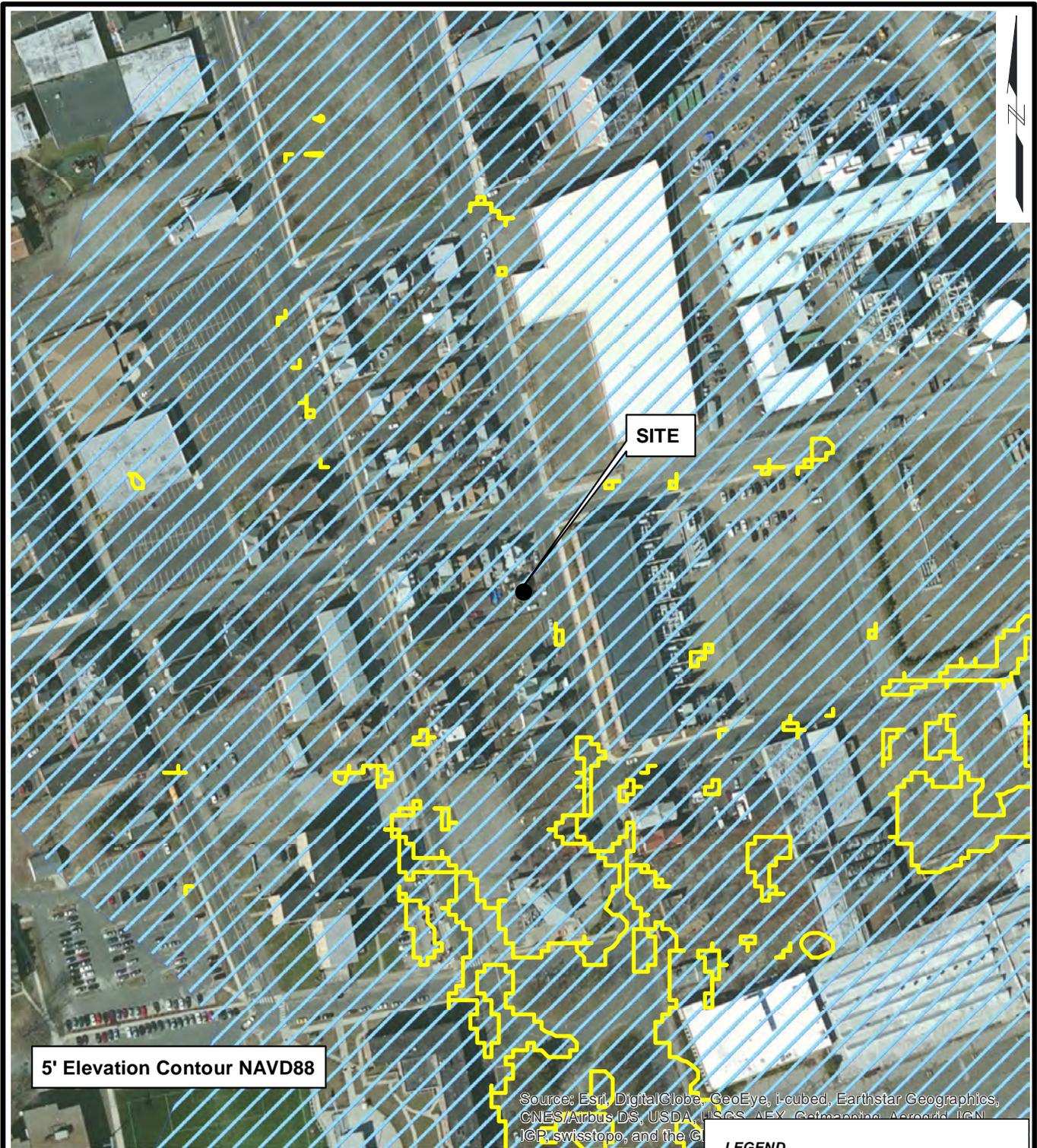


**NATIONAL WETLANDS
 INVENTORY (NWI)**

Project 1403900

August 2014

Fig. 4



5' Elevation Contour NAVD88

SOURCE:
 1. TIDAL WETLANDS (1990s)/COASTAL AREAS FROM CT DEEP GIS.
 2. CITY OF BRIDGEPORT COASTAL JURISDICTION CONTOUR DERIVED FROM CT 10 FT DEM LIDAR, UCONN CLEAR.



LEGEND

- Coastal Jurisdiction Contour
- Tidal Wetland
- Coastal Boundary

National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment
 225 Main Street
 Bridgeport, Connecticut



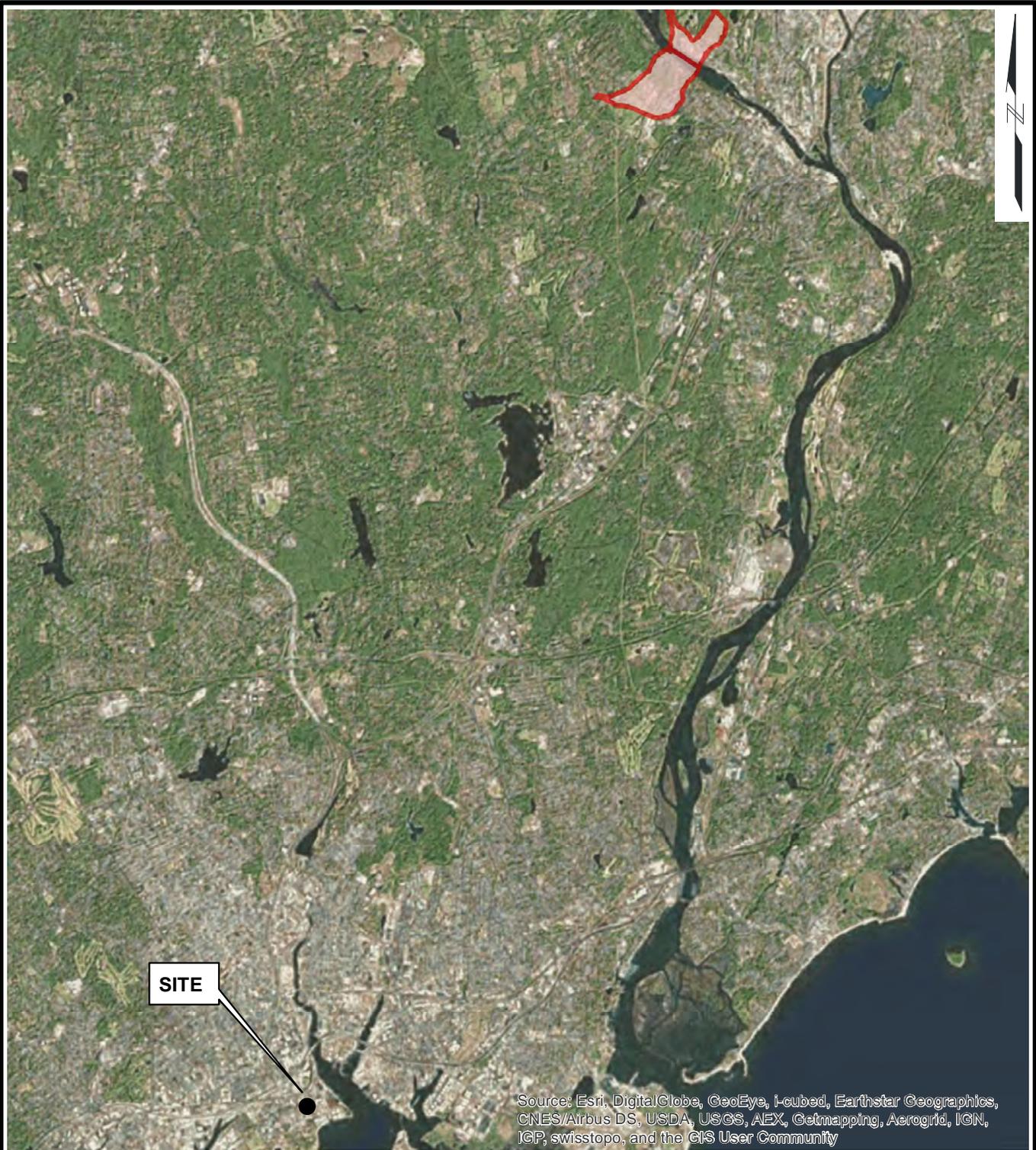
COASTAL RESOURCES

Eagle Environmental, Inc.
 Terryville, Connecticut

Project 1403900

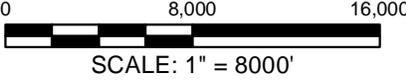
August 2014

Fig. 5



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

SOURCE:
 1. AQUIFER PROTECTION LAYER FROM CT DEEP GIS, LAST UPDATED DEC. 2013.



LEGEND
 Final Adopted Aquifer Protection

National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment
 225 Main Street
 Bridgeport, Connecticut

Eagle Environmental, Inc.
 Terryville, Connecticut



Project 1403900

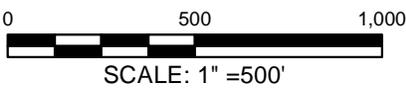
AQUIFER PROTECTION AREA

August 2014 Fig. 6



Source: Esri, DigitalGlobe, GeoEye, I-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

SOURCE:
1. NDDB DATA, CT DEEP GIS, LAST
UPDATED JUNE 2014.



LEGEND

 Natural Diversity Area

National Environmental Policy Act (NEPA) Statutory
Checklist and Environmental Assessment
225 Main Street
Bridgeport, Connecticut

Eagle Environmental, Inc.
Terryville, Connecticut



**NATURAL DIVERSITY
DATABASE AREA AND
CRITICAL HABITAT**

Project 1403900

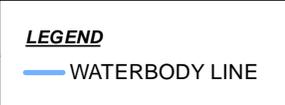
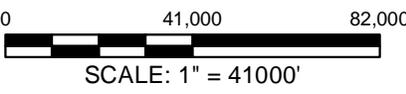
August 2014

Fig. 7



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

SOURCE:
 1. CT DEEP GIS.
 2. www.rivers.org; November 2012



National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment
 9 Cottage Place
 Bridgeport, Connecticut

Eagle Environmental, Inc.
 Terryville, Connecticut

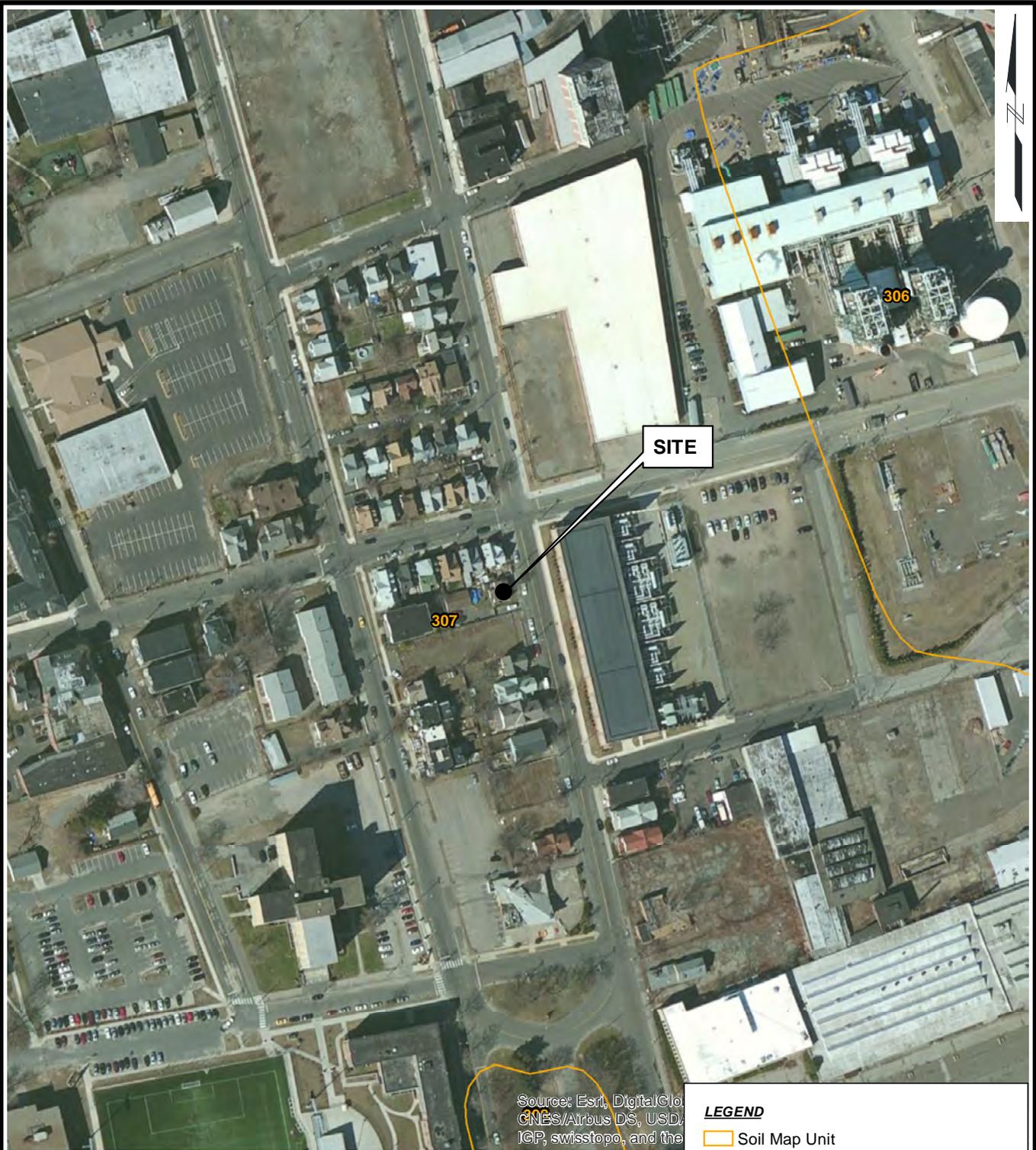


DISTANCE TO WILD AND SCENIC RIVER

Project 1403900

August 2014

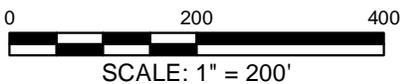
Fig. 8



Source: Esri, DigitalGlobe, GeoEye, IGN, Aeris, USDA, CNES/Airbus DS, USD, IGP, swisstopo, and the

SOURCE:

1. NRCS Soil Survey Geographic (SSURGO) database for the State of Connecticut, CT DEEP GIS



LEGEND

- Soil Map Unit
- Symbol, Description**
- 306 Udorthents-Urban land complex
- 307 Urban land
- 308 Udorthents, smoothed

National Environmental Policy Act (NEPA) Statutory Checklist and Environmental Assessment
 225 Main Street
 Bridgeport, Connecticut

Eagle Environmental, Inc.
 Terryville, Connecticut



NRCS SOILS

Project 1403900

August 2014

Fig. 9

1738 LR



Department of Economic and
Community Development



October 7, 2014

received
10-9-14

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

Subject: Department of Housing Superstorm Sandy Reviews
Application #1738
225 Main Street, Bridgeport, CT

Dear Ms. Delaire:

The State Historic Preservation Office has reviewed the information submitted for the above-named property pursuant to the provisions of Section 106 of the National Historic Preservation Act of 1966. 225 Main Street is listed as a resource in the William D. Bishop Cottage Development National Register Historic District, and therefore the project should meet the Secretary of the Interior's Standards for the Treatment of Historic Properties. We will need to review the design of the proposed elevation in order to determine the effect of the project on the state's cultural resources.

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

For further information please contact me at (860) 256-2756 or mary.dunne@ct.gov.

Sincerely,

Mary B. Dunne
Deputy State Historic Preservation Officer

State Historic Preservation Office

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

An Affirmative Action/Equal Opportunity Employer An Equal Opportunity Lender

Appendix B

DECED/SHPO/DOH Professional Certification Form

For all General Permit Applications submitted as part of the Flood Management Certification for Disaster Recovery Activities, the following certification must be signed and sealed by a professional engineer licensed to practice in Connecticut.

Property: 225 MAIN STREET BRIDGEPORT, CT	
Application Number: 201405290-FM	
"I certify that in my professional judgment, the above referenced project has been designed consistent with the Flood Management Certification for Disaster Recovery Activities as approved by DEEP and that the information is true, accurate and complete to the best of my knowledge and belief.	
I understand that a false statement made in the submitted information may, pursuant to Section 22a-6 of the General Statutes, be punishable as a criminal offense under Section 53a-157b of the General Statutes, and may also be punishable under Section 22a-438 of the General Statutes."	
Signature of Applicant	June 23, 2014 Date
Name of Applicant (print or type)	Title
	June 23, 2014 Date
Signature of Professional Engineer	Date
Andrew J. Krar	22052 P.E. Number
Name of Professional Engineer (print or type)	Affix P.E. Stamp Here
	



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-0311

May 29, 2014

Project Name: 1738 - Peace

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: 1738 - Peace

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-0311

Project Type: ** Other **

Project Description: 225 Main Street
Bridgeport, CT



United States Department of Interior
Fish and Wildlife Service

Project name: 1738 - Peace

Project Location Map:



Project Coordinates: MULTIPOLYGON (((-73.1860473 41.1676889, -73.1864362 41.1676101, -73.1864872 41.1677393, -73.1860983 41.1678221, -73.1860473 41.1676889)))

Project Counties: Fairfield, CT



United States Department of Interior
Fish and Wildlife Service

Project name: 1738 - Peace

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: 1738 - Peace

Critical habitats that lie within your project area

There are no critical habitats within your project area.



DATABASE REPORT



Project Property: 1738 255 Main St Bridgeport
255 Main St
Bridgeport CT 06604

P.O. Number:

Report Type: Screen Report

Order #: 20140707117

Requested by: GEI Consultants Inc.

Date: July 7, 2014

Ecolog ERIS Ltd.
Environmental Risk Information
Service Ltd. (ERIS)
A division of Glacier Media Inc.
P: 1.866.517.5204
E: info@erisinfo.com

www.erisinfo.com

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Notice: IMPORTANT LIMITATIONS and YOUR LIABILITY

Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as database review of environmental records.

License for use of information in Report: No page of this report can be used without this cover page, this notice and the project property identifier. The information in Report(s) may not be modified or re-sold.

Your Liability for misuse: Using this Service and/or its reports in a manner contrary to this Notice or your agreement will be in breach of copyright and contract and ERIS may obtain damages for such mis-use, including damages caused to third parties, and gives ERIS the right to terminate your account, rescind your license to any previous reports and to bar you from future use of the Service.

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Executive Summary

Property Information:

Project Property: 1738 255 Main St Bridgeport
255 Main St Bridgeport CT 06604

P.O. Number:

Coordinates:

Latitude: 41.167735
Longitude: -73.186199
UTM Northing: 4,558,963.13
UTM Easting: 652,159.54
UTM Zone: UTM Zone 18T

Elevation: 20 FT

Order Information:

Order No.: 20140707117
Date Requested: 07/07/2014
Requested by: GEI Consultants Inc.
Report Type: Screen Report

Ancillary Products:

Executive Summary: Report Summary

<i>Database</i>	<i>Searched</i>	<i>Project Property</i>	<i>Within 0.125mi</i>	<i>Total</i>
Standard Environmental Records				
Federal				
NPL	Y	0	0	0
PROPOSED NPL	Y	0	0	0
DELISTED NPL	Y	0	0	0
CERCLIS	Y	0	0	0
CERCLIS NFRAP	Y	0	0	0
CERCLIS LIENS	Y	0	0	0
RCRA CORRACTS	Y	0	1	1
RCRA TSD	Y	0	1	1
RCRA GEN	Y	0	2	2
RCRA NON GEN	Y	0	0	0
FED ENG	Y	0	0	0
FED INST	Y	0	0	0
ERNS 1982-1986	Y	0	0	0
ERNS 1987-1989	Y	0	0	0
ERNS	Y	0	2	2
FED BROWNFIELDS	Y	0	0	0
State				
SHWS	Y	0	0	0
SWF/LF	Y	0	0	0
LUST	Y	0	1	1
UST	Y	0	4	4
AST	Y	0	1	1
AUL	Y	0	2	2
VCP	Y	0	0	0
BROWNFIELDS	Y	0	0	0
CBRA BRWN	Y	0	0	0

Tribal

Database	Searched	Project Property	Within 0.125mi	Total
ILST	Y	0	0	0
IUST	Y	0	0	0
INDIAN VCP	Y	0	0	0

County *No County standard environmental record sources available for this State.*

Additional Environmental Records

Federal

FINDS/FRS	Y	0	9	9
TRIS	Y	0	0	0
HMIRS	Y	0	0	0
NCDL	Y	0	0	0
ODI	Y	0	0	0
IODI	Y	0	0	0

State

LIENS	Y	0	0	0
CT PROPERTY	Y	0	7	7
SPILLS	Y	0	59	59
CT MANIFEST	Y	0	16	16
CT MANIFEST TSDF	Y	0	0	0
CT HAZ HANDLERS	Y	0	10	10

Tribal *No Tribal additional environmental record sources available for this State.*

County *No County additional environmental record sources available for this State.*

Total: 0 115 115

Attachment E

2013 Distressed Municipalities			2013 Distressed Municipalities	
Ranked by Score			In town alphabetical order	
	Total Scores			Total Scores
Waterbury	1455	1	Ansonia	1326
Hartford	1449	2	Bridgeport	1380
New Britain	1446	3	Bristol	1261
Bridgeport	1380	4	Derby	1284
Naugatuck	1349	5	East Hartford	1246
New London	1349	6	Enfield	1227
Ansonia	1326	7	Groton	1176
Windham	1311	8	Hartford	1449
Plainfield	1296	9	Killingly	1268
Derby	1284	10	Meriden	1236
Torrington	1275	11	Montville	1136
Killingly	1268	12	Naugatuck	1349
Bristol	1261	13	New Britain	1446
North Canaan	1261	14	New Haven	1253
Sprague	1256	15	New London	1349
New Haven	1253	16	North Canaan	1261
East Hartford	1246	17	Plainfield	1296
Meriden	1236	18	Plymouth	1128
Enfield	1227	19	Putnam	1151
Winchester	1210	20	Sprague	1256
West Haven	1200	21	Torrington	1275
Groton	1176	22	Waterbury	1455
Putnam	1151	23	West Haven	1200
Montville	1136	24	Winchester	1210
Plymouth	1128	25	Windham	1311

Source:

Connecticut Department of Economic and Community Development
<http://www.ct.gov/ecd/cwp/view.asp?a=1105&q=251248>



March 20, 2015

Mr. David Holmes
Capital Studio Architects
1379 Main Street
East Hartford, CT 06108

**RE: Environmental Assessment Report
Department of Housing
CDBG-DR – Sandy Disaster Recovery Program
225 Main Street
Bridgeport, Connecticut 06604
Application #1738
Eagle Project No. 14-028.12T21**

Dear Mr. Holmes:

Please find the attached Environmental Assessment Report conducted at 225 Main Street located in Bridgeport, Connecticut (Site). The environmental assessment was performed in support of the planned renovations/repairs to the Site building under the State of Connecticut Department of Housing Community Development Block Grant – Disaster Recovery Program (Program). The assessment focused only on those areas of the building that are scheduled for renovation/repair work with the exception of the lead-based paint hazard screen, which included the interior and exterior of the entire building. The proposed scope of renovation/repair work was provided to Eagle Environmental, Inc. (Eagle) by Capital Studio Architects (CSA).

This assessment and report is intended to satisfy the review process of the National Environmental Policy Act (NEPA) Statutory Checklist Sections 13C (Lead-Based Paint), 13D (Asbestos), 13E (Radon) and 13F (Mold).

Please do not hesitate to contact us if you have any questions regarding the contents of this report.

Sincerely,
Eagle Environmental, Inc.

Report Prepared By:
Kristen Liljehult
Environmental Consultant II

Report Reviewed By:
Peter J. Folino
Project Manager

\\Eaglesvr\public\2014 Files\2014 Reports\Capital Studio Architects\Hurricane Sandy\225 Main St. - Bridgeport\225 Main St - Enviro Assessment Report.doc

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1. INTRODUCTION

On August 4, 2014, Eagle Environmental, Inc. conducted an environmental assessment of portions of the site building located at 225 Main Street in Bridgeport, Connecticut. The scope of the environmental assessment included an inspection for asbestos-containing materials, a lead-based paint hazard screen and a visual inspection for microbial contamination.

1.1 Inspection Area Description

The inspection area included those areas of the building that will be impacted by planned renovation work. The areas of inspection were determined by reviewing the planned renovation work provided in CSA's Project Scope dated June 10, 2014. For the purpose of this project the following areas were inspected:

- Crawl space
- Targeted Interior Rooms
- Exterior Facades

In addition to testing the areas of the building that will be impacted by the renovation work, a lead-based paint hazard screen was performed throughout the site building to comply with federal funding requirements for a residential building receiving Federal funding assistance under a Department of Housing and Urban Development (HUD) administered program.

A complete list of components that were tested may be found in the XRF Lead Inspection Detailed Report in Appendix 4.

2. SCOPE OF INSPECTION

2.1 Asbestos Containing Materials

The asbestos inspection was conducted to identify and sample suspect asbestos-containing materials within the areas of proposed renovation or repair work. Although federal regulations requiring asbestos inspection do not pertain to a residential structure containing less than five (5) units, demolition or renovation activities which may disturb asbestos would be unauthorized under the State of Connecticut Department of Public Health (DPH) regulations. Disposal of asbestos containing waste in unauthorized landfills is also prohibited. The inspection was performed to facilitate compliance with these applicable abatement and disposal regulations.

The asbestos inspection was performed by Hannah Hintz; a State of Connecticut licensed Asbestos Inspector (license #000816).

2.2 Lead-based Paint

A lead-based paint hazard screen was performed at the site building to comply with the Department of Housing and Urban Development (HUD) Lead Safe Housing Rule (24 CFR 35) for a residential property receiving Federal rehabilitation assistance under a program administered by HUD.

Certain lead-based paint requirements apply to each project depending on the level of Federal Funding allocated. The lead-based paint requirements include the following for each level of funding:

1. Residential property receiving \$5,000 or less per unit (Not Applicable to this Project):
 - a. Conduct lead-based paint testing or presume all painted surfaces contain toxic levels of lead-based paint. If lead-based paint testing confirms that the painted surfaces are not coated with lead-based paint, lead safe work practices and clearances are not required.
 - b. Conduct a risk assessment in each unit receiving Federal funds, in common areas and the exteriors.
 - c. Interim control measures may be utilized throughout the building
 - d. Lead safe work practices are to be utilized during rehabilitation work that will disturb painted surfaces.
 - e. After the completion of any rehabilitation work that has disturbed painted surfaces, clearances are to be performed.
2. Residential property receiving between \$5,000 and \$25,000 per unit:
 - a. Conduct lead-based paint testing or presume all painted surfaces contain toxic levels of lead-based paint. If lead-based paint testing confirms that the painted surfaces are not coated with lead-based paint, lead safe work practices and clearances are not required.
 - b. Lead safe work practices are to be utilized during rehabilitation work that will disturb lead-based painted surfaces.
 - c. Perform interim controls on all lead hazards identified during the lead hazard screen.
 - d. Perform clearance testing following interim control work and renovations.
 - e. Provide notice of lead-hazard reduction within 15 days of completion of work.
3. Residential property receiving greater than \$25,000 per unit:
 - a. Conduct lead-based paint testing or presume all painted surfaces contain toxic levels of lead-based paint. If lead-based paint testing confirms that the painted surfaces are not coated with lead-based paint, lead safe work practices and clearances are not required.
 - b. Conduct a risk assessment in each unit receiving Federal funds, in common areas and the exteriors.
 - c. Abate all interior lead-based paint hazards identified during the lead inspection/risk assessment. Interim controls are acceptable on

exterior surfaces that are not disturbed by rehabilitation and on paint-lead hazards that are below the de minimus levels.

- d. Lead safe work practices are to be utilized during rehabilitation work that will disturb painted surfaces.**
- e. Perform clearance testing following abatement work.**
- f. Provide notice of lead-hazard reduction within 15 days of completion of work.**

The lead-based paint hazard screen was performed by Kristen Liljehult; a State of Connecticut licensed Lead Inspector/Risk Assessor (license # 002206).

In addition to HUD's Lead Safe Housing Rule, the State of Connecticut Department of Public Health Lead Poisoning Prevention and Control regulations apply when a child under the age of six (6) years old lives in the residence at the time of the inspection. The lead hazard screen was performed in accordance with State requirements, where applicable. There were no children under six (6) years of age residing in the dwelling at the time of inspection.

2.3 Radon Testing

Radon testing for this program is performed on a case-by-case basis. Building's which are constructed on piers with its lowest level not in contact with the ground are not considered for Radon testing.

Buildings, which are not elevated off the ground, are tested for Radon under this Program. Radon testing is performed to comply with the National Environmental Policy Act (NEPA).

At a minimum, the Indoor Radon Potential Map of Connecticut was reviewed to determine each sites geographic location in respect to indoor Radon potential.

2.4 Mold Inspection

Eagle performed a visual inspection for the presence of suspect mold within the inspection areas. The inspection included an investigation for signs of visible microbial growth including discoloring of building materials, mal odors and water intrusion that may inhibit microbial growth. The inspection was visual in nature and did not include any sampling or destructive investigations behind rigid walls or ceilings.

3. INSPECTION PROTOCOLS

3.1 Asbestos Containing Materials

3.1.1 Inspection

The asbestos-containing materials (ACM) inspection included the accessible interior and exterior portions of the building that will potentially be impacted by the proposed renovation/repair work. The inspection did not include areas outside of the proposed renovation/repair work areas.

Semi-destructive testing techniques were utilized during the inspection process. This included removing small pieces of suspect materials for analysis (bulk sampling). Only those building materials that will be impacted by the proposed renovation/repair work were sampled. Wood, glass, metal and fiberglass are not defined as suspect materials and are not sampled.

During the inspection, suspect materials are located, sampled, quantified and the friability of the material is determined. Friable materials are those materials that hand pressure can crumble, pulverize or reduce to powder when dry.

An estimated quantity of identified ACM is provided for positive materials only. The materials are quantified in linear or square feet, depending on the nature of the material.

3.1.2 Bulk Sampling

During the sampling process, suspect ACM is separated into three (3) USEPA categories. These categories are: Thermal System Insulation (TSI), Surfacing Materials (SURF), and Miscellaneous materials (MISC). TSI includes all materials used to prevent heat loss or gain or water condensation on mechanical systems. Examples of TSI are pipe covering, boiler insulation, duct wrap, and mudpack fitting cement. Surfacing ACM includes all ACM that is sprayed, toweled or otherwise applied to an existing surface. These applications are most commonly used in fireproofing, decorative, and acoustical applications. Miscellaneous materials include all ACM not listed in thermal or surfacing, such as linoleum, vinyl asbestos flooring, and ceiling tile.

Bulk sampling was performed in a random method. Bulk sampling methods and number of samples collected meets or exceeds the USEPA requirements.

3.1.3 Bulk Sample Analysis

The samples of the suspect asbestos containing materials were sent to a State of Connecticut Department of Public Health (DPH) approved laboratory for analysis by Polarized Light Microscopy (PLM). PLM is the USEPA accepted method of analysis for identification of asbestos in bulk matrixes. Samples are collected individually or in sets. When sets of samples are collected, each set is systematically analyzed until one sample is determined to contain asbestos. Upon the determination of the presence of asbestos in one sample in the set, analysis of the remaining samples in the set is discontinued. If no asbestos is observed during analysis of the set of samples, the suspect material is determined to be negative for asbestos content.

Sample analysis results are reported in percentage of asbestos and non-asbestos components. The USEPA defines any material that contains greater than one percent asbestos, utilizing PLM, as being an asbestos-containing material (ACM). Suspect materials containing greater than one percent (1%) asbestos utilizing the PLM Point Count Method and the NOB TEM method are also considered to be asbestos-containing. Materials determined to contain greater than one percent (1%) asbestos is regulated by the USEPA, the State of Connecticut Department of Public Health and Department of Energy and Environmental Protection and the United States Department of Labor. Sample results indicating "no asbestos detected" (NAD) are specified as non-asbestos containing materials. Samples results indicating "Did Not Analyze" (DNA) are not analyzed due to the stop on first positive request to the laboratory.

3.1.3.1 Friable ACM Analysis

Certain samples of friable materials shown to contain less than 10% asbestos are analyzed further by the "Point Count Method". This procedure is recommended by the United States Environmental Protection Agency to confirm friable bulk samples shown to have less than 10% asbestos by PLM to be definitively negative or positive for asbestos. This method is accepted as providing statistically reliable results when analyzing bulk samples with very low asbestos concentrations. Friable materials containing "Trace" or "less than one percent (1%)" asbestos must be analyzed by the PLM Point Count Method. No samples were further analyzed by the PLM Point Count Method for the 225 Main Street in Bridgeport, Connecticut.

3.1.3.2 Non Friable ACM Analysis

Certain samples of organically bound non-friable materials shown to contain "less than 1% asbestos", "TRACE" or "NAD" are recommended for analyses by the "NOB TEM ELAP 198.4 Method". This procedure is recommended by the United States Environmental Protection Agency to further evaluate non-friable organically bound materials for asbestos. Suspect materials confirmed by NOB TEM to be "less than 1% asbestos", "TRACE" or "NAD" are considered non-asbestos containing. No samples were further analyzed by the NOB TEM Method for the 225 Main Street in Bridgeport, Connecticut.

3.2 Lead-based Paint

The lead-based paint hazard screen was performed utilizing an X-Ray Fluorescence (XRF) Radiation Monitoring Device (RMD) Lead Paint Analyzer (LPA 1), serial number 2753 throughout the building.

Due to the level of proposed Federal Funding for this project (exceeding \$25,000 per unit), the lead-based paint hazard screen included testing surfaces where defective paint or surface coatings were identified. A visual inspection was performed to evaluate the condition of surface coating associated with the building. Where surface coatings were defective (peeling, chipping, flaking, etc.), paint testing was performed. Component and surface locations are identified by side designations represented by the letters "A", "B", "C", and "D". The "A" side is considered the front of the building with the "B", "C", and "D" sides following in a clockwise order.

The data is presented on computer generated Lead Inspection Reports contained in Appendix 4. The Summary Report provides an inventory of each surface coating that contains lead at or above 1.0 mg/cm². The Detailed Report is an inventory of each tested surface on a room-by-room basis.

For the purpose of this report, lead-based paint is defined as surface coatings that contain ≥ 1.0 mg/cm² of lead by XRF.

In addition to XRF testing, dust samples are collected at the time of inspection if defective lead-based paint is identified. The exterior grounds are evaluated as well and if

bare areas of soil are identified, soil samples are collected. Any dust or soil hazards identified are incorporated into the Lead-Based Paint Hazard Reduction or Abatement Plan.

3.3 Radon Testing

The site building is planned to be raised to proper flood elevation and the lowest level of the building will not be in contact with the ground. Radon testing was not performed for this site building.

3.4 Mold Inspection

Eagle Environmental, Inc. performed a visual inspection within the limits of the inspection area for potential microbial growth. The visual inspection was performed to evaluate building materials for signs of water damage and suspect microbial growth. Building materials such as gypsum board, cellulose ceiling tiles, paper pipe coverings or duct coverings and heating, ventilation and air conditioning components were visually assessed. Only visible accessible materials were inspected within the proposed areas of renovation/repair.

Discoloration and decay of the aforementioned building materials may signify mold growth. Water damage or damp conditions may also signify suitable conditions for mold growth.

Suspect mold growth or conditions that may sustain mold growth were documented during the inspection process. In general, the location, color of suspect growth and estimated quantity of impacted building materials were recorded during the inspection process.

Eagle used an Extech Instruments Model MO290 Moisture/Humidity Meter to measure the relative moisture content of accessible representative building materials that may have been impacted by water during the storm. A "dry standard" for each component was determined by averaging the moisture measurements for materials in un-impacted areas. The "dry standard" was used as a baseline comparison to determine if the materials were wet. Moisture measurements were recorded on the Mold Moisture Reading Form.

4. INSPECTION RESULTS

4.1 Asbestos Containing Materials

During the course of the building inspection twenty-nine (29) bulk samples of suspect ACM were collected and twenty-eight (28) samples were analyzed by PLM based on the "stop on first positive" request to the laboratory.

The following materials were confirmed to be ACM:

- Cement board siding (Exterior)

The summaries of asbestos and non-asbestos materials are presented in Tables I and II respectively. The asbestos analysis laboratory reports are provided in Appendix 2.

The cement board siding is a non-friable exterior building material and is not regulated by CT DPH regulations. If any of the material is disturbed in the process of elevating the

building, it must be disposed of as ACM waste. Contractors performing work that impacts the siding must comply with the US Department of Labor's Occupational Safety and Health Administration (OSHA), the USEPA National Emission Standard for Hazardous Air Pollutants and the CT DEEP regulated waste disposal regulations.

Any suspect material not specifically identified in this report as non-ACM should be assumed to contain asbestos unless sample results prove otherwise.

All regulated friable and regulated non-friable ACM must be removed prior to renovation/repair activities. A State of Connecticut Licensed Asbestos Abatement Contractor must be retained to perform the removal work. Visual inspections and air clearances must be performed within each abatement area at the completion of the abatement work. The visual inspections and air clearances must be performed by a State of Connecticut licensed Asbestos Project Monitor. The abatement areas must meet final visual and air clearance inspection criteria prior to building renovation / demolition. Re-occupancy air monitoring is required if the building will be re-entered by any person following abatement and prior to demolition. This includes but is not limited to entry for utility disconnects, salvage, equipment removal, etc.

The Asbestos Abatement Contractor must submit a notice of asbestos abatement to the State of Connecticut Department of Public Health post marked or hand delivered ten (10) days prior to the commencement of any asbestos abatement activities involving the abatement of greater than ten (10) linear feet or twenty-five (25) square feet of asbestos-containing materials. The asbestos abatement notification satisfies the DPH regulatory requirements for demolition notification. For asbestos abatement projects involving less than ten (10) linear feet or twenty-five (25) square feet of asbestos-containing materials or projects where no regulated asbestos-containing materials are identified, the facility owner or any person who will be conducting demolition must submit a demolition notification to the State of Connecticut Department of Public Health post marked or hand delivered ten (10) days prior to the commencement of demolition activities.

4.2 Lead-based Paint

A copy of this lead-based paint hazard screen report must be provided to residence within fifteen (15) days of the evaluation. A total of forty-two (42) XRF readings were collected during the lead-hazard screen of the building. From the forty-two (42) readings, eighteen (18) were found to contain toxic levels of lead-based paint.

If the exterior cement board siding is impacted during the renovations, the substrate underneath must be assumed to contain toxic levels of lead-based paint and lead safe work practices must be used. The other components identified to contain toxic levels of lead-based paint will not impact the proposed scope of work; however, they must be addressed as part of this project. Clearances will be required in the rooms where lead abatement work is completed.

A complete inventory of tested building materials is presented in Detailed Reports contained Appendix 4.

The U.S. Department of Labor Occupation Safety and Health Administration (OSHA) regulates lead dust exposure to workers in the construction industry under 29 CFR 1926.62 Lead Exposure in Construction; Interim Final Rule. Currently, OSHA does not define a threshold level of lead in paint that may cause worker exposure. Any detectable

level of lead in paint ($>0.0 \text{ mg/cm}^2 \pm 0.3 \text{ mg/cm}^2$ by XRF or $>0.01 \%$ by AAS) requires task specific exposure monitoring. Contractors performing lead disturbing tasks on this project must comply with the OSHA Lead in Construction Standard.

4.2.1 Dust Hazards

A total of ten (10) dust wipes were collected at the time of inspection. A dust-lead hazard was identified on the Rear Entry window sill. The hazard has been incorporated into the lead abatement scope of work.

A copy of the dust sample laboratory reports may be found in Appendix 5.

4.2.2 Soil Hazards

No soil samples were collected at the time of inspection as there were no bare areas of soil identified. The homeowner should maintain the grounds in their current condition.

4.3 Radon

Radon is measured in Picocuries of radon per Liter of air or pCi/L. The USEPA has set a national action level of 4 pCi/L. Ambient concentrations of radon are approximately 0.4 pCi/L of radon for outside air. The USEPA recommends that short term tests that have results of 4 pCi/L or greater be confirmed with a second short-term test. Two short-term tests with results equal to or greater than 4 pCi/L require that radon mitigation be performed.

A review of the Indoor Radon Potential Map of Connecticut indicates a Radon Potential Rating of Low - Moderate (16%). The Radon Potential Rating indicates the percentage of tested homes in this geographical area with basement air radon greater than or equal to 4.0 pCi/l (USEPA Action Level for Radon)

Radon testing was not performed at this Site since the building will be elevated and the lowest level of the building will not be in contact with the ground.

4.4 Mold

The physical inspection identified no signs of visible mold growth, water staining or odors throughout the dwelling. The homeowner had new flooring, sheetrock, insulation and wiring done within the first floor of the dwelling after the storm event.

The mold inspection forms are provided in Appendix 7.

5. COST ESTIMATES

The cost estimates include only the abatement or remediation work necessary to support the renovation/repair work. Other regulated or hazardous materials may be present and were not inspected for under this scope of services and are not included within the estimate.

This is a budgetary opinion of cost that is expected to be within -15 to + 30 percent of the actual cost. Eagle Environmental, Inc. has no control over the cost of labor, materials, equipment or services furnished by others, or over the Contractor or Contractors' methods of determining prices, or over competitive bidding or market conditions. Eagle Environmental, Inc.'s opinion of probable cost of abatement are made on the basis of

Eagle Environmental, Inc.'s experience and qualifications and represent Eagle Environmental, Inc.'s judgment as an experienced and qualified consultant familiar with the abatement industry; but Eagle Environmental, Inc. cannot and does not guarantee that proposals, bids or actual Total Project or Abatement Cost will not vary from opinions of probable cost prepared by Eagle Environmental, Inc. If, prior to the bidding or negotiating phase, the Owner wishes greater assurance as to Total Project or Abatement Cost, the Owner shall employ an independent cost estimator.

The cost estimates are provided in Appendix 8.

TABLE I
ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

TABLE I
ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
225 MAIN STREET
BRIDGEPORT, CONNECTICUT

LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			ESTIMATED QUANTITY	F/NF	
				PLM	PLM/PC	TEM/NOB			ACM
Façade A, B, C, D	Cement board siding	8-4-HH-26	MISC	22% Chrys			YES	2700 SF	NF
		8-4-HH-27		DNA					
KEY									
DNA = DID NOT ANALYZE									
NAD = NO ASBESTOS DETECTED									
F = FRIABLE									
NF = NON-FRIABLE									
TSI = THERMAL SYSTEMS INSULATION									
SURF = SURFACING MATERIAL									
MISC = MISCELLANEOUS MATERIAL									
ANALYTICAL METHODS									
PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT									
TEM NOB = NEW YORK ELAP 198.4 METHOD									
PLM = EPA 600/R-93/116									
PS = Previously Sampled									
EA = Each									
BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION									

TABLE II

NON ASBESTOS-CONTAINING MATERIALS SUMMARY TABLE

TABLE II
NON - ASBESTOS CONTAINING MATERIALS
SUMMARY TABLE
225 MAIN STREET
BRIDGEPORT, CONNECTICUT

SAMPLE LOCATION(S)	MATERIAL TYPE	SAMPLE NUMBER	CATEGORY	BULK SAMPLE ANALYSIS RESULTS			
				PLM	PLM PC	TEM NOB	ACM
Crawl Space	White plaster debris at crawl space floor	8-4-HH-01	SURF	NAD			NO
		8-4-HH-02		NAD			
		8-4-HH-03		NAD			
Kitchen	Original sheetrock	8-4-HH-04	MISC	NAD			NO
		8-4-HH-05		NAD			
Room 006, Pantry	White joint compound associated with original sheetrock	8-4-HH-06	MISC	NAD			NO
		8-4-HH-07		NAD			
Room 008, Pantry	Replacement sheetrock	8-4-HH-08	MISC	NAD			NO
		8-4-HH-09		NAD			
Room 010, Pantry	Yellow joint compound associated with replacement sheetrock	8-4-HH-10	MISC	NAD			NO
		8-4-HH-11		NAD			
Pantry, Mechanical Room	Granite pattern self-stick vinyl floor tile	8-4-HH-12	MISC	NAD			NO
		8-4-HH-13		NAD			
Mechanical Room	Insulation backing paper	8-4-HH-14	MISC	NAD			NO
		8-4-HH-15		NAD			
Mechanical Room, Façade A	Thick tar vapor barrier paper over wood siding	8-4-HH-16	MISC	NAD			NO
		8-4-HH-17		NAD			
Mechanical Room	Brown paper vapor barrier paper under wood siding	8-4-HH-18	MISC	NAD			NO
		8-4-HH-19		NAD			
Mechanical Room	Fire board insulation at furnace	8-4-HH-20	MISC	NAD			NO
		8-4-HH-21		NAD			
Bathroom	Stone pattern self-stick vinyl floor tile	8-4-HH-22	MISC	NAD			NO
		8-4-HH-23		NAD			
Stair well	Self-stick vinyl floor tile under granite pattern floor tile	8-4-HH-24	MISC	NAD			NO
		8-4-HH-25		NAD			
Façade C	Black vapor barrier paper under vinyl siding and foam insulation	8-4-HH-28	MISC	NAD			NO
		8-4-HH-29		NAD			
KEY				ANALYTICAL METHODS			
DNA = DID NOT ANALYZE				PLM PC = EPA 600/R-93/116 QUANTITATION 400 POINT COUNT			
NAD=NO ASBESTOS DETECTED				TEM NOB = NEW YORK ELAP 198.4 METHOD			
F = FRIABLE				PLM = EPA 600/R-93/116			
NF = NON-FRIABLE				PS = Previously Sampled			
TSI = THERMAL SYSTEMS INSULATION				EA = Each			
SURF = SURFACING MATERIAL							
MISC = MISCELLANEOUS MATERIAL							
BOLD TEXT IN "LOCATION" COLUMN INDICATES SAMPLE LOCATION							

APPENDIX 1
FLOOR PLANS

CAPITAL STUDIO ARCHITECTS

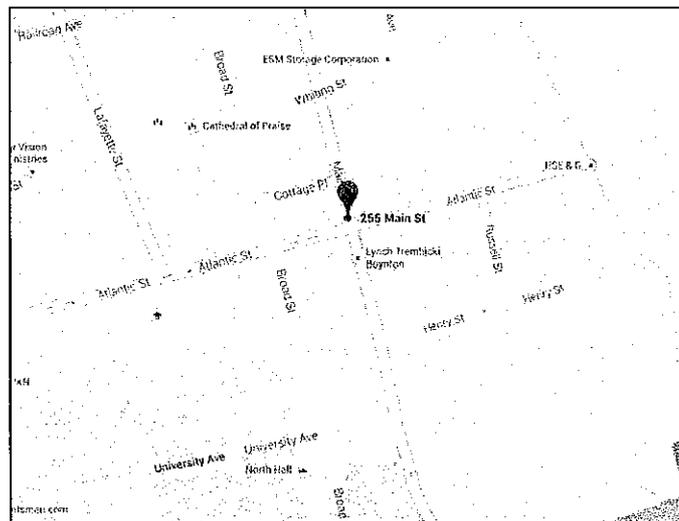
225 MAIN STREET
BRIDGEPORT, CONNECTICUT

EAGLE PROJECT NUMBER: 14-028.12T21

INDEX OF DRAWINGS

SP-1 SITE PLAN
FP-1 FIRST FLOOR PLAN
FP-2 SECOND FLOOR PLAN

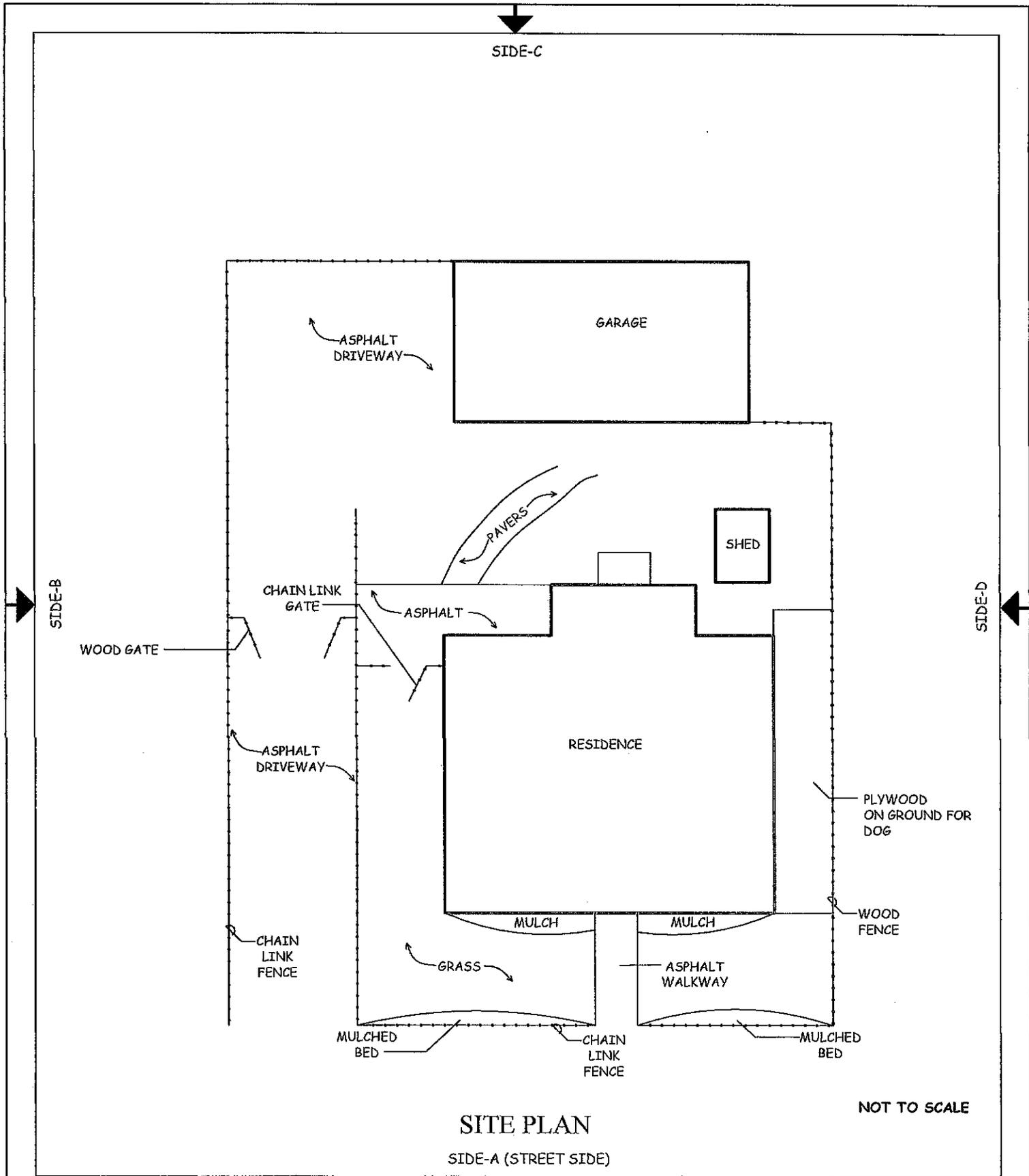
LOCATION MAP



MARCH 4, 2015



8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
860-589-8257



8 SOUTH MAIN STREET, SUITE 3
 TERRYVILLE, CONNECTICUT 06786
 860-589-8257

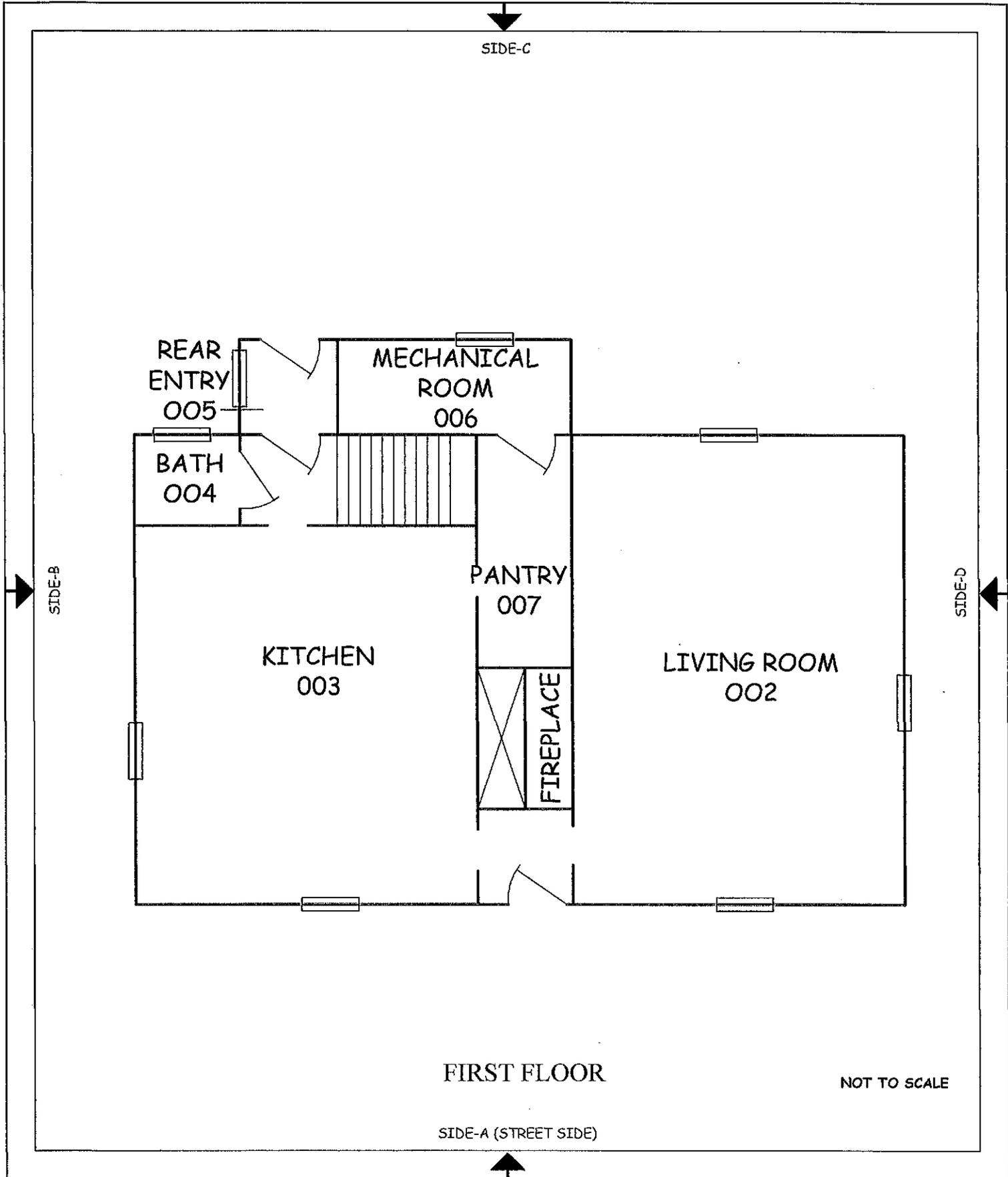
SHEET NO.

SP-1

SHEET 1 OF 3

DATE: 03/04/2015
 PROJECT NO.: 14-028.12T21
 DRAWN BY: VB
 REVIEWED BY: AH

ENVIRONMENTAL REVIEW
225 MAIN STREET
BRIDGEPORT, CONNECTICUT



FIRST FLOOR

NOT TO SCALE

SIDE-A (STREET SIDE)



EAGLE
Environmental, Inc.

8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
860-589-8257

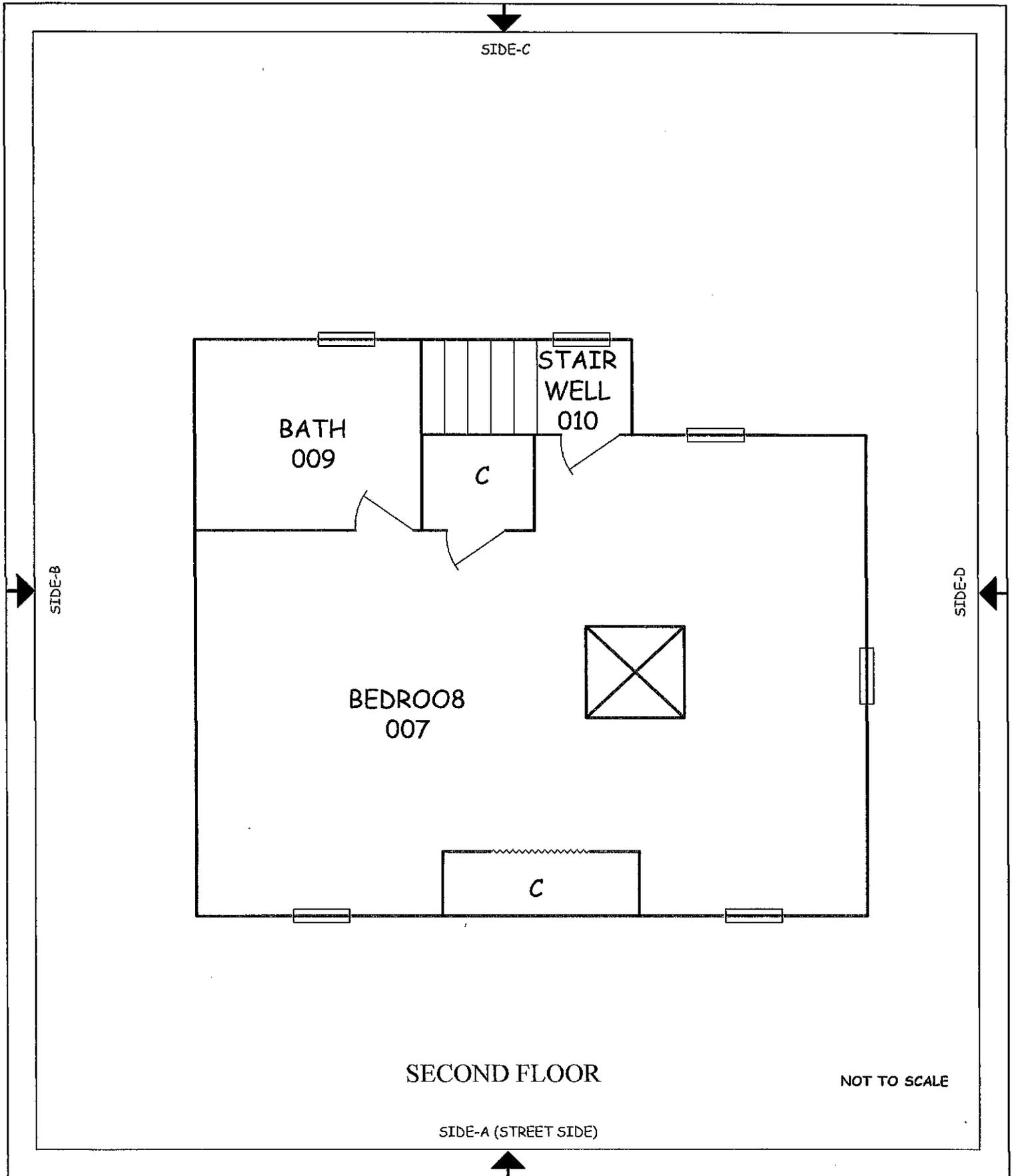
SHEET NO.

FP-1

SHEET 2 OF 3

DATE: 03/04/2015
PROJECT NO.: 14-028.12T21
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL REVIEW
225 MAIN STREET
BRIDGEPORT, CONNECTICUT



EAGLE
Environmental, Inc.

8 SOUTH MAIN STREET, SUITE 3
TERRYVILLE, CONNECTICUT 06786
860-589-8257

SHEET NO.

FP-2

SHEET 3 OF 3

DATE: 03/04/2015
PROJECT NO.: 14-028.12T21
DRAWN BY: VB
REVIEWED BY: AH

ENVIRONMENTAL REVIEW
225 MAIN STREET
BRIDGEPORT, CONNECTICUT

APPENDIX 2

ASBESTOS BULK SAMPLE LABORATORY REPORTS

031430255



EMSL - MA
7 Constitution Way, Ste 107
Woburn, MA 01801
(781) 933-8411
(781) 933-8412 Fax

EMSL - CT
29 N. Plains Hwy, Unit 4
Wallingford, CT 06492
(203) 284-5948
(203) 284-5978 Fax

EMSL - NY
307 West 38th Street
New York, NY 10018
(866) 448-3675
(212) 290-0058 Fax

EMSL - NJ
107 Haddon Avenue
Westmont, NJ 08108
(800) 220-3675
(856) 858-4960 Fax

Your Name: Brandy LeBlanc **Project Manager:** PF

Company: Eagle Environmental, Inc.

Street: 8 South Main Street, Suite 3

City/State/Zip: Terryville, CT 06786

Phone: 860-589-8257 ext. 203 **Fax:** 860-585-7034 **Email:** bleblanc@eagleenviro.com; nporter@eagleenviro.com; dwynne@eagleenviro.com; rsiach@eagleenviro.com

Project Name: CSA Super Storm Sandy **Project #:** 14-028.12T21

Project Location: 225 Main Street, Bridgeport **Project State (US):** CT

TURNAROUND TIME

3 Hours 6 Hours 24 Hours 48 Hours 72 Hours 4 Days 5 Days 6-10 Days

SAMPLE MATRIX

Air Bulk Soil Wipe Micro-Vac Drinking Water Wastewater Chips Other

ASBESTOS ANALYSIS

PCM - Air
 NIOSH 7400 (A) Issue 2: August 1994
 OSHA w/TWA

TEM AIR
 AHERA 40 CFR, Part 763 Subpart E
 NIOSH 7402 Issue 2
 EPA Level II

PLM - Bulk
 EPA 600/R-93/116 *H2*
 NY Stratified Point Count
 California Air Resource Board (CARB) 435
 NIOSH 9002
 PLM NOB (Gravimetric) NYS 198.1
 EPA Point Count (400 Points)
 EPA Point Count (1,000 Points)
 Standard Addition Point Count

SOILS
 EPA Protocol Qualitative
 EPA Protocol Quantitative
 EMSL MSD 9000 Method fibers/gram
 Superfund EPA 540-R097-028 (dust generation)

TEM BULK
 Drop Mount (Qualitative)
 Chatfield SOP-1988-02
 TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC
 ASTM D 5755-95 (Quantitative)

TEM WIPE
 ASTM D-6480-99
 Qualitative

TEM WATER
 EPA 100.1
 EPA 100.2
 NYS 198.2
 Other

LEAD ANALYSIS

Flame Atomic Absorption
 Wipe, SW846-7420 ASTM non ASTM
 Soil, SW846-7420
 Air, NIOSH 7082
 Chips, SW846-7420 or AOAC 5.009 (974.02)
 Wastewater, SW 846-7420
 TOLP LEAD SW846-1311/7420

Graphite Furnace Atomic Absorption
 Air, NIOSH 7105
 Wastewater, SW846-7421
 Soil, SW846-7421
 Drinking Water, EPA 239.2

ICP - Inductively Coupled Plasma
 Wipe, SW846-6010 ASTM non ASTM
 Soil, SW846-6010
 Air, NIOSH 7300

MATERIALS ANALYSIS

Full Particle Identification
 Optical Particle Identification
 Dust Mites and Insect Fragments
 Particle Size & Distribution
 Product Comparison
 Paint Characterization
 Failure Analysis
 Corrosion Analysis
 Glove Box Containment Study
 Petrographic Examination of Concrete
 Portland Cement in Workplace Atmospheres (OSHA ID-143)
 Man Made Vitreous Fibers - MMVF's
 Synthetic Fiber Identification
 Other

MICROBIAL ANALYSIS

Air Samples
 Mold & Fungi by Air O Cell
 Mold & Fungi by Agar Plate count & id
 Bacterial Count and Gram Stain
 Bacterial Count and Identification

Water Samples
 Total Coliforms, Fecal Coliforms
 Escherichia Coli, Fecal Streptococcus
 Legionella
 Salmonella
 Giardia and Cryptosporidium

Wipe and Bulk Samples
 Mold & Fungi - Direct Examination
 Mold & Fungi - (Culture follow up to direct examination if necessary)
 Mold & Fungi - Culture (Count & ID)
 Mold & Fungi - Culture (Count only)
 Bacterial Count & Gram Stain
 Bacterial Count & Identification (3 most prominent types)
 Other

IAQ ANALYSIS

Nuisance Dust (NIOSH 0500 & 0600)
 Airborne Dust (PM10, TSP)
 Silica Analysis by XRD NIOSH 7500
 HVAC Efficiency
 Carbon Black
 Airborne Oil Mist
 Other

Additional Information/Comments/Instructions: ****PLEASE STOP ON 1ST POSITIVE WITHIN SETS**

Client Sample # (S)	8-4-HH-01	8-4-HH-29	TOTAL SAMPLE #
Relinquished:	HANNAH HINTZ <i>Hannah Hintz</i>	Date: 8-4-2014	Time: PM
Received:	NANCY PORTER <i>Nancy Porter</i>	Date: 8-4-2014	Time: PM
Relinquished:	NANCY PORTER <i>Nancy Porter</i>	Date: 8-4-2014	Time: PM
Received:	<i>Brina Estrella</i>	Date: 8/5/14	Time: 10:01AM

H2 8:20 AM
8/6
28/29

M/08/14 *B46R*
Page 1



EMSL - MA
7 Constitution Way, Ste 107
Woburn, MA 01801
(781) 933-8411
(781) 933-8412 Fax

EMSL - CT
29 N. Plains Hwy, Unit 4
Wallingford, CT 06492
(203) 284-5948
(203) 284-5978 Fax

EMSL - NY
307 West 36th Street
New York, NY 10018
(866) 448-3675
(212) 290-0058 Fax

EMSL - NJ
107 Haddon Avenue
Westmont, NJ 08108
(800) 220-3675
(856) 858-4960 Fax

SAMPLE NUMBER	SAMPLE DESCRIPTION	ROOM or LOCATION	VOLUME Air (L)	Area (Inches sq.)
8-4-HH-01	White plaster debris at crawl space floor	Crawl		NAD
8-4-HH-02	White plaster debris at crawl space floor	Crawl		
8-4-HH-03	White plaster debris at crawl space floor	Crawl		
8-4-HH-04	Original sheetrock	Kitchen		
8-4-HH-05	Original sheetrock	Kitchen		
8-4-HH-06	White joint compound asso. w/ org. sheetrock	Rm 06		
8-4-HH-07	White joint compound asso. w/ org. sheetrock	Pantry		
8-4-HH-08	Replacement sheetrock	Rm 08		
8-4-HH-09	Replacement sheetrock	Pantry		
8-4-HH-10	Yellow joint compound assoc. w/ replacement SR	Rm 10		
8-4-HH-11	Yellow joint compound assoc. w/ replacement SR	Pantry		
8-4-HH-12	Granite pattern self-stick vinyl floor tile	Pantry		
8-4-HH-13	Granite pattern self-stick vinyl floor tile	Mech. Rm		
8-4-HH-14	Insulation backing paper	Mech. Rm		
8-4-HH-15	Insulation backing paper	Mech. Rm		
8-4-HH-16	Thick tar vapor barrier paper over wood siding	Mech. Rm		
8-4-HH-17	Thick tar vapor barrier paper over wood siding	Fac A		
8-4-HH-18	Brown paper vapor barrier paper under wood siding	Mech. Rm		
8-4-HH-19	Brown paper vapor barrier paper under wood siding	Mech. Rm		
8-4-HH-20	Fire board insulation at furnace	Mech. Rm		
8-4-HH-21	Fire board insulation at furnace	Mech. Rm		
8-4-HH-22	Stone pattern self-stick vinyl floor tile	Bath		HA 8/6 8:20AM
8-4-HH-23	Stone pattern self-stick vinyl floor tile	Bath		
8-4-HH-24	Self-stick vinyl floor tile under granite patt FT	Stair well		
8-4-HH-25	Self-stick vinyl floor tile under granite patt FT	Stair well		031430255/

Priscilla Escherich 8/5/14 10:01 AM

HA 8/6 8:20AM
1/10/14 8:40 AM

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018
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<http://www.EMSL.com> manhattanlab@emsl.com

EMSL Order: 031430255
 CustomerID: EEVM50
 CustomerPO:
 ProjectID:

Attn: **Eagle Environmental, Inc. - CT**
8 South Main Street
Suite 3
Terryville, CT 06786

Phone: (860) 589-8257
 Fax: (860) 585-7034
 Received: 08/05/14 10:01 AM
 Analysis Date: 8/6/2014
 Collected: 8/4/2014

Project: 14-028-12121/ CSA SUPER STORM SANDY/ 225 MAIN STREET/ BRIDGEPORT, CT

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
8-4-HH-01 031430255-0001	WHITE PLASTER DEBRIS/ CRAWLSPACE FLOOR - CRAWL	Gray/Tan Non-Fibrous Heterogeneous	1% Hair	65% Quartz 9% Ca Carbonate 25% Non-fibrous (other)	None Detected
8-4-HH-02 031430255-0002	WHITE PLASTER DEBRIS/ CRAWLSPACE FLOOR - CRAWL	Gray/Tan Non-Fibrous Heterogeneous	4% Hair <1% Cellulose	65% Quartz 11% Ca Carbonate 20% Non-fibrous (other)	None Detected
8-4-HH-03 031430255-0003	WHITE PLASTER DEBRIS/ CRAWLSPACE FLOOR - CRAWL	Gray/Tan Non-Fibrous Heterogeneous	3% Hair <1% Cellulose	60% Quartz 12% Ca Carbonate 25% Non-fibrous (other)	None Detected
8-4-HH-04 031430255-0004	ORIGINAL SHEETROCK / - KITCHEN	Brown/White Fibrous Heterogeneous	7% Cellulose	65% Gypsum 18% Ca Carbonate 10% Non-fibrous (other)	None Detected
8-4-HH-05 031430255-0005	ORIGINAL SHEETROCK / KITCHEN - KITCHEN	Brown/Gray Fibrous Homogeneous	5% Cellulose	25% Quartz 70% Non-fibrous (other)	None Detected
8-4-HH-06 031430255-0006	WHITE JOINT COMPOUND ASSOC. W./ ORIG. SHEETROCK - ROOM 06	White Non-Fibrous Homogeneous		65% Gypsum 25% Ca Carbonate 10% Non-fibrous (other)	None Detected
8-4-HH-07 031430255-0007	WHITE JOINT COMPOUND ASSOC. W./ ORIG. SHEETROCK - PANTRY	Brown/White Non-Fibrous Homogeneous	25% Cellulose	75% Non-fibrous (other)	None Detected

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 Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC-IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11508, NJ NY022, CT PH-0170, MA AA000170

Initial report from 08/06/2014 09:13:19

**EMSL Analytical, Inc.**

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EMSL Order: 031430255
 CustomerID: EEVM50
 CustomerPO:
 ProjectID:

Attn: **Eagle Environmental, Inc. - CT**
8 South Main Street
Suite 3
Terryville, CT 06786

Phone: (860) 589-8257
 Fax: (860) 585-7034
 Received: 08/05/14 10:01 AM
 Analysis Date: 8/6/2014
 Collected: 8/4/2014

Project: 14-028-12t21/ CSA SUPER STORM SANDY/ 225 MAIN STREET/ BRIDGEPORT, CT

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
8-4-HH-08 031430255-0008	REPLACEMENT SHEETROCK - ROOM 08	Brown/White Fibrous Heterogeneous	8% Cellulose	80% Gypsum 7% Ca Carbonate 5% Non-fibrous (other)	None Detected
8-4-HH-09 031430255-0009	REPLACEMENT SHEETROCK - PANTRY	Gray Fibrous Homogeneous	5% Cellulose 2% Glass	62% Gypsum 31% Non-fibrous (other)	None Detected
8-4-HH-10 031430255-0010	YELLOW JOINT COMPOUND ASSOC. W./ REPLACEMENT SR - ROOM 10	White Non-Fibrous Homogeneous		85% Ca Carbonate 5% Perlite 10% Non-fibrous (other)	None Detected
8-4-HH-11 031430255-0011	YELLOW JOINT COMPOUND ASSOC. W./ REPLACEMENT SR - PANTRY	White Non-Fibrous Homogeneous		90% Ca Carbonate 5% Perlite 5% Non-fibrous (other)	None Detected
8-4-HH-12 031430255-0012	GRANITE PATTERN SELF-STICK VFT - PANTRY	Brown/Gray Non-Fibrous Heterogeneous		55% Ca Carbonate 40% Matrix 5% Non-fibrous (other)	None Detected
8-4-HH-13 031430255-0013	GRANITE PATTERN SELF-STICK VFT - MECH. ROOM	Black Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (other)	None Detected
8-4-HH-14 031430255-0014	INSULATION BACK PAPER - MECH. ROOM	Tan/Black/Pink Fibrous Heterogeneous	20% Cellulose 50% Glass	15% Matrix 15% Non-fibrous (other)	None Detected
8-4-HH-15 031430255-0015	INSULATION BACK PAPER - MECH. ROOM	Brown/Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (other)	None Detected

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 Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC—IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 08/06/2014 09:13:19

**EMSL Analytical, Inc.**

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EMSL Order: 031430255

CustomerID: EEVM50

CustomerPO:

ProjectID:

Attn: **Eagle Environmental, Inc. - CT**
8 South Main Street
Suite 3
Terryville, CT 06786

Phone: (860) 589-8257
 Fax: (860) 585-7034
 Received: 08/05/14 10:01 AM
 Analysis Date: 8/6/2014
 Collected: 8/4/2014

Project: 14-028-12e21/ CSA SUPER STORM SANDY/ 225 MAIN STREET/ BRIDGEPORT, CT

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
8-4-HH-16 031430255-0016	THICK TAR VAPOR BARRIER OVER WOOD SIDING - MECH. ROOM	Black Fibrous Heterogeneous	35% Cellulose	60% Matrix 5% Non-fibrous (other)	None Detected
8-4-HH-17 031430255-0017	THICK TAR VAPOR BARRIER OVER WOOD SIDING - FAÇADE A	Black Fibrous Homogeneous	2% Cellulose	55% Matrix 43% Non-fibrous (other)	None Detected
8-4-HH-18 031430255-0018	BROWN PAPER VAPOR BARRIER UNDER WOOD SIDING - MECH. ROOM	Tan Fibrous Homogeneous	97% Cellulose	3% Non-fibrous (other)	None Detected
8-4-HH-19 031430255-0019	BROWN PAPER VAPOR BARRIER UNDER WOOD SIDING - MECH. ROOM	Brown Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (other)	None Detected
8-4-HH-20 031430255-0020	FIRE BOARD INSULATION AT FURNANCE - MECH. ROOM	Brown Fibrous Heterogeneous	4% Cellulose 76% Min. Wool	20% Non-fibrous (other)	None Detected
8-4-HH-21 031430255-0021	FIRE BOARD INSULATION AT FURNANCE - MECH. ROOM	Brown Fibrous Heterogeneous	1% Cellulose 59% Min. Wool	40% Non-fibrous (other)	None Detected
8-4-HH-22 031430255-0022	STONE PATTERN SELF-STICK VFT - BATH	Gray/Black Non-Fibrous Heterogeneous		60% Ca Carbonate 35% Matrix 5% Non-fibrous (other)	None Detected

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC-IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11508, NJ NY022, CT PH-0170, MA AA000170

Initial report from 08/06/2014 09:13:19

**EMSL Analytical, Inc.**

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EMSL Order: 031430255
 CustomerID: EEVM50
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 ProjectID:

Attn: **Eagle Environmental, Inc. - CT**
8 South Main Street
Suite 3
Terryville, CT 06786

Phone: (860) 589-8257
 Fax: (860) 585-7034
 Received: 08/05/14 10:01 AM
 Analysis Date: 8/6/2014
 Collected: 8/4/2014

Project: 14-028-12&1/ CSA SUPER STORM SANDY/ 225 MAIN STREET/ BRIDGEPORT, CT

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
8-4-HH-23 031430255-0023	STONE PATTERN SELF- STICK VFT - BATH	Black Non-Fibrous Homogeneous		15% Matrix 85% Non-fibrous (other)	None Detected
8-4-HH-24 031430255-0024	SELF-STICK VFT UNDER GRANITE PATTERN FT - STAIRWELL	Gray/Tan Non-Fibrous Heterogeneous		60% Ca Carbonate 35% Matrix 5% Non-fibrous (other)	None Detected
8-4-HH-25 031430255-0025	SELF-STICK VFT UNDER GRANITE PATTERN FT - STAIRWELL	Black Non-Fibrous Homogeneous		20% Matrix 80% Non-fibrous (other)	None Detected
8-4-HH-26 031430255-0026	CEMENT BOARD SIDING - FAÇADE A	Gray/White Fibrous Homogeneous		28% Ca Carbonate 50% Non-fibrous (other)	22% Chrysotile
8-4-HH-27 031430255-0027	CEMENT BOARD SIDING - FAÇADE A				Stop Positive (Not Analyzed)
8-4-HH-28 031430255-0028	BLACK VAPOR BARRIER PAPER UNDER SIDING AND & F. - FAÇADE C	Black Non-Fibrous Homogeneous	35% Cellulose	60% Matrix 5% Non-fibrous (other)	None Detected
8-4-HH-29 031430255-0029	BLACK VAPOR BARRIER PAPER UNDER SIDING AND & F. - FAÇADE C	Black Non-Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	None Detected

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 Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC-IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 08/06/2014 09:13:19



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EMSL Order: 031430255
CustomerID: EEVM50
CustomerPO:
ProjectID:

Attn: **Eagle Environmental, Inc. - CT**
8 South Main Street
Suite 3
Terryville, CT 06786

Phone: (860) 589-8257
Fax: (860) 585-7034
Received: 08/05/14 10:01 AM
Analysis Date: 8/6/2014
Collected: 8/4/2014

Project: 14-028-12621/ CSA SUPER STORM SANDY/ 225 MAIN STREET/ BRIDGEPORT, CT

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date:: 8/5/2014 Sample Receipt Time: 10:01 AM
Analysis Completed Date: 8/6/2014 Analysis Completed Time: 8:18 AM

Analyst(s):

Henry Akintunde PLM (10)

Steve Juszczuk PLM (18)

Samples reviewed and approved by:

James Hall, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--IHLAP Accredited #102581, NVLAP Lab Code 101048-9, NYS ELAP 11506, NJ NY022, CT PH-0170, MA AA000170

Initial report from 08/06/2014 09:13:19

APPENDIX 3

INTERIOR AND EXTERIOR VISUAL ASSESSMENT FORMS



EAGLE Environmental, Inc.

EXTERIOR VISUAL ASSESSMENT FORM

Address: 225 Main Street, Bridgeport, CT

Side: Facade A

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Siding	(A) B C D	I F (P)	XRF ⊖	
Skirt Board	A B C D	I F P		
Corner Board	A B C D	I F P		
Upper Trim	(A) B C D	I F (P)	Assumed ⊕	
Porch Column	A B C D	I F P		
Porch Floor	A B C D	I F P		
Porch Ceiling	A B C D	I F P		
Porch Trim	A B C D	I F P		
Window Casing	(A) B C D	I F (P)	XRF ⊖ - no access	
Window Stop	A B C D	I F P	to upper	
Window Jamb	A B C D	I F P	windows -	
Window Sash	A B C D	I F P	assumed ⊕	
Window Well	A B C D	I F P		
Window Sill	(A) B C D	I F (P)	XRF ⊕	
Door	A B C D	I F P		
Door Casing	(A) B C D	I F (P)	XRF ⊕	
Door Jamb	A B C D	I F P		
Foundation	A B C D	I F P		
Gutters	A B C D	I F P		
Rain Leaders	A B C D	I F P		
overhang ceil.	(A) B C D	I F (P)	XRF ⊕	
sub. fascia	(A) B C D	I F (P)		
Box Beam	(A) B C D	I F (P)	⊖	
lattice	A B C D	I F (P)		
house sill	(A) B C D	(I) F P	concrete - XRF	
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		



EAGLE Environmental, Inc.

INTERIOR VISUAL ASSESSMENT FORM

Address: 225 Main Street, Bridgeport, CT

Room No: 002 Living Room

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	(1) F P	laminated	
Wall	(A) (B) (C) (D)	(1) F P		
Ceiling	A B C D	(1) F P		
Door	A B C D	I F P		
Door Casing	A (B) C D	(1) F P		
Door Jamb	A B C D	I F P		
Baseboard	(A) (B) C D	(1) F P		
Window Casing	(A) B (C) (D)	I F P		
Window Stop	A B C D	I F P	visual window replacements ↓	
Window Jamb	A B C D	I F P		
Window Sash	A B C D	I F P		
Window Well	A B C D	I F P		
Window Sill	(A) B (C) (D)	I F P		
Window Apron	(A) B (C) (D)	I F P		
Closet Door	A B C D	I F P		
Closet Door Casing	A B C D	I F P		
Closet Door Jamb	A B C D	I F P		
Closet Shelf	A B C D	I F P		
Shelf Support	A B C D	I F P		
Radiator	A B C D	I F P		
Crown Molding	A B C D	I F P		
Cabinet	A B C D	I F P		
Cabinet Door	A B C D	I F P		
Cabinet Frame	A B C D	I F P		
Fireplace	A (B) C D	I F (P)	BACK - XRF	
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		



EAGLE Environmental, Inc.

INTERIOR VISUAL ASSESSMENT FORM

Address: 225 Main Street, Bridgeport, CT

Room No: 005 Rear Entry

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	① F P	unpainted concrete	
Wall	① A B C D	① F P	new fiberboard	
Ceiling	A B C D	① F P	" "	
Door	A B C D	I F P		
Door Casing	A B C D	I F P	} new pre-hung	
Door Jamb	A B C D	I F P		
Baseboard	A B C D	I F P		
Window Casing	A B C D	① F P		
Window Stop	A B C D	I F P		
Window Jamb	A B C D	I F P		
Window Sash	A B C D	I F P		
Window Well	A B C D	I F P		
Window Sill	A B C D	I F P		
Window Apron	A B C D	I F P		
Closet Door	A B C D	I F P		
Closet Door Casing	A B C D	I F P		
Closet Door Jamb	A B C D	I F P		
Closet Shelf	A B C D	I F P		
Shelf Support	A B C D	I F P		
Radiator	A B C D	I F P		
Crown Molding	A B C D	I F P		
Cabinet	A B C D	I F P		
Cabinet Door	A B C D	I F P		
Cabinet Frame	A B C D	I F P		
Door Cas	① A B C D	I F P	XRF	
Mag. door jamb stop	① A B C D	I F P	XRF	
pipes	A B C D	① F P	Copper	
Chairrail	① A B C D	① F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		



**INTERIOR
VISUAL ASSESSMENT FORM**

Address: 225 Main Street, Bridgeport, CT

Room No: 006 Mechanical Room

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	(1) F P		
Wall	(A) (B) (C) (D)	(1) F P	plywood studs/insulation	
Ceiling	A B C D	(1) F P	studs/insulation	
Door	(A) B C D	(1) F P		
Door Casing	(A) B C D	(1) F P		
Door Jamb	(A) B C D	(1) F P		
Baseboard	A B C D	I F P		
Window Casing	A B C D	I F P		
Window Stop	A B C D	I F P		
Window Jamb	A B C D	I F P		
Window Sash	A B C D	I F P		
Window Well	A B C D	I F P		
Window Sill	A B C D	I F P		
Window Apron	A B C D	I F P		
Closet Door	A B C D	I F P		
Closet Door Casing	A B C D	I F P		
Closet Door Jamb	A B C D	I F P		
Closet Shelf	A B C D	I F P		
Shelf Support	A B C D	I F P		
Radiator	A B C D	I F P		
Crown Molding	A B C D	I F P		
Cabinet	A B C D	I F P		
Cabinet Door	A B C D	I F P		
Cabinet Frame	A B C D	I F P		
(window framing pipes)	A B (C) D	(1) F P	vinyl window	
Exposed (aperture)	(A) B C D	(1) F P	concrete XRF	
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		



EAGLE Environmental, Inc.

INTERIOR VISUAL ASSESSMENT FORM

Address: 225 Main Street, Bridgeport, CT

Room No: 007 Pantry

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor	A B C D	① F P	plywood	
Wall	① B C D	① F P		
Ceiling	A B C D	① F P	plywood	
Door	A ① C D	① F P		
Door Casing	A ① C D	① F P		
Door Jamb	A ① C D	① F P		
Baseboard	A B C D	I F P		
Window Casing	A B C D	I F P		
Window Stop	A B C D	I F P		
Window Jamb	A B C D	I F P		
Window Sash	A B C D	I F P		
Window Well	A B C D	I F P		
Window Sill	A B C D	I F P		
Window Apron	A B C D	I F P		
Closet Door	A B C D	I F P		
Closet Door Casing	A B C D	I F P		
Closet Door Jamb	A B C D	I F P		
Closet Shelf	A B C D	I F P		
Shelf Support	A B C D	I F P		
Radiator	A B C D	I F P		
Crown Molding	A B C D	I F P		
Cabinet	A B C D	I F P		
Cabinet Door	A B C D	I F P		
Cabinet Frame	A B C D	I F P		
Shelving	① B C D	I F P	XRF	
columns	A B C D	① F P		
pipes	A B C D	① F P		
Underpan-stair	A ① C D	① F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		



EAGLE Environmental, Inc.

INTERIOR VISUAL ASSESSMENT FORM

Address: 225 Main Street, Bridgeport, CT

Room No: 010 Stairwell

COMPONENT	SIDE	RATING	NOTES	INTERIM CONTROL
Floor Landings	A B C D	(1) F P	wall tile	
Wall	(A) (B) (C) (D)	(1) F P		
Ceiling	A B C D	(1) F P		
Door	A B C D	I F P		
Door Casing	(A) (B) (C) (D)	(1) F P		
Door Jamb	A B C D	I F P		
Baseboard	(A) (B) (C) (D)	(1) F P		
Window Casing	A B (C) D	(1) F P		
Window Stop	A B (C) D	(1) F P		
Window Jamb	A B C D	I F P		
Window Sash	A B C D	I F P	visual replacement window	
Window Well	A B C D	I F P		
Window Sill	A B (C) D	(1) F P		
Window Apron	A B (C) D	(1) F P		
Closet Door	A B C D	I F P		
Closet Door Casing	A B C D	I F P		
Closet Door Jamb	A B C D	I F P		
Closet Shelf	A B C D	I F P		
Shelf Support	A B C D	I F P		
Radiator	A B C (D)	(1) F P		
Crown Molding	A B C D	I F P		
Cabinet	A B C D	I F P		
Cabinet Door	A B C D	I F P		
Cabinet Frame	A B C D	I F P		
stair treads	A B C D	I F (P)	XRF	
riser	A B C D	I F (P)	XRF	
stringer	A B C D	I F (P)	XRF	
handrail	A B C D	I F (P)	XRF	
Door Kickplate	(A) B C D	(1) F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		
	A B C D	I F P		

APPENDIX 4

XRF LEAD-BASED PAINT INSPECTION REPORTS

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: S#02753 - 08/04/14 11:26

INSPECTION FOR: Mr. David Holmes
Capital Studio Architects
1347 Main Street
East Hartford, CT 06108

PERFORMED AT: 225 Main Street
Bridgeport, CT

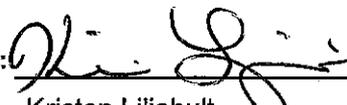
INSPECTION DATE: 08/04/14

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 02753

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: 002206

A Lead-Based Paint Screen was performed for the interiors and exteriors.

SIGNED: 

Kristen Lijehult
Lead Inspector / Risk Assessor
Eagle Environmental, Inc.
8 South Main Street, Suite # 3
Terryville, CT 06786

Date: 8/4/14

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Mr. David Holmes

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm ²)	Mode
Interior Room 007 Pantry									
009	B	Shelving	Ctr		P	Wood	white	-0.6	QM
008	D	Shelving	Ctr		P	Wood	white	-0.4	QM
Interior Room 008 Bedroom									
011	C	Closet	Ctr	Door Frame	P	Wood	white	>9.9	QM
012	C	Closet	Ctr	Stop	P	Wood	white	2.9	QM
013	C	Closet	Ctr	Door thresh	P	Wood	varnish	-0.1	QM
015	C	Closet	Ctr	Baseboard	P	Wood	white	8.6	QM
010	C	Closet	Ctr	Door	P	Wood	red	>9.9	QM
014	C	Closet	Ctr	Wall	P	Dry wall	white	-0.2	QM
Interior Room 010 Stairwell									
018	-	Stairs	Ctr	Stringers	P	Wood	white	1.7	QM
019	-	Stairs	Ctr	Handrail	P	Wood	purple	-0.4	QM
020	-	Stairs	Ctr	Landing	P	Wood	purple	0.0	QM
Exposed floor edge									
016	-	Stairs	Ctr	Treads	P	Wood	purple	5.0	QM
017	-	Stairs	Ctr	Risers	P	Wood	purple	1.4	QM
Calibration Readings									
001								1.1	TC
002								1.0	TC
003								1.1	TC
030								-0.1	QM
040								1.0	TC
041								1.1	TC
042								1.0	TC

---- End of Readings ----

APPENDIX 5

LEAD DUST SAMPLE LABORATORY REPORTS

031430183



EMSL - MA
7 Constitution Way, Ste 107
Woburn, MA 01801
(781) 933-8411
(781) 933-8412 Fax

EMSL - CT
29 N. Plains Hwy, Unit 4
Wallingford, CT 06492
(203) 284-5948
(203) 284-5978 Fax

EMSL - NY
307 West 38th Street
New York, NY 10018
(866) 448-3675
(212) 290-0058 Fax

EMSL - NJ
107 Haddon Avenue
Westmont, NJ 08108
(800) 220-3675
(856) 858-4960 Fax

Your Name: Brandy LeBlanc **Project Manager:** PF
Company: Eagle Environmental, Inc.
Street: 8 South Main Street, Suite 3
City/State/Zip: Terryville, CT 06786
Phone: 860-589-8257 ext. 203 **Fax:** 860-585-7034 **Email:** bleblanc@eagleenviro.com; nporter@eagleenviro.com; dwynne@eagleenviro.com; rsloch@eagleenviro.com
Project Name: Capital Studio Architects - Environmental Review **Project #:** 14-02812T21
Project Location: 225 Main Street, Bridgeport **Project State (US):** CT

TURNAROUND TIME

3 Hours 6 Hours 24 Hours 48 Hours 72 Hours 4 Days 5 Days 6-10 Days

SAMPLE MATRIX

Air Bulk Soil Wipe Micro-Vac Drinking Water Wastewater Chips Other

ASBESTOS ANALYSIS

PCM - Air
 NIOSH 7400 (A) Issue 2: August 1994
 OSHA w/TWA
TEM AIR
 AHERA 40 CFR, Part 763 Subpart E
 NIOSH 7402 Issue 2
 EPA Level II
PLM - Bulk
 EPA 600/R-93/116
 NY Stratified Point Count
 California Air Resource Board (CARB) 435
 NIOSH 9002
 PLM NOB (Gravimetric) NYS 198.1
 EPA Point Count (400 Points)
 EPA Point Count (1,000 Points)
 Standard Addition Point Count
SOILS
 EPA Protocol Qualitative
 EPA Protocol Quantitative
 EMSL MSD 9000 Method fibers/gram
 Superfund EPA 540-R097-028 (dust generation)
TEM BULK
 Drop Mount (Qualitative)
 Chatfield SOP-1988-02
 TEM NOB (Gravimetric) NY 198.4
TEM MICROVAC
 ASTM D 5755-95 (Quantitative)
TEM WIPE
 ASTM D-6480-99
 Qualitative
TEM WATER
 EPA 100.1
 EPA 100.2
 NYS 198.2
 Other:

LEAD ANALYSIS

Flame Atomic Absorption
 Wipe, SW846-7420 ASTM non ASTM
 Soil, SW846-7420
 Air, NIOSH 7082
 Chips, SW846-7420 or AOAC 5.009 (974.02)
 Wastewater, SW 846-7420
 TCLP LEAD SW846-1311/7420
Graphite Furnace Atomic Absorption
 Air, NIOSH 7105
 Wastewater, SW846-7421
 Soil, SW846-7421
 Drinking Water, EPA 239.2
ICP - Inductively Coupled Plasma
 Wipe, SW846-6010 ASTM non ASTM
 Soil, SW846-6010
 Air, NIOSH 7300

MATERIALS ANALYSIS

Full Particle Identification
 Optical Particle Identification
 Dust Mites and Insect Fragments
 Particle Size & Distribution
 Product Comparison
 Paint Characterization
 Failure Analysis
 Corrosion Analysis
 Glove Box Containment Study
 Petrographic Examination of Concrete
 Portland Cement in Workplace Atmospheres (OSHA ID-143)
 Man Made Vitrous Fibers - MMVF's
 Synthetic Fiber Identification
 Other:

MICROBIAL ANALYSIS

Air Samples
 Mold & Fungi by Air O Cell
 Mold & Fungi by Agar Plate count & Id
 Bacterial Count and Gram Stain
 Bacterial Count and Identification
Water Samples
 Total Coliforms, Fecal Coliforms
 Escherichia Coli, Fecal Streptococcus
 Legionella
 Salmonella
 Giardia and Cryptosporidium
Wipe and Bulk Samples
 Mold & Fungi - Direct Examination
 Mold & Fungi - (Culture follow up to direct examination if necessary)
 Mold & Fungi - Culture (Count & ID)
 Mold & Fungi - Culture (Count only)
 Bacterial Count & Gram Stain
 Bacterial Count & Identification (3 most prominent types)
 Other:

IAQ ANALYSIS

Nuisance Dust (NIOSH 0500 & 0600)
 Airborne Dust (PM10, TSP)
 Silica Analysis by XRD NIOSH 7500
 HVAC Efficiency
 Carbon Black
 Airborne Oil Mist
 Other:

Additional Information/Comments/Instructions: ****PLEASE STOP ON 1ST POSITIVE WITHIN SETS**

Client Sample # (S)	8/4 KL 01	8/4 KL 10	TOTAL SAMPLE #	10
Relinquished:	Kristen Liljehult	Date: 8/4/14	Time: PM	
Received:	<i>[Signature]</i>	Date: 8-4-14	Time: PM	
Relinquished:	<i>[Signature]</i>	Date: 8-4-14	Time: PM	
Received:	<i>[Signature]</i>	Date: 8/5/14	Time: 9:53 AM	

**EMSL Analytical, Inc.**

307 West 38th Street, New York, NY 10018
 Phone/Fax: (212) 290-0051 / (212) 290-0058
<http://www.EMSL.com> manhattanlab@emsl.com

EMSL Order: 031430183
 CustomerID: EEVM50
 CustomerPO:
 ProjectID:

Attn: **Brandy LeBlanc**
Eagle Environmental, Inc. - CT
8 South Main Street
Suite 3
Terryville, CT 06786

Phone: (860) 589-8257
 Fax: (860) 585-7034
 Received: 08/05/14 9:53 AM
 Collected: 8/4/2014

Project: 14-02812T21/ CAPITAL STUDIO ARCHITECTS - ENVIRONMENTAL REVIEW/ 225 MAIN STREET, BRIDGEPORT CT

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

Client Sample Description	Lab ID	Collected	Analyzed	Area Sampled	Lead Concentration
8/4 KL 01 Site: FLOOR AT ENTRY/ KITCHEN	031430183-0001	8/4/2014	8/5/2014	144 in ²	<10 µg/ft ²
8/4 KL 02 Site: WINDOW WELL/ KITCHEN	031430183-0002	8/4/2014	8/5/2014	70.5 in ²	360 µg/ft ²
8/4 KL 03 Site: FLOOR/ LIVING RM	031430183-0003	8/4/2014	8/5/2014	144 in ²	<10 µg/ft ²
8/4 KL 04 Site: WINDOW SILL/ LIVING RM	031430183-0004	8/4/2014	8/5/2014	91.875 in ²	110 µg/ft ²
8/4 KL 05 Site: FLOOR AT ENTRY/ REAR ENTRY	031430183-0005	8/4/2014	8/5/2014	144 in ²	14 µg/ft ²
8/4 KL 06 Site: WINDOW SILL/ REAR ENTRY	031430183-0006	8/4/2014	8/5/2014	81.125 in ²	440 µg/ft ²
8/4 KL 07 Site: FLOOR/ BEDROOM	031430183-0007	8/4/2014	8/5/2014	144 in ²	<10 µg/ft ²
8/4 KL 08 Site: WINDOW WELL/ BEDROOM	031430183-0008	8/4/2014	8/5/2014	70.5 in ²	260 µg/ft ²
8/4 KL 09 Site: FIELD BLANK	031430183-0009	8/4/2014	8/5/2014	n/a	<10 µg/wipe
8/4 KL 10 Site: FIELD BLANK	031430183-0010	8/4/2014	8/5/2014	n/a	<10 µg/wipe

M. Apfeldorfer

Miron Apfeldorfer, Laboratory Manager
 or other approved signatory

Reporting limit is 10 ug/wipe. The QC data associated with these sample results included in this report meet the method quality control requirements, unless specifically indicated otherwise. Unless noted, results in this report are not blank corrected. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities.

* slight modifications to methods applied Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted Samples analyzed by EMSL Analytical, Inc. New York, NY AIHA-LAP, LLC--ELLAP Accredited #102581, NYS ELAP 11506

Initial report from 08/05/2014 17:18:38

APPENDIX 6
RADON TESTING REPORTS

RADON TESTING NOT PERFORMED

The structure is proposed to be elevated with the lowest level of the building not in contact with the ground.

APPENDIX 7
MOLD INSPECTION FORMS



MOLD MOISTURE READING FORM

Eagle Project No: 14-028.12T21 Date: August 4, 2015 Inspector: Kristen Liljehult

Facility Address: 225 Main Street, Bridgeport

MOISTURE MODE						
ROOM	COMPONENT	SUBSTRATE	REL. SURFACE MOISTURE	DRY	AT RISK	WET
003	Wall	Sheetrock	9.9%	X		
003	Ceiling	Sheetrock	16.5%	X		
010	Stair Tread	Wood	14.0%	X		
004	Window Frame	Wood	10.8%	X		
003	Floor	Vinyl	16.0%	X		
002	Door Casing	Wood	10.7%	X		

HYGROMETER MODE				
TIME	ROOM	% RELATIVE HUMIDITY	AIR TEMP.	DEW POINT TEMP.
11:30	003	67.4%	28.4	21.4



MOLD OBSERVATION FORM

Eagle Project No: 14-028.12T21 Date: August 4, 2015 Inspector: Kristen Liljehult

Facility Address: 225 Main Street, Bridgeport

Location	Observation	Sample Number
Rooms 002-010	No signs of water damage throughout interior. New flooring,	
(Throughout)	new sheetrock, new insulation and new wiring was done after	
	the storm Event.	

APPENDIX 8

ABATEMENT AND CONSULTING COST ESTIMATE

HAZARDOUS MATERIALS ABATEMENT COST ESTIMATES
APPLICATION NO. 1738
225 MAIN STREET
BRIDGEPORT, CONNECTICUT

ASBESTOS REMOVAL COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
CEMENT SHINGLES	1	\$ 1,500.00 EACH	\$ 1,500.00
SUBTOTAL			\$ 1,500.00
ASBESTOS REMOVAL CONTINGENCY			\$ 300.00
ASBESTOS REMOVAL TOTAL			\$ 1,800.00

LEAD BASED PAINT COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
LEAD-BASED PAINT ALLOWANCE	1	\$ 12,500.00 EACH	\$ 12,500.00
SUBTOTAL			\$ 12,500.00
LEAD RENOVATION CONTINGENCY			\$ 2,500.00
LEAD RENOVATION TOTAL			\$ 15,000.00

CONSULTING COST ESTIMATE

MATERIAL	QUANTITY	UNIT COST	TOTAL COST
CONSULTING ALLOWANCE	1	\$ 1,800.00 EACH	\$ 1,800.00
SUBTOTAL			\$ 1,800.00
CONSULTING CONTINGENCY			\$ 360.00
CONSULTING TOTAL			\$ 2,160.00

TOTAL **\$ 18,960.00**

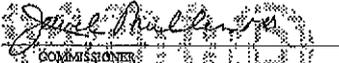
APPENDIX 9
EAGLE ENVIRONMENTAL, INC. LICENSES
AND LABORATORY CERTIFICATES

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
LEAD CONSULTANT CONTRACTOR

EAGLE ENVIRONMENTAL INC.

LICENSE NO.
801-728
CURRENT THROUGH
04/30/15
VALIDATION NO.
03-794089


SIGNATURE


COMMISSIONER

CERTIFICATE OF ACHIEVEMENT

This certifies that

Hannah Hintz

has successfully completed the
**Asbestos Site Inspector Refresher Training
Asbestos Accreditation Under TSCA Title II
40 CFR Part 763**

conducted by

**Cardno ATC
73 William Franks Drive
West Springfield, MA 01089
(413) 781-0070**

Gregory J. Morach
Principal Instructor
May 15, 2014
Date of Course
May 15, 2015
Expiration Date

Gregory J. Morach
Regional Manager
SIAR-4897
Certificate Number
May 15, 2014
Examination Date

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

PURSUANT TO THE PROVISIONS OF THE GENERAL STATUTES OF CONNECTICUT

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-INSPECTOR

HANNAH E HINTZ

CERTIFICATE NO.
000816

CURRENT THROUGH
06/30/16

VALIDATION NO.
03-912706

[Signature]
SIGNATURE

[Signature]
COMMISSIONER

ENVIRONMENTAL TRAINING AND ASSESSMENT

Certificate of Completion Lead Inspector/Risk Assessor — Refresher

Awarded To

Kristen Liljehult
269 Baileyville Road
Middlefield, CT 06455

Has successfully completed, and passed an examination covering the contents of a EPA Model Eight (8) Hour Refresher Training Course for Lead Inspector/Risk Assessor and in accordance with the Department of Public Health Standards established pursuant to Section 20-477 of the Connecticut General Statutes. Approved under the New Standard and 40 CFR 745.225(c)(8)(i).

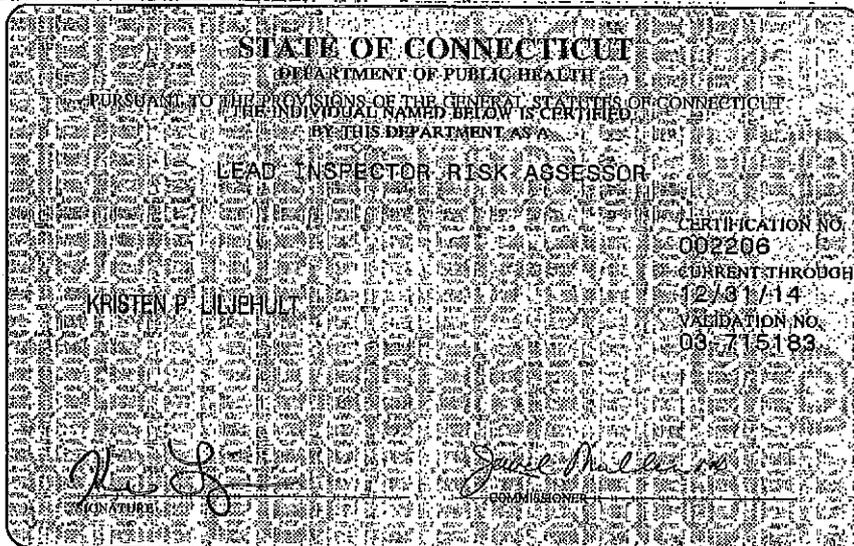
Course Date: 1/2/2014
Examination Date: 1/2/2014

Examination Grade: 88%
Certificate Number: LI/RAR-00350
Expiration Date: 1/2/2015

Stephen Craig

Stephen J. Craig, Training Manager

Boston Lead Company, LLC
dba
Environmental Training and Assessment
62 Washington Street
Middletown, CT 06457
860-347-7277



State of Connecticut, Department of Public Health
Approved Environmental Laboratory

THIS IS TO CERTIFY THAT THE LABORATORY DESCRIBED BELOW HAS BEEN APPROVED BY THE STATE DEPARTMENT OF PUBLIC HEALTH PURSUANT TO APPLICABLE PROVISIONS OF THE PUBLIC HEALTH CODE AND GENERAL STATUTES OF CONNECTICUT FOR MAKING THE DETERMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT

EMSL ANALYTICAL, INC. - MANHATTAN, NY

LOCATED AT 307 West 88th Street IN New York, NY 10018

AND REGISTERED IN THE NAME OF

Peter Frasca, Ph.D.

THIS CERTIFICATE IS ISSUED IN THE NAME OF James Hall WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

James Hall WHO HAS BEEN DESIGNATED BY THE REGISTERED OWNER/AUTHORIZED AGENT TO BE IN CHARGE OF THE LABORATORY WORK COVERED BY THIS CERTIFICATE OF APPROVAL AS FOLLOWS:

ASBESTOS

Examination For:

- Bulk - Identification (PVL, TEM)
- Air - Fiber Counting (POML, TEM)
- Water - TEM

Environmental Health & Housing

Examination For:

- Lead in Paint
- Lead Paint in Soil
- Lead in Dust Wipes

SEE COMPILER PRINT OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES September 30, 2014 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH DATED AT HARTFORD, CONNECTICUT, THIS 4th DAY OF October, 2012



Registration No.

PH-0176

SUZANNE BLANCALOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION