Facility Support Services, LLC

Environmental & Safety Consulting Engineers

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

Hazardous Materials
Inspection Report

39 Shorefront Park
Norwalk, Connecticut

PREPARED FOR:

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

PREPARED BY:

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

July 11, 2014

FSS #22214-1118

SIGNATURES OF REPORT AUTHORS

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

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

2685 State Street • Hamden, Connecticut 06517
Ph: 203-288-1281 • Fax: 203-248-4409
Website: www.fssteam.com

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I. Introduction

Facility Support Services, LLC (FSS) was contracted by Martinez, Couch & Associates, LLC (MCA) to perform a limited scope hazardous materials survey of 39 Shorefront Park in Norwalk, Connecticut (the "Site"). The purpose of this inspection was to identify the presence of asbestos, PCBs, lead paint and mold in certain building materials proposed for removal/demolition that qualify for the repair/replacement of items damaged by the October 2012 Tropical Storm Sandy under the Connecticut Department of Housing (DOH), Community Development Block Grant – Disaster Recovery Owner Occupied Recovery and Rehabilitation Program. Due to the proposed plan to elevate the house above the ground surface, no radon testing was conducted.

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

II. Mold

FSS conducted sampling for mold on June 10, 2014. Testing for total spores in air was conducted for the following areas of the Site to identify concerns with indoor air quality related to mold and fungi:

- Living Room
- Attic
- Outside of House

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

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

The analysis for total spore counts is a direct microscopic examination and does not include culturing or growing fungi. Therefore, the results include both viable and non-viable spores. Spore trap results are reported in spores per cubic meter of air. See Table 1 below for an outline of the mold analytical results.

Table 1
Summary of Laboratory Analysis of Spore Types
39 Shorefront Park, Norwalk, Connecticut

Sample Number & Location	Raw Count	Total Fungi (Count/m^3)	Spore Types Present
222140610_1118_MS1 Outside	1,611	33,940	Alternaria, Ascospores, Aspergillus/Penicillium, Basidiospores, Cladosporium, Curvularia, Ganoderma, Myxomycetes, Pithomyces, rust, Cercospora, Gliomastix
222140610_1118_MS2 Living Room	180	3,850	Ascospores, Aspergillus/Penicillium, Basidiospores, Cladosporium, Ganoderma, Myxomycetes
222140610_1118_MS3 Attic	176	3,690	Ascospores, Aspergillus/Penicillium, Basidiospores, Cladosporium, Ganoderma, Myxomycetes, Zygomycetes

The most prevalent mold species in all of the samples was Ascospores. Ascospores encompass a wide range of genera worldwide and associated with member of the Phylum Ascomycota. This spore type is found everywhere in nature.

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

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

FSS's investigation found total spore concentrations inside the Site residence of up to 3,850/m^3, which is below the 10,000/m^3 level noted above.

The American Conference of Government Industrial Hygienists (ACGIH) stated that indoor mold levels are generally less than 1/3 the outdoor level and that when indoor mold is at more than this level remedial action should be taken to find the source of the elevated counts and to clean it up. However, this is a general rule and may be inaccurate and unreliable method for screening buildings for mold.

FSS's investigation found total spore concentration in the interior samples at a level below the outside sample, and below the 1/3 ratio level noted in the previous paragraph.

III. Asbestos

FSS conducted a limited scope asbestos inspection and bulk sampling on June 10, 2014 of suspect building materials that are proposed for renovations. The inspection was conducted by Kevin Bogue, a State of Connecticut licensed Asbestos Inspector. Mr. Bogue's Connecticut Asbestos Inspectors/Management Planner license is provided in Appendix C.

The following suspect materials were indentified during the inspection:

- Grey Mortar (basement window #1)
- Grey Mortar (basement window #2)
- Foundation Cement
- Spray foam insulation

- Chimney Cement

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

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

Note: The portion of the chimney above the roof was not inspected due to access restrictions; if materials are identified that will be disturbed during proposed work at the Chimney, other than those already tested, they should be presumed to contain asbestos, or be sampled.

IV. PCBs

Following an inspection of building materials proposed for renovations, no suspected PCB-containing materials were identified.

V. Lead

The subject residential structure was built prior to 1978 (1954) and therefore the likelihood that lead painted surfaces are present is increased. As a residential structure built prior to 1978 the removal of lead painted materials where a child under 6 is housed, or may visit, would trigger the EPA Renovation, Repair and Painting (RRP) rule. Furthermore, adherence to the requirements of The Lead-Safe Housing Rule (US Department of Housing and Urban development, HUD) are stipulated by the Connecticut

Department of Housing (DOH) as part of the Community Development Block Grant – Disaster Recovery Owner Occupied Recovery and Rehabilitation Program.

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

- Exterior Window Trim and Sash (right hand side of house, looking from street).
- Exterior Garage Roof (chimney and flashing)

Non-Intact Materials

Following the HUD Lead-Safe Housing Guidelines, non-intact materials should undergo interim measures to abate the hazard. Non-intact lead containing materials have been identified as the following:

- Exterior Window Sash (right hand side of house, looking from street).

Demolition Materials

When toxic wastes are land disposed, contaminated liquid may leach from the waste and pollute ground water. Toxicity is defined through a laboratory procedure called the Toxicity Characteristic Leaching Procedure (TCLP) (Method 1311). The TCLP helps identify wastes likely to leach concentrations of contaminants that may be harmful to human health or the environment.

Areas that tested positive for lead (regardless of intactness) and that are proposed for demolition include:

- Exterior Garage Roof (flashing)

VI. Conclusions & Recommendations

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

Asbestos – Asbestos containing materials (>1% asbestos) were not identified in materials proposed for renovation or demolition. Note: The portion of the chimney above the roof was not inspected due to access restrictions; if materials are identified that will be disturbed during proposed work at the Chimney, other than those already tested, they should be presumed to contain asbestos or be sampled.

PCBs - No suspected PCB-containing materials were identified in proposed renovation materials.

Mold – Mold spore count analysis indicates no accelerated mold growth in the residence (when comparing indoor mold spore count numbers to exterior spore count numbers). No additional work to address mold is proposed at this time.

Radon – Due to the proposed elevating of the residence, above the ground level, no radon testing was conducted.

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

- Exterior Window Trim and Sash (right hand side of house, looking from street).

Areas that tested positive and that are proposed for demolition include:

- Exterior Garage Roof (flashing)

Due to the fact that this proposed demolition material contains lead, FSS recommends that either this material be disposed of as containing hazardous levels of lead, or a TCLP

lead analysis of the anticipated waste stream be taken for evaluation of leachable lead concentrations. If lead is found above hazardous levels (i.e., 5 mg/L), those materials should be disposed of as hazardous waste.

ATTACHMENTS

ATTACHMENT A

MOLD ANALYTICAL DATA

EMSL Analytical, Inc.

29 North Plains Highway, Unit # 4 Wallingford, CT 06492
Phone/Fax: 203-284-5948 / (203) 284-5978
http://www.EMSL.com / wallingfordlab@emsl.com

Order ID: 241402242
Customer ID: FSS93
Customer PO:
Project ID:

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

Phone: (203) 288-1281
Fax: (203) 248-4409
Collected:
Received: 06/13/2014
Analyzed: 06/19/2014

Proj: 22214-1118 39 Shorefront

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

Lab Sample Number:	241402242-0001			241402242-0002			241402242-0003		
Client Sample ID:	20140610-1118-MS1			20140610-1118-MS2			20140610-1118-MS3		
Volume (L):	150			150			150		
Sample Location:	Outside			Living Room			Attic		
Spore Types	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**	**Raw Count**	**Count/m³**	**% of Total**
Alternaria	2	40	0.1	-	-	-	-	-	-
Ascospores	826	17400	51.3	69	1500	39	71	1500	40.7
Aspergillus/Penicillium	11	230	0.7	19	400	10.4	5	100	2.7
Basidiospores	670	14100	41.5	58	1200	31.2	67	1400	37.9
Bipolaris++	-	-	-	-	-	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	-	-
Cladosporium	60	1300	3.8	16	340	8.8	29	610	16.5
Curvularia	2	40	0.1	-	-	-	-	-	-
Epicoccum	-	-	-	-	-	-	-	-	-
Fusarium	-	-	-	-	-	-	-	-	-
Ganoderma	14	300	0.9	8	200	5.2	2	40	1.1
Myxomycetes++	13	270	0.8	10	210	5.5	1	20	0.5
Pithomyces	5	100	0.3	-	-	-	-	-	-
Rust	1	20	0.1	-	-	-	-	-	-
Scopulariopsis	-	-	-	-	-	-	-	-	-
Stachybotrys	-	-	-	-	-	-	-	-	-
Torula	-	-	-	-	-	-	-	-	-
Ulocladium	-	-	-	-	-	-	-	-	-
Unidentifiable Spores	-	-	-	-	-	-	-	-	-
Zygomycetes	-	-	-	-	-	-	1	20	0.5
Cercospora	4	80	0.2	-	-	-	-	-	-
Gliomastix	3	60	0.2	-	-	-	-	-	-
Total Fungi	**1611**	**33940**	**100**	**180**	**3850**	**100**	**176**	**3690**	**100**
Hyphal Fragment	16	340	1	7	100	2.6	4	80	2.2
Insect Fragment	-	-	-	-	-	-	-	-	-
Pollen	3	60	0.2	-	-	-	-	-	-
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-
Skin Fragments (1-4)	-	-	-	-	1	-	-	1	-
Fibrous Particulate (1-4)	-	-	-	-	1	-	-	1	-
Background (1-5)	-	2	-	-	2	-	-	2	-

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

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

Gloria V. Oriol, Laboratory Manager
or Other Approved Signatory

High levels of background particulate can obscure spores and other particulates leading to underestimation. Background levels of 5 indicate an overloading of background particulates, prohibiting accurate detection and quantification. Present = Spores detected on overloaded samples. Results are not blank corrected unless otherwise noted. The detection limit is equal to one fungal spore, structure, pollen, fiber particle or insect fragment. "*" Denotes particles found at 300X. "-" Denotes not detected. Due to method stopping rules, raw counts in excess of 100 are extrapolated based on the percentage analyzed. EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. Samples received in good condition unless otherwise noted.

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

Initial report from: 06/19/2014 12:19:59

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

OrderID: 241402242

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Microbiology Chain of Custody

EMSL Order Number (*Lab Use Only*): 241402242

EMSL Analytical, Inc.
29 North Plains Hwy
Unit 4
Wallingford, CT 06492
PHONE: (203) 284-5948
FAX: (203) 284-5978

Company : Facilty Support Services, LLC	**EMSL-Bill to:** ☐ Different ☑ Same If Bill to is Different note instructions in Comments**
Street: 2685 State Street	*Third Party Billing requires written authorization from third party*
City: Hamden **State/Province:** CT	**Zip/Postal Code:** 06517 **Country:** United States
Report To (Name): Kevin Bogue	**Telephone #:** 203-288-1281
Email Address: kbogue.fss@snet.net	**Fax #:** **Purchase Order:**
Project Name/Number: 22214-1118 39 Shore Front	**Please Provide Results:** ☐ FAX ☑ E-mail ☐ Mail
U.S. State Samples Taken: CT	**Connecticut Samples:** ☐ Commercial ☒ Residential

Turnaround Time (TAT) Options* - Please Check

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

**Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide. TATs are subject to methodology requirements*

Non Culturable Air Samples (Spore Traps) – Test Codes

- **M001** Air-O-Cell
- **M049** BioSIS
- **M030** Micro 5
- **M173** Allegro M2
- **M003** Burkard
- **M174** MoldSnap
- **M004** Allergenco
- **M043** Cyclex
- **M176** Relle Smart
- **M032** Allergenco-D
- **M002** Cyclex-d
- **M130** Via-Cell
- **M172** Versa Trap

Other Microbiology Test Codes

- **M041** Fungal Direct Examination
- **M005** Viable Fungi ID and Count
- **M006** Viable Fungi ID and Count (Speciation)
- **M007** Culturable Fungi
- **M008** Culturable Fungi (Speciation)
- **M009** Gram Stain Culturable Bacteria
- **M010** Bacterial Count and ID – 3 Most Prominent
- **M011** Bacterial Count and ID – 5 Most Prominent
- **M013** Sewage Contamination in Buildings
- **M014** Endotoxin Analysis
- **M015** Heterotrophic Plate Count
- **M180** Real Time Q-PCR-ERMI 36 Panel
- **M018** Total Coliform (Membrane Filtration)
- **M020** Fecal *Streptococcus* (Membrane Filtration)
- **M210-215** *Legionella* Detection
- **M026** Recreational Water Screen
- **M027** Mycotoxin Analysis
- **M029** *Enterococci*
- **M019** Fecal Coliform
- **M133** MRSA Analysis
- **M028** *Cryptococcus neoformans* Detection
- **M120** *Histoplasma capsulatum* Detection
- **M033-39** Allergen Testing
- **M044** Group Allergen (Cat, Dog, Cockroach, Dustmites)
- **Other** See Analytical Price Guide

Preservation Method (Water):

Name of Sampler: **Signature of Sampler:**

Sample #	Sample Location	Sample Type	Test Code	Volume/Area	Date/Time Collected
Example: A1	Kitchen	Air	M001	75L	1/1/12 4:00 PM
2014 0610_1148_MS1	~~3rd Floor Loading~~ outside 1st	AIR	M001	150 l	6/10/14 10:15-10:25
2014 0610_1148_MS2	~~outside~~ Living Room	↓	↓	150 l	6/10/14 10:29-10:39
2014 0610_1148_MS3	Attic			150 l	6/10/14 10:50-11:00

Client Sample # (s): MS1 - MS3 **Total # of Samples:** 3

Relinquished (Client): Kevin Bogue **Date:** 6/13/14 **Time:**

Received (Client): **Date:** **Time:**

Comments:

RECEIVED
JUN 18 2014
By 4:10pm
walk-in

ATTACHMENT B

LEAD ANALYTICAL DATA

GILBERTCO
LEAD INSPECTIONS, LLC

"LEAD BASED PAINT SPECIALIST"

June 16, 2014

Job 9928-7-39

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

Re: Lead Based Paint Inspection: 39 Shorefront Park, Norwalk, Connecticut

Gilbertco Lead Inspections LLC performed a limited XRF inspection for the presence of lead based paint at 39 Shorefront Park, Norwalk, Connecticut. The inspection was requested by Facility Support Services in response to planned renovations to the site by State of Connecticut Department of Housing Community Block Grant Disaster Recovery Program

The site inspected consists of an updated single family ranch style home. The house is scheduled to be raised to meet new Flood Zone Requirements.

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

In regards to the above mentioned property, *several lead based paint hazards were identified.* A lead based paint hazard is "any condition that causes lead exposure to lead from lead-contaminated dust, lead contaminated soil, or lead-contaminated paint that is deteriorated or present in accessible surfaces, friction surfaces, or impact surfaces that would result in adverse human health effects...". . In April 2010, a new EPA regulation requires that any contractor who disturbs more than six square feet of painted surface per room or does window replacement must be certified as a Renovate Right Contractor. Homeowners are allowed to do their own renovation but are not exempt from providing renovation notices or posting informational signs. Further information regarding Renovate Right may be obtained at www.epa.gov/lead/pubs/renovation or by calling the National Lead Information Center at 1-800-424-LEAD (5323).

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

Please feel free to call if any questions arise,

Maureen Monaco
Director of Operations
Consultant Contractor #270
Lead Inspector Risk Assessor #1172
Lead Abatement Supervisor #2383

CERTIFICATION
LEAD IN PAINT RESULTS

AGENCY:	GILBERTCO LEAD INSPECTIONS LLC 287 MAIN STREET ANSONIA, CONNECTICUT 06401
PROJECT ADDRESS:	39 SHOREFRONT PARK NORWALK, CONNECTICUT
PROJECT NUMBER:	9928-7-39
TEST DATE:	JUNE 10, 2014
REQUIREMENTS:	CHAPTER 7 HUD GUIDELINES LEAD INSPECTION- SURFACE BY SURFACE
INSTRUMENTATION:	SCITEC MAP4 PORTABLE X-RAY (BRUKER HANDHELD) FLUOROSCOPE SPECTRUM ANALYZER (XRF) COBALT 57 SOURCE
REPORT MEDIUM:	MG PB/CM2 (MILLIGRAMS OF LEAD PER SQUARE CENTIMETER)
CALIBRATION:	TO MEASURE LEAD K-SHELL EMISSIONS. FACTORY CALIBRATED WITH HUD APPROVED REFERENCE STANDARDS. CALIBRATION FIELD CHECKED HOURLY AS RECOMMENDED BY MANUFACTURER
OPERATORS CERTIFICATION:	LEAD CONSULTANT CONTRACTOR-CC270 LEAD INSPECTOR RISK ASSESSOR- IR 1172 LEAD ABATEMENT SUPERVISOR- 2383

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

Maureen Moran 6-16-14

39 Shorefront Park, Norwalk, Connecticut

June 10, 2014

Room Type	Room #	Wall #	Component	Substrate	Condition	K Shell	Decision
Calibration						1.13	Okay
Living Room	1	4	Door	Wood	Intact	-0.19	Negative
Living Room	1	4	Door Casing	Wood	Intact	-0.07	Negative
Living Room	1	4	Wall	Sheetrk	Intact	0.16	Negative
Living Room	1	1	Wall	Sheetrk	Intact	-0.08	Negative
Living Room	1	1	Baseboard	Wood	Intact	0.06	Negative
Living Room	1	2	Wall	Sheetrk	Intact	-0.17	Negative
Living Room	1	2	Baseboard	Wood	Intact	0.05	Negative
Living Room	1	3	Wall	Wood	Stain/varnish	0.3	Negative
Living Room	1	3	Door	Wood	Intact	0.17	Negative
Living Room	1	3	Door Csng	Wood	Intact	-0.15	Negative
Living Room	1	3	Shelf	Wood	Intact	-0.53	Negative
Living Room	1	3	Shelf Support	Wood	Intact	0.34	Negative
Living Room	1	1	Ceiling	Sheetrk	Intact	0.11	Negative
Living Room	1	1	Window Sill	Wood	Intact	0.03	Negative
Living Room	1	1	Window Trim	Wood	Intact	0.02	Negative
Living Room	1	2	Wall-upper	Sheetrk	Intact	0.18	Negative
Living Room	1	2	Chairrail	Wood	Intact	0.12	Negative
Living Room	1	2	Wall-lower	Sheetrk	Intact	-0.35	Negative
Living Room	1	2	Baseboard	Wood	Intact	-0.01	Negative
Living Room	1	3	Closet Door	Wood	Intact	-0.02	Negative
Living Room	1	3	Clo Dr Csng	Wood	Intact	-0.34	Negative
Living Room	1	3	Wall-upper	Sheetrk	Intact	0.02	Negative
Living Room	1	3	Chairrail	Wood	Intact	0.22	Negative
Living Room	1	3	Wall-lower	Sheetrk	Intact	0.28	Negative
Living Room	1	3	Baseboard	Wood	Intact	-0.32	Negative
Living Room	1	3	Shelf	Wood	Intact	0.24	Negative
Living Room	1	3	Wall	Sheetrk	Intact	-0.13	Negative
Living Room	1	3	Mantle	Wood	Intact	0.2	Negative
Living Room	1	3	Fireplace	Masonry	Intact	0.33	Negative
Dining Room	2	1	Wall-upper	Sheetrk	Intact	0.14	Negative
Dining Room	2	1	Chairrail	Wood	Intact	-0.09	Negative
Dining Room	2	1	Wall-lower	Wood	Intact	0.06	Negative
Dining Room	2	1	Baseboard	Wood	Intact	-0.08	Negative
Dining Room	2	1	Window Trim	Wood	Intact	-0.08	Negative
Dining Room	2	1	Window Sill	Wood	Intact	-0.08	Negative
Dining Room	2	4	Wall-upper	Sheetrk	Intact	0.36	Negative
Dining Room	2	4	Chairail	Wood	Intact	-0.06	Negative
Dining Room	2	4	Wall-lower	Wood	Intact	-0.09	Negative
Dining Room	2	4	Baseboard	Wood	Intact	-0.05	Negative
Dining Room	2	1	Ceiling	Sheetrk	Intact	-0.04	Negative
Dining Room	2	1	Ceiling Trim	Wood	Intact	-0.07	Negative

Kitchen	3	4	Cabinet	Wood	Intact	-0.2	Negative
Kitchen	3	1	Ceiling	Sheetrk	Intact	-0.25	Negative
Kitchen	3	3	Cabinet	Wood	Intact	0.21	Negative
Kitchen	3	3	Window Sill	Wood	Intact	0.01	Negative
Kitchen	3	3	Window Trim	Wood	Intact	-0.02	Negative
Kitchen	3	3	Door	Wood	Intact	-0.03	Negative
Kitchen	3	3	Door Casing	Wood	Intact	-0.26	Negative
Kitchen	3	3	Floor	Wood	Stain/varnish	-0.09	Negative
Kitchen	3	2	Cabinet	Wood	Intact	0.41	Negative
Kitchen	3	2	Wall	Sheetrk	Intact	0.05	Negative
Kitchen	3	2	Door	Wood	Intact	-0.32	Negative
Kitchen	3	2	Door Casing	Wood	Intact	-0.07	Negative
Hallway	4	4	Door Casing	Wood	Intact	0.29	Negative
Hallway	4	4	Wall	Sheetrk	Intact	-0.21	Negative
Hallway	4	1	Wall-upper	Sheetrk	Intact	0.02	Negative
Hallway	4	1	Chairrail	Wood	Intact	0.13	Negative
Hallway	4	3	Wall-lower	Sheetrk	Intact	-0.12	Negative
Hallway	4	1	Baseboard	Wood	Intact	0.05	Negative
Hallway	4	1	Baseboard	Wood	Stain/varnish	0.03	Negative
Hallway	4	1	Closet Door	Wood	Intact	-0.18	Negative
Hallway	4	1	Clo Dr Csng	Wood	Intact	0.02	Negative
Hallway	4	1	Ceiling	Sheetrk	Intact	-0.44	Negative
Hallway	4	1	Closet Door	Wood	Intact	-0.17	Negative
Hallway	4	1	Clo Dr Csng	Wood	Intact	0.14	Negative
Hallway	4	1	Door	Wood	Intact	-0.03	Negative
Hallway	4	1	Door Casing	Wood	Intact	0.07	Negative
Hallway	4	1	Wall	Sheetrk	Intact	-0.02	Negative
Hallway	4	2	Wall-upper	Sheetrk	Intact	0.29	Negative
Hallway	4	2	Chairrail	Wood	Intact	-0.18	Negative
Hallway	4	1	Wall-lower	Sheetrk	Intact	-0.04	Negative
Hallway	4	2	Baseboard	Wood	Intact	0.19	Negative
Hallway	4	3	Wall-upper	Sheetrk	Intact	0.09	Negative
Hallway	4	3	Chair	Wood	Intact	0.03	Negative
Hallway	4	3	Wall-lower	Sheetrk	Intact	-0.02	Negative
Hallway	4	3	Baseboard	Wood	Intact	-0.25	Negative
Front Bedroom	5	4	Door	Wood	Intact	-0.06	Negative
Front Bedroom	5	4	Door Casing	Wood	Intact	-0.15	Negative
Front Bedroom	5	4	Wall-upper	Sheetrk	Intact	0.02	Negative
Front Bedroom	5	4	Chairrail	Wood	Intact	-0.17	Negative
Front Bedroom	5	4	Wall-lower	Sheetrk	Intact	-0.01	Negative
Front Bedroom	5	4	Baseboard	Sheetrk	Intact	-0.09	Negative
Front Bedroom	5	1	Ceiling	Sheetrk	Intact	0.06	Negative
Front Bedroom	5	1	Wall-upper	Sheetrk	Intact	-0.26	Negative
Front Bedroom	5	1	Chairrail	Wood	Intact	-0.05	Negative
Front Bedroom	5	1	Wall-lower	Sheetrk	Intact	-0.24	Negative

Front Bedroom	5	1	Baseboard	Wood	Intact	-0.42	Negative
Front Bedroom	5	1	Window Trim	Wood	Intact	-0.27	Negative
Front Bedroom	5	1	Window Sill	Wood	Intact	0.07	Negative
Front Bedroom	5	2	Wall-upper	Sheetrk	Intact	0.19	Negative
Front Bedroom	5	2	Chairrial	Wood	Intact	0.17	Negative
Front Bedroom	5	2	Wall-lower	Sheetrk	Intact	-0.29	Negative
Front Bedroom	5	2	Baseboard	Wood	Intact	-0.03	Negative
Front Bedroom	5	3	Wall-upper	Sheetrk	Intact	0.47	Negative
Front Bedroom	5	3	Chairrail	Wood	Intact	-0.17	Negative
Front Bedroom	5	3	Wall-lower	Sheetrk	Intact	-0.04	Negative
Front Bedroom	5	3	Baseboard	Wood	Intact	-0.1	Negative
Front Bedroom	5	3	Closet Door	Wood	Intact	-0.04	Negative
Front Bedroom	5	3	Clo Dr Csng	Wood	Intact	0.07	Negative
Front Bedroom	5	3	Shelf	Wood	Intact	0.09	Negative
Front Bedroom	5	3	Shelf Support	Wood	Intact	-0.12	Negative
Front Bedroom	5	3	Floor	Wood	stain/varnish	-0.08	Negative
Master Bedroom	6	4	Door	Wood	Intact	-0.07	Negative
Master Bedroom	6	4	Door Jamb	Wood	Intact	0.37	Negative
Master Bedroom	6	4	Door Casing	Wood	Intact	-0.03	Negative
Master Bedroom	6	4	Wall	Wood	Intact	-0.04	Negative
Master Bedroom	6	4	Door to bath	Wood	Intact	-0.07	Negative
Master Bedroom	6	4	Door Casing	Wood	Intact	0.12	Negative
Master Bedroom	6	4	Baseboard	Wood	Intact	0.12	Negative
Master Bedroom	6	4	Floor	Wood	stain/varnish	0.24	Negative
Master Bedroom	6	1	Ceiling	Sheetrk	Intact	-0.19	Negative
Master Bedroom	6	1	Wall	Sheetrk	Intact	-0.15	Negative
Master Bedroom	6	1	Baseboard	Wood	Intact	-0.19	Negative
Master Bedroom	6	1	Closet Door	Wood	Intact	0.54	Negative
Master Bedroom	6	1	Clo Dr Csng	Wood	Intact	0.11	Negative
Master Bedroom	6	1	Shelf	Wood	Intact	-0.33	Negative
Master Bedroom	6	1	Shelf SUpport	Wood	Intact	-0.3	Negative
Master Bedroom	6	2	Wall	Sheetrk	Intact	-0.13	Negative
Master Bedroom	6	2	Baseboard	wood	Intact	0.16	Negative
Master Bedroom	6	2	Window Trim	Wood	Intact	0.19	Negative
Master Bedroom	6	2	Window Sill	Wood	Intact	-0.25	Negative
Master Bedroom	6	3	Wall	Sheetrk	Intact	0.06	Negative
Master Bedroom	6	3	Baseboard	Sheetrk	Intact	-0.1	Negative
Master Bedroom	6	4	Closet Door	Wood	Intact	0.17	Negative
Master Bedroom	6	4	Clo Dr CSng	Wood	Intact	0.1	Negative
Master Bedroom	6	4	Shelf	Wood	Intact	-0.3	Negative
Master Bedroom	6	4	Shelf Support	Wood	Intact	0.03	Negative
Master Bath	7	2	Door	Wood	Intact	0.07	Negative
Master Bath	7	2	Door Jamb	Wood	Intact	-0.35	Negative
Master Bath	7	2	Door Casing	Wood	Intact	0.09	Negative
Master Bath	7	2	Wall	Sheetrk	Intact	0.12	Negative

Master Bath	7	2	Baseboard	Wood	Intact	0.07	Negative
Master Bath	7	3	Wall	Sheetrk	Intact	0.05	Negative
Master Bath	7	3	Cabinet	Wood	Intact	0.09	Negative
Master Bath	7	3	Window Sill	Wood	Intact	0.07	Negative
Master Bath	7	3	Window Trim	Wood	Intact	-0.12	Negative
Master Bath	7	4	Wall	Sheetrk	Intact	0.16	Negative
Master Bath	7	1	Wall	Sheetrk	Intact	-0.11	Negative
Master Bath	7	1	Baseboard	Wood	Intact	-0.21	Negative
Master Bath	7	1	Ceiling	Sheetrk	Intact	0.12	Negative
Bathroom	8	1	Door	Wood	Intact	0.23	Negative
Bathroom	8	1	Door Casing	Wood	Intact	-0.15	Negative
Bathroom	8	1	Wall	Sheetrk	Intact	-0.06	Negative
Bathroom	8	1	Baseboard	Wood	Intact	-0.29	Negative
Bathroom	8	1	Ceiling	Sheetrk	Intact	-0.18	Negative
Bathroom	8	4	Wall	Sheetrk	Intact	-0.03	Negative
Bathroom	8	3	Wall	Sheetrk	Intact	-0.16	Negative
Bathroom	8	3	Window Sill	Wood	Intact	-0.32	Negative
Bathroom	8	3	Window Trim	Wood	Intact	-0.08	Negative
Bathroom	8	3	Baseboard	Wood	Intact	-0.18	Negative
Bathroom	8	3	Ceiling	Sheetrk	Intact	-0.19	Negative
Bathroom	8	2	Wall	Sheetrk	Intact	0.21	Negative
Garage	9	2	Wall	Masonry	Non-intact	0.27	Negative
Garage	9	2	Floor	Masonry	Non-intact	0.3	Negative
Garage	9	1	Ceiling	Sheetrk	Non-intact	-0.02	Negative
Garage	9	1	Ceiling	Wood	Intact	0.19	Negative
Garage	9	2	Shelf	Wood	Intact	-0.16	Negative
Garage	9	2	Door	Wood	Intact	0.37	Negative
Garage	9	2	Door Casing	Wood	Intact	-0.22	Negative
Garage	9	3	Wall	Sheetrk	Non-intact	0.16	Negative
Garage	9	3	Door	Wood	Non-intact	0.19	Negative
Garage	9	3	Door Casing	Wood	Intact	0.07	Negative
Garage	9	3	Door Jamb	Wood	Non-intact	0.1	Negative
Garage	9	4	Window Sash	Wood	Non-intact	0.03	Negative
Garage	9	4	Window Trim	Wood	Non-intact	0.26	Negative
Garage	9	4	Shelf	Wood	Intact	-0.02	Negative
Garage	9	1	Floor	Masonry	Non-intact	0.18	Negative
Exterior	10	1	Garage Door	Metal	Intact	0.08	Negative
Exterior	10	1	Gar Dr Csng	Wood	Intact	-0.01	Negative
Exterior	10	1	Door Casing	Wood	Intact	-0.02	Negative
Exterior	10	1	Siding	Wood	Stain/varnish	0.16	Negative
Exterior	10	1	Window Trim	Wood	Intact	-0.11	Negative
Exterior	10	1	Overhang	Wood	Intact	-0.34	Negative
Exterior	10	1	Front Door	Wood	Intact	-0.11	Negative
Exterior	10	1	Door Jamb	Wood	Intact	0.32	Negative

Exterior	10	1	Door Casing	Wood	Intact	-0.04	Negative
Exterior	10	1	Threshold	Wood	Stain/varnish	0.01	Negative
Exterior	10	1	Kickplate	Wood	Intact	-0.21	Negative
Exterior	10	1	Window Trim	Wood	Intact	-0.12	Negative
Exterior	10	1	Siding	Wood	Stain/varnish	-0.16	Negative
Exterior	10	2	Siding	Wood	Stain/varnish	-0.09	Negative
Exterior	10	2	Fence	Wood	Non-intact	0.05	Negative
Exterior	10	2	Fence	Wood	Non-intact	0.02	Negative
Exterior	10	3	Siding	Wood	Stain/varnish	0.12	Negative
Exterior	10	3	Window Trim	Wood	Intact	-0.13	Negative
Exterior	10	3	Overhang	Wood	Intact	-0.61	Negative
Exterior	10	3	Door Casing	Wood	Intact	0.11	Negative
Exterior	10	3	Door	Wood	Intact	-0.1	Negative
Exterior	10	3	Door Jamb	Wood	Intact	-0.1	Negative
Exterior	10	3	Door Casing	Wood	Intact	-0.18	Negative
Exterior	10	3	Threshold	Wood	Intact	-0.51	Negative
Exterior	10	4	Wall	Wood	Stain/varnish	-0.07	Negative
Exterior	**10**	**4**	**Window Trim**	**Wood**	**Intact**	**2.78**	**Positive**
Exterior	**10**	**4**	**Window Sash**	**Wood**	**Non-intact**	**1.11**	**Positive**
Exterior	**10**	**4**	**Window Sash**	**Wood**	**Non-intact**	**2.65**	**Positive**
Exterior	10	4	Fence	Wood	Non-intact	0	Negative
Exterior	10	4	Fence	Wood	Non-intact	0.06	Negative
Exterior (garage roof)	**10**		**Chimney over garage**			**7.92**	**Positive**
Exterior (garage roof)	**10**		**Flashing**			**1.55**	**Positive**
Exterior (garage roof)	**10**		**Flashing**			**1.43**	**Positive**
Exterior (garage roof)	**10**		**Lead Flashing**			**11.18**	**Positive**

Part 1 General

1.1 SCOPE

A. The work specified herein includes lead paint hazard reduction in accordance with The Department of Housing and Urban Development (HUD) Lead Safe Housing Rule (24 CFR 35) for all components and surfaces containing defective toxic levels of lead paint. The work shall be conducted to satisfy the requirements of federal HUD standards. Testing was performed in accordance with HUD and State of Connecticut protocols.

Property Information:

Address: 39 Shorefront Park, Norwalk, CT
(A single family residence)

Property Owner: Applicant #1118

Lead Testing Performed by:

Maureen Monaco – Lead Inspector /Risk Assessor #1172

Gilbertco Lead Inspections LLC- Consultant Contractor #270
287 Main Street
Ansonia, CT 06401
1-800-959-2985

Date of testing: June 10, 2014

Methodology: Handheld Scitec Map 4 (Keymaster/Bruker) XRF spectrum analyzer, K Shell emissions

Resident Information: Aplicant #1118

B. Prior to abatement or interim controls, repair work including but not limited to the repair of any leaks related to the deterioration of lead based painted surfaces is required. House is to be lifted .

C. Abatement or Lead Hazard Remediation includes the following methods:

- Replacement by removing components such as windows, doors, and trim that have lead painted surfaces and installing new lead free components.

- Rigid enclosure using enclosure system by mechanically attaching a rigid durable barrier covering building components with all edges and

seams sealed with caulk or other sealant. Enclosures are intended to prevent access and exposure to lead painted surfaces and provide a "dust –tight" system to trap and lead contaminated dust.

Appropriate enclosure materials include:

Surface Location	Covering Material
Exterior Trim	Aluminum or vinyl coil stock
Exterior Finish	Aluminum or vinyl siding
Interior Finish	Drywall, wainscoting
Steps	Vinyl or rubber tread and riser coverings
Floors	Underlayment and vinyl

- Liquid Encapsulation by application of an approved liquid coating that acts as a barrier between lead based paint and the environment.

- Paint removal by separation of lead paint from the surface of components. This activity may include the following methods when performed with the proper conditions and engineering controls:
  1. Mechanical removal by wet scraping or HEPA needle gun.
  2. Chemical removal by use of strippers in accordance with manufacturer's specifications.
  3. Heat Gun by heating the painted surface utilizing proper engineering controls and when temperature does not exceed 700 degrees F.

- Soil Hazard Reduction Methods may include

  1. Removal and replacement of lead contaminated soil by removing the top 2-6 inches of lead contaminated soil, disposing it in accordance with federal and state standards and replacing it with new lead free soil. EPA Guidance recommends this method when lead levels exceed 500 ppm.

  2. Permanent Cover of bare soil areas with concrete, asphalt, or other permanent materials; EPA Guidance recommends this method when lead concentrations in soil exceed 5000 ppm.

  3. Interim controls may include covering lead contaminated soil with grass, gravel, mulch, or restrictive elements such as fences, shrubbery, or decking to prevent access to contaminated soil. Interim controls require periodic monitoring to ensure that the cover or controls are in place.

D. Interim controls may be performed by personnel who have received the Renovate Right Certification from the EPA. Interim Controls are measures designed to temporarily reduce human exposure or likely exposure to lead paint hazards, including specialized cleaning, repairs, maintenance painting, and temporary containments.

E. The Contractor shall provide all labor, materials, equipment, services, insurance, supervision, and incidentals which are necessary or required to perform the work of lead paint remediation in accordance with applicable governmental regulations and these specifications.

F. The Contractor is responsible for restoring all auxiliary areas utilized during abatement to conditions equal to or better than original. The contractor shall, at no additional expense to the building owner, repair any damage caused to auxiliary areas during the performance of abatement activities.

G. The Contractor will protect and preserve in operating conditions, including all utilities transversing the building and site. Damage to any utility due to work under this contract shall be repaired to the reasonable satisfaction and at no cost to the building owner.

H. The Contractor shall coordinate work schedule and site access with the building owner. The contractor shall submit a schedule or work and shall be approved by the building owner prior to the commencement of work. The contractor shall be responsible for securing the building for the duration of the work.

I. The Contractor shall be responsible for removing and decontaminating movable objects from the work area. This should be coordinated with the building owner.

1.2 DESCRIPTION OF WORK

A. The site is single family ranch style home built about 1954. The exterior of the home is stained siding with vinyl replacements windows throughout.

B. The scope of work includes removing paint from the exterior sashes of two garage windows.

C. A CT Licensed Lead Abatement Contractor will be utilized to perform the required work.

D. All required lead based paint abatement work shall be conducted in compliance with HUD regulation 24 CFR Part 35.

E. Lead based paint is present on the similar painted components in the areas of the project as found in the inspection report attached. It is the responsibility of the Contractor to comply with the OSHA Construction industry Standard 29 CFR 1926.62 when conducting abatement activities which may disturb materials with lead based paint.

1.3 PERSONAL PROTECTION

A. Prior to commencement of work, instruct all workers in all aspects of personal protection, work procedures, emergency evacuation procedures and use of all equipment. A formal respiratory protection program including respiratory protection must be implemented in accordance with 29 CFR 1926.26 and 29 CFR 1910.134.

B. Contractor will provide appropriate respiratory and filters for protection equipment for each worker and ensure usage during potential dust exposure. Respirators shall be approved by the National Institute for Occupational Safety and Health under 30 CFR Part 11.

C. Contractor will provide and require workers to wear protective clothing in work areas where lead dust concentrations exceed permissible exposure limits established OSHA. This includes impervious coveralls with elastic wrists and ankles, head covering, gloves, and foot coverings.

1.4 PREPARATION OF LEAD CONTROL AREA

A. Post warning signs meeting EPA Renovate Right Program at each entrance and exit. Notification to tenants or owner must be made in writing.

B. Install an impermeable cloth or vinyl on ground under work area to collect paint dust, chips, and debris.

1.5 LEAD REMOVAL

A. A competent person shall be on the job site at all times to ensure proper work practices are followed.

B. Utilize wet methods to remove lead based paint and painted components in accordance with 29 CFR 1926.62 utilizing fine mist to moisten surface to prevent lead dust from becoming airborne.

C. At the end of each work shift remove and place all visible accumulation of paint chips and associated dust and debris. This includes rags, sponges and protective clothing.

D. The following practices are prohibited:
- Dry scraping
- Power tools for grinding, sanding, and cutting without HEPA vacuum dust collection

1.6 CLEAN-UP , VISUAL INSPECTION, FINAL INSPECTION

A. After a visual inspection, the Contractor will remove impermeable drop cloths.

B. The contractor will call Gilbertco Lead Inspections LLC (1-800-959-2985) or Facilities Support Services LLC at 1-203-288-1281 to do a visual inspection of the interior and exterior of the project to detect incomplete work, visible debris, or damage cause by abatement or remediation activity.

1.7 DISPOSAL OF HAZARDOUS LEAD BEARING WASTE

A. Materials associated with the abatement shall be disposed of as hazardous waste with a TCLP reading >5 mg/l. The contractor shall obtain a small quantity hazardous waste generator ID number from the State of Connecticut DEEP for the site, if hazardous waste generated exceeds 100 kilograms per month. Materials associated with this abatement include:
- Any lead containing or lead based paint debris
- Wood painted with lead based paint
- Stripped paint or paint chips
- Painted wall or ceiling plaster
- Painted concrete debris

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

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

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

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

HAZARDOUS LEAD WASTE

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

F. Payment for disposal of hazardous waste will not be made until a signed copy of the manifest from the treatment or disposal facility certifying the amount of lead-containing materials is returned and a copy is furnished.

ATTACHMENT C

ASBESTOS LABORATORY ANALYTICAL DATA

EMSL Analytical, Inc.
29 North Plains Highway, Unit # 4, Wallingford, CT 06492
Phone/Fax: 203-284-5948 / (203) 284-5978
http://www.EMSL.com wallingfordlab@emsl.com

EMSL Order:	241402231
CustomerID:	FSS93
CustomerPO:	
ProjectID:	

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

Hamden, CT 06517

Project: **22214-1118**

Phone:	(203) 288-1281
Fax:	(203) 248-4409
Received:	06/13/14 4:10 PM
Analysis Date:	6/16/2014
Collected:	

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**
20140610-1118-S1A *241402231-0001*	Grey mortar (basement window #1)	Gray Non-Fibrous Homogeneous	<1%	Cellulose	35% Quartz 40% Ca Carbonate 25% Non-fibrous (other)	**None Detected**
20140610-1118-S1B *241402231-0002*	Grey mortar (basement window #1)	White Non-Fibrous Homogeneous			30% Quartz 45% Ca Carbonate 25% Non-fibrous (other)	**None Detected**
20140610-1118-S1C *241402231-0003*	Grey mortar (basement window #1)	Brown Non-Fibrous Homogeneous			20% Quartz 15% Ca Carbonate 65% Non-fibrous (other)	**None Detected**
20140610-1118-S2A *241402231-0004*	Grey mortar (basement window #2)	Gray Non-Fibrous Homogeneous	<1%	Cellulose	30% Quartz 35% Ca Carbonate 35% Non-fibrous (other)	**None Detected**
20140610-1118-S2B *241402231-0005*	Grey mortar (basement window #2)	Gray Non-Fibrous Homogeneous			35% Quartz 40% Ca Carbonate 25% Non-fibrous (other)	**None Detected**
20140610-1118-S2C *241402231-0006*	Grey mortar (basement window #2)	Brown Non-Fibrous Homogeneous	2%	Cellulose	35% Quartz 40% Ca Carbonate 23% Non-fibrous (other)	**None Detected**
20140610-1118-S3A *241402231-0007*	Foundation cement	Gray Non-Fibrous Homogeneous			35% Quartz 40% Ca Carbonate 25% Non-fibrous (other)	**None Detected**

Analyst(s)

Kristin Lopez (10)
Lauren Brennan (5)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

Initial report from 06/16/2014 15:36:09

EMSL Analytical, Inc.
29 North Plains Highway, Unit # 4, Wallingford, CT 06492
Phone/Fax: 203-284-5948 / (203) 284-5978
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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**
20140610-1118-S3B *241402231-0008*	Foundation cement	Gray Non-Fibrous Homogeneous	<1%	Cellulose	30% 40% 30%	Quartz Ca Carbonate Non-fibrous (other)	**None Detected**
20140610-1118-S3C *241402231-0009*	Foundation cement	Brown Non-Fibrous Homogeneous	<1%	Cellulose	30% 35% 35%	Quartz Ca Carbonate Non-fibrous (other)	**None Detected**
20140610-1118-S4A *241402231-0010*	Spray foam insulation	White Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	**None Detected**
20140610-1118-S4B *241402231-0011*	Spray foam insulation	White Non-Fibrous Homogeneous	<1%	Cellulose	100%	Non-fibrous (other)	**None Detected**
20140610-1118-S4C *241402231-0012*	Spray foam insulation	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
20140610-1118-S5A *241402231-0013*	Chimney cement	Gray Non-Fibrous Homogeneous	<1%	Cellulose	10% 45% 45%	Quartz Ca Carbonate Non-fibrous (other)	**None Detected**
20140610-1118-S5B *241402231-0014*	Chimney cement	Gray Non-Fibrous Homogeneous	<1%	Cellulose	5% 45% 50%	Quartz Ca Carbonate Non-fibrous (other)	**None Detected**

Analyst(s)

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Initial report from 06/16/2014 15:36:09

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

Hamden, CT 06517

Project: **22214-1118**

Phone:	(203) 288-1281
Fax:	(203) 248-4409
Received:	06/13/14 4:10 PM
Analysis Date:	6/16/2014
Collected:	

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**
20140610-1118-S5C *241402231-0015*	Chimney cement	Gray Non-Fibrous Homogeneous		30% Quartz 40% Ca Carbonate 30% Non-fibrous (other)	**None Detected**

Analyst(s)

Kristin Lopez (10)
Lauren Brennan (5)

Gloria V. Oriol, Laboratory Manager
or other approved signatory

Initial report from 06/16/2014 15:36:09

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

EMSL Analytical, Inc.
29 North Plains Hwy
Unit 4
Wallingford, CT 06492
PHONE: (203) 284-5948
FAX: (203) 284-5978

Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*): 241402231

Company: Facilty Support Services, LLC	**EMSL-Bill to:** ☐ Different ☑ Same If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 2685 State Street	
City: Hamden **State/Province:** CT	**Zip/Postal Code:** 06517 **Country:** United States
Report To (Name): Kevin Bogue	**Telephone #:** 203-288-1281
Email Address: kbogue.fss@snet.net	**Fax #:** **Purchase Order:**
Project Name/Number: 22214-1118	**Please Provide Results:** ☐ FAX ☑ E-mail ☐ Mail
U.S. State Samples Taken: CT	**Connecticut Samples:** ☐ Commercial ☒ Residential

Turnaround Time (TAT) Options* – Please Check

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

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

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

PLM - Bulk (reporting limit)
- ☒ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

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

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

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

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

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

Other:
- ☐

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

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

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
20140610-1118-S1A	grey mortar (basement window #1)	1	6/10/14
S1B	↓	1	↓
S1C	↓	1	↓
20140610-1118-S2A	grey mortar (basement window #2)	2	↓
S2B	↓	2	↓
S2C	↓	2	↓
20140610-1118-S3A	foundation cement	3	↓
S3B	↓	3	↓

Client Sample # (s): S1A - S5C **Total # of Samples:** 15

Relinquished (Client): Kevin Bogue **Date:** 6/13/14 **Time:**

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

Comments/Special Instructions:

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JUN 13 2014
By 4:10 PM

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number (*Lab Use Only*): 241402231

EMSL Analytical, Inc.
29 North Plains Hwy
Unit 4
Wallingford, CT 06492
PHONE: (203) 284-5948
FAX: (203) 284-5978

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

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
S3C	Foundation cement	3	6/10/14
20140610-1108-S4A	Spray foam insulation	4	↓
S4B	↓	4	
S4C		4	
20140610-1118-S5A	Chimney cement	5	
S5B	↓	5	
S5C		5	

*Comments/Special Instructions:

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JUN 13 2014
By EM 4:10pm
Walk-in

ATTACHMENT D

FSS LICENSURE

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 - INSP/MGMT PLANNER

KEVIN S. BOGUE

LICENSE NO.
000157
CURRENT THROUGH
08/31/14
VALIDATION NO.
03-628349

SIGNATURE

COMMISSIONER