REPORT

PRE-DEMOLITION INVESTIGATIVE SURVEY FOR HAZARDOUS BUILDING MATERIALS NORWALK HALL FAIRFIELD HILLS COMPLEX NEWTOWN, CONNECTICUT

Prepared for

[redacted]

Prepared by

TRC

Windsor, Connecticut

January 5, 2015

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TRC
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Henry Laliberte
Project Manager

TRC Project No. 227406.00001
January 5, 2015

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EXECUTIVE SUMMARY

TRC of Windsor, Connecticut was retained by [redacted] to conduct a pre-demolition survey for hazardous materials at Norwalk Hall located at the Fairfield Hills Complex in Newtown, Connecticut. The survey included the inspection/assessment for asbestos containing materials (ACM), lead based/containing paint (LBP) and an inventory of other hazardous/regulated items associated with the property. The scope of work included an inspection of all interior and exterior areas of the building. The inspection of tunnel systems containing insulated steam pipe and domestic water or buried pipe was beyond the scope of these investigations. Insulated piping is known to exist in tunnels or as buried systems leading to all site buildings including Norwalk Hall. Heat and domestic water was supplied to site buildings through these tunnels and buried pipe systems from a central Power Plant. Insulation on these pipe systems is known to contain asbestos.

Connecticut licensed/EPA-trained asbestos inspectors from TRC conducted visual inspections and physical assessments of suspect asbestos containing materials (ACM) on the interior and exterior building components in accordance with USEPA AHERA/NESHAP protocols. To the extent feasible, existing data for this building was utilized; however, the majority of materials noted were assumed as ACM and not previously sampled, therefore a complete sampling of the materials identified during the survey was warranted to confirm/refute asbestos presence prior to demolition. Bulk samples of suspect materials were collected, properly transferred using chain-of-custody forms, and were brought to TRC's laboratory for analysis via polarized light microscopy (PLM) with visual area estimate (vae) techniques (EPA 600/R-93/116). Select non-friable organically bound (NOB) material samples (i.e. floor tiles, mastics, glazes/caulks, etc.) were sent out for transmission electron microscopy (TEM) EPA NOB 600/R-93/116 methods as appropriate in accordance with EPA and CTDPH analytical protocols. ACM was identified throughout the site as plaster walls, plaster ceilings (finished), plaster ceilings (beneath ceiling tile/glue daubs), ceiling tile/glue daubs, hardpack pipe insulation, pressed paper insulation, mudded pipe fitting insulation, thermal insulation debris, 9"X9" floor tile with associated mastics (various types), 6"X6" floor tile with associated mastics, 12"X12" floor tile with associated mastics, 4"X4" floor tile with associated mastics, dark tan wall panel glue, dark yellow wall panel glue, white brittle exterior window/door/building caulk, exterior window glaze (attic), transite roof shingles, asphalt roof/building flashing materials, pipe flange gaskets and fire doors. ACM to be impacted by

demolition activities must be removed prior to disturbance in accordance with OSHA, USEPA, CTDPH, and CTDEEP standards for asbestos abatement/disposal. Detailed results of the asbestos survey can be found in Tables 1-3 and Appendices A through E.

Connecticut licensed/EPA trained lead inspectors from TRC conducted a screening for lead based/containing paint throughout the interior and exterior of all building sections using an on-site x-ray fluorescence (XRF) lead detector. Low levels (<1.0 mg/cm^2) and high levels (>1.0 mg/cm^2) of lead paint were identified on various non-metallic components on the structures that are scheduled for impact. High and low levels of lead paint were identified on metal columns, metal beams, and on metal exterior doors. Exposure levels for lead in the construction industry are regulated by OSHA 29 CFR 1926.62. Demolition activities disturbing surfaces containing lead paint which are likely to be employed, such as grinding, cutting, and demolishing, have been known to expose workers to airborne levels of lead in excess of the permissible exposure limit (PEL). The Contractor shall conduct demolition work in conformance with the OSHA regulations, utilizing engineering controls and personal protective equipment. Detailed results of the lead based/containing paint screening can be found in Table 4 and Appendix F.

Disposal of construction waste containing lead paint is subject to regulation under both the CTDEEP Hazardous and Special Waste Management (22a-209-1 through 16; 22a-449(c)-11; 22a-449(c)-13; 22a-449(c)-100 through 110; and 22a-454) and USEPA RCRA Hazardous Waste Management (40 CFR Parts 260 through 274) regulations. Toxicity characteristic leaching procedure (TCLP) testing of the non-metallic building material components was conducted and the composite building material sample was found to contain an acceptable concentration of lead at 1.2 mg/liter. Clean brick and concrete were excluded from the composite sample since these materials are typically recycled or crushed for fill. Also excluded from the TCLP were asbestos containing plasters and roofing materials. The building materials are considered non hazardous for lead and can be disposed as non-hazardous C&D in accordance with CTDEEP/EPA regulations. Further, scrap metal is exempt from regulation under the CTDEEP/USEPA Hazardous Waste Regulations, regardless of lead content, provided it is properly recycled. The Contractor shall recycle any lead painted scrap metal at an approved scrap metal recycling facility. Detailed results of the waste characterization sampling can be found in Table 5 as well as Appendix G.

TRC's inspectors also conducted a visual inventory inspection to identify and quantify other potentially hazardous or regulated materials, wastes or items within the building. Items inventoried included materials such as mercury fluorescent lamps, PCB ballasts, mercury thermostat ampoules, exit signs, emergency lights, CFC's, spotlights, used electronic devices, batteries, etc. Hazardous/regulated materials/wastes/items visually identified were then categorized according to their potential hazard. Numerous types of potentially hazardous/regulated materials/wastes/items were identified in the building, including substantial quantities of universal waste lamps (Hg), ballasts (PCB, DEHP & Electronic), batteries, CFC's, a transformer, universal waste, used electronic devices (printed circuit boards) among others. These materials will require proper collection, packing, handling and disposal/recycling prior to building demolition in accordance with EPA RCRA and CTDEEP waste disposal standards. A detailed inventory of the additional hazardous/regulated materials/wastes/items visually identified can be found in Table 6.

Being that PCB use began in 1950 and that PCBs were banned for use in 1979 by the EPA, TRC excluded sampling caulks and glazes for PCBs since the building was constructed circa 1934 and renovations involving caulks or glazes were not identified during the site inspections.

CONDITIONS AND LIMITATIONS-DISCLAIMER:

TRC has performed this Hazardous Materials Assessment in a manner consistent with commonly accepted industry standards and in accordance with the TRC proposal dated November 18, 2014. The results reported are true and correct to the best of TRC's knowledge, and within the limitations of the instrumentation and protocols used in accordance with the Proposal. The results and opinions in this report, based solely on the conditions found at the subject property on the date(s) of the evaluation, are valid only on that/those date(s). TRC assumes no obligation to advise the client of any changes in any real or potential hazards and/or quantities & state of items at the subject site beyond the date(s) of the evaluation.

Data provided in the Assessment Report is for informational purposes only. Under no circumstances shall this information be the sole means for determining the presence and locations of all hazardous materials found at the subject site and/or for bidding purposes.

PROJECT OUTLINE

Project Address:	Norwalk Hall, Fairfield Hills Complex, Newtown, CT
TRC Project No.:	227406.00001
TRC Project Manager:	Henry J. Laliberte
Asbestos Inspectors:	Jonathan Gentile (LIC #000603) Thomas Martin (LIC #000014)
Lead Inspector:	Thomas Martin (LIC #002079)
Date of Inspection:	12/1/14-12/4/14
Asbestos Identified:	Yes
Lead Based Paint Identified:	Yes
Gen. Bldg. Mat. Haz Waste:	No, 1.2 mg/liter
Add'l Haz./Reg. Mat./Waste/Items:	Yes (See Table 6)
Initial Asbestos Abatement Cost Est:	$907,184
Haz Mat Cost Estimate:	$28,542

TABLES

TABLE 1
BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS
NORWALK HALL
FAIRFIELD HILLS COMPLEX
NEWTOWN, CONNECTICUT

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
1	Room 125	White Skim Wall Plaster (PL1)	ND<1%*
		Grey Basecoat Wall Plaster (PL1)	0.74% chrysotile*
2	1st Floor Central Hall	White Skim Wall Plaster (PL1)	ND<1%*
		Grey Basecoat Wall Plaster (PL1)	0.25% chrysotile*
3	Room 122	White Skim Wall Plaster (PL1)	ND<1%*
		Grey Basecoat Wall Plaster (PL1)	0.95% chrysotile*
4	Room 229	White Skim Wall Plaster (PL1)	ND<1%*
		Grey Basecoat Wall Plaster (PL1)	0.96% chrysotile*
5	Room 236	White Skim Wall Plaster (PL1)	ND<1%*
		Grey Basecoat Wall Plaster (PL1)	0.96% chrysotile*
6	2nd Floor North Hallway	White Skim Wall Plaster (PL1)	ND<1%*
		Grey Basecoat Wall Plaster (PL1)	0.50% chrysotile*
7	3rd Floor Hallway	White Skim Wall Plaster (PL1)	ND<1%*
		Grey Basecoat Wall Plaster (PL1)	2.02% chrysotile*
8	Basement Central Room	White Skim Wall Plaster (PL1)	ND<1%*
		Grey Basecoat Wall Plaster (PL1)	0.50% chrysotile*
9	Basement Central Room	White Skim Wall Plaster (PL1)	ND<1%*
		Grey Basecoat Wall Plaster (PL1)	0.41% chrysotile*
10	1st Floor Hall Ceiling	Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)	0.51% chrysotile*
11	1st Floor Hall Ceiling	Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)	0.73% chrysotile*
12	1st Floor Hall Ceiling	Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)	1.72% chrysotile*
13	2nd Floor Hall Ceiling	Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)	0.73% chrysotile*
14	2nd Floor Hall Ceiling	Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)	1.25% chrysotile*
15	2nd Floor Hall Ceiling	Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)	1.49% chrysotile*

NA/PVA Not analyzed/positive via inseparable association with a confirmed positive ACM
NA/PS Not analyzed/positive stop, homogeneous to sample proven to contain asbestos
ND<1% Non-detected, less than 1%
NAD No asbestos detected
\+ Although found to be negative by analysis, material is homogeneous to a determined ACM and therefore must be considered positive
1 Result confirmed by TEM analyses
* Quantified by PLM Point Counting techniques

TABLE 1 (…continued)
BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS
NORWALK HALL
FAIRFIELD HILLS COMPLEX
NEWTOWN, CONNECTICUT

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
16	3rd Floor Hall Ceiling	Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)	0.95% chrysotile*
17	Basement Central Room Ceiling	Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)	1.48% chrysotile*
18	Basement Central Room Ceiling	Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)	1.44% chrysotile*
19	Room 108	White Skim Room Ceiling Plaster (PL3)	ND<1%*
		Tan Basecoat Room Ceiling Plaster (PL3)	0.70% chrysotile*
20	Room 123	White Skim Room Ceiling Plaster (PL3)	ND<1%*
		Tan Basecoat Room Ceiling Plaster (PL3)	0.13% chrysotile*
21	Room 123	White Skim Room Ceiling Plaster (PL3)	ND<1%*
		Tan Basecoat Room Ceiling Plaster (PL3)	0.52% chrysotile*
22	Room 218	White Skim Room Ceiling Plaster (PL3)	ND<1%*
		Tan Basecoat Room Ceiling Plaster (PL3)	0.45% chrysotile*
23	Room 214	White Skim Room Ceiling Plaster (PL3)	ND<1%*
		Tan Basecoat Room Ceiling Plaster (PL3)	0.64% chrysotile*
24	Room 202	White Skim Room Ceiling Plaster (PL3)	ND<1%*
		Tan Basecoat Room Ceiling Plaster (PL3)	1.08% chrysotile*
25	Room 305	White Skim Room Ceiling Plaster (PL3)	ND<1%*
		Tan Basecoat Room Ceiling Plaster (PL3)	1.38% chrysotile*
26	Room 305	White Skim Room Ceiling Plaster (PL3)	ND<1%*
		Tan Basecoat Room Ceiling Plaster (PL3)	0.22% chrysotile*

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TABLE 1 (…continued)
BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS
NORWALK HALL
FAIRFIELD HILLS COMPLEX
NEWTOWN, CONNECTICUT

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
27	Basement Hall o/s South Bathroom	White Skim Room Ceiling Plaster (PL3)	ND<1%*
		Tan Basecoat Room Ceiling Plaster (PL3)	1.58% chrysotile*
28	Exterior Main Entry Columns	Tan Decorative Molding Plaster (PL4)	ND<1%*
29	Exterior Main Entry Columns	Tan Decorative Molding Plaster (PL4)	ND<1%*
30	Exterior Main Entry Columns	Tan Decorative Molding Plaster (PL4)	ND<1%*
31	Room 122	Hard-Packed Pipe Insulation (PI1)	20% chrysotile
32	South Attic	Hard-Packed Pipe Insulation (PI1)	NA/PS
33	South Attic	Hard-Packed Pipe Insulation (PI1)	NA/PS
34	Central Attic	Pressed Paper Pipe Insulation (PI2)	20% chrysotile
35	Central Attic	Pressed Paper Pipe Insulation (PI2)	NA/PS
36	Central Attic	Pressed Paper Pipe Insulation (PI2)	NA/PS
37	South Attic	Mudded Fitting Insulation (MF1)	80% chrysotile
38	South Attic	Mudded Fitting Insulation (MF1)	NA/PS
39	Room 138	9" Brown w/Streaks Floor Tile (FT1)	5% chrysotile
		Black Mastic (FT1)	10% chrysotile
40	Room 134	9" Brown w/Streaks Floor Tile (FT1)	NA/PS
		Black Mastic (FT1)	NA/PS
41	1ST Floor Hallway	9" Tan w/Streaks Floor Tile (FT2)	10% chrysotile
		Black Mastic (FT2)	ND<1%
42	2nd Floor South Hallway	9" Tan w/Streaks Floor Tile (FT2)	NA/PS
		Black Mastic (FT2)	Trace chrysotile[1]
43	Room 138	9" Black w/Tan Streaks Floor Tile (FT3)	10% chrysotile
		Black Mastic (FT3)	ND<1%
44	Room 125	9" Black w/Tan Streaks Floor Tile (FT3)	NA/PS
		Black Mastic (FT3)	6.98% chrysotile[1]

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TABLE 1 (...continued)
BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS
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FAIRFIELD HILLS COMPLEX
NEWTOWN, CONNECTICUT

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
45	Room 138 Closet	6" Dark Beige Floor Tile (FT4)	10% chrysotile
		Black Mastic (FT4)	3% chrysotile
46	Room 207	6" Dark Beige Floor Tile (FT4)	NA/PS
		Black Mastic (FT4)	NA/PS
47	Room 131	12" Off-White Floor Tile (FT5)	3% chrysotile
		Black Mastic (FT5)	10% chrysotile
48	Room 202	12" Off-White Floor Tile (FT5)	NA/PS
		Black Mastic (FT5)	NA/PS
49	Room 131	12" Black Border Floor Tile (FT6)	3% chrysotile
		Black Mastic (FT6)	10% chrysotile
50	Room 121	12" Black Border Floor Tile (FT6)	NA/PS
		Black Mastic (FT6)	NA/PS
51	2nd Floor South Closet	9" Grey Floor Tile (FT7)	10% chrysotile
		Black Mastic (FT7)	10% chrysotile
52	2nd Floor South Closet	9" Grey Floor Tile (FT7)	NA/PS
		Black Mastic (FT7)	NA/PS
53	Room 312	12" Grey Floor Tile (FT8)	3% chrysotile
		Black Mastic (FT8)	10% chrysotile
54	Room 312	12" Grey Floor Tile (FT8)	NA/PS
		Black Mastic (FT8)	NA/PS
55	Elevator	4" Black/Tan Checkerboard Pattern Floor Tile (FT9)	10% chrysotile
		Black Mastic (FT9)	ND<1%
56	Elevator	4" Black/Tan Checkerboard Pattern Floor Tile (FT9)	NA/PS
		Black Mastic (FT9)	7.23% chrysotile[1]
57	1st Floor South Hall	Dark Brown Ceiling Tile Glue Daubs (G1)	10% chrysotile

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NAD No asbestos detected
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TABLE 1 (...continued)
BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS
NORWALK HALL
FAIRFIELD HILLS COMPLEX
NEWTOWN, CONNECTICUT

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
58	2nd Floor South Hall	Dark Brown Ceiling Tile Glue Daubs (G1)	NA/PS
59	1st Floor North Hallway	Dark Tan Wall Panel Glue (G2)	3% chrysotile
60	1st Floor North Hallway	Dark Tan Wall Panel Glue (G2)	NA/PS
61	1st Floor South Hallway	Dark Yellow Wall Panel Glue (G3)	ND<1%
62	1st Floor South Hallway	Dark Yellow Wall Panel Glue (G3)	2.02% chrysotile[1]
63	2nd Floor Women's Bathroom	Dark Yellow Ceramic Wall Tile Glue (G4)	ND<1%
64	2nd Floor Women's Bathroom	Dark Yellow Ceramic Wall Tile Glue (G4)	ND<1%[1]
65	3rd Floor Doorway to Attic	Tan Glue (G5)	ND<1%
66	3rd Floor Doorway to Attic	Tan Glue (G5)	ND<1%[1]
67	2nd Floor Women's Bathroom	Ceramic Wall Tile Grout (GR1)	ND<1%
68	3rd Floor Bathroom	Ceramic Wall Tile Grout (GR1)	ND<1%
69	2nd Floor Women's Bathroom	Ceramic Floor Tile Grout (GR2)	ND<1%
70	2nd Floor Women's Bathroom	Ceramic Floor Tile Grout (GR2)	ND<1%
71	1st Floor North Hallway	Thick Brown Mesh-Backed Wall Panel (WP1)	ND<1%
72	1st Floor North Hallway	Thick Brown Mesh-Backed Wall Panel (WP1)	ND<1%[1]
73	Ext A Side Wdw	White Brittle Exterior Window/Door Caulk (C1)	10% chrysotile
74	Ext D Side Wdw	White Brittle Exterior Window/Door Caulk (C1)	NA/PS
75	1st Floor Bathroom	Hard White Tub Caulk (C2)	ND<1%
76	1st Floor Bathroom	Hard White Tub Caulk (C2)	ND<1%[1]
77	Rear Entry (C Side) Roof	Hard Grey Exterior Roof Caulk (C3)	ND<1%
78	Rear Entry (C Side) Roof	Hard Grey Exterior Roof Caulk (C3)	ND<1%[1]
79	Exterior Windows	Lt Grey Ext Wood Window Glaze (WG1)	ND<1%

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NA/PS Not analyzed/positive stop, homogeneous to sample proven to contain asbestos
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TABLE 1 (...continued) BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS NORWALK HALL FAIRFIELD HILLS COMPLEX NEWTOWN, CONNECTICUT			
Sample No.	**Sample Location**	**Type of Homogeneous Material**	**% and Type Asbestos**
80	Exterior Windows	Lt Grey Ext Wood Window Glaze (WG1)	ND<1%[1]
81	South Side Attic	Grey Round Wood Ext Window Glaze (WG2)	ND<1%
82	South Side Attic	Grey Round Wood Ext Window Glaze (WG2)	ND<1%[1]
83	South Side Attic	Sm Narrow Wood Ext Window Glaze (WG3)	ND<1%
84	South Side Attic	Sm Narrow Wood Ext Window Glaze (WG3)	ND<1%[1]
85	Center Attic	¼ Round Ext Window Glaze (WG4)	5% chrysotile
86	Center Attic	¼ Round Ext Window Glaze (WG4)	NA/PS
87	Room 122	Wiring Insulation (W1)	ND<1%
88	Room 122	Wiring Insulation (W1)	ND<1%
89	Room 222 behind Plaster	Black Vapor Barrier behind Plaster Walls (VB1)	ND<1%
90	Room 233 behind Plaster	Black Vapor Barrier behind Plaster Walls (VB1)	ND<1%[1]
91	Roof under R1	Thick Black Felt Paper Vapor Barrier (VB2)	ND<1%
92	Roof under R1	Thick Black Felt Paper Vapor Barrier (VB2)	Trace chrysotile[1]
93	Ext D Side Behind Limestone Window Sill	Thin Tar Vapor Barrier under/behind Ext Window Sills (VB3)	ND<1%
94	Ext D Side Behind Limestone Window Sill	Thin Tar Vapor Barrier under/behind Ext Window Sills (VB3)	ND<1%[1]
95	South Side Roof	Transite Roof Shingles (R1)	20% chrysotile
96	South Side Roof	Transite Roof Shingles (R1)	NA/PS
97	South Side Roof Sm Addition	Asphalt Roof Shingles (R2)	ND<1%
98	South Side Roof Sm Addition	Asphalt Roof Shingles (R2)	ND<1%[1]

NA/PVA Not analyzed/positive via inseparable association with a confirmed positive ACM
NA/PS Not analyzed/positive stop, homogeneous to sample proven to contain asbestos
ND<1% Non-detected, less than 1%
NAD No asbestos detected
\+ Although found to be negative by analysis, material is homogeneous to a determined ACM and therefore must be considered positive
1 Result confirmed by TEM analyses
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TABLE 1 (...continued)
BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS
NORWALK HALL
FAIRFIELD HILLS COMPLEX
NEWTOWN, CONNECTICUT

Sample No.	Sample Location	Type of Homogeneous Material	% and Type Asbestos
99	Rear Entrance Overhang	Rear Entrance Overhang Roofing (R3)	ND<1%
100	Rear Entrance Overhang	Rear Entrance Overhang Roofing (R3)	ND<1%[1]

NA/PVA Not analyzed/positive via inseparable association with a confirmed positive ACM
NA/PS Not analyzed/positive stop, homogeneous to sample proven to contain asbestos
ND<1% Non-detected, less than 1%
NAD No asbestos detected
\+ Although found to be negative by analysis, material is homogeneous to a determined ACM and therefore must be considered positive
1 Result confirmed by TEM analyses
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TABLE 1 (…continued) BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS NORWALK HALL FAIRFIELD HILLS COMPLEX NEWTOWN, CONNECTICUT
CORE SAMPLING 12/1/14
Suspect asbestos containing vapor barriers or mastics were not identified in any concrete slab core samples.

NA/PVA	Not analyzed/positive via inseparable association with a confirmed positive ACM
NA/PS	Not analyzed/positive stop, homogeneous to sample proven to contain asbestos
ND<1%	Non-detected, less than 1%
NAD	No asbestos detected
+	Although found to be negative by analysis, material is homogeneous to a determined ACM and therefore must be considered positive
1	Result confirmed by TEM analyses
*	Quantified by PLM Point Counting techniques

TABLE 2
IDENTIFIED ASBESTOS CONTAINING MATERIALS (>1%)
NORWALK HALL
FAIRFIELD HILLS COMPLEX
NEWTOWN, CONNECTICUT

Material	Sampled/ Assumed (mo/yr)	General Location	NESHAP Category	AHERA Category	Estimated Quantity
Grey Basecoat Wall Plaster (PL1)	Sampled 12/14	Throughout	Category II Non-friable	Surfacing	55,600 SF
Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)	Sampled 12/14	All hallways and rooms which were designed with ceiling tile/glue daubs	Category II Non-friable	Surfacing	9,950 SF
Tan Basecoat Room Ceiling Plaster (PL3)	Sampled 12/14	All areas with finished plaster ceilings	Category II Non-friable	Surfacing	18,150 SF
All types of asbestos pipe insulation and mudded fittings	Sampled 12/14	Basement	Friable	Thermal system insulation	2,120 LF
All types of asbestos pipe insulation and mudded fittings	Sampled 12/14	First Floor	Friable	Thermal system insulation	4,290 LF
All types of asbestos pipe insulation and mudded fittings	Sampled 12/14	Second Floor	Friable	Thermal system insulation	3,174 LF
All types of asbestos pipe insulation and mudded fittings	Sampled 12/14	Third Floor	Friable	Thermal system insulation	1,140 LF
All types of asbestos pipe insulation and mudded fittings	Sampled 12/14	Attic	Friable	Thermal system insulation	800 LF
Thermal Insulation Debris	Sampled 12/14	Basement	Friable	Thermal system insulation	5,800 SF

AHERA Categories = thermal system insulation (TSI), surfacing material or miscellaneous
NESHAP Categories = friable, category I non-friable or category II non-friable
Friable = crumbled, pulverized or reduced to powder by hand pressure when dry
Category I Non-friable = packings, gaskets, resilient floor covering and asphalt roofing
Category II Non-friable = all non-friable that is not Category I
+=Additional mudded fittings may exist in inaccessible building locations

TABLE 2
IDENTIFIED ASBESTOS CONTAINING MATERIALS (>1%)
NORWALK HALL
FAIRFIELD HILLS COMPLEX
NEWTOWN, CONNECTICUT

Material	Sampled/ Assumed (mo/yr)	General Location	NESHAP Category	AHERA Category	Estimated Quantity
All types of floor tile with associated mastics	Sampled 12/14	Central Basement Locations (all floor tile with associated mastics are ACM)	Category I Non-friable	Miscellaneous	3,600 SF
All types of floor tile with associated mastics	Sampled 12/14	Throughout First Floor (all floor tile with associated mastics are ACM)	Category I Non-friable	Miscellaneous	10,000 SF
All types of floor tile with associated mastics	Sampled 12/14	Throughout Second Floor (all floor tile with associated mastics are ACM)	Category I Non-friable	Miscellaneous	10,000 SF
All types of floor tile with associated mastics	Sampled 12/14	Throughout Third Floor (all floor tile with associated mastics are ACM)	Category I Non-friable	Miscellaneous	3,600 SF
Dark Brown Ceiling Tile Glue Daubs (G1)	Sampled 12/14	Hallways on all floors	Category I Non-friable	Miscellaneous	9,950 SF
Dark Tan Wall Panel Glue (G2)	Sampled 12/14	First floor, north hallway	Category II Non-friable	Miscellaneous	1,800 SF
Dark Yellow Wall Panel Glue (G3)	Sampled 12/14	1st Floor South Hallway	Category II Non-friable	Miscellaneous	1,800 SF
White Brittle Exterior Window/Door/Building Caulk (C1)	Sampled 12/14	All exterior window, door and building caulk	Category II Non-friable	Miscellaneous	8,000 LF

AHERA Categories = thermal system insulation (TSI), surfacing material or miscellaneous
NESHAP Categories = friable, category I non-friable or category II non-friable
Friable = crumbled, pulverized or reduced to powder by hand pressure when dry
Category I Non-friable = packings, gaskets, resilient floor covering and asphalt roofing
Category II Non-friable = all non-friable that is not Category I
+=Additional mudded fittings may exist in inaccessible building locations

TABLE 2 (...continued)
IDENTIFIED ASBESTOS CONTAINING MATERIALS (>1%)
NORWALK HALL
FAIRFIELD HILLS COMPLEX
NEWTOWN, CONNECTICUT

Material	Sampled/ Assumed (mo/yr)	General Location	NESHAP Category	AHERA Category	Estimated Quantity
¼ Round Ext Window Glaze (WG4)	Sampled 7/13	Center attic	Category II Non-friable	Miscellaneous	4 EA
Transite roof shingles	Sampled 12/14	All roofs	Category II Non-friable	Miscellaneous	14,000 SF
Asphalt roof/building flashing materials	Assumed 12/14	All roofs and exterior building areas	Category I Non-friable	Miscellaneous	500 LF
Pipe flange gaskets	Assumed 12/14	Throughout	Category I Non-friable	Miscellaneous	50 EA
Fire doors	Assumed 12/14	Throughout	Category II Non-friable	Miscellaneous	10 EA

**** Roof tars have been completely exempted from OSHA Asbestos regulations and, as a Category I Non-friable material, do not need to be removed from a structure prior to renovation/demolition under EPA Asbestos NESHAP regulations and, so long as the materials are exterior to a structure and will remain Category I Non-friable materials during renovation/demolition, are not covered under the CTDPH Asbestos Abatement standards. In addition, as Category I Non-friable materials, the roof tars do not need to be disposed of as asbestos waste under the EPA Asbestos NESHAP regulations; however, the CTDEEP special waste regulations would not allow the material to be disposed of as general construction waste within the State of Connecticut. Disposal of the roof tars as general construction waste (so long as the materials are not rendered into a state which would define them as regulated asbestos-containing materials (RACM), i.e., friable) is, however, allowed in other states such as Massachusetts.***

AHERA Categories = thermal system insulation (TSI), surfacing material or miscellaneous
NESHAP Categories = friable, category I non-friable or category II non-friable
Friable = crumbled, pulverized or reduced to powder by hand pressure when dry
Category I Non-friable = packings, gaskets, resilient floor covering and asphalt roofing
Category II Non-friable = all non-friable that is not Category I
+=Additional mudded fittings may exist in inaccessible building locations

TABLE 3 CONFIRMED NON-ASBESTOS CONTAINING MATERIALS (<1%) NORWALK HALL FAIRFIELD HILLS COMPLEX NEWTOWN, CONNECTICUT	
Material	**General Location**
Tan Decorative Molding Plaster (PL4)	Exterior Main Entry Columns
Dark Yellow Ceramic Wall Tile Glue (G4)	2nd Floor Women's Bathroom
Tan Glue (G5)	3rd Floor Doorway to Attic
Ceramic Wall Tile Grout (GR1)	3rd Floor Bathroom
Ceramic Floor Tile Grout (GR2)	2nd Floor Women's Bathroom
Thick Brown Mesh-Backed Wall Panel (WP1)	1st Floor North Hallway
Hard White Tub Caulk (C2)	1st Floor Bathroom
Hard Grey Exterior Roof Caulk (C3)	Rear Entry (C Side) Roof
Lt Grey Ext Wood Window Glaze (WG1)	Exterior Windows
Grey Round Wood Ext Window Glaze (WG2)	North and South Side Attics
Small Narrow Wood Ext Window Glaze (WG3)	North and South Side Attics
Wiring Insulation (W1)	Throughout
Black Vapor Barrier behind Plaster Walls (VB1)	Behind Plaster Walls
Thick Black Felt Paper Vapor Barrier (VB2)	Roof under R1
Thin Tar Vapor Barrier under/behind Ext Window Sills (VB3)	Beneath Limestone Window Sills
Asphalt Roof Shingles (R2)	South Side Roof Small Addition
Rear Entrance Overhang Roofing (R3)	Rear Entrance Overhang

**** However, associated layers are positive.***

TABLE 4 SUMMARY OF LEAD PAINT XRF MEASUREMENTS NORWALK HALL FAIRFIELD HILLS COMPLEX NEWTOWN, CONNECTICUT					
Structure	**No. of Measurements**	**Calibrations**	**Void**	**Lead Detected**	**No Lead Detected**
Norwalk Hall	121	14	0	107	0

See Lead Paint XRF Measurement Table in Appendix F.

TABLE 5
SUMMARY OF COMPOSITE BUILDING MATERIAL WASTE CHARACTERIZATION
NORWALK HALL
FAIRFIELD HILLS COMPLEX
NEWTOWN, CONNECTICUT

Waste Stream	Metal	mg/L Leachate	Hazardous/Non-Hazardous
Sample #1 Norwalk House Building Material Composite (Excluding metal substrates and "clean" concrete/brick)	Arsenic	---	Analyte not tested
	Barium	---	Analyte not tested
	Cadmium	---	Analyte not tested
	Chromium	---	Analyte not tested
	Lead	1.2	Non-Hazardous
	Mercury	---	Analyte not tested
	Selenium	---	Analyte not tested
	Silver	---	Analyte not tested

Each sample was analyzed following the Toxicity Characteristic Leaching Procedure (TCLP) for the Resource Conservation Recovery Act (RCRA) Metals most likely to be present in this type of structure. The sample was a composite of various wood materials and other building materials and was collected per CTDEEP sampling guidelines in approximate percent by weight proportions to represent the building as a whole. The sample did not include any metal components, as metal items should be recycled to promote waste minimization efforts, rather than disposed of, and the recycling operation is exempt from the USEPA RCRA and CTDEEP Hazardous Waste regulations. In addition, plaster, transite roofing and other asbestos containing materials were excluded from this composite sample because they would have been removed prior to demolition. In most instances, the sample will not include "clean" foundation materials (concrete/stone/etc.), as these materials are used as clean fill during the demolition process or are recycled and are therefore not part of the waste disposal stream.

BDL - Below Detection Limit
ND - Not Detected

TABLE 6
INVENTORY OF ADDITIONAL HAZARDOUS/REGULATED MATERIALS, WASTES AND ITEMS IDENTIFIED
NORWALK HALL
FAIRFIELD HILLS COMPLEX
NEWTOWN, CONNECTICUT

Quantity	Size	Material/Item	General Location	Potential Hazard
Five (5)		Fluorescent bulbs	Basement	UW – Hg lamps
Five (5)		Ballasts	Basement	CRW – PCB ballasts
Two (2)		Oil filled door closing hinges	Basement	CRW – oil
One (1)		Emergency exit signs	Basement	UW – Hg switch UW – used electronics (printed circuit boards)
One (1)		Emergency light unit	Basement	UW – Hg switch UW – used electronics (printed circuit boards)
Twenty eight (28)		Power back up battery unit – wet cell alkali nickel/cadmium	Basement	UW – batteries (Ni-Cd battery or Pb-acid battery)
One (1)		Large transformer	Basement, north end	CRW – PCB oil
One (1)		Elevator battery	Basement, south end	UW – batteries (Ni-Cd battery or Pb-acid battery)
Four (4)		Emergency exit signs (stairwell doors) - batteries	First Floor	UW – batteries (Ni-Cd battery or Pb-acid battery)
One (1)		Water bubbler unit	First Floor, hallway	CFCs - Freon
Eight (8)		Oil filled door closing hinges	First Floor	CRW – oil
One (1)		Mercury switch (in box)	First Floor	UW – Hg ampoule
Scattered		Guano droppings	First Floor	Bio waste
Two (2)		Emergency exit signs (stairwell doors) - batteries	Second floor	UW – batteries (Ni-Cd battery or Pb-acid battery)
One (1)		Water bubbler unit	Second floor	CFCs - Freon
Two (2)		Oil filled door closing hinges	Second floor	CRW – oil
Scattered		Guano droppings	Second floor	Bio waste
Three (3)		Oil filled door closing hinges	Third floor	CRW – oil
One (1)		Emergency exit signs	Third floor	UW – Hg switch UW – used electronics (printed circuit boards)
One (1)	Can	Ajax	Third floor, room 307	CRW – waste chemical solid

CRW- Connecticut Regulated Waste – PCBs (CR01), Oils (CR02/CR03), waste chemical liquids - antifreeze, latex & solvent paints, sludges, etc. (CR04), waste chemical solids (CR05)
UW- Universal Waste (batteries, thermostat ampoules, fluorescent lamps, used electronics)
IH- Inhalation hazard (silicas, etc.)
I- Ignitable - may contain ingredients which are ignitable (materials which have a flashpoint <140°F) (D001)
C- Corrosive - may contain ingredients which are alkaline or acidic (materials with a PH<2 or >12.5) (D002)
T- Toxic - may contain ingredients which are harmful if swallowed or which release vapors that can cause irritation
R- Reactive – may contain ingredients which are unstable, react violently with water or are explosive (D003)

TABLE 6 (...continued)
INVENTORY OF ADDITIONAL HAZARDOUS/REGULATED MATERIALS, WASTES AND ITEMS IDENTIFIED
NORWALK HALL
FAIRFIELD HILLS COMPLEX
NEWTOWN, CONNECTICUT

Quantity	Size	Material/Item	General Location	Potential Hazard
One (1)	Bottle	Shampoo	Third floor, room 307	CRW – waste chemical liquid
One (1)		Disinfectant - aerosol	Third floor, room 307	CRW – waste chemical liquid
One (1)		Rug shampoo	Third floor, room 307	CRW – waste chemical liquid
One (1)	Quart	Unknown spray bottle	Third floor, room 307	CRW – waste chemical liquid
One (1)		Raid insecticide	Third floor, room 307	CRW – waste chemical liquid
One (1)		Coffee maker (old)	Third floor, room 307	UW – used electronics (printed circuit boards)
Scattered		Guano droppings	Third floor, north closet	Bio waste
Scattered		Guano droppings	Center attic	Bio waste
One (1)		Dead bird	Center attic	Bio waste
Scattered		Guano droppings	North attic	Bio waste
Scattered		Guano droppings	South attic	Bio waste
One (1)		Dead squirrel	South attic	Bio waste
One (1)		Elevator motor/hydraulics	South attic	CRW – oil
One (1)		Spotlight with solar panel	Exterior, northeast corner	UW – Hg lamps UW – used electronics (printed circuit boards)
One (1)		Spotlight	Exterior, east entrance	UW – Hg lamps UW – used electronics (printed circuit boards)
One (1)		Spotlight	Exterior, southwest corner	UW – Hg lamps UW – used electronics (printed circuit boards)
One (1)		Spotlight	Exterior, west entrance	UW – Hg lamps UW – used electronics (printed circuit boards)

CRW- Connecticut Regulated Waste – PCBs (CR01), Oils (CR02/CR03), waste chemical liquids - antifreeze, latex & solvent paints, sludges, etc. (CR04), waste chemical solids (CR05)
UW- Universal Waste (batteries, thermostat ampoules, fluorescent lamps, used electronics)
IH- Inhalation hazard (silicas, etc.)
I- Ignitable - may contain ingredients which are ignitable (materials which have a flashpoint <140°F) (D001)
C- Corrosive - may contain ingredients which are alkaline or acidic (materials with a PH<2 or >12.5) (D002)
T- Toxic - may contain ingredients which are harmful if swallowed or which release vapors that can cause irritation
R- Reactive – may contain ingredients which are unstable, react violently with water or are explosive (D003)

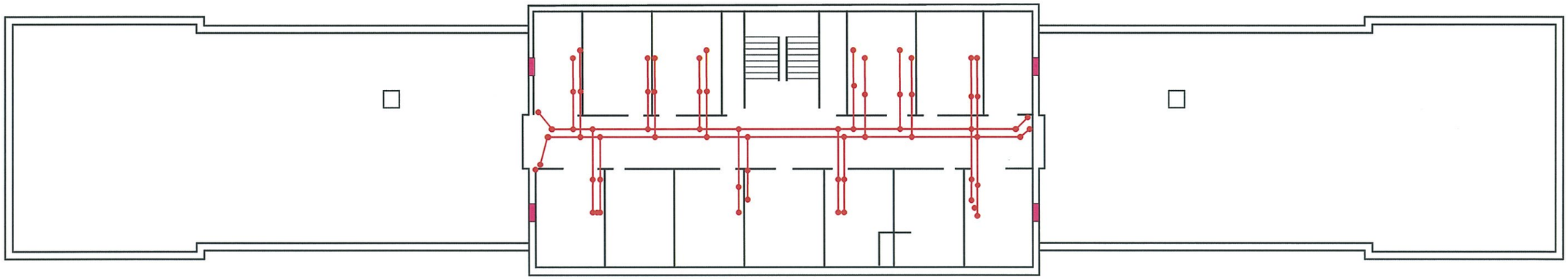
TABLE 6 (…continued)
INVENTORY OF ADDITIONAL HAZARDOUS/REGULATED MATERIALS, WASTES AND ITEMS IDENTIFIED
NORWALK HALL
FAIRFIELD HILLS COMPLEX
NEWTOWN, CONNECTICUT

Quantity	Size	Material/Item	General Location	Potential Hazard
One (1)		Spotlight	Exterior, west basement stairs	UW – Hg lamps UW – used electronics (printed circuit boards)

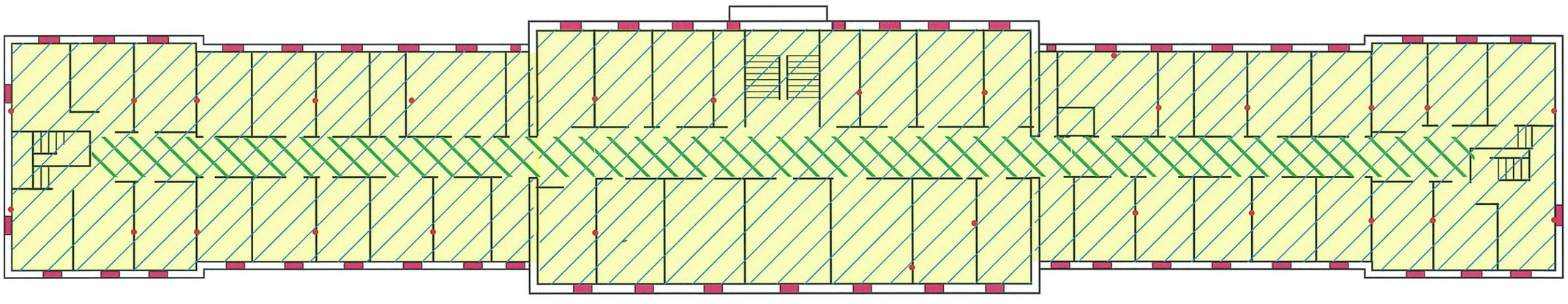
CRW- Connecticut Regulated Waste – PCBs (CR01), Oils (CR02/CR03), waste chemical liquids - antifreeze, latex & solvent paints, sludges, etc. (CR04), waste chemical solids (CR05)
UW- Universal Waste (batteries, thermostat ampoules, fluorescent lamps, used electronics)
IH- Inhalation hazard (silicas, etc.)
I- Ignitable - may contain ingredients which are ignitable (materials which have a flashpoint <140°F) (D001)
C- Corrosive - may contain ingredients which are alkaline or acidic (materials with a PH<2 or >12.5) (D002)
T- Toxic - may contain ingredients which are harmful if swallowed or which release vapors that can cause irritation
R- Reactive – may contain ingredients which are unstable, react violently with water or are explosive (D003)

APPENDIX A

SITE DRAWINGS



ATTIC FLOOR PLAN



FIRST FLOOR PLAN

KEY

- FLOOR TILE
- PIPE INSULATION
- RISERS
- ASBESTOS PLASTER
- ASBESTOS GLUE DAUBS
- ASBESTOS WINDOW CAULK

NOTES:

- ~40 LF of asbestos pipe insulation at each location where radiators exist(ed)
- ~30LF of asbestos pipe insulation at each location where sinks exist(ed) in rooms
- Asbestos pipe insulation exists in all chases and plumbing walls

0 50

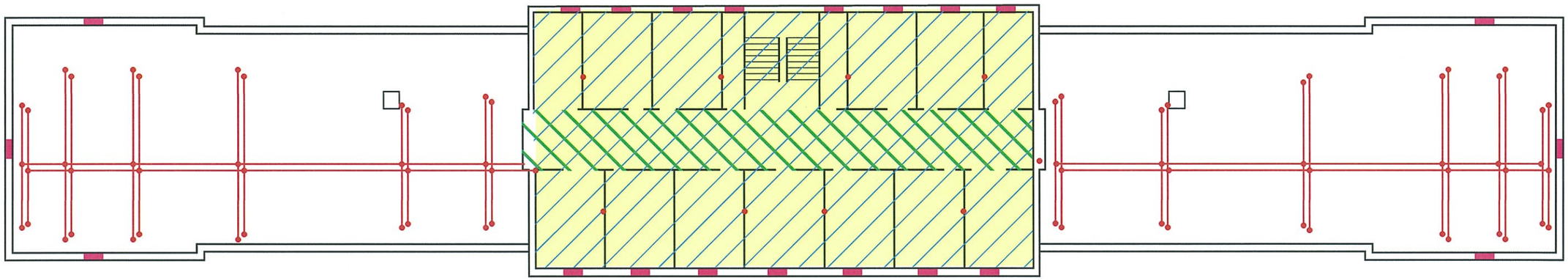
SCALE APPROXIMATE FEET

TRC
Results you can rely on

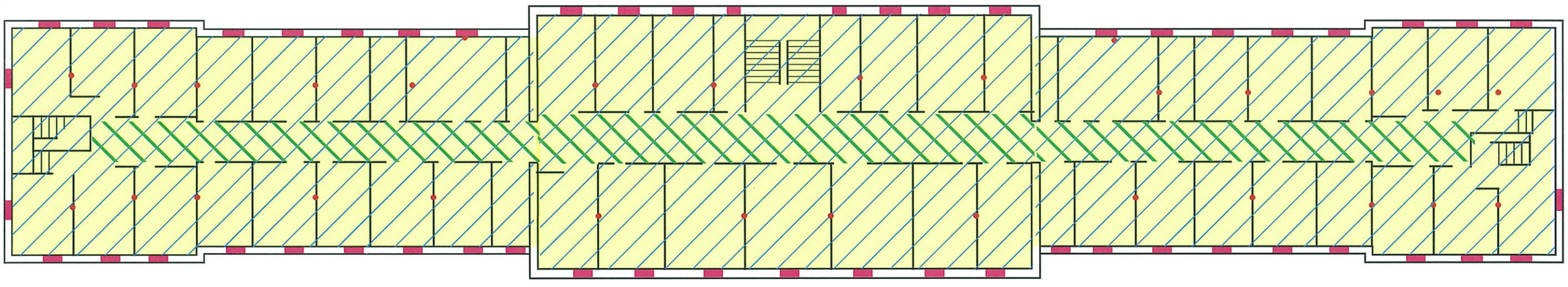
21 Griffin Road North
Windsor, CT 06095
(860) 298-9692

NORWALK HALL - FAIRFIELD STATE HOSPITAL
NEWTOWN, CONNECTICUT

FIGURE 1
HAZARDOUS BUILDING MATERIALS INSPECTIONS



THIRD FLOOR PLAN



SECOND FLOOR PLAN

KEY

- FLOOR TILE
- PIPE INSULATION
- RISERS
- ASBESTOS PLASTER
- ASBESTOS GLUE DAUBS
- ASBESTOS WINDOW CAULK

NOTES:

- ~40 LF of asbestos pipe insulation at each location where radiators exist(ed)
- ~30LF of asbestos pipe insulation at each location where sinks exist(ed) in rooms
- Asbestos pipe insulation exists in all chases and plumbing walls

0 — 50

SCALE APPROXIMATE FEET

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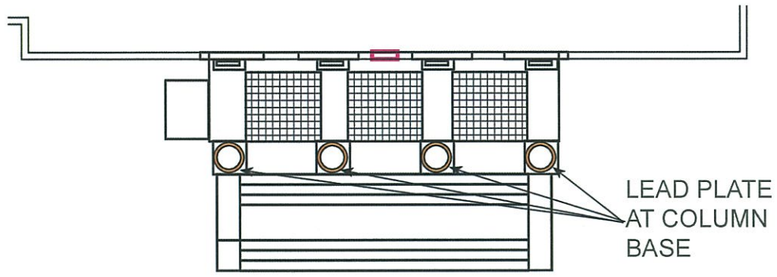
Results you can rely on

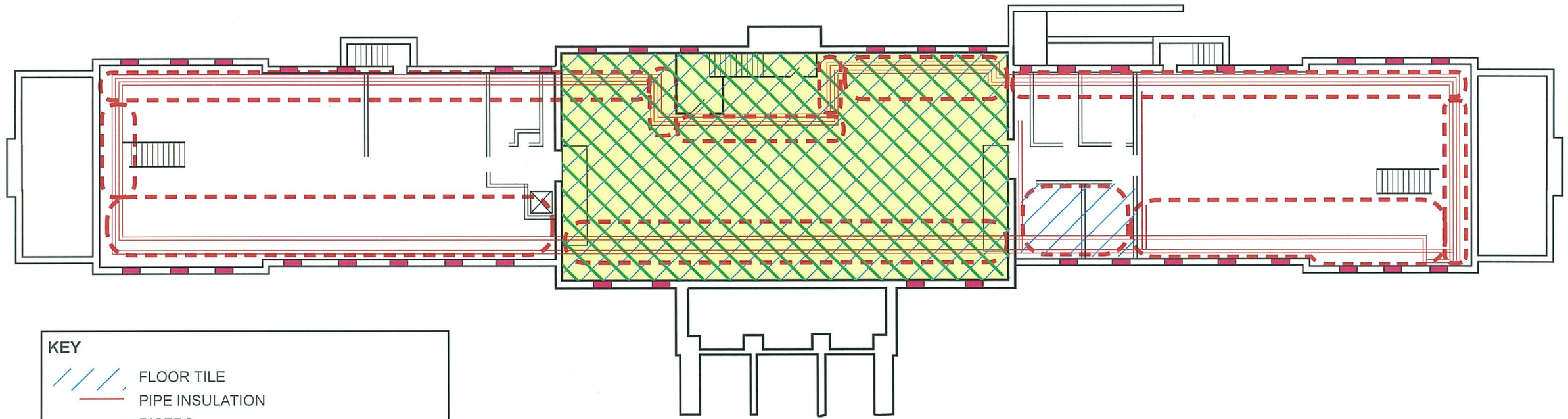
21 Griffin Road North
Windsor, CT 06095
(860) 298-9692

NORWALK HALL - FAIRFIELD STATE HOSPITAL
NEWTOWN, CONNECTICUT

FIGURE 2
HAZARDOUS BUILDING MATERIALS INSPECTIONS



EXTERIOR ENTRY PLAN



BASEMENT PLAN

KEY

- FLOOR TILE
- PIPE INSULATION
- RISERS
- ASBESTOS PLASTER/CEILING TILES
- ASBESTOS GLUE DAUBS
- ASBESTOS WINDOW CAULK
- PIPE INSULATION DEBRIS AREA

NOTE: All windows and doors to exterior have ACM caulk on the exterior.

0 50
SCALE APPROXIMATE FEET

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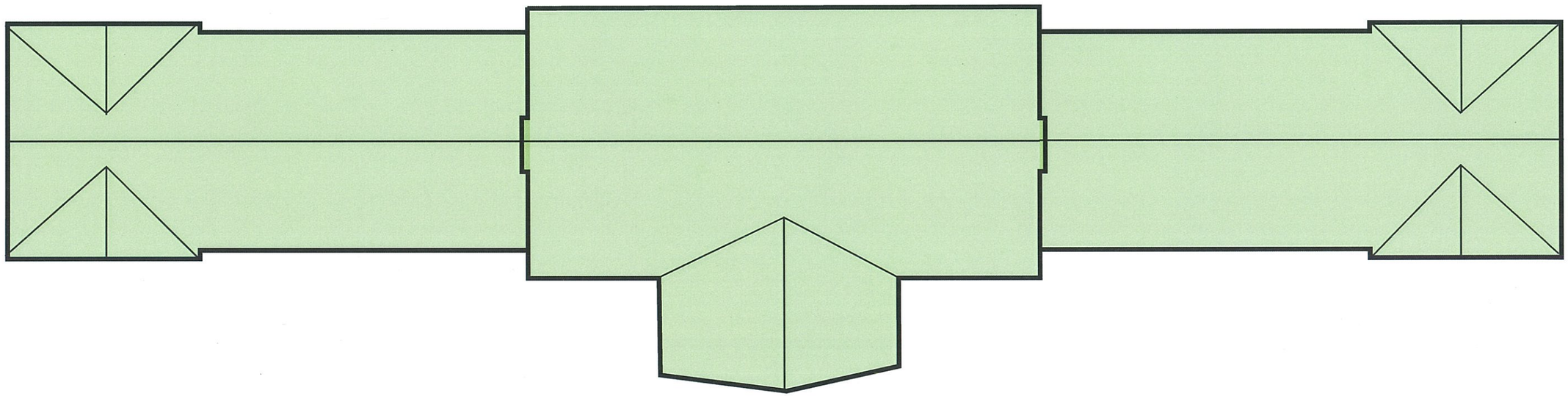
Results you can rely on
21 Griffin Road North
Windsor, CT 06095
(860) 298-9692

NORWALK HALL - FAIRFIELD STATE HOSPITAL
NEWTOWN, CONNECTICUT

FIGURE 3
HAZARDOUS BUILDING MATERIALS INSPECTIONS



ROOF PLAN

KEY

TRANSITE ASBESTOS SHINGLES

0 50

SCALE APPROXIMATE FEET

TRC
Results you can rely on

21 Griffin Road North
Windsor, CT 06095
(860) 298-9692

NORWALK HALL - FAIRFIELD STATE HOSPITAL
NEWTOWN, CONNECTICUT

FIGURE 4
HAZARDOUS BUILDING MATERIALS INSPECTIONS

APPENDIX B

LABORATORY AND INSPECTOR ACCREDITATIONS

State of Connecticut

Lookup Detail View

Name

Name
JONATHAN D GENTILE

License Information
lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Actions or Pending Charges
Asbestos Consultant-Inspector	603	10/31/2015	11/10/2004	Jonathan D. Gentile	ACTIVE	None

Generated on: 1/5/2015 11:11:35 AM

State of Connecticut

Lookup Detail View

Name

Name
JONATHAN D GENTILE

License Information
lookup

License Type	License Number	Expiration Date	Granted Date	License Name	License Status	Licensure Actions or Pending Charges
Lead Inspector	2125	10/31/2015	11/10/2004	Jonathan D. Gentile	ACTIVE	None

Generated on: 1/5/2015 11:08:11 AM

CERTIFICATE OF ACHIEVEMENT

This certifies that

Jonathan D. Gentile

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

Marc Soutra

Principal Instructor: Marc Soutra

December 18, 2014
Date of Course

December 18, 2015
Expiration Date

Gregory J. Morsch

Regional Training Manager: Gregory Morsch

SIAR-5020
Certificate Number

December 18, 2014
Examination Date

CERTIFICATE OF ACHIEVEMENT

This certifies that

Jonathan Gentile
38 Lakeside Drive, Granby, CT 06035
000-00-2148

has successfully completed the

INSPECTOR REFRESHER

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

Principal Instructor:

May 13, 2014
Date of Course

May 13, 2014
Exam Date

CTLIR-209
Certificate Number

May 13, 2015
Expiration Date

Training Manager:

Training received complies with the requirements of the Connecticut Department of Public Health pursuant to Section 20-477 of the Connecticut General Statutes.

INSTRUCTIONS:

1. Detach and sign each of the cards on this sheet.
2. Display the large card in a prominent place [illegible]
3. The wallet card is for you to carry on your [illegible] the wallet card, place it in a secure place.

VOID

PURSUANT TO THE PROVISIONS OF

THE INDIVIDUAL NAMED BELOW IS CERTIFIED BY THIS DEPARTMENT AS A

LEAD INSPECTOR

VOID

THOMAS J. MARTIN

VOID

SIGNATURE

CERTIFICATION NO.
002079
CURRENT THROUGH
02/28/15
VALIDATION NO.
03-756001

COMMISSIONER

THOMAS J. MARTIN
CERTIFICATION NO.

03-756001	002079	02/28/15

LEAD INSPECTOR

COMMISSIONER

[redacted]

INSTRUCTIONS:

1. Detach and sign each of the cards on this form.
2. Display the large card in a prominent place in your office or place of business.
3. The wallet card is for you to carry on your person. If you do not wish to carry the wallet card, place it in a secure place.
4. [illegible]

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

THE INDIVIDUAL NAMED BELOW IS CERTIFIED
BY THIS DEPARTMENT AS A

ASBESTOS CONSULTANT-INSPECTOR

THOMAS J. MARTIN

CERTIFICATION NO.
000014
CURRENT THROUGH
02/28/15
VALIDATION NO.
03-756000

SIGNATURE

COMMISSIONER

EMPLOYERS COPY
STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC HEALTH

NAME
THOMAS J. MARTIN

VALIDATION NO.	CERTIFICATION NO.	CURRENT THROUGH
03-756000	000014	02/28/15

PROFESSION
ASBESTOS CONSULTANT-INSPECTOR

COMMISSIONER

CHURCHILL ENVIRONMENTAL, INC

Environmental, Health & Safety
Consultants

639 N. Salina St., Syracuse, NY 13208
Phone: 315-428-1959 Fax: 315-428-0432
www.churchillenvironmental.com

Official Record of Successful Training Completion is the
New York State Department of Health Certificate of Asbestos Safety Training Completion

HEREBY CERTIFIES THAT

Thomas J. Martin

HAS SUCCESSFULLY COMPLETED WITH A GRADE OF 94 %
A 4 HOUR TRAINING COURSE ENTITLED

Building Inspector Refresher

This training course complies with requirements set fourth by TSCA Title II and New York State Department of Health Title 10, Part 73.2

Course Date: 01/28/2014
Exam Date: 01/28/2014
Expiration Date: 01/28/2015
Certificate #: BIR – 70 - 0373

Thomas M. Gallanni Sr

Director of Environmental Training

Certificate of Training

Awarded to

THOMAS MARTIN

21 GRIFFIN ROAD NORTH, WINDSOR, CT 06095

has successfully completed a 7 hour, 1 day

Lead Inspector Refresher Training

January 14, 2014

This training course was approved and given in accordance with the Department of Health Standards established pursuant to Section 20-477 of the Connecticut General Statutes

Presented by

Mystic Air Quality Consultants, Inc.

1204 North Road, Groton, CT 06340 (800) 247-7746

Certificate Number: LITR22752

Exam Grade: 95

Exam Date: 01/14/2014

Expiration Date: 01/14/2015

Christopher J. Eident, CIH, CSP, RS

George Williamson, Training Director

Richard Haffey, Training Director

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 EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT.

TRC ENVIRONMENTAL CORPORATION

LOCATED AT 21 Griffin Road North IN Windsor, CT 06095

AND REGISTERED IN THE NAME OF Erik Plimpton

THIS CERTIFICATE IS ISSUED IN THE NAME OF Kathleen Williamson 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
AIR-FIBER COUNTING - PCM
BULK IDENTIFICATION - PLM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES December 31, 2015 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT THIS 19th DAY OF December, 2013

Registration No.

PH- 0426

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101424-0

TRC Environmental Corporation

Windsor, CT

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2014-07-01 through 2015-06-30

Effective dates

DEPARTMENT OF COMMERCE * UNITED STATES OF AMERICA *

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

TRC Environmental Corporation

21 Griffin Road North, Windsor, CT 06095

Laboratory ID: 100122

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories in t*he following:

LABORATORY ACCREDITATION PROGRAMS

✓	**INDUSTRIAL HYGIENE**	Accreditation Expires: 10/01/2014
☐	**ENVIRONMENTAL LEAD**	Accreditation Expires:
☐	**ENVIRONMENTAL MICROBIOLOGY**	Accreditation Expires:
☐	**FOOD**	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation.** Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

S. D. Allen Iske, PhD, CIH, CSP
Chairperson, Analytical Accreditation Board

Cheryl O. Morton

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 12: 03/29/2012

Date Issued: 08/31/2012

AIHA Laboratory Accreditation Programs, LLC
SCOPE OF ACCREDITATION

TRC Environmental Corporation
21 Griffin Road North, Windsor, CT 06095

Laboratory ID: **100122**
Issue Date: 08/31/2012

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or revocation. A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at: http://www.aihaaccreditedlabs.org

Industrial Hygiene Laboratory Accreditation Program (IHLAP)

Initial Accreditation Date: 09/01/1984

IHLAP Scope Category	Field of Testing (FoT)	Technology sub-type/ Detector	Published Reference Method/Title of In-house Method	Method Description or Analyte *(for internal methods only)*
Asbestos/Fiber Microscopy Core	Polarized Light Microscopy (PLM)		EPA 600/M4-82-020	
			EPA 600/R-93/116	
	Phase Contrast Microscopy (PCM)		NIOSH 7400	

The laboratory participates in the following AIHA-LAP, LLC-approved proficiency testing programs:

- ☐ AIHA-PAT Programs, LLC IHPAT Metals
- ☐ AIHA-PAT Programs, LLC IHPAT Organic Solvents
- ☐ AIHA-PAT Programs, LLC IHPAT Silica
- ☐ AIHA-PAT Programs, LLC IHPAT Diffusive Sampler (3M)
- ☐ AIHA-PAT Programs, LLC IHPAT Diffusive Sampler (SKC)
- ☐ AIHA-PAT Programs, LLC IHPAT Diffusive Sampler (AT)
- ✓ AIHA-PAT Programs, LLC IHPAT Asbestos
- ☐ AIHA-PAT Programs, LLC Bulk Asbestos (BAPAT)
- ☐ AIHA-PAT Programs, LLC Beryllium (BePAT)
- ☐ HSE Workplace Analytical Scheme for Proficiency (WASP) (Formaldehyde)
- ☐ HSE Workplace Analytical Scheme for Proficiency (WASP) (Thermal Desorption Tubes)
- ☐ Pharmaceutical Round Robin
- ☐ Compressed/Breathing Air Round Robin
- ✓ National Voluntary Laboratory Accreditation Program (NVLAP - determined at the time of site assessment)
- ☐ New York State Department of Health (NYS DOH – PCM and TEM)
- ☐ ERA Air and Emissions standards for indoor air quality
- ☐ Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, formerly BGIA)
- ☐ Institut de Recherche Robert-Sauvé en Santé et en Sécurité du Travail (IRSST)

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 EXAMINATIONS, DETERMINATIONS OR TESTS SPECIFIED BELOW WHICH HAVE BEEN AUTHORIZED IN WRITING BY THAT DEPARTMENT

PROSCIENCE ANALYTICAL SERVICES, INC.

LOCATED AT 22 Cummings Park IN Woburn, MA 01801

AND REGISTERED IN THE NAME OF Harvey Yee

THIS CERTIFICATE IS ISSUED IN THE NAME OF Aimee Cormier 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:

SOLID WASTE/SOIL
Examination for:
Trace Metals

ASBESTOS
Bulk Identification (PLM)
Air-Fiber Counting (PCM + TEM)

ENVIRONMENTAL HEALTH & HOUSING
Lead In Paint
Lead (Paint) in Soil
Lead in Dust Wipes

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

THIS CERTIFICATE EXPIRES December 31, 2014 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 4th DAY OF December 2012

Registration #
PH-0209

SUZANNE BLANCAFLOR, MS
CHIEF, ENVIRONMENTAL HEALTH SECTION

United States Department of Commerce
National Institute of Standards and Technology

NVLAP®

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200090-0

ProScience Analytical Services, Inc.

Woburn, MA

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2014-01-01 through 2014-12-31

Effective dates

For the National Institute of Standards and Technology

National Voluntary Laboratory Accreditation Program

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

ProScience Analytical Services, Inc.
22 Cummings Park
Woburn, MA 01801-2122
Ms. Aimee Cormier
Phone: 781-935-3212 Fax: 781-932-4857
E-Mail: aimee.cormier@proscience.net
URL: http://www.proscience.net

BULK ASBESTOS FIBER ANALYSIS (PLM) **NVLAP LAB CODE 200090-0**

NVLAP Code	*Designation / Description*
18/A01	EPA 600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

2014-01-01 through 2014-12-31
Effective dates

For the National Institute of Standards and Technology

NVLAP-01S (REV. 2005-05-19)

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION

ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM

CERTIFIED ANALYTES REPORT FOR ALL MATRICES

Complete Environmental Testing, Inc.

80 LUPES DRIVE

STRATFORD, CT 06615

CT REGISTRATION NUMBER :	PH-0116
REGISTERED OWNER / AUTHORIZED AGENT :	David Ditta
DIRECTOR :	David Ditta
CO DIRECTOR(S) :	Timothy Fusco
PHONE :	(203) 377-9984
LABORATORY REGISTRATION EFFECTIVE DATE :	10/01/2014
LABORATORY REGISTRATION EXPIRATION DATE :	09/30/2016
LABORATORY STATUS :	APPROVED

APPROVED BY _____ 10/7/2014 3:08:55 PM

PHILIP SCHLOSSBERG

ANY QUESTIONS CONCERNING THIS DOCUMENT SHOULD BE ADDRESSED TO THE ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM AT (860) 509-7389

DRINKING WATER (SDWA)

STATUS REPORTED ON 10/7/2014

ANALYTE NAME

MICROBIOLOGY/BACTERIA

E. COLI - COLILERT (SM9223 P/A)

TOT COLIFORM - COLILERT (SM9223 P/A)

PHYSICALS

COLOR	
CONDUCTIVITY	ODOR
pH	TURBIDITY

MINERALS

ALKALINITY	
CHLORIDE	CHLORINE, FREE RESIDUAL
CHLORINE, TOTAL RESIDUAL	FLUORIDE
HARDNESS, CALCIUM	HARDNESS, TOTAL
SILICA	SULFATE

NUTRIENTS

AMMONIA	
NITRATE	NITRITE
O-PHOSPHATE	TOTAL PHOSPHOROUS

METALS

ALUMINUM	
ANTIMONY	ARSENIC
BARIUM	BERYLLIUM
BORON	CADMIUM
CALCIUM	CHROMIUM
COPPER	IRON
LEAD	MAGNESIUM
MANGANESE	MERCURY
MOLYBDENUM	NICKEL
POTASSIUM	SELENIUM
SILVER	SODIUM
THALLIUM	VANADIUM
ZINC	

RESIDUE

TOTAL DISSOLVED SOLIDS

TOTAL RESIDUE (SOLIDS)	

MISCELLANEOUS

CORROSIVITY	CYANIDE (TOTAL)
FOAMING AGENTS (MBAS)	

INORGANIC DISINFECTION BY-PRODUCTS

BROMIDE	

ORGANIC DISINFECTION BY-PRODUCTS

BROMOACETIC ACID	BROMOCHLOROACETIC ACID
CHLOROACETIC ACID	DIBROMOACETIC ACID
DICHLOROACETIC ACID	TRICHLOROACETIC ACID

VOLATILE ORGANICS

1,2-DIBROMO-3-CHLOROPROPANE 504.1 (DBCP) (SOC)	1,4-DIOXANE (Mod 8260)
ETHYLENE DIBROMIDE 504.1 (EDB) (SOC)	TOTAL TRIHALOMETHANES 524.2 (SOC)
VOLATILE ORGANICS - 524.2 (SOCs)	

PESTICIDES/ PCB'S

ALDRIN	CHLORDANE (TECHNICAL) (SOC)
DIELDRIN	ENDRIN (SOC)
HEPTACHLOR (SOC)	HEPTACHLOR EPOXIDE (SOC)
HEXACHLOROBENZENE (SOC)	HEXACHLOROCYCLOPENTADIENE (SOC)
LINDANE (BHC-GAMMA) (SOC)	METHOXYCHLOR (SOC)
TOXAPHENE (SOC)	

TRIAZINE PESTICIDES

ALACHLOR (SOC)	
ATRAZINE (SOC)	SIMAZINE (SOC)

RADIOCHEMICALS

URANIUM - EPA 200.8	

NON-POTABLE WATER/ WASTEWATER

STATUS REPORTED ON 10/7/2014

ANALYTE NAME

PHYSICALS	
COLOR	
CONDUCTIVITY	pH
TURBIDITY	
MINERALS	
ACIDITY	ALKALINITY
CHLORIDE	CHLORINE, TOTAL & FREE RESIDUAL
FLUORIDE	HARDNESS, CALCIUM
HARDNESS, TOTAL	SILICA
SULFATE	SULFIDE
NUTRIENTS	
AMMONIA	
KJELDAHL NITROGEN	NITRATE
NITRITE	O-PHOSPHATE
TOTAL PHOSPHOROUS	
METALS	
ALUMINUM	
ANTIMONY	ARSENIC
BARIUM	BERYLLIUM
BORON	CADMIUM
CALCIUM	CHROMIUM
CHROMIUM - Hexavalent	COBALT
COPPER	IRON
LEAD	MAGNESIUM
MANGANESE	MERCURY
MOLYBDENUM	NICKEL
POTASSIUM	SELENIUM
SILVER	SODIUM
STRONTIUM	THALLIUM
TIN	TITANIUM
VANADIUM	ZINC
RESIDUE	
TOTAL DISSOLVED SOLIDS	

TOTAL RESIDUE (SOLIDS)	TOTAL SUSPENDED SOLIDS
TOTAL VOLATILE RESIDUE	

DEMANDS

BOD	
COD	

MISCELLANEOUS

CYANIDE (TOTAL)	FOAMING AGENTS (MBAS)
PHENOLICS	

PESTICIDES/ PCB'S

CHLORDANE (TECHNICAL)	ORGANOCHLORINE PESTICIDES (Single Response)
PCB IN OIL	POLYCHLORINATED BIPHENYLS
TOXAPHENE	

SOLVENTS

CT Extractable Petroleum Hydrocarbons (ETPH)	
MA Extractable Petroleum Hydrocarbons (EPH)	OIL AND GREASE

HERBICIDES

2,4,5-T	
2,4,5-TP (SILVEX)	2,4-D
2,4-DB	4-NITROPHENOL (Herbicide)
DALAPON	DICAMBA
DICHLOROPROP	DINOSEB
MCPA	MCPP
PENTACHLOROPHENOL (Herbicide)	

ORGANICS

ACID EXTRACTABLES (PHENOLS)	
BENZIDINES	CHLORINATED HYDROCARBONS
HALOETHERS	NITROAROMATICS & ISOPHORONE
NITROSAMINES	PHTHALATE ESTERS
POLYNUCLEAR AROMATIC HYDROCARBONS	VOLATILE ORGANICS

FIELD TESTING

CHROMIUM, Hexavalent (FIELD TEST)	
pH (FIELD TEST)	

SOLID WASTE/SOIL

STATUS REPORTED ON 10/7/2014

ANALYTE NAME

PHYSICALS	
pH	
MINERALS	
SULFIDE	
NUTRIENTS	
AMMONIA	KJELDAHL NITROGEN
TOTAL PHOSPHOROUS	
METALS	
ALUMINUM	ANTIMONY
ARSENIC	BARIUM
BERYLLIUM	BORON
CADMIUM	CALCIUM
CHROMIUM	CHROMIUM - Hexavalent
COBALT	COPPER
IRON	LEAD
MAGNESIUM	MANGANESE
MERCURY	MOLYBDENUM
NICKEL	POTASSIUM
SELENIUM	SILVER
SODIUM	STRONTIUM
THALLIUM	TIN
TITANIUM	VANADIUM
ZINC	
RESIDUE	
TOTAL RESIDUE (SOLIDS)	TOTAL VOLATILE RESIDUE
DEMANDS	
TOTAL ORGANIC CARBON	
MISCELLANEOUS	
CORROSIVITY	CYANIDE (TOTAL)
IGNITABILITY	REACTIVITY
SPLP LEACH (1312)	TCLP LEACH (1311)
PESTICIDES/ PCB'S	
CHLORDANE (TECHNICAL)	

ORGANOCHLORINE PESTICIDES (Single Response)	PCB IN OIL
POLYCHLORINATED BIPHENYLS	TOXAPHENE

SOLVENTS

CT Extractable Petroleum Hydrocarbons (ETPH)	MA Extractable Petroleum Hydrocarbons (EPH)

HERBICIDES

2,4,5-T	2,4,5-TP (SILVEX)
2,4-D	2,4-DB
4-NITROPHENOL (Herbicide)	DALAPON
DICAMBA	DICHLOROPROP
DINOSEB	PENTACHLOROPHENOL (Herbicide)

TRIAZINE PESTICIDES

ALACHLOR	ATRAZINE
SIMAZINE	

RCRA (SW-846) ORGANICS

ACID EXTRACTABLES (PHENOLS) (SW 8270)	
BENZIDINES (SW 8270)	CHLORINATED HYDROCARBONS (SW 8270)
HALOETHERS (SW 8270)	NITROAROMATICS & CYCLIC KETONES (SW 8270)
NITROSOAMINES (SW 8270)	PAH's (SW 8270)
PHTHALATES (SW 8270)	VOLATILE ORGANICS (SW 8260)

ENVIRONMENTAL HEALTH & HOUSING

LEAD (PAINT) IN SOIL	
LEAD IN DUST WIPES	LEAD IN PAINT

Report Profile:	Lab Name : Complete Environmental Testing, Inc.
	Test Name : *
	Matrix Name : *
	Matrix Selection = ALL OR SOME MATRICES SELECTED
	Certifications approved or provisional on 10/7/2014

THIS IS THE LAST PAGE OF THE REPORT

APPENDIX C

ASBESTOS BULK SAMPLE CHAIN OF CUSTODY FORMS

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING
CHAIN OF CUSTODY

US Health Vest

LAB ID #. 45029

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
227406.0000.0000	Fairfield Hills-Norwalk Bldg Newtown, CT		PLM: 8hr 24hr 48hr X 3day TEM: 24hr 48hr X 3day 5day

SIGNATURE	INSPECTOR
	J.Gentile/T.Martin

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
01	12/2/14	0915		X	Room 125		X	X			White Skim/Grey Basecoat Wall Plaster (PL1)
02	12/2/14	0917		X	1st Floor Central Hall		X	X			White Skim/Grey Basecoat Wall Plaster (PL1)
03	12/2/14	0919		X	Room 122		X	X			White Skim/Grey Basecoat Wall Plaster (PL1)
04	12/2/14	1005		X	Room 229		X	X			White Skim/Grey Basecoat Wall Plaster (PL1)
05	12/2/14	1010		X	Room 236		X	X			White Skim/Grey Basecoat Wall Plaster (PL1)
06	12/2/14	1012		X	2nd Floor North Hallway		X	X			White Skim/Grey Basecoat Wall Plaster (PL1)
07	12/2/14	1237		X	3rd Floor Hallway		X	X			White Skim/Grey Basecoat Wall Plaster (PL1)
08	12/3/14	1358		X	Basement Central Room		X	X			White Skim/Grey Basecoat Wall Plaster (PL1)
09	12/2/14	0838		X	Basement Central Room		X	X			White Skim/Grey Basecoat Wall Plaster (PL1)
10	12/2/14	0924		X	1st Floor Hall Ceiling		X				Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)
11	12/2/14	0926		X	1st Floor Hall Ceiling		X				Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	12/8/14	12/9/14			
(Printed) Jonathan D. Gentile	Time:	(Printed) Amanda Parkins 0900	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples: ____
Acceptable: Yes ✓ No ____
Comments:

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 45029

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
227406.0000.0000	Fairfield Hills-Norwalk Bldg Newtown, CT		PLM: [ ] 8hr [ ] 24hr [ ] 48hr [X] 3day TEM: [ ] 24hr [ ] 48hr [X] 3day [ ] 5day
SIGNATURE	INSPECTOR		
	J.Gentile/T.Martin		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE: COMP	TYPE: GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
12	12/2/14	0929		X	1st Floor Hall Ceiling		X				Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)
13	12/2/14	1007		X	2nd Floor Hall Ceiling		X				Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)
14	12/2/14	1014		X	2nd Floor Hall Ceiling		X				Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)
15	12/2/14	1016		X	2nd Floor Hall Ceiling		X				Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)
16	12/2/14	1236		X	3rd Floor Hall Ceiling		X				Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)
17	12/3/14	0841		X	Basement Central Room Ceiling		X				Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)
18	12/3/14	0841		X	Basement Central Room Ceiling		X				Tan/Grey Double Basecoat Hall Ceiling Plaster (PL2)
19	12/2/14	0931		X	Room 108		X	X			White Skim/Tan Basecoat Room Ceiling Plaster (PL3)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	12/8/14	12/9/14			
(Printed) Jonathan D. Gentile	Time:	(Printed) Amanda Parkins 0900	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples:
Acceptable: Yes ✓ No
Comments:

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 45029

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
227406.0000.0000	Fairfield Hills-Norwalk Bldg Newtown, CT		PLM: [ ] 8hr [ ] 24hr [ ] 48hr [X] 3day TEM: [ ] 24hr [ ] 48hr [X] 3day [ ] 5day
SIGNATURE	INSPECTOR		
	J.Gentile/T.Martin		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
20	12/2/14	0934		X	Room 123		X	X			White Skim/Tan Basecoat Room Ceiling Plaster (PL3)
21	12/2/14	0934		X	Room 123		X	X			White Skim/Tan Basecoat Room Ceiling Plaster (PL3)
22	12/2/14	1008		X	Room 218		X	X			White Skim/Tan Basecoat Room Ceiling Plaster (PL3)
23	12/2/14	1018		X	Room 214		X	X			White Skim/Tan Basecoat Room Ceiling Plaster (PL3)
24	12/2/14	1021		X	Room 202		X	X			White Skim/Tan Basecoat Room Ceiling Plaster (PL3)
25	12/2/14	1232		X	Room 305		X	X			White Skim/Tan Basecoat Room Ceiling Plaster (PL3)
26	12/2/14	1232		X	Room 305		X	X			White Skim/Tan Basecoat Room Ceiling Plaster (PL3)
27	12/3/14	0848		X	Basement Hall o/s South Bathroom		X	X			White Skim/Tan Basecoat Room Ceiling Plaster (PL3)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	12/8/14	12/9/14			
(Printed) Jonathan D. Gentile	Time:	(Printed) Amanda Parkins 0900	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples:
Acceptable: Yes ✓ No
Comments:

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 45029

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
227406.0000.0000	Fairfield Hills-Norwalk Bldg Newtown, CT		PLM: [ ] 8hr [ ] 24hr [ ] 48hr [X] 3day TEM: [ ] 24hr [ ] 48hr [X] 3day [ ] 5day
SIGNATURE	INSPECTOR		
	J.Gentile/T.Martin		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
28	12/3/14	0923		X	Exterior Main Entry Columns	X					Tan Decorative Molding Plaster (PL4)
29	12/3/14	0924		X	Exterior Main Entry Columns	X					Tan Decorative Molding Plaster (PL4)
30	12/3/14	0924		X	Exterior Main Entry Columns	X					Tan Decorative Molding Plaster (PL4)
31	12/2/14	1002		X	Room 122	X					Hard-Packed Pipe Insulation (PI1)
32	12/2/14	1250		X	South Attic	X					Hard-Packed Pipe Insulation (PI1)
33	12/2/14	1252		X	South Attic	X					Hard-Packed Pipe Insulation (PI1)
34	12/2/14	1254		X	Central Attic	X					Pressed Paper Pipe Insulation (PI2)
35	12/2/14	1255		X	Central Attic	X					Pressed Paper Pipe Insulation (PI2)
36	12/2/14	1256		X	Central Attic	X					Pressed Paper Pipe Insulation (PI2)
37	12/1/14	1305		X	South Attic	X					Mudded Fitting Insulation (MF1)
38	12/1/14	1305		X	South Attic	X					Mudded Fitting Insulation (MF1)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	12/8/14	12/9/14			
(Printed)	Time:	(Printed)	(Printed)	Time:	(Printed)
Jonathan D. Gentile		Amanda Parkins 0900			

Remarks:

Condition of Samples:
Acceptable: Yes ✓ No
Comments:

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 45029

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
227406.0000.0000	Fairfield Hills-Norwalk Bldg Newtown, CT		PLM: [ ] 8hr [ ] 24hr [ ] 48hr [X] 3day TEM: [ ] 24hr [ ] 48hr [X] 3day [ ] 5day
SIGNATURE	INSPECTOR		
	J.Gentile/T.Martin		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE: COMP	TYPE: GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
39	12/1/14	0853		X	Room 138	X		X			9" Brown w/Streaks Floor Tile & Black Mastic (FT1)
40	12/2/14	0821		X	Room 134	X		X		X	9" Brown w/Streaks Floor Tile & Black Mastic (FT1)
41	12/1/14	0855		X	1ST Floor Hallway	X		X			9" Tan w/Streaks Floor Tile & Black Mastic (FT2)
42	12/1/14	0936		X	2nd Floor South Hallway	X		X		X	9" Tan w/Streaks Floor Tile & Black Mastic (FT2)
43	12/1/14	0854		X	Room 138	X		X			9" Black w/Tan Streaks Floor Tile & Black Mastic (FT3)
44	12/2/14	0845		X	Room 125	X		X		X	9" Black w/Tan Streaks Floor Tile & Black Mastic (FT3)
45	12/1/14	0858		X	Room 138 Closet	X		X			6" Dk Beige Floor Tile & Black Mastic (FT4)
46	12/1/14	0932		X	Room 207	X		X		X	6" Dk Beige Floor Tile & Black Mastic (FT4)
47	12/1/14	0902		X	Room 131	X		X			12" Off-White Floor Tile & Black Mastic (FT5)
48	12/1/14	0926		X	Room 202	X		X		X	12" Off-White Floor Tile & Black Mastic (FT5)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	12/8/14	12/9/14			
(Printed) Jonathan D. Gentile	Time:	(Printed) Amanda Perkins 0900	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples:
Acceptable: Yes ✓ No
Comments:

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 45029

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
227406.0000.0000	Fairfield Hills-Norwalk Bldg Newtown, CT		PLM: 8hr 24hr 48hr X 3day TEM: 24hr 48hr X 3day 5day
SIGNATURE	INSPECTOR		
	J.Gentile/T.Martin		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
49	12/1/14	0905		X	Room 131	X		X			12" Black Border Floor Tile & Black Mastic (FT6)
50	12/2/14	0849		X	Room 121	X		X		X	12" Black Border Floor Tile & Black Mastic (FT6)
51	12/1/14	0942		X	2nd Floor South Closet	X		X			9" Grey Floor Tile & Black Mastic (FT7)
52	12/1/14	0943		X	2nd Floor South Closet	X		X		X	9" Grey Floor Tile & Black Mastic (FT7)
53	12/1/14	1233		X	Room 312	X		X			12" Grey Floor Tile & Black Mastic (FT8)
54	12/1/14	1234		X	Room 312	X		X		X	12" Grey Floor Tile & Black Mastic (FT8)
55	12/3/14	0852		X	Elevator	X		X			4" Black/Tan Checkerboard Pattern Floor Tile & Black Mastic (FT9)
56	12/3/14	0853		X	Elevator	X		X		X	4" Black/Tan Checkerboard Pattern Floor Tile & Black Mastic (FT9)
57	12/1/14	0917		X	1st Floor South Hall	X					Dk Brown Ceiling Tile Glue Daubs (G1)
58	12/1/14	0928		X	2nd Floor South Hall	X				X	Dk Brown Ceiling Tile Glue Daubs (G1)
59	12/1/14	0858		X	1st Floor North Hallway	X					Dk Tan Wall Panel Glue (G2)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	12/8/14	12/9/14			
(Printed) Jonathan D. Gentile	Time:	(Printed) Amanda Perkins 0900	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples: ✓
Acceptable: Yes ✓ No
Comments:

TRC

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ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 45029

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
227406.0000.0000	Fairfield Hills-Norwalk Bldg Newtown, CT		PLM: [ ] 8hr [ ] 24hr [ ] 48hr [X] 3day TEM: [ ] 24hr [ ] 48hr [X] 3day [ ] 5day
SIGNATURE	INSPECTOR		
	J.Gentile/T.Martin		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
60	12/2/14	0842		X	1st Floor North Hallway	X				X	Dk Tan Wall Panel Glue (G2)
61	12/1/14	0915		X	1st Floor South Hallway	X					Dk Yellow Wall Panel Glue (G3)
62	12/1/14	0915		X	1st Floor South Hallway	X				X	Dk Yellow Wall Panel Glue (G3)
63	12/1/14	1024		X	2nd Floor Women's Bathroom	X					Dk Yellow Ceramic Wall Tile Glue (G4)
64	12/1/14	1025		X	2nd Floor Women's Bathroom	X				X	Dk Yellow Ceramic Wall Tile Glue (G4)
65	12/1/14	1245		X	3rd Floor Doorway to Attic	X					Tan Glue (G5)
66	12/1/14	1246		X	3rd Floor Doorway to Attic	X				X	Tan Glue (G5)
67	12/1/14	1029		X	2nd Floor Women's Bathroom	X					Ceramic Wall Tile Grout (GR1)
68	12/1/14	1229		X	3rd Floor Bathroom	X					Ceramic Wall Tile Grout (GR1)
69	12/1/14	1030		X	2nd Floor Women's Bathroom	X					Ceramic Floor Tile Grout (GR2)
70	12/1/14	1034		X	2nd Floor Women's Bathroom	X					Ceramic Floor Tile Grout (GR2)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	12/8/14	12/9/14			
(Printed) Jonathan D. Gentile	Time:	(Printed) Amanda Partins 0900	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples:
Acceptable: Yes ✓ No
Comments:

TRC

Edition: October 2009
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ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 45029

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
227406.0000.0000	Fairfield Hills-Norwalk Bldg Newtown, CT		PLM: [ ] 8hr [ ] 24hr [ ] 48hr [X] 3day TEM: [ ] 24hr [ ] 48hr [X] 3day [ ] 5day
SIGNATURE	INSPECTOR		
	J.Gentile/T.Martin		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
71	12/2/14	0847		X	1st Floor North Hallway	X					Thick Brown Mesh-Backed Wall Panel (WP1)
72	12/1/14	0900		X	1st Floor North Hallway	X				X	Thick Brown Mesh-Backed Wall Panel (WP1)
73	12/3/14	0908		X	Ext A Side Wdw	X					White Brittle Exterior Wdw/Door Caulk (C1)
74	12/3/14	0911		X	Ext D Side Wdw	X				X	White Brittle Exterior Wdw/Door Caulk (C1)
75	12/2/14	0851		X	1st Floor Bathroom	X					Hard White Tub Caulk (C2)
76	12/2/14	0852		X	1st Floor Bathroom	X				X	Hard White Tub Caulk (C2)
77	12/3/14	0952		X	Rear Entry (C Side) Roof	X					Hard Grey Exterior Roof Caulk (C3)
78	12/3/14	0953		X	Rear Entry (C Side) Roof	X				X	Hard Grey Exterior Roof Caulk (C3)
79	12/2/14	0845		X	Room 129	X					Lt Grey Ext Wood Wdw Glaze (WG1)
80	12/2/14	0853		X	Room 119	X				X	Lt Grey Ext Wood Wdw Glaze (WG1)
81	12/1/14	1248		X	South Side Attic	X					Grey Round Wood Ext Wdw Glaze (WG2)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	12/8/14	12/9/14			
(Printed) Jonathan D. Gentile	Time:	(Printed) Amanda Perkins 0900	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples:
Acceptable: Yes ✓ No
Comments:

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ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 45079

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
227406.0000.0000	Fairfield Hills-Norwalk Bldg Newtown, CT		PLM: [ ] 8hr [ ] 24hr [ ] 48hr [X] 3day TEM: [ ] 24hr [ ] 48hr [X] 3day [ ] 5day
SIGNATURE	INSPECTOR		
	J.Gentile/T.Martin		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
82	12/1/14	1249		X	South Side Attic	X				X	Grey Round Wood Ext Wdw Glaze (WG2)
83	12/1/14	1250		X	South Side Attic	X					Sm Narrow Wood Ext Wdw Glaze (WG3)
84	12/1/14	1252		X	South Side Attic	X				X	Sm Narrow Wood Ext Wdw Glaze (WG3)
85	12/2/14	1305		X	Center Attic	X					¼ Round Ext Wdw Glaze (WG4)
86	12/2/14	1308		X	Center Attic	X				X	¼ Round Ext Wdw Glaze (WG4)
87	12/3/14	1258		X	Room 122	X					Wiring Insulation (W1)
88	12/3/14	1301		X	Room 122	X					Wiring Insulation (W1)
89	12/1/14	1009		X	Room 222 behind Plaster	X					Black Vapor Barrier behind Plaster Walls (VB1)
90	12/1/14	1046		X	Room 233 behind Plaster	X				X	Black Vapor Barrier behind Plaster Walls (VB1)
91	12/1/14	1242		X	Roof under R1	X					Thick Black Felt Paper Vapor Barrier (VB2)
92	12/1/14	1246		X	Roof under R1	X				X	Thick Black Felt Paper Vapor Barrier (VB2)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	12/8/14	12/9/14			
(Printed) Jonathan D. Gentile	Time:	(Printed) Amanda Parkins 0900	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples: ✓
Acceptable: Yes ✓ No ____
Comments:

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ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 45029

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
227406.0000.0000	Fairfield Hills-Norwalk Bldg Newtown, CT		PLM: [ ] 8hr [ ] 24hr [ ] 48hr [X] 3day TEM: [ ] 24hr [ ] 48hr [X] 3day [ ] 5day
SIGNATURE	INSPECTOR		
	J.Gentile/T.Martin		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE: COMP	TYPE: GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
93	12/4/14	0813		X	Ext D Side Behind Limestone Wdw Sill	X					Thin Tar Vapor Barrier under/behind Ext Wdw Sills (VB3)
94	12/4/14	0815		X	Ext D Side Behind Limestone Wdw Sill	X				X	Thin Tar Vapor Barrier under/behind Ext Wdw Sills (VB3)
95	12/1/14	1253		X	South Side Roof	X					Transite Roof Shingles (R1)
96	12/1/14	1254		X	South Side Roof	X					Transite Roof Shingles (R1)
97	12/2/14	1258		X	South Side Roof Sm Addition	X					Asphalt Roof Shingles (R2)
98	12/2/14	1259		X	South Side Roof Sm Addition	X				X	Asphalt Roof Shingles (R2)
99	12/3/14	0956		X	Rear Entrance Overhang	X					Rear Entrance Overhang Roofing (R3)
100	12/3/14	0958		X	Rear Entrance Overhang	X				X	Rear Entrance Overhang Roofing (R3)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	12/8/14	12/9/14			
(Printed) Jonathan D. Gentile	Time:	(Printed) Amanda Parkins 0900	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples: ✓
Acceptable: Yes ✓ No ____
Comments:

Proscience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857

TEM Bulk Chain of Custody Record

Date: 12/12/14

PO#: **C227406**
Client: TRC
Client Job#: 227406.0000.0000
Client Job Ref./Loc.: US Health Vest- FFH, Norwalk Building, Newtown, CT
Relinquished by: K. Williamson– KWilliamson@trcsolutions.com
Received by:
Report to: H. Laliberte – HLaliberte@trcsolutions.com
Samplers Name: J. Gentile/T. Martin

Analysis Type: Chatfield **EPA N.O.B** Qualitative

Turn Around Time: <12 Hour <24 Hour <48 Hour **<3 Day** 5 Day Other:

				For Lab Use Only	
Client ID #	**Lab ID#**	**Description**	**Location**	**Acceptable on Receipt**	**Comments**
42	45029	Mastic Only	See COC		
44	45029	Mastic Only			
56	45029	Mastic Only			
62	45029	Glue			
64	45029	Glue			
66	45029	Glue			
76	45029	Caulk			
78	45029	Caulk			
80	45029	Glaze			
82	45029	Glaze			
84	45029	Glaze			
90	45029	Vapor Barrier			
92	45029	Vapor Barrier			
94	45029	Vapor Barrier			
98	45029	Shingle			
100	45029	Roofing			
72		Level Panel			

For Lab Use Only	# Spies	Total	Client #	Batch #	Results Reported	Comments

APPENDIX D

PLM LABORATORY ANALYSIS DATA

Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

TRC
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BULK ASBESTOS ANALYSIS REPORT

CLIENT: US Health Vest

Lab Log #:	0045029
Project #:	227406.0000.0000
Date Received:	12/09/2014
Date Analyzed:	12/16/2014

Site: Fairfield Hills- Norwalk Building, Newtown, CT

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
01♣ ♦	White (skim coat)	No	Yes	1	- - -	ND	None
01♣ ♦	Grey (base coat)	No	Yes	2	- - -	0.74%	Chrysotile
02♣ ♦	White (skim coat)	No	Yes	1	- - -	ND	None
02♣ ♦	Grey (base coat)	No	Yes	2	- - -	0.25%	Chrysotile
03♣ ♦	White (skim coat)	No	Yes	1	- - -	ND	None
03♣ ♦	Grey (base coat)	No	Yes	2	- - -	0.95%	Chrysotile
04♣ ♦	White (skim coat)	No	Yes	1	- - -	ND	None
04♣ ♦	Grey (base coat)	No	Yes	2	- - -	0.96%	Chrysotile
05♣ ♦	White (skim coat)	No	Yes	1	- - -	ND	None
05♣ ♦	Grey (base coat)	No	Yes	2	- - -	0.96%	Chrysotile
06♣ ♦	White (skim coat)	No	Yes	1	- - -	ND	None
06♣ ♦	Grey (base coat)	No	Yes	2	- - -	0.50%	Chrysotile
07♣ ♦	White (skim coat)	No	Yes	1	- - -	ND	None
07♣ ♦	Grey (base coat)	No	Yes	2	- - -	2.02%	Chrysotile
08♣ ♦	White (skim coat)	No	Yes	1	- - -	ND	None
08♣ ♦	Grey (base coat)	No	Yes	2	- - -	0.50%	Chrysotile
09♣ ♦	White (skim coat)	No	Yes	1	- - -	ND	None
09♣ ♦	Grey (base coat)	No	Yes	2	- - -	0.41%	Chrysotile
10♣ ♦	Grey	Yes	No	- -	- - -	0.51%	Chrysotile

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POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
11♣ ♦	Grey	Yes	No	--	---	0.73%	Chrysotile
12♣ ♦	Grey	Yes	No	--	---	1.72%	Chrysotile
13♣ ♦	Grey	Yes	No	--	---	0.73%	Chrysotile
14♣ ♦	Grey	Yes	No	--	---	1.25%	Chrysotile
15♣ ♦	Grey	Yes	No	--	---	1.49%	Chrysotile
16♣ ♦	Grey	Yes	No	--	---	0.95%	Chrysotile
17♣ ♦	Grey	Yes	No	--	---	1.48%	Chrysotile
18♣ ♦	Grey	Yes	No	--	---	1.44%	Chrysotile
19♣ ♦	White (skim coat)	No	Yes	1	---	ND	None
19♣ ♦	Grey (base coat)	No	Yes	2	---	0.70%	Chrysotile
20♣ ♦	White (skim coat)	No	Yes	1	---	ND	None
20♣ ♦	Grey (base coat)	No	Yes	2	---	0.13%	Chrysotile
21♣ ♦	White (skim coat)	No	Yes	1	---	ND	None
21♣ ♦	Grey (base coat)	No	Yes	2	---	0.52%	Chrysotile
22♣ ♦	White (skim coat)	No	Yes	1	---	ND	None
22♣ ♦	Grey (base coat)	No	Yes	2	---	0.45%	Chrysotile
23♣ ♦	White (skim coat)	No	Yes	1	---	ND	None
23♣ ♦	Grey (base coat)	No	Yes	2	---	0.64%	Chrysotile
24♣ ♦	White (skim coat)	No	Yes	1	---	ND	None
24♣ ♦	Grey (base coat)	No	Yes	2	---	1.08%	Chrysotile
25♣ ♦	White (skim coat)	No	Yes	1	---	ND	None
25♣ ♦	Grey (base coat)	No	Yes	2	---	1.38%	Chrysotile
26♣ ♦	White (skim coat)	No	Yes	1	---	ND	None
26♣ ♦	Grey (base coat)	No	Yes	2	---	0.22%	Chrysotile

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Results you can rely on

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
27♣ ♦	White (skim coat)	No	Yes	1	---	ND	None
27♣ ♦	Grey (base coat)	No	Yes	2	---	1.58%	Chrysotile
28♣ ♦	Tan	Yes	No	--	---	ND	None
29♣ ♦	Tan	Yes	No	--	---	ND	None
30♣ ♦	Tan	Yes	No	--	---	ND	None
31	Grey	Yes	No	--	---	20%	Chrysotile
32	--	--	--	--	--	NA/PS	--
33	--	--	--	--	--	NA/PS	--
34	Brown	Yes	No	--	80% cellulose	10%	Chrysotile
35	--	--	--	--	--	NA/PS	--
36	--	--	--	--	--	NA/PS	--
37	Grey	Yes	No	--	---	80%	Chrysotile
38	--	--	--	--	--	NA/PS	--
39	Black (mastic)	No	Yes	1	---	5%	Chrysotile
39	Brown (tile)	No	Yes	2	---	10%	Chrysotile
40	--	--	--	--	--	NA/PS	--
40	--	--	--	--	--	NA/PS	--
41	Black (mastic)	No	Yes	1	---	ND	None
41	Tan (tile)	No	Yes	2	---	10%	Chrysotile
42	Black (mastic)	No	Yes	1	---	ND	None
42	--	--	--	--	--	NA/PS	--
43	Black (mastic)	No	Yes	1	---	ND	None
43	Black/Tan (tile)	No	Yes	2	---	10%	Chrysotile

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POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type
44	Black (mastic)	No	Yes	1	- - -	ND	None
44	- -	- -	- -	- -	- -	NA/PS	- -
45	Black (mastic)	No	Yes	1	- - -	3%	Chrysotile
45	Dark Beige (tile)	No	Yes	2	- - -	10%	Chrysotile
46	- -	- -	- -	- -	- -	NA/PS	- -
46	- -	- -	- -	- -	- -	NA/PS	- -
47	Black (mastic)	No	Yes	1	- - -	10%	Chrysotile
47	Off White (tile)	No	Yes	2	- - -	3%	Chrysotile
48	- -	- -	- -	- -	- -	NA/PS	- -
48	- -	- -	- -	- -	- -	NA/PS	- -
49	Black (mastic)	No	Yes	1	- - -	10%	Chrysotile
49	Black (tile)	No	Yes	2	- - -	3%	Chrysotile
50	- -	- -	- -	- -	- -	NA/PS	- -
50	- -	- -	- -	- -	- -	NA/PS	- -
51	Black (mastic)	No	Yes	1	- - -	10%	Chrysotile
51	Grey (tile)	No	Yes	2	- - -	10%	Chrysotile
52	- -	- -	- -	- -	- -	NA/PS	- -
52	- -	- -	- -	- -	- -	NA/PS	- -
53	Black (mastic)	No	Yes	1	- - -	10%	Chrysotile
53	Grey (tile)	No	Yes	2	- - -	3%	Chrysotile
54	- -	- -	- -	- -	- -	NA/PS	- -
54	- -	- -	- -	- -	- -	NA/PS	- -
55	Black (mastic)	No	Yes	1	- - -	ND	None
55	Black/Tan (tile)	No	Yes	2	- - -	10%	Chrysotile

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POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials		Asbestos %	Asbestos Type
56	Black (mastic)	No	Yes	1	- - -		ND	None
56	- -	- -	- -	- -	- -		NA/PS	- -
57	Dark Brown	Yes	No	- -	- - -		10%	Chrysotile
58	- -	- -	- -	- -	- -		NA/PS	- -
59	Dark Tan	Yes	No	- -	- - -		3%	Chrysotile
60	- -	- -	- -	- -	- -		NA/PS	- -
61	Dark Yellow	Yes	No	- -	- - -		ND	None
62	Dark Yellow	Yes	No	- -	- - -		ND	None
63	Dark Yellow	Yes	No	- -	- - -		ND	None
64	Dark Yellow	Yes	No	- -	- - -		ND	None
65	Tan	Yes	No	- -	- - -		ND	None
66	Tan	Yes	No	- -	- - -		ND	None
67	White	Yes	No	- -	- - -		ND	None
68	White	Yes	No	- -	- - -		ND	None
69	Grey	Yes	No	- -	- - -		ND	None
70	Grey	Yes	No	- -	- - -		ND	None
71	Red-Brown	Yes	No	- -	30%	cellulose	ND	None
72	Red-Brown	Yes	No	- -	30%	cellulose	ND	None
73	White	Yes	No	- -	- - -		10%	Chrysotile
74	- -	- -	- -	- -	- -		NA/PS	- -
75	White	Yes	No	- -	- - -		ND	None
76	White	Yes	No	- -	- - -		ND	None
77	Grey	Yes	No	- -	- - -		ND	None

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21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

TRC
Results you can rely on

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials		Asbestos %	Asbestos Type
78	Grey	Yes	No	--		---	ND	None
79	Light Grey	Yes	No	--		---	ND	None
80	Light Grey	Yes	No	--		---	ND	None
81	Grey	Yes	No	--		---	ND	None
82	Grey	Yes	No	--		---	ND	None
83	Grey	Yes	No	--		---	ND	None
84	Grey	Yes	No	--		---	ND	None
85	Grey	Yes	No	--		---	5%	Chrysotile
86	--	--	--	--		--	NA/PS	--
87	Brown	Yes	No	--	60%	cellulose	ND	None
88	Brown	Yes	No	--	60%	cellulose	ND	None
89	Black	Yes	No	--		---	ND	None
90	Black	Yes	No	--		---	ND	None
91	Black	Yes	No	--	60%	cellulose	ND	None
92	Black	Yes	No	--	60%	cellulose	ND	None
93	Black	Yes	No	--		---	ND	None
94	Black	Yes	No	--		---	ND	None
95	Grey	Yes	No	--		---	20%	Chrysotile
96	--	--	--	--		--	NA/PS	--
97	Black/Grey/Red	Yes	No	--	30%	cellulose	ND	None
98	Black/Grey/Red	Yes	No	--	30%	cellulose	ND	None
99	Black	Yes	No	--		---	ND	None
100	Black	Yes	No	--		---	ND	None

Industrial Hygiene Laboratory
21 Griffin Road North
Windsor, CT 06095
(860) 298-6308

TRC
Results you can rely on

POLARIZED LIGHT MICROSCOPY by EPA 600/R-93/116

Sample No.	Color	Homogenous	Multi-Layered	Layer No.	Other Matrix Materials	Asbestos %	Asbestos Type

♦ All samples analyzed by EPA/600/R-93/116 with gravimetric reduction & 600 Point Count Method
Reporting limit- asbestos present at 0.17% for 600 Point Count Method
ND- No asbestos was detected by 600 Point Count Method
<0.17%- Trace concentrations of asbestos are concentrations that are less than or equal 1% including samples that contain zero asbestos points out of 600 nonempty points, but did contain asbestos positively identified by PLM.

♣Samples analyzed by EPA/600/R-93/116 with gravimetric reduction

Reporting limit- asbestos present at 1%
ND - asbestos was not detected
Trace - asbestos was observed at level of less than 1%
NA/PS - Not Analyzed / Positive Stop

Note: Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. In those cases, negative results must be confirmed by quantitative transmission electron microscopy.

The Laboratory at TRC follows the EPA's Interim Method for the Determination of Asbestos in Bulk Insulation (1982), and the EPA recommended Method for the Determination of Asbestos in Bulk Building Materials (EPA/600/R-93/116), July 1993, R.L. Perkins and B.W. Harvey which utilizes polarized light microscopy (PLM). Our analysts have completed an accredited course in asbestos identification. TRC's Laboratory is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP), for Bulk Asbestos Fiber Analysis, NVLAP Code 18/A01, effective through June 30, 2015. TRC is an American Industrial Hygiene Association (AIHA) accredited lab for PLM effective through October 1, 2014. Asbestos content is determined by visual estimate unless otherwise indicated. Quality Control is performed in-house on at least 10% of samples and the QC data related to the samples is available upon written request from the client.

Analyzed by: K. Williamson — Kathleen Williamson, Laboratory Manager

Reviewed by: Amanda Parkins — Amanda Parkins, Approved Signatory

Date Issued
12/16/2014

PLM Gravimetric Analysis Sample No. _____

Validation Review
Change Column Heading for Column I and M
"%" to "Decimal"

Date	Analyst	Lab Log #	Sample ID	Crucible ID	Crucible Weight (g)	Crucible Weight w/ Sample (g)	Crucible Weight after Ashing (g)	Decimal Sample Remaining	Filter Weight (g)	Filter Weight + Acid Residue (g)	Decimal Sample Remaining	600 PC Results	% Asbestos Sample	Fibers Noted
12/11/2014	KW	45029	01SC	1	20.3844	20.4736	20.4672	0.928	4.377	4.4007	0.266	0.00	0.00	
			01BC	2	20.7758	21.6355	21.6043	0.964	4.3768	5.0144	0.742	1.00	0.74	
			02SC	4	17.8696	17.9341	17.9282	0.909	4.3752	4.3796	0.068	0.00	0.00	
			02BC	5	17.4768	18.9253	18.8793	0.968	4.3759	5.478	0.761	0.33	0.25	
			03SC	12	20.8226	20.9164	20.9089	0.920	4.3777	4.3864	0.093	0.00	0.00	
			03BC	14	20.0999	21.2738	21.2263	0.960	4.5085	5.3486	0.716	1.33	0.95	
			04SC	14A	19.7792	19.9449	19.9292	0.905	4.5101	4.5143	0.025	0.00	0.00	
			04BC	14B	19.9894	21.4053	21.3566	0.966	4.5102	5.5275	0.718	1.33	0.96	
			05SC	15	21.053	21.1707	21.161	0.918	4.5133	4.5178	0.038	0.00	0.00	
			05BC	17	18.3096	19.362	19.3332	0.973	4.5083	5.2644	0.718	1.33	0.96	
			06SC	18	18.728	18.7889	18.7833	0.908	4.5071	4.5109	0.062	0.00	0.00	
			06BC	20	20.5555	21.6254	21.5984	0.975	4.5092	5.3138	0.752	0.67	0.50	
			07SC	25	28.5977	28.6825	28.6736	0.895	4.5135	4.534	0.242	0.00	0.00	
			07BC	28	21.6303	22.7242	22.6896	0.968	4.5092	5.3388	0.758	2.67	2.02	
			08SC	31	20.3428	20.4312	20.4242	0.921	4.5086	4.5193	0.121	0.00	0.00	
			08BC	34	23.6789	25.3701	25.3145	0.967	4.5084	5.7728	0.748	0.67	0.50	
			09SC	38	21.6779	21.9123	21.8919	0.913	4.5081	4.5154	0.031	0.00	0.00	
			09BC	39	18.1015	19.7956	19.7158	0.953	4.3757	5.4052	0.608	0.67	0.41	
			10BC	42	25.5955	27.1982	27.144	0.966	4.3746	5.5996	0.764	0.67	0.51	
			11BC	43	24.9086	27.3381	27.2425	0.961	4.3771	6.1411	0.726	1.00	0.73	
			12BC	48	19.8909	21.3914	21.3328	0.961	4.5075	5.6173	0.740	2.33	1.72	
			13BC	52	16.8787	18.3759	18.3201	0.963	4.5088	5.6069	0.733	1.00	0.73	
			14BC	53	17.5055	19.3764	19.3066	0.963	4.5089	5.9037	0.746	1.67	1.25	
			15BC	56	21.3685	23.575	23.4939	0.963	4.5095	6.1545	0.746	2.00	1.49	
			16BC	58	17.3659	19.0401	18.9689	0.957	4.5103	5.7061	0.714	1.33	0.95	
			17BC	61	20.3934	22.7962	22.7012	0.960	4.51	6.2835	0.738	2.00	1.48	
			18BC	73	18.9533	21.1744	21.0808	0.958	4.5084	6.1129	0.722	2.00	1.44	
			19SC	77	25.2298	25.3147	25.3089	0.932	4.3961	4.4015	0.064	0.00	0.00	
			19BC	78	29.5487	30.8366	30.7819	0.958	4.3978	5.2995	0.700	1.00	0.70	

Validation Review

PLM Gravimetric Analysis Sample No. _____ Change Column Heading for Column I and M "%" to "Decimal"

Date	Analyst	Lab Log #	Sample ID	Crucible ID	Crucible Weight (g)	Crucible Weight w/ Sample (g)	Crucible Weight after Ashing (g)	Decimal Sample Remaining	Filter Weight (g)	Filter Weight + Acid Residue (g)	Decimal Sample Remaining	600 PC Results	% Asbestos Sample	Fibers Noted
			20SC	87	24.208	24.3361	24.3301	0.953	4.3938	4.3977	0.030	0.00	0.00	
			20BC	96	25.6869	27.8634	27.7957	0.969	4.3967	6.0661	0.767	0.17	0.13	
			21SC	99	17.6133	17.7232	17.7164	0.938	4.3915	4.3943	0.025	0.00	0.00	
			21BC	100	20.492	23.2469	23.1661	0.971	4.3948	6.5313	0.776	0.67	0.52	
			22SC	102	17.9161	18.0385	18.0281	0.915	4.3964	4.4058	0.077	0.00	0.00	
			22BC	107	17.6239	18.7974	18.7395	0.951	4.3964	5.1911	0.677	0.67	0.45	
			23SC	117	23.2916	23.3811	23.3736	0.916	4.3962	4.4124	0.181	0.00	0.00	
			23BC	215	20.3284	21.2601	21.2183	0.955	4.3958	4.9919	0.640	1.00	0.64	
			24SC	222	20.3953	20.4341	20.4301	0.897	4.3962	4.3997	0.090	0.00	0.00	
			24BC	309	18.7548	19.4353	19.4045	0.955	4.3959	4.8344	0.644	1.67	1.08	
			25SC	312	19.7344	19.7753	19.771	0.895	4.3962	4.4	0.093	0.00	0.00	
			25BC	320	20.9387	22.2126	22.1605	0.959	4.3956	5.2737	0.689	2.00	1.38	
			26SC	331	22.3226	22.3639	22.3601	0.908	4.4003	4.4024	0.051	0.00	0.00	
			26BC	334	20.4617	21.8761	21.8161	0.958	4.395	5.3191	0.653	0.33	0.22	
			27SC	530	24.8864	24.9503	24.9455	0.925	4.3961	4.3992	0.049	0.00	0.00	
			27BC	708	20.5595	21.9487	21.8917	0.959	4.3823	5.3252	0.679	2.33	1.58	
			28	738	19.731	19.8555	19.8131	0.659	4.3811	4.4376	0.454	0.00	0.00	
			29	761	19.1117	19.4153	19.3028	0.629	4.3832	4.5603	0.583	0.00	0.00	
			30	762	20.8503	21.0324	20.9685	0.649	4.3806	4.4737	0.511	0.00	0.00	

% Sample Remaining= (Crucible Weight after Ashing- Crucible Weight)/ (Crucible Weight w/ Sample- Crucible Weight)

% Sample Remaining= (Filter Weight + Acid Residue-Filter Weight)/ (Crucible Weight w/ Sample-Crucible Weight)

% Asbestos Sample= % Sample Remaining * % Asbestos in Residue

APPENDIX E

TEM LABORATORY ANALYSIS DATA

ProScience Analytical Services, Inc

December 18, 2014

Henry Laliberte
TRC Environmental Corp. (CT)
21 Griffin Road North
Windsor, CT 06095

Dear Henry Laliberte,

Results of samples you described and submitted to ProScience Analytical Services, Inc. are shown on the enclosed data sheets. The analytical results in this report apply to the items tested only.
The listed samples were prepared and analyzed in compliance with the New York State Transmission Electron Microscope Method for Identifying and Quantitating Asbestos in Non-Friable Organically Bound Bulk Samples. This method is used for the determination of weight percent of asbestos in non-friable materials.
The sample is processed to remove non-asbestos interference. The remaining residue is examined using a Philips 300 transmission electron microscope equipped with selected area electron diffraction (SAED) and an Evex energy dispersive x-ray analyzer.

The following are reported: identification numbers, type of material, color or the sample, initial weight of the sample, weight percent of organic material lost by ashing, weight percent of carbonates lost by acid dissolution, weight percent of non-fibrous/non asbestos inorganic material, total weight percent of asbestos in the original sample, and the type(s) of asbestos, if any.
The EPA recognizes asbestos as the following: actinolite, amosite, anthophyllite, chrysotile, crocidolite, and tremolite. To be considered asbestos containing, a material must be determined to contain greater than one percent asbestos. Samples are retained for a period of 2 months.

The quality control data related to the samples analyzed are available for review upon the written request of the client. ProScience Analytical Services, Inc. and its personnel assume no responsibility for potential sample contamination, misuse, misinformation, or misrepresentation by the client. The enclosed results may not be used under any circumstances as product endorsement by any US government agency including NIST/NVLAP.

Please contact me if you have any questions regarding this report or related information.

Sincerely,

Mark Derosier, Senior Analyst
Aimee Cormier, Laboratory Manager

Enclosure:

BATCH NUMBER : NT 14960 CLIENT PROJECT ID: 227406.0000.0000
Client Ref: US Health Vest - FFH, Norwalk Building, Newtown, CT
NVLAP Lab Code 200090-0; CT ID# PH-0209; MA ID# AA000156; ME ID# LB-055; ME ID# LA-056; AIHA ID# 102754; VT ID# AL016876; PH ID# 218(TEM,PLM); RI ID# 186.

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail general@proscience.net

Laboratory Report

Client Project #: 227406.0000.0000
Client Reference: US Health Vest - FFH, Norwalk Building, Newtown, CT
PO #: C227406
Client #: 297
Client Name: TRC Environmental Corp. (CT)

Batch: NT 14960
Method: NOB
Date Received: 12/15/2014
Date Analyzed: 12/18/2014
Date of Report: 12/18/2014

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other Non-asb.	% Organic	% Carb.	Total % Asbestos	Analyzed / Charged	Preped / Charged
					CHR	AMO	ACT	CRO	ANT	TRE						
NT113927	42	Black Mastic		.0431	.55	.00	.00	.00	.00	.00	10.90	40.14	48.96	TR	Yes	No
NT113928	44	Black Mastic		.1372	6.98	.00	.00	.00	.00	.00	16.27	69.68	7.07	6.98	Yes	No
NT113929	56	Black Mastic		.3018	7.23	.00	.00	.00	.00	.00	16.86	15.67	60.24	7.23	Yes	No
NT113930	62	Dark Yellow Wall Panel Glue		.2708	.00	.00	.00	.00	2.02	.00	38.38	45.42	14.18	2.02	Yes	No
NT113931	64	Dark Yellow Ceramic Wall Tile Glue		.0439	.00	.00	.00	.00	.00	.00	41.46	48.06	10.48	ND	Yes	No
NT113932	66	Tan Glue		.2613	.00	.00	.00	.00	.00	.00	34.21	45.85	19.94	ND	Yes	No
NT113933	72	Thick Brown Mesh-Backed Wall Panel		.1517	.00	.00	.00	.00	.00	.00	4.81	79.83	15.36	ND	Yes	No
NT113934	76	Hard White Tub Caulk		.2255	.00	.00	.00	.00	.00	.00	14.06	35.65	50.29	ND	Yes	No
NT113935	78	Hard Grey Exterior Roof Caulk		.2811	.00	.00	.00	.00	.00	.00	4.16	49.66	46.18	ND	Yes	No
NT113936	80	Light Grey Ext Wood Window Glaze		.3418	.00	.00	.00	.00	.00	.00	3.34	8.48	88.18	ND	Yes	No
NT113937	82	Grey Round Wood Ext Window Glaze		.8504	.00	.00	.00	.00	.00	.00	6.59	9.57	83.84	ND	Yes	No
NT113938	84	Small Narrow Wood Ext Window Glaze		.4651	.00	.00	.00	.00	.00	.00	4.06	8.97	86.97	ND	Yes	No
NT113939	90	Black Vapor Barrier Behind Plaster Walls		.5557	.00	.00	.00	.00	.00	.00	97.53	2.02	.45	ND	Yes	No
NT113940	92	Thick Black Felt Paper Vapor Barrier		.1515	.06	.00	.00	.00	.00	.00	2.90	94.46	2.64	TR	Yes	No
NT113941	94	Thin Tar Vapor Barrier under/behind Ext Window Sills		.1230	.00	.00	.00	.00	.00	.00	2.84	3.09	94.07	ND	Yes	No

ProScience Analytical Services, Inc.

22 Cummings Park, Woburn, Massachusetts 01801
781-935-3212 ~ Fax: 781-932-4857 ~ E-Mail general@proscience.net

Laboratory Report

Client Project #: 227406.0000.0000
Client Reference: US Health Vest - FFH, Norwalk Building, Newtown, CT
PO #: C227406
Client #: 297
Client Name: TRC Environmental Corp. (CT)

Batch: **NT 14960**
Method: NOB
Date Received: 12/15/2014
Date Analyzed: 12/18/2014
Date of Report: 12/18/2014

LAB ID	Field ID	Description:	Color	Initial Weight	% Asbestos Types						% Other	%	%	Total %	Analyzed /	Preped /
					CHR	AMO	ACT	CRO	ANT	TRE	Non-asb.	Organic	Carb.	Asbestos	Charged	Charged
NT113942	98	Asphalt Roof Shingles		.6129	.00	.00	.00	.00	.00	.00	46.80	43.95	9.25	**ND**	Yes	No
NT113943	100	Rear Entrance Overhang Roofing		.7946	.00	.00	.00	.00	.00	.00	24.53	72.50	2.97	**ND**	Yes	No

Comments:

Key: CHR = Chrysotile AMO = Amosite CRO = Crocidolite ACT = Actinolite TRE = Tremolite ANT = Anthophyllite TR = Trace = < 1% ND = None Detected

Mark Derosier, Analyst

NT 14960

Proscience Analytical Services, Inc.

22 Cummings Park, Woburn, MA 01801 Ph. 781-935-3212 Fax 781-932-4857

TEM Bulk Chain of Custody Record

Date: 12/12/14

PO#: **C227406**
Client: TRC
Client Job#: 227406.0000.0000
Client Job Ref./Loc.: US Health Vest- FFH, Norwalk Building, Newtown, CT
Relinquished by: K. Williamson– KWilliamson@trcsolutions.com
Received by: Doreen Townsend 12.15.14 8:55 AM
Report to: H. Laliberte – HLaliberte@trcsolutions.com
Samplers Name: J. Gentile/T. Martin

Analysis Type: Chatfield **EPA N.O.B** Qualitative

Turn Around Time: <12 Hour <24 Hour <48 Hour **<3 Day** 5 Day Other:

				For Lab Use Only	
Client ID #	**Lab ID#**	**Description**	**Location**	**Acceptable on Receipt**	**Comments**
42	45029	Mastic Only	See COC		
44	45029	Mastic Only			
56	45029	Mastic Only			
62	45029	Glue			
64	45029	Glue			
66	45029	Glue			
76	45029	Caulk			
78	45029	Caulk			
80	45029	Glaze			
82	45029	Glaze			
84	45029	Glaze			
90	45029	Vapor Barrier			
92	45029	Vapor Barrier			
94	45029	Vapor Barrier			
98	45029	Shingle			
100	45029	Roofing			
72	45029	Wall Panel			

For Lab Use Only	# Spies	Total	Client #	Batch #	Results Reported	Comments

NT 14960

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 45029

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
227406.0000.0000	Fairfield Hills-Norwalk Bldg Newtown, CT		PLM: [ ] 8hr [ ] 24hr [ ] 48hr [X] 3day TEM: [ ] 24hr [ ] 48hr [X] 3day [ ] 5day
SIGNATURE	INSPECTOR		
	J.Gentile/T.Martin		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE: COMP	TYPE: GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
39	12/1/14	0853		X	Room 138	X		X			9" Brown w/Streaks Floor Tile & Black Mastic (FT1)
40	12/2/14	0821		X	Room 134	X		X		X	9" Brown w/Streaks Floor Tile & Black Mastic (FT1)
41	12/1/14	0855		X	1ST Floor Hallway	X		X			9" Tan w/Streaks Floor Tile & Black Mastic (FT2)
42	12/1/14	0936		X	2nd Floor South Hallway	X		X		X	9" Tan w/Streaks Floor Tile & Black Mastic (FT2)
43	12/1/14	0854		X	Room 138	X		X			9" Black w/Tan Streaks Floor Tile & Black Mastic (FT3)
44	12/2/14	0845		X	Room 125	X		X		X	9" Black w/Tan Streaks Floor Tile & Black Mastic (FT3)
45	12/1/14	0858		X	Room 138 Closet	X		X			6" Dk Beige Floor Tile & Black Mastic (FT4)
46	12/1/14	0932		X	Room 207	X		X		X	6" Dk Beige Floor Tile & Black Mastic (FT4)
47	12/1/14	0902		X	Room 131	X		X			12" Off-White Floor Tile & Black Mastic (FT5)
48	12/1/14	0926		X	Room 202	X		X		X	12" Off-White Floor Tile & Black Mastic (FT5)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	12/8/14	12/9/14			
(Printed) Jonathan D. Gentile	Time:	(Printed) Amanda Parsons 0900	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples:
Acceptable: Yes ✓ No
Comments:

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 45029

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
227406.0000.0000	Fairfield Hills-Norwalk Bldg Newtown, CT		PLM: [ ] 8hr [ ] 24hr [ ] 48hr [X] 3day
			TEM: [ ] 24hr [ ] 48hr [X] 3day [ ] 5day
SIGNATURE	INSPECTOR		
	J.Gentile/T.Martin		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
49	12/1/14	0905		X	Room 131	X		X			12" Black Border Floor Tile & Black Mastic (FT6)
50	12/2/14	0849		X	Room 121	X		X		X	12" Black Border Floor Tile & Black Mastic (FT6)
51	12/1/14	0942		X	2nd Floor South Closet	X		X			9" Grey Floor Tile & Black Mastic (FT7)
52	12/1/14	0943		X	2nd Floor South Closet	X		X		X	9" Grey Floor Tile & Black Mastic (FT7)
53	12/1/14	1233		X	Room 312	X		X			12" Grey Floor Tile & Black Mastic (FT8)
54	12/1/14	1234		X	Room 312	X		X		X	12" Grey Floor Tile & Black Mastic (FT8)
55	12/3/14	0852		X	Elevator	X		X			4" Black/Tan Checkerboard Pattern Floor Tile & Black Mastic (FT9)
56	12/3/14	0853		X	Elevator	X		X		X	4" Black/Tan Checkerboard Pattern Floor Tile & Black Mastic (FT9)
57	12/1/14	0917		X	1st Floor South Hall	X					Dk Brown Ceiling Tile Glue Daubs (G1)
58	12/1/14	0928		X	2nd Floor South Hall	X				X	Dk Brown Ceiling Tile Glue Daubs (G1)
59	12/1/14	0858		X	1st Floor North Hallway	X					Dk Tan Wall Panel Glue (G2)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	12/8/14	12/9/14			
(Printed) Jonathan D. Gentile	Time:	(Printed) Amanda Perkins 0900	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples: ✓
Acceptable: Yes ✓ No
Comments:

TRC

Edition: October 2009
Supersede Previous Edition

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 45029

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
227406.0000.0000	Fairfield Hills-Norwalk Bldg Newtown, CT		PLM: 8hr 24hr 48hr X 3day TEM: 24hr 48hr X 3day 5day
SIGNATURE	INSPECTOR		
	J.Gentile/T.Martin		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
60	12/2/14	0842		X	1st Floor North Hallway	X				X	Dk Tan Wall Panel Glue (G2)
61	12/1/14	0915		X	1st Floor South Hallway	X					Dk Yellow Wall Panel Glue (G3)
62	12/1/14	0915		X	1st Floor South Hallway	X				X	Dk Yellow Wall Panel Glue (G3)
63	12/1/14	1024		X	2nd Floor Women's Bathroom	X					Dk Yellow Ceramic Wall Tile Glue (G4)
64	12/1/14	1025		X	2nd Floor Women's Bathroom	X				X	Dk Yellow Ceramic Wall Tile Glue (G4)
65	12/1/14	1245		X	3rd Floor Doorway to Attic	X					Tan Glue (G5)
66	12/1/14	1246		X	3rd Floor Doorway to Attic	X				X	Tan Glue (G5)
67	12/1/14	1029		X	2nd Floor Women's Bathroom	X					Ceramic Wall Tile Grout (GR1)
68	12/1/14	1229		X	3rd Floor Bathroom	X					Ceramic Wall Tile Grout (GR1)
69	12/1/14	1030		X	2nd Floor Women's Bathroom	X					Ceramic Floor Tile Grout (GR2)
70	12/1/14	1034		X	2nd Floor Women's Bathroom	X					Ceramic Floor Tile Grout (GR2)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	12/8/14	12/9/14			
(Printed) Jonathan D. Gentile	Time:	(Printed) Amanda Parkins 0900	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples:
Acceptable: Yes ✓ No
Comments:

TRC

Edition: October 2009
Supersede Previous Edition

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ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 45029

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
227406.0000.0000	Fairfield Hills-Norwalk Bldg Newtown, CT		PLM: [ ] 8hr [ ] 24hr [ ] 48hr [X] 3day TEM: [ ] 24hr [ ] 48hr [X] 3day [ ] 5day
SIGNATURE	INSPECTOR		
	J.Gentile/T.Martin		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
~~71~~	12/2/14	0847		X	1st Floor North Hallway	X					Thick Brown Mesh-Backed Wall Panel (WP1)
72	12/1/14	0900		X	1st Floor North Hallway	X				X	Thick Brown Mesh-Backed Wall Panel (WP1)
73	12/3/14	0908		X	Ext A Side Wdw	X					White Brittle Exterior Wdw/Door Caulk (C1)
74	12/3/14	0911		X	Ext D Side Wdw	X				X	White Brittle Exterior Wdw/Door Caulk (C1)
75	12/2/14	0851		X	1st Floor Bathroom	X					Hard White Tub Caulk (C2)
76	12/2/14	0852		X	1st Floor Bathroom	X				X	Hard White Tub Caulk (C2)
77	12/3/14	0952		X	Rear Entry (C Side) Roof	X					Hard Grey Exterior Roof Caulk (C3)
78	12/3/14	0953		X	Rear Entry (C Side) Roof	X				X	Hard Grey Exterior Roof Caulk (C3)
79	12/2/14	0845		X	Room 129	X					Lt Grey Ext Wood Wdw Glaze (WG1)
80	12/2/14	0853		X	Room 119	X				X	Lt Grey Ext Wood Wdw Glaze (WG1)
81	12/1/14	1248		X	South Side Attic	X					Grey Round Wood Ext Wdw Glaze (WG2)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	12/8/14	12/9/14			
(Printed) Jonathan D. Gentile	Time:	(Printed) 0900 Amanda Perkins	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples:
Acceptable: Yes ✓ No
Comments:

TRC

Edition: October 2009
Supersede Previous Edition

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ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 45029

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
227406.0000.0000	Fairfield Hills-Norwalk Bldg Newtown, CT		PLM: 8hr 24hr 48hr X 3day
			TEM: 24hr 48hr X 3day 5day
SIGNATURE	INSPECTOR		
	J.Gentile/T.Martin		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
82	12/1/14	1249		X	South Side Attic	X				X	Grey Round Wood Ext Wdw Glaze (WG2)
83	12/1/14	1250		X	South Side Attic	X					Sm Narrow Wood Ext Wdw Glaze (WG3)
84	12/1/14	1252		X	South Side Attic	X				X	Sm Narrow Wood Ext Wdw Glaze (WG3)
85	12/2/14	1305		X	Center Attic	X					¼ Round Ext Wdw Glaze (WG4)
86	12/2/14	1308		X	Center Attic	X				X	¼ Round Ext Wdw Glaze (WG4)
87	12/3/14	1258		X	Room 122	X					Wiring Insulation (W1)
88	12/3/14	1301		X	Room 122	X					Wiring Insulation (W1)
89	12/1/14	1009		X	Room 222 behind Plaster	X					Black Vapor Barrier behind Plaster Walls (VB1)
90	12/1/14	1046		X	Room 233 behind Plaster	X				X	Black Vapor Barrier behind Plaster Walls (VB1)
91	12/1/14	1242		X	Roof under R1	X					Thick Black Felt Paper Vapor Barrier (VB2)
92	12/1/14	1246		X	Roof under R1	X				X	Thick Black Felt Paper Vapor Barrier (VB2)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	12/8/14	12/9/14			
(Printed) Jonathan D. Gentile	Time:	(Printed) Amanda Parkins 0900	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples:
Acceptable: Yes ✓ No
Comments:

TRC

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Edition: October 2009
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ASBESTOS BULK SAMPLING CHAIN OF CUSTODY

LAB ID #. 45029

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
227406.0000.0000	Fairfield Hills-Norwalk Bldg Newtown, CT		PLM: [ ] 8hr [ ] 24hr [ ] 48hr [X] 3day TEM: [ ] 24hr [ ] 48hr [X] 3day [ ] 5day
SIGNATURE	INSPECTOR		
	J.Gentile/T.Martin		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	PLM EPA 600/R93/116 (POSITIVE STOP)	PLM EPA 600/R93/116 (w/ gravimetric reduction) (POSITIVE STOP)	ANALYZE BY LAYER	POINT COUNT (IF >1% & <10%)	TEM NY NOB 198.4 (IF PLM SERIES NEG)	MATERIAL
93	12/4/14	0813		X	Ext D Side Behind Limestone Wdw Sill	X					Thin Tar Vapor Barrier under/behind Ext Wdw Sills (VB3)
94	12/4/14	0815		X	Ext D Side Behind Limestone Wdw Sill	X				X	Thin Tar Vapor Barrier under/behind Ext Wdw Sills (VB3)
95	12/1/14	1253		X	South Side Roof	X					Transite Roof Shingles (R1)
96	12/1/14	1254		X	South Side Roof	X					Transite Roof Shingles (R1)
97	12/2/14	1258		X	South Side Roof Sm Addition	X					Asphalt Roof Shingles (R2)
98	12/2/14	1259		X	South Side Roof Sm Addition	X				X	Asphalt Roof Shingles (R2)
99	12/3/14	0956		X	Rear Entrance Overhang	X					Rear Entrance Overhang Roofing (R3)
100	12/3/14	0958		X	Rear Entrance Overhang	X				X	Rear Entrance Overhang Roofing (R3)

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	12/8/14	12/9/14			
(Printed) Jonathan D. Gentile	Time:	(Printed) Amanda Parsons 0900	(Printed)	Time:	(Printed)

Remarks:

Condition of Samples:
Acceptable: Yes ✓ No
Comments:

APPENDIX F

LEAD PAINT XRF MEASUREMENT TABLE

Lead Based Paint Measurement Summary Table

Device(s):	**Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer**
Site:	**Norwalk Hall, Fairfield Hills Complex, Newtown, CT**
Project # :	**227406.0001.00000**
Date(s):	**12/3/2014**
Inspector:	**Thomas Martin (Lead Inspector #002079)**

Number	Room	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
1	**Shutter calibration**							0	0		114.9	12/2/2014 9:10
2	**1.0 calibration**							-0.84	0.6	1	4.83	12/2/2014 9:13
3	**0.0 calibration**							-0.44	0.59	1	6.2	12/2/2014 9:13
4	**1.0 calibration**							0.8	0.7	1.18	7.93	12/2/2014 9:14
5	Room 136	A	Wall		Plaster	Blue	Defective	-0.21	0.83	1	5.55	12/2/2014 9:26
6	Room 136	A	Window	Sill	Metal	Brown	Defective	-0.02	0.58	1.39	14.84	12/2/2014 9:27
7	hall north	A	Wall	--	Plaster	Blue	Defective	0.03	0.39	2.09	23.85	12/2/2014 9:31
8	hall north	A	Door	Jamb	Metal	Brown	Defective	0.8	0.7	1.43	10.04	12/2/2014 9:33
9	Room 131	C	Wall	--	Concrete	White	Defective	0.3	0.38	2.25	21.72	12/2/2014 9:36
10	Room 131	C	Radiator	--	Metal	White	Defective	-0.05	0.74	2.26	8.64	12/2/2014 9:38
11	Room 130	A	Wall	--	Plaster	Pink	Defective	0.4	0.4	3.39	18.56	12/2/2014 9:45
12	Room 127	C	Wall	--	Plaster	White	Defective	0.2	0.38	3.68	23.09	12/2/2014 9:47
13	bathroom north, 1st floor	C	Door	Jamb	Wood	White	Defective	13	1.4	8.55	9.64	12/2/2014 9:51
14	bathroom north, 1st floor	D	Wall	--	Concrete	White	Defective	0.4	0.5	4.9	17.22	12/2/2014 9:55
15	Room 124	A	Wall	--	Plaster	Green	Defective	0.26	0.4	2.2	21.04	12/2/2014 9:57
16	A side north closet, 1st floor	A	Wall	--	Plaster	White	Defective	0.4	0.7	3.6	8.63	12/2/2014 10:02
17	A side north closet, 1st floor	B	Shelf	--	Wood	White	Defective	5.8	0.9	3	11.41	12/2/2014 10:03
18	entrance vestibule, 1st floor	A	Wall	--	Plaster	Blue	Defective	0.6	0.7	2.47	6.93	12/2/2014 10:07
19	entrance vestibule, 1st floor	A	Wall	lower	Wood	White	Defective	4.1	0.9	4.61	7.89	12/2/2014 10:10
20	entrance vestibule, 1st floor	A	Door	--	Wood	White	Defective	1.7	0.6	2.43	9.64	12/2/2014 10:14
21	entrance vestibule, 1st floor	A	Door	Jamb	Wood	White	Defective	4.1	0.9	4.64	8.31	12/2/2014 10:17
22	main lobby, 1st floor	B	Door	Jamb	Wood	natural	Defective	0.05	0.52	1.63	6.88	12/2/2014 10:21
23	main lobby, 1st floor	D	Wall	--	Plaster	Blue	Defective	0.4	0.5	1.66	12.05	12/2/2014 10:22
24	main lobby, 1st floor	B	Stair	Baseboard	Metal	Brown	Defective	2	0.9	1.48	9.32	12/2/2014 10:25
25	Room 118	B	Wall	--	Plaster	Yellow	Defective	0.7	0.7	3.31	7.92	12/2/2014 10:28
26	south hall elevator, 1st floor	A	Door	--	Metal	Brown	Defective	0.7	0.8	1.59	7.6	12/2/2014 10:31
27	south hall bathroom, 1st floor	C	Window	Casing	Wood	White	Defective	16.2	1.7	6.23	7.94	12/2/2014 10:33
28	Room 106	B	Wall	--	Plaster	Blue	Defective	0.25	0.46	3.12	17.23	12/2/2014 10:36
29	Room 106	C	Closet	wall	Plaster	Tan/Beige	Defective	0.3	1.85	1.17	2.08	12/2/2014 10:39
30	Room 106	C	Closet	wall	Plaster	Tan/Beige	Defective	0.6	0.6	1.48	8.3	12/2/2014 10:40

Lead paint includes paint found to contain **any detectable** amount of lead
by Atomic Absorption Spectrophotometry (AAS) or X-Ray Fluorescence (XRF).

Side A = Street side; Sides B,C,D follow clockwise

Lead Based Paint Measurement Summary Table

Device(s):	**Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer**
Site:	**Norwalk Hall, Fairfield Hills Complex, Newtown, CT**
Project # :	**227406.0001.00000**
Date(s):	**12/3/2014**
Inspector:	**Thomas Martin (Lead Inspector #002079)**

Number	Room	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
31	Room 115	C	Wall	--	Plaster	White	Defective	0.03	0.48	4.28	14.5	12/2/2014 10:46
32	Room 115	C	Window	Sill	Metal	Brown	Defective	7.6	1.3	2.27	8.32	12/2/2014 10:47
33	south hall, 1st floor	C	Upper trim/faci	Crown moldin	Wood	Blue	Defective	4.1	0.9	4.43	6.58	12/2/2014 10:49
34	north stairs, 1st floor	D	Stair	Kick plate	Metal	Brown	Defective	2.2	1.1	1.28	6.57	12/2/2014 10:58
35	Room 246	A	Wall	--	Plaster	White	Defective	0.01	0.5	3.42	12.11	12/2/2014 11:01
36	Room 246	A	Window	Sill	Metal	Brown	Defective	7.2	1.3	5.88	8.64	12/2/2014 11:03
37	Room 246	A	Window	Casing	Wood	Brown	Defective	0.3	0.49	1.27	8.25	12/2/2014 11:03
38	Room 242	D	Wall	--	Plaster	purple	Defective	0.4	0.7	2.58	7.59	12/2/2014 11:06
39	Room 240	D	Wall	--	Plaster	Pink	Defective	0.5	0.6	2.62	10.34	12/2/2014 11:08
40	Room 240	C	Door	Jamb	Wood	Brown	Defective	0.6	0.8	1.67	7.6	12/2/2014 11:09
41	Room 236	D	Wall	--	Plaster	Blue	Defective	0.5	0.5	2	11.06	12/2/2014 11:11
42	Room 234	B	Wall	--	Plaster	Tan/Beige	Defective	0.4	0.5	4.52	15.46	12/2/2014 11:13
43	c side closet north, 2nd floor	D	Wall	--	Plaster	Tan/Beige	Defective	0.5	0.5	1.67	11.41	12/2/2014 11:16
44	c side closet north, 2nd floor	D	Shelf	--	Wood	Tan/Beige	Defective	3.4	0.7	1.86	11.05	12/2/2014 11:17
45	c side closet north, 2nd floor	C	Window	Sill	Wood	White	Defective	1	0.6	1.72	6.93	12/2/2014 11:18
46	c side closet north, 2nd floor	C	Window	Casing	Wood	White	Defective	8.4	1	2.29	11.05	12/2/2014 11:19
47	south hall, 2nd floor	C	fire door	Door	Metal	Blue	Defective	9.5	1.2	3.79	9.34	12/2/2014 11:25
48	south hall bathroom, 2nd floor	C	Window	Casing	Wood	White	Defective	18.4	1.9	9.35	7.94	12/2/2014 11:30
49	south hall bathroom, 2nd floor	C	Window	Sash int	Wood	White	Defective	17.4	2	10	6.89	12/2/2014 11:31
50	Room 209	C	Window	Sill	Metal	Brown	Defective	4.5	1.3	1.48	6.54	12/2/2014 11:34
51	Room 209	C	Window	Casing	Wood	natural	Defective	0.04	0.49	1.16	7.58	12/2/2014 11:35
52	Room 209	B	Wall	--	Plaster	aqua	Defective	0.5	0.6	1.82	10.32	12/2/2014 11:36
53	Room 207	B	Wall	--	Plaster	Grey	Defective	0.6	0.5	1.91	12.06	12/2/2014 11:38
54	south hall	A	Wall	--	Plaster	Blue	Defective	0.3	0.51	1.76	12.77	12/2/2014 11:39
55	Room 204	D	Wall	--	Plaster	White	Defective	0.23	0.58	1.93	11.38	12/2/2014 11:41
56	Room 201	A	Wall	--	Plaster	Green	Defective	0.5	0.5	1.78	13.14	12/2/2014 11:44
57	Room 201	A	Closet	wall	Plaster	Tan/Beige	Defective	0.3	0.52	1.37	12.44	12/2/2014 11:45
58	Room 201	A	Closet	Jamb	Wood	Brown	Defective	1.2	0.8	1.17	7.25	12/2/2014 11:46
59	south stairs, 2nd floor	A	Stair	Trimwork	Wood	Brown	Defective	3.1	1	1.46	8.63	12/2/2014 11:49
60	south stairs, 2nd floor	B	Window	Trimwork	Wood	natural	Defective	0.27	0.39	1.2	10.72	12/2/2014 11:50

Lead paint includes paint found to contain **any detectable** amount of lead
by Atomic Absorption Spectrophotometry (AAS) or X-Ray Fluorescence (XRF).

Side A = Street side; Sides B,C,D follow clockwise

Lead Based Paint Measurement Summary Table

Device(s):	**Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer**
Site:	**Norwalk Hall, Fairfield Hills Complex, Newtown, CT**
Project # :	**227406.0001.00000**
Date(s):	**12/3/2014**
Inspector:	**Thomas Martin (Lead Inspector #002079)**

Number	Room	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
61	Room 215	B	Wall	--	Plaster	Brown	Defective	0.7	0.5	2.27	11.75	12/2/2014 11:55
62	Room 215	C	Window	Sill	Metal	Brown	Defective	3	1	1.89	8.65	12/2/2014 11:56
63	Room 215	C	Window	Casing	Wood	natural	Defective	0.07	0.46	1	8.64	12/2/2014 11:58
64	Room 214	--	Ceiling	--	Plaster	White	Defective	0.4	0.5	2.42	12.03	12/2/2014 12:02
65	Room 221	--	Ceiling	--	Plaster	White	Defective	0.3	0.7	4.16	7.26	12/2/2014 12:08
66	Room 221	B	Wall	painted trim	Plaster	Brown	Defective	0.23	0.52	3.59	13.08	12/2/2014 12:09
67	Room 221	B	Wall	--	Plaster	Tan/Beige	Defective	0.5	0.6	4.21	10.29	12/2/2014 12:10
68	**0.0 calibration**							-0.47	0.56	1	5.86	12/2/2014 12:15
69	**0.0 calibration**							-0.1	0.23	1	30	12/2/2014 12:16
70	**1.0 calibration**							1	0.6	1.12	9.67	12/2/2014 12:17
71	**Shutter calibration**							0	0		114.95	12/3/2014 9:21
72	**0.0 calibration**							-0.59	0.49	1	7.57	12/3/2014 9:27
73	**0.0 calibration**							-0.09	0.57	1.1	8.28	12/3/2014 9:28
74	**0.0 calibration**							0.4	0.5	1.13	12.41	12/3/2014 9:28
75	central stairway, 3rd floor	D	Wall		Plaster	Blue	Defective	-0.01	0.68	1.45	10.69	12/3/2014 9:44
76	central stairway, 3rd floor	D	Window	Casing	Wood	natural	Defective	0.11	0.47	1	10.01	12/3/2014 9:45
77	3rd floor hallway	A	Wall	--	Plaster	Blue	Defective	0.16	0.52	1.94	14.16	12/3/2014 9:47
78	north closet, 3rd floor	D	Wall	--	Plaster	Tan/Beige	Defective	-0.17	0.7	1.1	8.59	12/3/2014 9:50
79	north closet, 3rd floor	C	Wall	--	Plaster	Tan/Beige	Defective	0.05	0.65	1.5	11.01	12/3/2014 9:51
80	north closet, 3rd floor	C	Window	Casing	Wood	Tan/Beige	Defective	15.9	1.5	2.35	9.66	12/3/2014 9:51
81	north closet, 3rd floor	C	shelf	--	Wood	Tan/Beige	Defective	12.7	1.5	2.13	8.32	12/3/2014 9:53
82	Room 308	D	Wall	--	Plaster	Blue	Defective	-0.34	0.47	1.83	17.91	12/3/2014 9:54
83	Room 303	B	Wall	--	Plaster	Yellow	Defective	-0.14	0.43	5.75	21.75	12/3/2014 9:57
84	Room 303	C	Window	Sill	Metal	Brown	Defective	3.5	1.1	2.11	8.59	12/3/2014 9:58
85	Room 301	D	Wall	--	Plaster	Green	Defective	-0.13	0.69	1.74	8.27	12/3/2014 10:03
86	bathroom, 3rd floor	B	Wall	--	Plaster	White	Defective	18.3	2.2	7.07	6.21	12/3/2014 10:05
87	bathroom, 3rd floor	B	Window	Casing	Wood	White	Defective	19.4	1.8	5.46	8.59	12/3/2014 10:06
88	bathroom, 3rd floor	B	Window	Sash int	Wood	White	Defective	18.4	1.7	4.44	9.33	12/3/2014 10:07
89	Room 302	D	Wall	--	Plaster	White	Defective	-0.08	0.5	2.38	16.52	12/3/2014 10:09
90	south storage room, 3rd floor	D	Wall	--	Brick	White	Defective	0.13	0.81	1.49	9.29	12/3/2014 10:13

Lead paint includes paint found to contain **any detectable** amount of lead
by Atomic Absorption Spectrophotometry (AAS) or X-Ray Fluorescence (XRF).

Side A = Street side; Sides B,C,D follow clockwise

Lead Based Paint Measurement Summary Table

Device(s):	**Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer**
Site:	**Norwalk Hall, Fairfield Hills Complex, Newtown, CT**
Project # :	**227406.0001.00000**
Date(s):	**12/3/2014**
Inspector:	**Thomas Martin (Lead Inspector #002079)**

Number	Room	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
91	south storage room, 3rd floor	D	Door	--	Wood	Brown	Defective	1	0.5	1.56	10.69	12/3/2014 10:14
92	south attic	A	roof beam	--	Wood	Tan/Beige	Defective	-0.17	0.44	1	8.63	12/3/2014 10:18
93	south attic	C	roof beam	--	Wood	Tan/Beige	Defective	-0.06	0.63	1	3.79	12/3/2014 10:20
94	south attic	B	Window	Casing	Wood	Tan/Beige	Defective	7.8	1.3	1.52	6.55	12/3/2014 10:23
95	Room 305	C	Window	sash exterior	Wood	White	Defective	20	2.1	2.79	6.54	12/3/2014 10:27
96	Room 305	C	Window	Sash int	Wood	natural	Defective	3.9	0.8	1.31	9.99	12/3/2014 10:29
97	Room 305	C	Window	Casing	Wood	natural	Defective	0.01	0.57	1.43	7.94	12/3/2014 10:29
98	Room 305	C	Window	Sill	Metal	Brown	Defective	2.3	1.1	1.39	7.25	12/3/2014 10:30
99	ENTRY FRONT	A	Door	--	Wood	White	Defective	1.5	0.6	3.62	9.67	12/3/2014 10:50
100	ENTRY FRONT	A	Door	Jamb	Wood	White	Defective	3.5	1	2.41	6.18	12/3/2014 10:50
101	ENTRY FRONT	A	attached pillar	far right	Wood	White	Defective	-0.1	0.34	1.29	10.35	12/3/2014 10:53
102	ENTRY FRONT	A	round pillar	far right	Wood	White	Defective	0.9	0.5	1.78	9.64	12/3/2014 10:54
103	ENTRY	B	Door	Casing	Wood	White	Defective	22.5	2.3	8.2	6.54	12/3/2014 10:57
104	ENTRY	B	Window	Sill	Wood	White	Defective	27.1	2.3	10	7.61	12/3/2014 10:58
105	ENTRY	C	pillar	--	Wood	White	Defective	1.3	0.6	3.78	10.35	12/3/2014 11:02
106	ENTRY	D	Door	--	Wood	White	Defective	-0.05	0.38	1	9.32	12/3/2014 11:05
107	ENTRY	D	Window	Sill	Wood	White	Defective	26.8	2.3	9.73	7.94	12/3/2014 11:06
108	ENTRY	D	Window	lower trim	Wood	White	Defective	24	2.3	6.76	6.88	12/3/2014 11:07
109	north stairs, basement	A	Wall	--	Plaster	Tan/Beige	Defective	0.15	0.73	1.46	8.31	12/3/2014 11:28
110	north hall, basement	--	support colum	--	Metal	Brown	Defective	2	1.3	1.21	5.15	12/3/2014 11:32
111	north hall, basement	C	Window	Sash int	Wood	White	Defective	12.6	1.5	2.34	7.95	12/3/2014 11:34
112	north hall, basement	B	Door	Jamb	Wood	Tan/Beige	Defective	12.3	1.6	1.8	7.24	12/3/2014 11:36
113	central room, basement	D	Wall	--	Plaster	Blue	Defective	-0.17	0.9	2.31	5.83	12/3/2014 11:38
114	central room, basement	D	Wall	lower panel	Wood	natural	Defective	-0.32	0.69	1	6.22	12/3/2014 11:39
115	central room, basement	C	Window	Sash int	Wood	Brown	Defective	5	1.2	1.35	5.53	12/3/2014 11:40
116	south hall, basement	A	Window	Sash int	Wood	White	Defective	25.9	3.9	4.45	3.1	12/3/2014 11:43
117	south hall, basement	C	exterior door	--	Wood	White	Defective	14.3	2.2	1.83	4.48	12/3/2014 11:44
118	south hall, basement	C	exterior door	trim	Wood	White	Defective	13.1	1.8	1.43	6.21	12/3/2014 11:45
119	**0.0 calibration**	--	--	--	--			-0.98	0.64	1	5.15	12/3/2014 11:49
120	**0.0 calibration**	--	--	--	--			-0.03	0.68	1.04	6.54	12/3/2014 11:49

Lead paint includes paint found to contain **any detectable** amount of lead by Atomic Absorption Spectrophotometry (AAS) or X-Ray Fluorescence (XRF).

Side A = Street side; Sides B,C,D follow clockwise

Lead Based Paint Measurement Summary Table

Device(s):	**Niton XLP301-A (Serial #24792) X Ray Fluorescence (XRF) Spectrum Analyzer**
Site:	**Norwalk Hall, Fairfield Hills Complex, Newtown, CT**
Project # :	**227406.0001.00000**
Date(s):	**12/3/2014**
Inspector:	**Thomas Martin (Lead Inspector #002079)**

Number	Room	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
121	**0.0 calibration**	--	--	--	--			0.4	0.6	1.14	10.01	12/3/2014 11:50
122												
123												
124												
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128												
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Lead paint includes paint found to contain **any detectable** amount of lead
by Atomic Absorption Spectrophotometry (AAS) or X-Ray Fluorescence (XRF).

Side A = Street side; Sides B,C,D follow clockwise

APPENDIX G

COMPOSITE BUILDING MATERIAL WASTE CHARACTERIZATION DATA

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

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

Client: Mr. Jonathan Gentile
TRC Environmental Consultants
21 Griffin Rd., North
Windsor, CT 06095

Analytical Report
CET# 4120511

Report Date: December 23, 2014
Project: Fairfield Hills
Project Number: 227406.0000.0000

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

NELAP ACCREDITED TNI LABORATORY

New York Certification: 11982
Rhode Island Certification: 199

SAMPLE SUMMARY

The sample(s) were received at 23.3°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
01	4120511-01	Solid	12/04/2014 12:00	12/19/2014

Analyte: TCLP Lead [EPA 6020A] **Analyst: SS**

Prep: EPA 3005A-1311 **Matrix: Extract**

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4120511-01	01	1.2	0.013	mg/L	1	B4L2313	12/23/2014	12/23/2014 15:59	

CET #:4120511
Project: Fairfield Hills
Project Number: 227406.0000.0000

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

Sincerely,

David Ditta
Laboratory Director

Report Comments:

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

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

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

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

4120511

TRC

21 GRIFFIN ROAD NORTH
WINDSOR, CONNECTICUT 06095
TELEPHONE (860) 298-9692
FAX (860) 298-6380

Edition: November 2013
Supersede Previous Edition

TCLP CHAIN OF CUSTODY

LAB ID #.

PROJECT NUMBER	PROJECT NAME	PARAMETERS	TURNAROUND TIME
227406.0000.0000	FF Hills Norwalk Bldg		24hr 48hr X 3day 5day
			24hr 48hr 3day 5day
INSPECTOR: (SIGNATURE)	(PRINTED) J. Gentile/T. Martin		

FIELD SAMPLE NUMBER	DATE	TIME	TYPE COMP	TYPE GRAB	SAMPLE LOCATION	RCRA Pb	RCRA Pb, AS, CR, CD	8 RCRA Metals	TCLP Pb	SPLP Pb		MATERIAL
01	12/4/14	1200		X	Throughout Bldg				X			Non-Recyclable Building Material Waste Stream

TEMP N 23.3

Relinquished by: (Signature)	Date:	Received by: (Signature)	Relinquished by: (Signature)	Date:	Received by: (Signature)
	12/18/14	1145 12-19-14		12/19/14	
(Printed) Jonathan D. Gentile	Time:	(Printed) ROBERT PERCHANT	(Printed) ROBERT PERCHANT	Time: 1620	(Printed)

TRC

TCLP WASTE CHARACTERIZATION
FIELD SAMPLE COMPUTATION TABLE

Site: Fairfield Hills - Norwalk Hall

Project No.: 227406.0000.0000

Date: 12/18/2014
Inspector: J. Gentile/T. Martin
Prepared by: J. Gentile

	A	B									C = A*B	D	E=C*D	G=E/F*100
		Thickness (inches) **ft**												
Building	**Area**	1/16"	1/8"	1/2"	3/4"	1"	2"	4"	6"	8"	12"	**Volume**	**Density**	**Mass**	**% of total**
Component	**(SF)**	**0.005**	**0.010**	**0.042**	**0.063**	**0.083**	**0.167**	**0.333**	**0.500**	**0.667**	**1.000**	**(CF)**	**(lb/CF)**	**(lb)**	**Mass**
sheetrock				0.042								0.0	50	0.0	0.0
plaster				0.042								0.0	45	0.0	0.0
brick								0.333				0.0	120	0.0	0.0
roofing				0.042								0.0	70	0.0	0.0
wood framing (walls) +								0.333				0.0	32	0.0	0.0
wood framing (roof) +	1241.0								0.500			620.5	32	19856.0	30.7
wood roof deck	10772.0					0.083						894.1	45	40233.4	62.1
ceiling tile (cellulose)				0.042								0.0	23	0.0	0.0
clapboard				0.042								0.0	40	0.0	0.0
aluminum siding		0.005										0.0	169	0.0	0.0
vinyl			0.010									0.0	120	0.0	0.0
concrete										0.667		0.0	140	0.0	0.0
stone										0.667		0.0	140	0.0	0.0
plywood					0.063							0.0	34	0.0	0.0
glass			0.010									0.0	170	0.0	0.0
wood trim/window/door	1941.0				0.063							122.3	38	4646.8	7.2
													Total Mass	64736	100%

= typical thickness value

F=sum of E

+ framing area (SF) per wall = [(6L+3H+2LH)/18], where L & H are in feet, assuming 18" o.c. construction
* CTDEP waste characterization guidelines recommend one TCLP sample for every 2,500 SF of floor space
* concrete/stone foundation should not be included in TCLP sample unless foundation is to be completely removed during demolition and disposed off site
* steel should not be included in TCLP sample, steel to be recycled and not disposed of
* material density values taken from Lindeburg, ME reference manual, 10th edition, 1997
* components with very low density or very low volume (i.e. vinyl flooring/siding, insulations, carpet, ceramic tile, fixtures, etc) presumed negligible to mass and not included
* collect separate aliquot samples of applicable components
* calculate % of total mass for each component
* prepare 100 gram sample in lab by combining subsamples of aliquots at %'s calculated. Do not grind material up, this creates increased surface area and unrepresentative leachability
* submit entire 100 gram sample for TCLP analysis (this eliminates lab analyst error where only a non-representative portion of a larger submitted sample is analyzed) 100 g = method minimum

APPENDIX H

ABATEMENT ESTIMATES

Site: Norwalk Hall, Fairfield Hills Complex, Newtown, CT
TRC Project #: 227406.00001

ITEM DESCRIPTION	QTY	UNIT	COST	MULT	TOTAL
ASBESTOS REMOVAL					
HEPA VACUUMING	10000	SF	$ 0.50	1 $	5,000.00
PIPING REMOVAL <6" INCL FITTINGS		LF	$ 5.00	1 $	-
PIPING REMOVAL 6"-12" INCL FITTINGS	11524	LF	$ 7.50	1 $	86,430.00
PIPING REMOVAL >12" INCL FITTINGS		LF	$ 10.00	1 $	-
GLOVE BAG FIRST 25		EA	$ 70.00	1 $	-
GLOVEBAG 25-50		EA	$ 60.00	1 $	-
GLOVEBAG OVER 50		EA	$ 50.00	1 $	-
REMOVE EQUIPMENT INSULATION		SF	$ 10.00	1 $	-
REMOVE HVAC DUCT FLEX CONN		SF	$ 7.50	1 $	-
FLOOR TILE AND MASTIC (includes mastic only and WBC)	27200	SF	$ 3.00	1 $	81,600.00
FLOOR TILE (NO MASTIC)		SF	$ 1.50	1 $	-
SPRAY ON FIREPROOFING		SF	$ 6.00	1 $	-
CONTAMINATED SOIL (2" DEPTH)		SF	$ 4.00	1 $	-
TRANSITE MATERIAL (Roofs)	14,000	SF	$ 2.50	1 $	35,000.00
ROOFING OR FLASHING	500	SF	$ 3.50	1 $	1,750.00
UNDERGROUND PIPE OR INSULATION (HAND EXCAVATION)		LF	$ 30.00	1 $	-
CARPET OVER TILE		SF	$ 2.50	1 $	-
REMOVAL OF DRYWALL PARTITIONS INCL FRAMING		SF	$ 2.00	1 $	-
REMOVAL OF CMU WALL		SF	$ 5.00	1 $	-
PREP WORK AREA	5000	SF	$ 3.00	1 $	15,000.00
SOLID BARRIER OR ACCESS TUNNELS 2X4 AND PLYWOOD		SF/SA	$ 2.50	1 $	-
STANDBY ABATEMENT PERSONNEL	80	HR	$ 50.00	1 $	4,000.00
SELECTIVE DEMOLITION TO ACCESS ACM	5000	SF	$ 3.00	1 $	15,000.00
REMOVAL OF FLOOR LEVELING MATERIAL		SF	$ 2.00	1 $	-
MISCELLANEOUS ITEMS					
MOBILIZATION (1 PER WORK AREA)	6	EA	$ 250.00	1 $	1,500.00
WORKER DECON (1 PER WORK AREA)	6	EA	$ 250.00	1 $	1,500.00
TEMP ELECTRICAL CONNECTION (LICENSED ELECTRICIAN)		EA		1.1 $	-
TEMP GENERATOR		DY	$ 250.00	1.1 $	-
ACM DISPOSAL (INCLUDES TRANSPORTATION)	300	CY	$ 55.00	1 $	16,500.00
HAZARDOUS WASTE DISPOSAL (INCLUDES TRANS)		CY	$ 250.00	1 $	-
CONSTRUCTION DEBRIS DISPOSAL (INCLUDES TRANS)	80	CY	$ 25.00	1 $	2,000.00
FIXED SCAFFOLDING		SF		1.1 $	-
EXCAVATION TO EXPOSE UNDERGROUND PIPE		CY		1.1 $	-
PROJECT NOTIFICATION (1% OF ABATEMENT COST)	1	EA	$ 8,206.85	1.1 $	9,027.54
PROJECT BOND (2% OF TOTAL CONTRACT)		EA		1.1 $	-
ESCALATION FACTORS					
WORK SURFACES 10-20 FEET HIGH				15% $	-
WORK SURFACES OVER 20 FEET HIGH			$ 35,300.00	30% $	10,590.00
NON REGULAR WORK HOURS 6:00PM-6:00AM AND WEEKEND				30% $	-
EMERGENCY RESPONSE				30% $	-
CONFINED SPACE WORK				15% $	-
REMOVAL OF MULTIPLE LAYERS OF TILE (EACH ADDIT LAYER)				50% $	-
REMOVE ON LIVE STEAM EQUIPMENT				25% $	-
EXTERIOR WORK			$ 75,300.00	30% $	22,590.00
NEGOTIATED ITEMS					
ceiling tile glue daubs	9950	SF	$ 2.50	1 $	24,875.00
windows & doors w/ glazing	4	EA	$ 75.00	1 $	300.00
windows/doors/building caulk	8000	SF	$ 5.00	1 $	40,000.00
transite pipe		LF	$ 15.00	1 $	-
Plaster	83700	SF	$ 5.00	1 $	418,500.00
Fire door insulation	10	EA	$ 50.00	1 $	500.00
Flashing Materials		SF	$ 5.00	1 $	-
Thermal insulation debris	5800	SF	$ 3.00	1 $	17,400.00
Wall panel glue/mastic	3,600	SF	$ 4.00	1 $	14,400.00
pipe/flange gaskets	50	EA	$ 25.00	1 $	1,250.00
				1 $	-
CONTINGENCY (10%)				10%	**$ 82,471.25**
	TOTAL				**$ 907,183.79**

Hazardous/Regulated Materials Removal Estimate
Norwalk Hall, Fairfield Hills Complex
Newtown, CT
Project No. 227406.00001

Item	Quantity	Units	Rate	Total
Operations Supervisor	40	hrs	$57.50	$2,300.00
Equipment Operator (Demo)	0	hrs	$51.25	$0.00
Laborer (Demo)	80	hrs	$38.75	$3,100.00
Driver (Demo Disposal)	40	hrs	$40.75	$1,630.00
Laborer (HHW/Sumps)	0	hrs	$38.75	$0.00
Driver (HHW Disposal)	0	hrs	$40.75	$0.00
Vacuum Truck (oil)	8	hrs	$60.00	$480.00
Box truck	40	hrs	$23.50	$940.00
Utility Trucks (< 18000 GVW)	0	hrs	$12.50	$0.00
Loader/Backhoe (15' dig depth)	0	hrs	$59.00	$0.00
Mini Excavator	0	hrs	$29.00	$0.00
Excavator (70,000 lbs.)	0	hrs	$105.00	$0.00
Excavator (90,000 lbs.)	0	hrs	$147.00	$0.00
Grapple Attachment	0	hrs	$16.00	$0.00
Hydraulic Hammer Attachment	0	hrs	$75.00	$0.00
Skid Steer Loader	0	hrs	$21.50	$0.00
Lowbed Trailer/Tractor	0	hrs	$59.50	$0.00
Triaxle Dump Truck	0	hrs	$31.50	$0.00
17C DOT 55 gal Drums (HHW)	0	ea	$60.00	$0.00
TrenchBox (8'x24') (disconnects)	0	days	$120.00	$0.00
Water Wagon	0	hrs	$22.00	$0.00
Sawzall	40	hrs	$3.30	$132.00
Propane Heater	0	hrs	$9.10	$0.00
Poly (10-mil sheeting 28'x100')	4	ea	$115.00	$460.00
Speedi-Dry (50 lb bag)	10	bag	$20.00	$200.00
Roll-off Truck	40	hrs	$52.50	$2,100.00
Roll-off Container (30 CY)	5	days	$20.00	$100.00
Roll-off Liners (haz waste/CRW soil)	2	ea	$70.00	$140.00
Generator (5 kw)	2	days	$150.00	$300.00
Demo Permit	1	ea	$5,500.00	$5,500.00
Hazardous/Regulated Items	80	ea	$2.00	$160.00
Bio Waste Cleanup	4	ea	$2,000.00	$8,000.00
Transformer Removal	1	ea	$3,000.00	$3,000.00
Sewage Cleanup	0	SF	$5.00	$0.00
PCB Waste	0	Ton	$300.00	$0.00
Demo Disposal(concrete/brick)	0	CY	$5.00	$0.00
Backfill	0	CY	$10.00	$0.00
			TOTAL EST.	**$28,542.00**