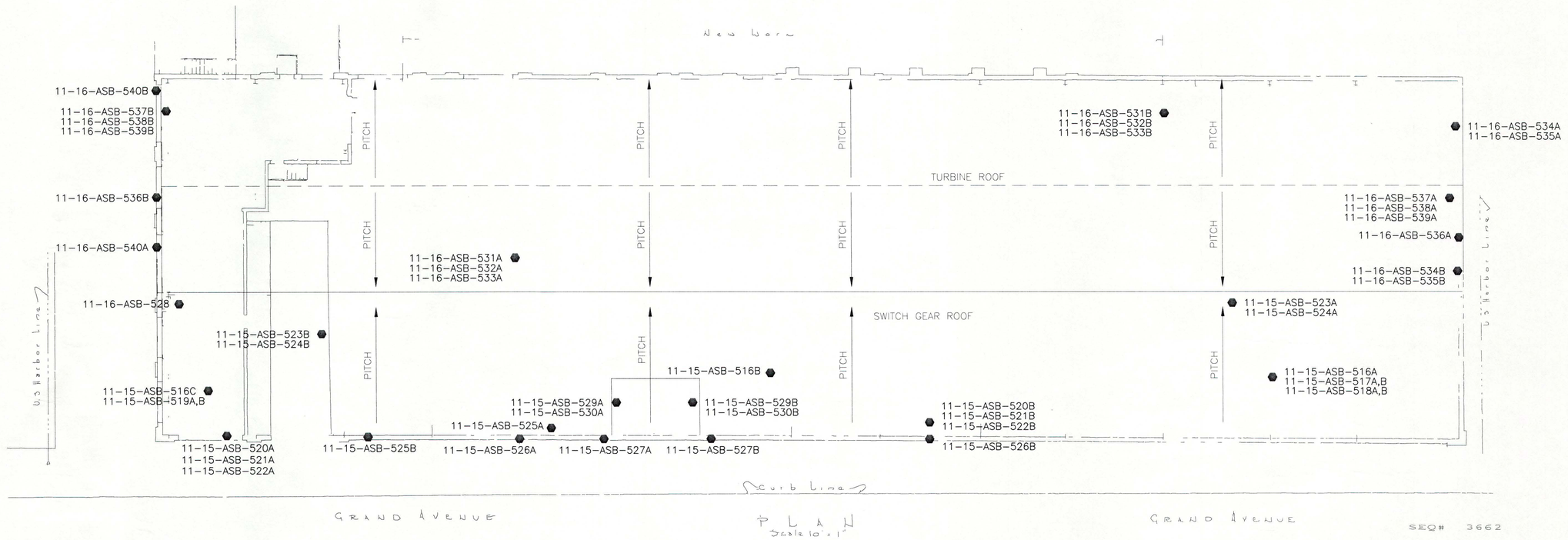

PLAN
Scale 10' = 1"

SEQ# 3662

LEGEND

● 11-3-ASB-385A ASBESTOS SAMPLE LOCATION

THIS MAP IS COMPILED FROM A PLAN TITLED: "STATION "B" WAREHOUSE FLOOR SLAB REPLACEMENT, UNITED ILLUMINATING CO., ENGLISH STATION, NEW HAVEN, CONN., PREPARED BY WESTCOTT AND MAPES INC. NEW HAVEN, CONN., DATED 5-2-43, PROJ NO. 43060, DWG NO. 1, SEQ #3662".

GEI Consultants, Inc.

PLAN PREPARED FOR
UNITED ILLUMINATING COMPANY
ENGLISH STATION
NEW HAVEN, CONNECTICUT

PLAN MAP – ROOFING
STATION B

SCALE: NTS	DRN BY:	PLATE 21
DATE: JAN 2000	99419	

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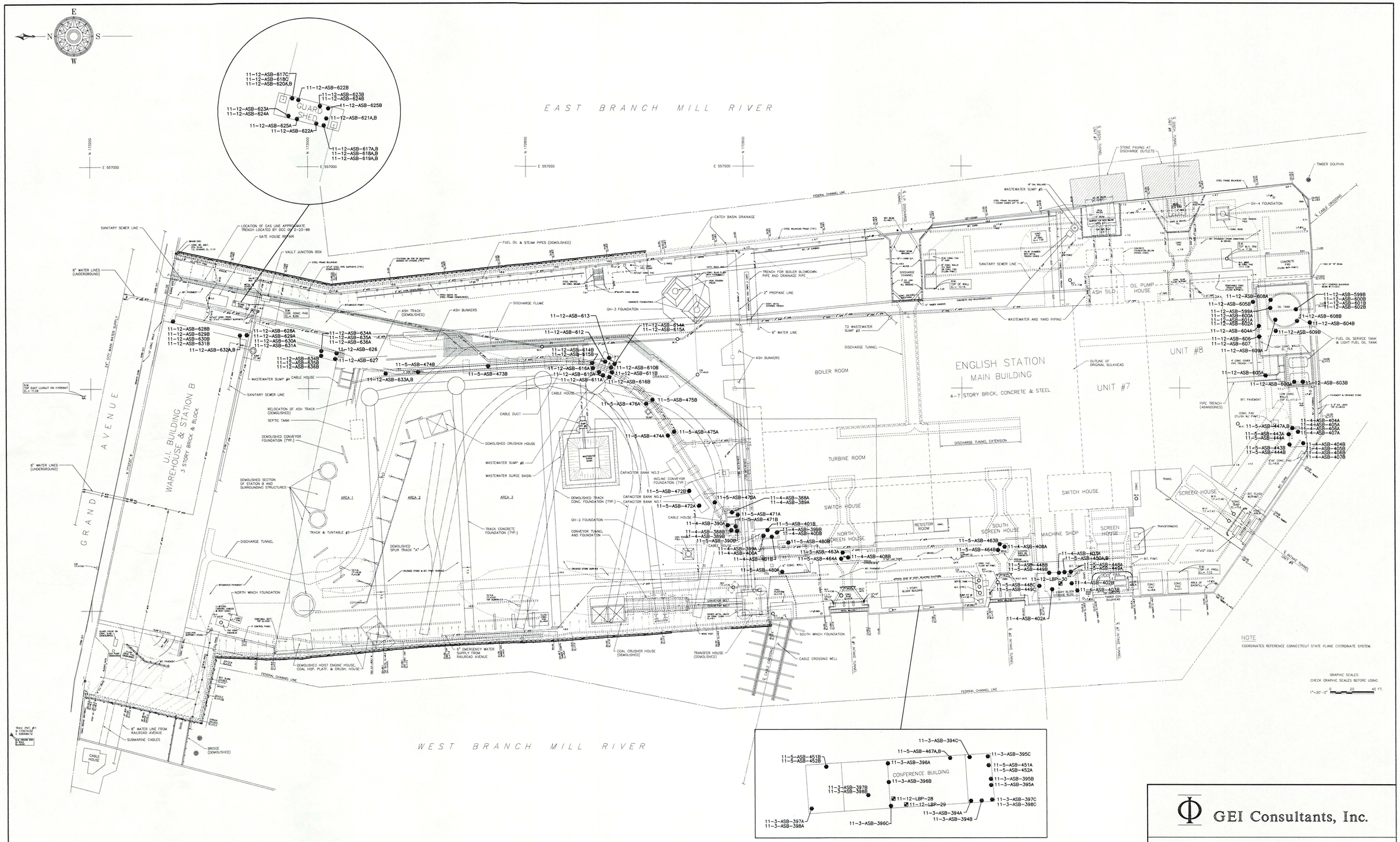

LEGEND

● 11-3-ASB-385A	ASBESTOS SAMPLE LOCATION
■ 11-9-LBP-03	LEAD BASED PAINT SAMPLE LOCATION

THIS MAP IS COMPILED FROM A PLAN TITLED: "ENGLISH STATION–NEW HAVEN, CT, SITE REMEDIATION AND BULKHEAD REPAIR, SITE HISTORICAL GENERAL PLAN, UNITED ILLUMINATING CO., OCEAN AND COASTAL CONSULTANTS, INC., DATED 2-6-98, DWG NO. 97062-HGP-1".

GEI Consultants, Inc.

PLAN PREPARED FOR
UNITED ILLUMINATING COMPANY
ENGLISH STATION
NEW HAVEN, CONNECTICUT

SECONDARY STRUCTURES

SCALE: NTS	DRN BY:	PLATE 22
DATE: JAN 2000	99419	

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APPENDIX C

2011 GEOQUEST INTERIOR PCB EQUIPMENT SURVEY RESULTS

English Station - Interior Survey of Potential PCB Containing Equipment (Aug/Sep, 2011)
Sheet No. 1

SurveyNo.	Date	Description	Approximate Location
Main Floor- (second floor of old building and new addition, also known as Turbine Room)			
A-1	8-30-11	M-G Set	Main Floor- Turbine Hall
A-2	8-30-11	M-G Set	Main Floor- Turbine Hall
A-3	8-30-11	M-G Set	Main Floor- Turbine Hall
A-4	8-30-11	M-G Set	Main Floor- Turbine Hall
A-5	8-30-11	M-G Set	Main Floor- Turbine Hall
A-6	8-30-11	M-G Set	Main Floor- Turbine Hall
Lower Level- ground floor of the English Station (old and new buildings)			
D-1-5	8-30-11	5- Drums- Liquid, "Decon Water"	Lower Level (LL)- Ground Level
D-6	8-30-11	Drum- oil	LL Inside Turbine Shell
D-7	8-30-11	Drum	LL Crushed under stair well
D-8	8-30-11	Drum no label	LL By itself
D-9	8-30-11	Drum	LL Marked Well Water
D-10	8-30-11	Drum	LL On its side
D-11-13	8-30-11	Drums	LL On their sides, near middle (side to side) of LL.
ED (1)	8-30-11	Electric Device (ED), contains electrolytic capacitor	LL At end of old building, start of new addition.
ED-2	8-30-11	Oil Circuit Breaker FK-158-150 (9 gallons oil)	LL At start of new addition (northern section, west side)
ED-3	8-30-11	Oil Circuit Breaker (same as ED-2)	LL (southern section, west side)
D-14-15	8-30-11	Translucent Plastic Drums	LL (southern section, east side) near B-13
B-19	8-30-11	Small Motor	LL (northern section, east side)
B-20	8-30-11	Motor driven pump	LL (east side) near plant northern wall

English Station - Interior Survey of Potential PCB Containing Equipment (Aug/Sep, 2011)
Sheet No. 2

SurveyNo.	Date	Description	Approximate Location
Gate Houses North and South- (also identified on some drawings as Screen Houses North and South)			
A-11	8-30-11	Motorized Pump	Gate House North
A-12	8-30-11	Motorized Pump	Gate House North
A-13	8-30-11	Large Winch	Gate House North
A-14	8-30-11	Large Winch	Gate House North
A-15	8-30-11	Large Motorized Pump	Gate House North
A-16	8-30-11	Tower Motor	Gate House North
A-17	8-30-11	Motorized Pump	Gate House South
A-18	8-30-11	Motorized Pump	Gate House South
A-19	8-30-11	Tower Motor	Gate House South
A-20	8-30-11	Tower Motor	Gate House South
A-21	8-30-11	Large Motorized Pump	Gate House South
Switch House (SH) - four and three story addition on western side of English Station, identified on drawings as "Switch House" and filled (numbers estimated to be in the hundreds) with metal cylinders, some with oil in the base (initial oil analysis indicates non-PCB), and small sealed transformer-like electric devices			
A-22	8-30-11	Motorized pump	SH upper level
A-23	8-30-11	Air Compressor Motor	SH upper level
A-24	8-30-11	Air Compressor Motor	SH upper level
A-25	8-30-11	Air Compressor Motor	SH upper level
A-26	8-30-11	Small Gearmotor	SH top level
Boiler Room - Lower Level - Old and New buildings			
D-16-49	8-31-11	34 Liquid Drums	Near north end of boiler room lower level western side
D-50	8-31-11	Liquid Drum	Slightly south of above drums

English Station - Interior Survey of Potential PCB Containing Equipment (Aug/Sep, 2011)
Sheet No. 3

SurveyNo.	Date	Description	Approximate Location
D-51	8-31-11	Ash Drum	LL, western side, south of D-50
D-52	8-31-11	Drum - Degreaser	LL, western side, south end of old building
A-27	8-31-11	Motor Generator	LL, north of workshop, western side
A-28	8-31-11	Motor for Blower	LL, workshop, western side
A-29	8-31-11	Small Gearmotor	LL, workshop, western side
A-30	8-31-11	Compressor Motor	LL At start of new addition (northern section, east side)
A-31	8-31-11	Compressor Motor	LL, northern section, eastern side
A-32	8-31-11	Compressor Motor	LL, northern section, eastern side
A-33	8-31-11	Two Gearmotors	LL, northern section, eastern side
A-34	8-31-11	Large Motor (removed from gearbox)	LL, northern section, eastern side
A-35	8-31-11	Large Motor (removed from gearbox)	LL, northern section, eastern side
A-36	8-31-11	Two Blowermotors	LL, northern section, eastern side
P-1-4	8-31-11	Four Heavy Pumps	LL, northern section, eastern side
A-37	8-31-11	Two oil-filled Bearings	LL eastern side
A-38	8-31-11	Two oil-filled Bearings	LL eastern side
A-39	8-31-11	Two oil-filled Bearings	LL eastern side
A-40	8-31-11	Bearings on Motor, oil filled	LL eastern side
A-41	8-31-11	Bearings on Motor, oil filled	LL eastern side
A-42	8-31-11	Bearings on Motor, oil filled	LL eastern side
A-43	8-31-11	Bearings on Motor, oil filled	LL eastern side
ED-2	8-31-11	2- electrical devices w/PCB sticker (non-PCB)	LL eastern side, near northern end of building

English Station - Interior Survey of Potential PCB Containing Equipment (Aug/Sep, 2011)
Sheet No. 4

DRAFT

SurveyNo.	Date	Description	Approximate Location
D-53-72	8-31-11	19 Drums	LL, Bermed area- eastern side near northern end of building
Pails	8-31-11	11 5-gallon Pails	LL, Stored with D-53-72
A-44	8-31-11	2 Vertical Motors	LL, at northern wall of building
Main Floor - Boiler Room - Old Plant (MFBR)			
C-1	9-6-11	Motor	MFBR, western side at northern wall,
C-2	9-6-11	Valve operator motor & gearbox	MFBR, western side
C-3	9-6-11	Valve operator motor & gearbox	MFBR, western side
C-4	9-6-11	Valve operator motor & gearbox	MFBR, western side
C-5	9-6-11	Circulator-pump motor	MFBR, western side
C-6	9-6-11	Circulator-pump motor	MFBR, western side
C-7	9-6-11	Valve operator motor & gearbox	MFBR, western side
C-8	9-6-11	Valve operator motor & gearbox	MFBR, western side
C-9	9-6-11	Valve operator motor & gearbox	MFBR, western side
C-10	9-6-11	Boiler Controls, one per boiler	MFBR
C-11	9-6-11	Boiler Controls, one per boiler	MFBR
C-12	9-6-11	Boiler Controls, one per boiler	MFBR
C-13	9-6-11	Boiler Controls, one per boiler	MFBR
C-14	9-6-11	Boiler Controls, one per boiler	MFBR
C-15	9-6-11	Boiler Controls, one per boiler	MFBR
C-16	9-6-11	Boiler Controls, one per boiler	MFBR
C-17	9-6-11	Boiler Controls, one per boiler	MFBR

English Station - Interior Survey of Potential PCB Containing Equipment (Aug/Sep, 2011)
Sheet No. 5

SurveyNo.	Date	Description	Approximate Location
C-18	9-6-11	Boiler Controls, one per boiler	MFBR
C-19	9-6-11	Boiler Controls, one per boiler	MFBR
C-20	9-6-11	Boiler Controls, one per boiler	MFBR
C-21	9-6-11	Boiler Controls, one per boiler	MFBR
C-22	9-6-11	Motor	MFBR, east wall, middle
Each of the 12 boilers has a series of hand operated gear box valve actuators mounted on the upper and lower levels of each end of the boiler; also, between the two rows of boilers (mounted above the boilers) is a series of valve operator motor & gearboxes similar to C-2 above (one for each of the adjacent boilers).			
Main Floor - Boiler Room - New Plant- northern section			
C-23-25	9-6-11	3- Motor-Generator Sets	MBFR, northern section
C-26	9-6-11	Motorized gearbox	MBFR, northern section
C-27	9-6-11	Motorized gearbox	MBFR, northern section
C-28	9-6-11	Pump Motor	MBFR, northern section
C-29	9-6-11	Pump Motor	MBFR, northern section
Main Floor - Boiler Room - New Plant- southern section			
C-30-32	9-6-11	3- Motor-Generator Sets	MBFR, southern section
C-33	9-6-11	Motorized Valve Actuator	MBFR, southern section
C-34	9-6-11	Motorized Valve Actuator	MBFR, southern section
C-35	9-6-11	Motorized Valve Actuator	MBFR, southern section
C-36-37	9-6-11	Motorized Gearboxes	MBFR, southern section
C-38	9-6-11	Transformer	MBFR, southern section
C-39-40	9-6-11	Pump Motor	MBFR, southern section
C-41	9-6-11	Gear Motor	MBFR, southern section

English Station - Interior Survey of Potential PCB Containing Equipment (Aug/Sep, 2011)
Sheet No. 6

SurveyNo.	Date	Description	Approximate Location
Lower Level- (ground floor of old building and new addition, also known as Turbine Room)			
B-1-3	8-30-11	Pump	LL, Turbine Hall
B-4	8-30-11	Gearmotor and pump	LL, Turbine Hall
B-5-6	8-30-11	Pump	LL, Turbine Hall
B-7	8-30-11	Gear Box	LL, new building, northern section, east
B-8	8-30-11	Pump	LL, new building, northern section, east
B-9	8-30-11	4 Gearmotors	LL, new building, northern section, east
B-10	8-30-11	Boiler Pump Unit	LL, new building, northern section, east
B-11	8-30-11	2 Motor Pump Assemblies	LL, new building, northern section, east
B-12	8-30-11	Oil Filter Tank and Pumps	LL, new building, southern section, east
B-13	8-30-11	Pressure Controller System	LL, new building, southern section, east
B-14	8-30-11	Oil Reservoir	LL, new building, southern section, east
B-15	8-30-11	2 Pump Assemblies	LL, new building, southern section, east
B-16	8-30-11	Control Box	LL, new building, southern section, east
B-17	8-30-11	Gearmotor	LL, new building, southern section, east
B-18	8-30-11	Motor	LL, new building, southern section, east
Switch House			
B-21	8-30-11	Lift	Switch House Main Level
B-22	8-30-11	Motor	Switch House Main Level
B-23	8-30-11	Motor	Switch House Main Level
B-25	8-30-11	Pump & Motor	Switch House Main Level
B-26	8-30-11	Air Handler Motor	Switch House Main Level

English Station - Interior Survey of Potential PCB Containing Equipment (Aug/Sep, 2011)
Sheet No. 7

SurveyNo.	Date	Description	Approximate Location
Lower Level (Ground Floor) Boiler Room			
B-27	8-31-11	2 Drums	LL, at Northern End of Building
B-28	8-31-11	2 Motors	LL, at Northern End of Building
B-29	8-31-11	9 Tanks	LL, at Northern End of Building
B-30	8-31-11	Pump Assembly	LL, in western half of Boiler Room
B-31	8-31-11	Pump Assembly	LL, in western half of Boiler Room
B-32	8-31-11	Bearing Pump	LL, in western half of Boiler Room
B-33	8-31-11	Pump Assembly	LL, in western half of Boiler Room
B-34	8-31-11	Boiler Feed Pump	LL, in western half of Boiler Room
B-35	8-31-11	Boiler Feed Pump	LL, in western half of Boiler Room
B-36	8-31-11	Pump Assembly	LL, in western half of Boiler Room
B-37	8-31-11	2 Pumps	LL, in western half of Boiler Room
B-38	8-31-11	Gear Boxes	LL, in western half of Boiler Room
B-39	8-31-11	Gear Boxes	LL, in western half of Boiler Room
B-40	8-31-11	4 Gearmotors	LL, in western half of Boiler Room
B-41	8-31-11	4 Pumps	LL, in western half of Boiler Room, southern end of old building
Lower Level (Ground Floor) Boiler Room, New Building, Southern Section			
B-42	8-31-11	Pump	LL, new building, southern section
B-43	8-31-11	Metal Tank	LL, new building, southern section
B-44	8-31-11	Air Handling Gear Pump	LL, new building, southern section
Xfmrs	8-31-11	3 Large Transformers, Oil Filled, in concrete berm, #5,6, & 7	LL, new building, southern section

English Station - Interior Survey of Potential PCB Containing Equipment (Aug/Sep, 2011)
Sheet No. 8

SurveyNo.	Date	Description	Approximate Location
B-45	8-31-11	Henly Press	Near eastern boiler room wall and Fuel Oil Room
B-46	8-31-11	3- Gear Motors	LL, new building, southern section
B-47	8-31-11	Many Valves mounted on walls of "Fuel Oil Room"	Fuel Oil Room
B-48	8-31-11	12 Drums (7- 30 gallon, 5- 55 gallon)	Ash Silo
Xfmrs	8-31-11	2 Large Transformers, Oil Filled, in concrete berm, #8 & 9	LL, new building, northern section
B-49	8-31-11	Metal Structure (Pump Enclosure?) with drain	LL, middle of old Boiler Room, eastern wall
New Section Level 3 through 9 (Level 10 & 11 appear to be inaccessible) consisting of two large boilers and related support equipment			
Level 3			
C-42	9-6-11	Gearmotor	Southern section
C-43	9-6-11	Gearmotor	Northern section
C-44	9-6-11	Gearmotor	Northern section
C-45	9-6-11	Pair of Gearmotor	Northern section
C-46	9-6-11	Pair of Gearmotors	Northern section
C-47	9-6-11	Motor	Northern section
C-48	9-6-11	Gearmotor	Northern section (actually on Level 5)
C-49	9-6-11	Blower Motor	Northern section (actually on Level 5)
C-50	9-6-11	Gearmotor	Southern section (actually on Level 5)
C-69	9-6-11	Pair of Gearmotors	Southern section
C-70	9-6-11	Pair of Gearmotors	Southern section
C-71	9-6-11	Pair of Pumpmotorw	Northern section
C-72	9-6-11	Compressor and Motor	Northern section

English Station - Interior Survey of Potential PCB Containing Equipment (Aug/Sep, 2011)
Sheet No. 9

SurveyNo.	Date	Description	Approximate Location
C-73	9-6-11	Hand Actuator	Southern section
C-74	9-6-11	Compressor Motor	Southern section
C-75	9-6-11	Hand Actuator	Southern section
C-76	9-6-11	Motorized Gearbox	Southern section
C-77	9-6-11	Motorized Actuator	Northern section
Level 4			
Boiler So.	9-6-11	6 Actuators on north side & 6 Actuators on south side	Southern section
Boiler No.	9-6-11	6 Actuators on north side & 5 Actuators on south side	Northern section
C-68	9-6-11	Hand operated Actuator dripping oil	Southern section
Level 5			
C-65	9-6-11	Motorized Actuator	Northern section
C-66	9-6-11	Motorized Actuator	Southern section
C-67	9-6-11	Gearmotor	Southern section
Boiler So.	9-6-11	2 Actuators on north side & 2 Actuators on south side	Southern section
Boiler No.	9-6-11	2 Actuators on north side & 2 Actuators on south side	Northern section
Level 6			
C-48	9-6-11	Gearmotor	Northern section (also entered on Level 3 above)
C-49	9-6-11	Blower Motor	Northern section (also entered on Level 3 above)
C-50	9-6-11	Gearmotor	Southern section (also entered on Level 3 above)
C-60	9-6-11	Motor	Northern section
C-61	9-6-11	Pair of Vertical Pump Motors	Northern section

English Station - Interior Survey of Potential PCB Containing Equipment (Aug/Sep, 2011)
Sheet No. 10

SurveyNo.	Date	Description	Approximate Location
C-62	9-6-11	Gearbox	Centered on northern and southern sections
C-63	9-6-11	Pair of Gearmotors	Twin Conveyors run length of old plant (access from Level 6, new bldg.)
C-64	9-6-11	Pair of Vertical Pump Motors	Southern section
Level 7			
C-52	9-6-11	Blower Motor	Northern section
C-53	9-6-11	Blower Motor	Southern section
C-54	9-6-11	Blower Motor	Southern section
C-55	9-6-11	Blower Motor	Southern section
C-56	9-6-11	Blower Motor	Southern section
C-57	9-6-11	Blower Motor	Northern section
C-58	9-6-11	Blower Motor	Northern section
C-59	9-6-11	Blower Motor	Northern section
Level 8			
Hopper No.	9-6-11	6 Small Motors at base of each hopper	Northern section
Hopper So.	9-6-11	6 Small Motors at base of each hopper	Southern section
Level 9			
C-51	9-6-11	Elevator Gearmotor	Northern section
Machine Shop & Screen House (New Section)			
Pump Motors	9-21-11	2 Pump motors with oilers	Main Floor Screen House
Vertical Motors	9-21-11	2 Large Vertical Westinghouse Motors with oil lubrication systems	Main Floor Screen House
Electrolysis	9-21-11	Electrolysis System in oil tight panel with PCBs (labeled)	Main Floor Screen House

English Station - Interior Survey of Potential PCB Containing Equipment (Aug/Sep, 2011)
Quantity Break-down by Category

Category	Description	No.
M-G Set	A motor coupled to a generator on a common base. The motor, generator, or coupling may contain oil.	13
Motor (electric)	Older, larger motors above 15 Hp were often oil lubricated. Smaller, newer motors generally have sealed bearings.	27
Gearmotor	The gearbox of a gearmotor will most often contain oil.	48
Pump-motor	The pump of a pump-motor will often have oil lubrication.	52
Winch	Winches are often built around gearboxes which may contain oil lubrication.	2
Air Compressor	Air compressors often contains oil lubrication.	8
Oil filled bearings	Some bearings are separately lubricated with oil.	14
Actuator/valve operator	These are specialized gear boxes with either a hand operated input or an electric motor input or both. May contain oil.	46
Small transformers	Small, hermetically sealed transformers, contain a heat conducting fluid. Most are located in Switch House.	Many
Red Cylinders	Red Cylinders - 8 inches diameter, 24 inches long, partially filled with oil. Most are located in Switch House. Initial analysis of oil indicates non-PCB.	Many
Boiler controls	Electro-hydraulic control panels, may contain oil.	12
Miscellaneous	Un-categorized devices, may contain oil.	7
Drums - 55 gallon		95
Drums - 30 gallon		7
Pails - 5 gallon		11

APPENDIX D

BUILDING PHOTOGRAPHS

PHOTO 1 – 2nd Floor Boiler 1-12 Area – View of Boiler Ribs

PHOTO 2 – 2nd Floor Boiler 1-12 Area – Elevated Area between Boilers

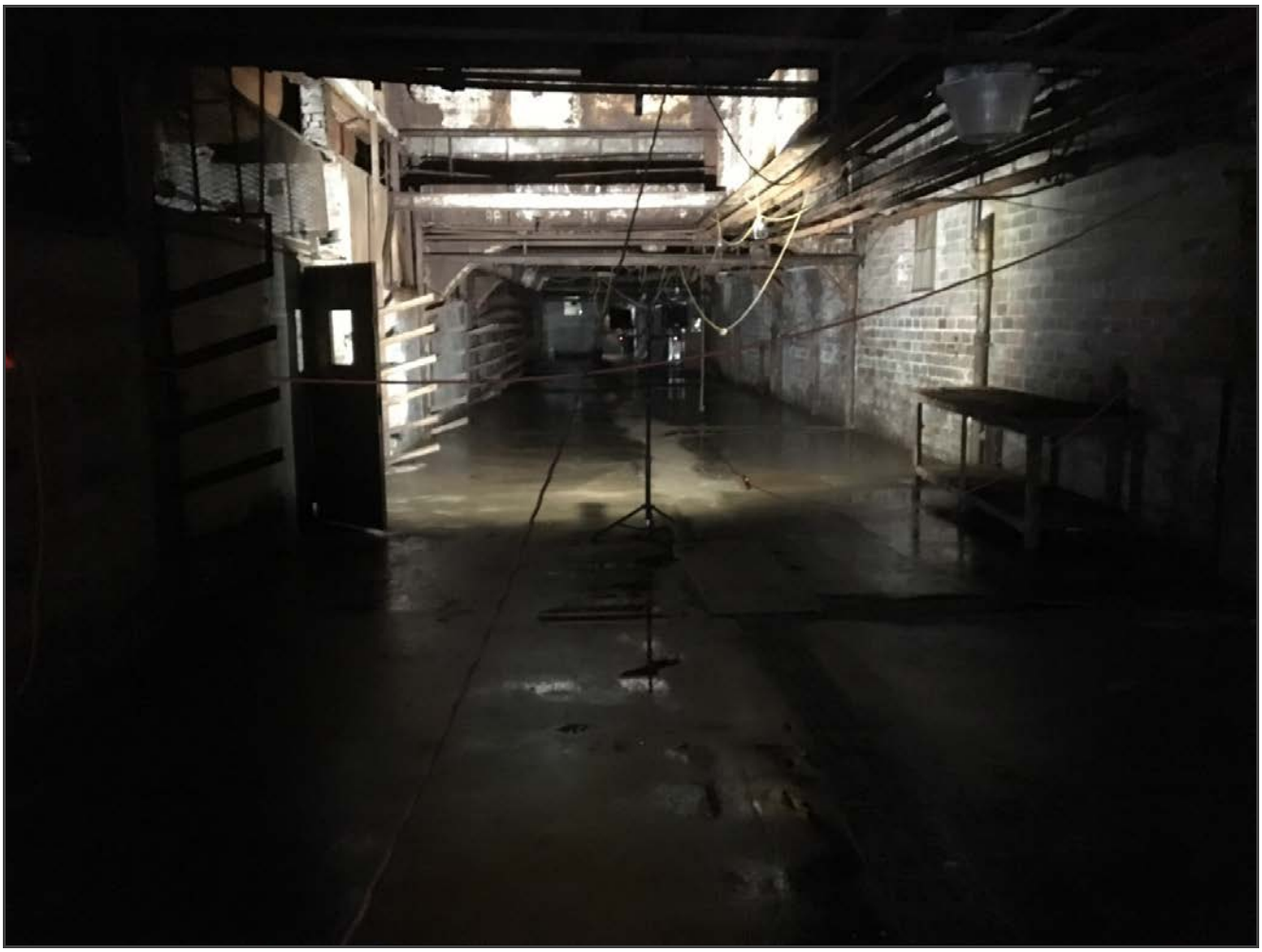

PHOTO 3 – 1st Floor NW Hall – Facing South

PHOTO 4 – Coal Conveyor Level Area – Facing North

PHOTO 5 – 1st Floor BF Pump Area – Facing South

PHOTO 6 – 2nd Floor Boiler 1-12 Area – East Side – Facing South

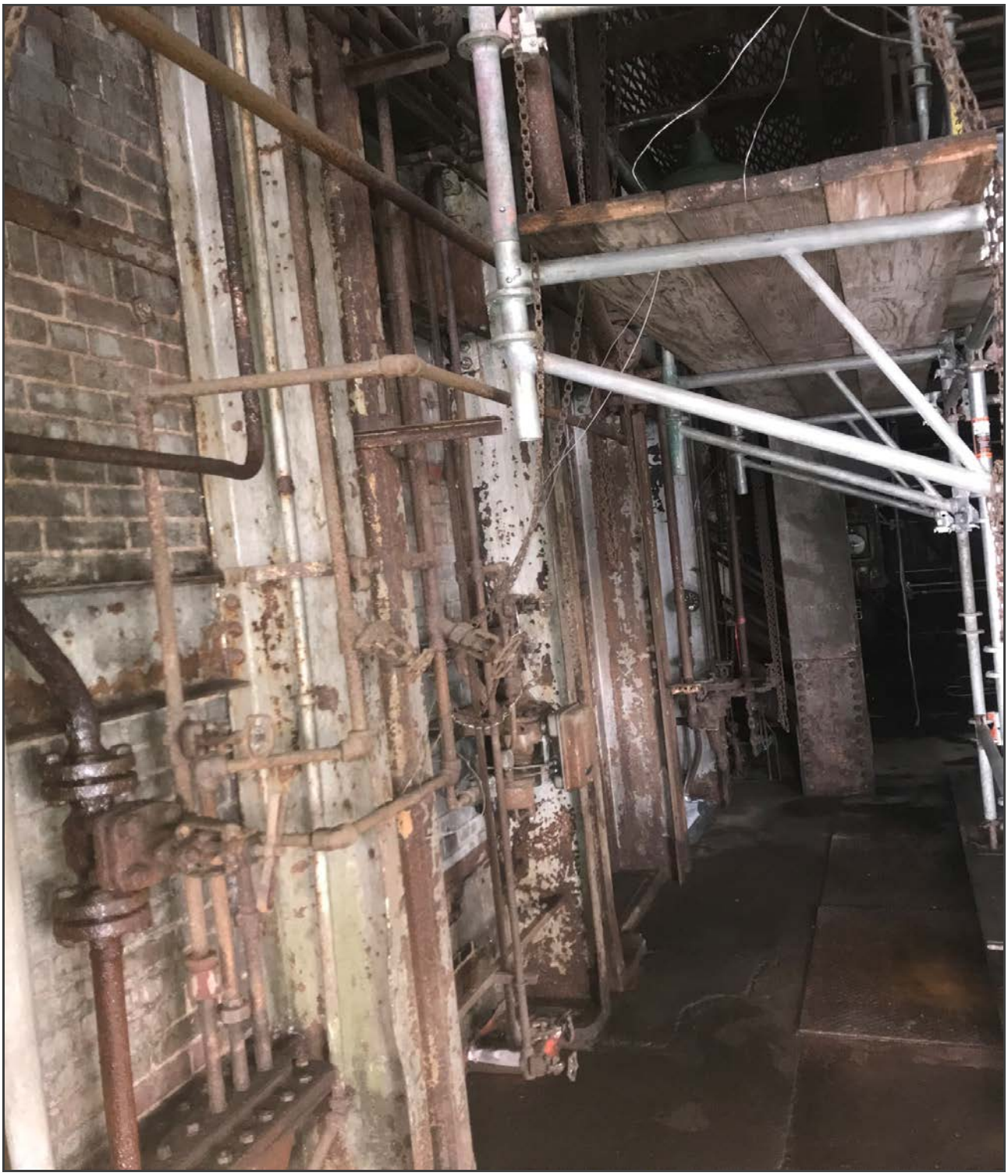

PHOTO 7 – 2nd Floor Boiler 1-12 Area – West Side – Facing South

PHOTO 8 – 2nd Floor Boiler 1-12 Area – Center Area Between Boilers – Facing South

PHOTO 9 – 1st Floor Fan Room – Facing South

PHOTO 10 – 1st Floor – Former Temporary Oil Storage Area – Facing South

PHOTO 11 – Exterior – View of South Side of Boiler 14 Area

PHOTO 12 – Exterior – View of East Side of Boiler 14 Area

PHOTO 13 – Exterior – View of East Side of Boiler 13/14 Area

PHOTO 14 – Exterior – View of North Side of Boiler 14 Precipitator

PHOTO 15 – Exterior – View of Boiler 14 Stack

PHOTO 16 – Boiler 14 Area – 3rd Floor – Base of Coal Silo

PHOTO 17 – Boiler 14 Area – 5th Floor – Metal Condensate Storage Tank on South End

PHOTO 18 – Boiler 14 Area – 6th Floor – Metal Breeching

PHOTO 19 – Boiler 14 Area – 7th Floor – Fan Motor

APPENDIX E

INSPECTION FOR HAZARDOUS BUILDING MATERIALS – BOILER 1-12 INTERIOR (AUGUST 2018)

REPORT

INSPECTION FOR HAZARDOUS BUILDING MATERIALS

ENGLISH STATION
BOILER #1-12 INTERIOR
510 GRAND AVENUE
NEW HAVEN, CONNECTICUT

Prepared for

THE UNITED ILLUMINATING COMPANY
180 Marsh Hill Road
Orange, Connecticut

Prepared by

TRC Environmental Corporation

Windsor, Connecticut

October 29, 2018

INSPECTION FOR HAZARDOUS BUILDING MATERIALS

ENGLISH STATION
BOILER #1-12 INTERIOR
510 GRAND AVENUE
NEW HAVEN, CONNECTICUT

Prepared for

THE UNITED ILLUMINATING COMPANY
180 Marsh Road
Orange, Connecticut

Prepared by
TRC
Windsor, Connecticut

TRC Project No. 263951-0000-0000

October 29, 2018

TABLE OF CONTENTS

TABLES

PHOTOS

ASBESTOS AND PCB INSPECTION FIGURES

APPENDICES

1.0 INTRODUCTION

TRC Environmental Corporation (TRC) of Windsor, Connecticut was retained by The United Illuminating Company, Inc. (UI) to conduct an inspection to identify asbestos-containing materials, polychlorinated biphenyl (PCB) constituents of construction materials, lead and mercury, and other hazardous materials from the interior of the Boiler #1-12 Area in the English Station building located at 510 Grand Avenue in the City of New Haven, Connecticut (the "Site"), as required under the Partial Consent Order COWSPCB 15-001 (PCO). This is one of several Reports for the Site that will be submitted by the Respondent per PCO Section B.1.b.

Inspections were conducted by Mr. Greg Kaczynski (CT DPH Asbestos Inspector License No. 000329) and Mr. Mark Kearney (CT DPH Asbestos Inspector License No. 000147), assisted by Mr. Carmen Jacko (CT DPH Asbestos Inspector License No. 000812), Mr. Dave Webster (CT DPH Asbestos Inspector License No. 000960), and Mr. Zachary Smith (CT DPH Asbestos Inspector License No. 000985), on various dates in February, March, May and June of 2018.

1.1 Purpose

The goal of this inspection and sampling program, defined in the PCO Section B.1.b. is as follows:

- identify, document, inventory and assess asbestos-containing materials; determine if such materials are friable, damaged, unstable and accessible or may be disturbed by other actions required by the Consent Order; and to determine how to conduct asbestos abatement in a manner that is necessary to comply with all applicable laws in connection with a plan of abatement for such materials in accordance with Section B.1.e.8. below;
- fully characterize PCB constituents of all caulk, paint, flooring, roofing, mastics, fireproofing, soundproofing, waterproofing, sealants and all other materials;
- sample PCBs consistent and in compliance with the requirements as set forth in 40 CFR Part 761 for PCBs;
- investigate the presence of lead and mercury; and

- identify non-hazardous and hazardous waste and other hazardous materials.

1.2 Description of Boiler #1-12 Area

English Station is located on the southern portion of the Site and has an approximate footprint of 100,000 square feet. English Station is constructed of brick and concrete with steel reinforcement. The northeastern portion of the Plant, which will be referred to as the "Boiler #1-12 Area", is the original boiler house of the English Station Power Plant, which housed the older, low pressure boiler units (Boilers 1-12). The *interior* of the Boiler 1-12 Area was inspected for this report.

The sections of the Boiler #1-12 Area **included** in this report are the interior of the:

- First Floor – comprised of hallways, a fan room, storage room, bathroom areas, offices, former temporary oil storage area, lube oil room, fuel oil pump room #2, BF Pump Hall & Area and the gas cylinder room. Refer to Figure 1.
- Second Floor – which contains the twelve (12) low pressure boiler units. The ceiling in this area is approximately 50 feet high and access to the upper portions is limited to stairwells on the north and south end. Metal grated walkways throughout, and around the boilers, are considered unsafe. There is also a small concrete mezzanine above the west end of this floor. Refer to Figure 2.
- Coal Conveyor Level & Upper Elevated Areas – which are located above the second floor. These areas are accessible from the stairwell on the North end of the second floor. The coal conveyor level runs the length of the Boiler 1-12 area. Other upper elevated areas (Room 1, Room 2 and West & East Coal Bunker Mechanical Rooms) are all on the north end. Refer to Figure 3.

The Sections of the Boiler 1-12 Area which are **excluded** from this report are:

- Exterior roofs
- Exterior building façade components (windows, doors, joints, etc.)

- Building materials associated with windows and doors on the interior of the building envelope (these areas were sealed with poly sheeting as critical barriers at the time of the inspection)
- Floor drains and other areas located below the surface of the first floor.

These Sections will be addressed in separate report.

Asbestos abatement activities to remove accessible, damaged asbestos-containing materials in the building were in progress at the time of this inspection. This work was being conducted as part of the Interim Measures Project. This work was completed in the Boiler 1-12 area in May 2018, and the area was abated of all asbestos containing materials that are friable, damaged, unstable, and accessible or may be disturbed by other actions required by the PCO. In addition, all loose and flaking paints, caulks and glazing materials were removed during the abatement activities.

2.0 SUMMARY OF FINDINGS

2.1 PCB Inspection

The building investigation for Building Materials with the potential to contain PCBs was performed following techniques generally employed in the Building Sciences industry to identify, locate and sample homogeneous building materials (i.e., AHERA asbestos sampling guidelines). TRC inspectors conducted visual inspections throughout Boiler 1-12 to identify suspect materials (see list below). Sampling methodology involved collecting a minimum of three grab bulk samples per homogenous material type to refute PCB presence, per 40 CFR Part 761 Subpart R protocols. Collection of all bulk material samples was accomplished using clean, dedicated nitrile gloves, tools (cleaned with hexane) and by placing the material directly into clean, laboratory-supplied sample containers. All samples were labeled with a sample identification number, the date and time of collection and the selected laboratory analyses. All samples were delivered under chain-of-custody protocol to ConTest Analytical Laboratory in East Longmeadow, Massachusetts. Bulk building material product samples were analyzed at ConTest Analytical Laboratory utilizing USEPA Method 8082 (PCB) with EPA Method 3540C (Soxhlet extraction) as required by USEPA Region 1. A total of 79 homogeneous bulk building materials were sampled and analyzed for PCBs. Of the 79 homogeneous bulk building materials (paints, glazing and caulking, floor tile and mastics) only 2 were found to contain PCB's greater than 50 mg/kg (ppm):

- Orange paint (P38) on pump valves in the Fuel Oil Pump Room on the 1st floor.
- Silver/orange paint (P5) on the structural steel column in the Fan Room on the 1st floor.

Residual oil/oil staining was noticed on and around the orange painted pump valves (P38) and at other locations within the Fuel Oil Pump Room #2. For now, this paint will be classified as **PCB *bulk product waste***; however, the characterization for liquid PCB releases (which has not been performed yet) in conjunction with the bulk building material sampling will ultimately determine the disposal characterization.

The silver/orange paint (P5) on structural steel is found throughout the first floor. Only 1 out of the original 8 - P5 samples collected was found to contain PCB's greater than 50 mg/kg (ppm) and this was sample P5F (113 ppm PCBs) collected in the Fan Room. An additional 6 bulk building material samples of the P5 paint were later collected in the Fan Room and of these samples, only a second sample (#P5J - 309 ppm PCBs) collected on the same column as P5F had PCB's greater than 50 mg/kg (ppm). Based on the two rounds of sampling of similar paints in this area, only the silver/orange paint (P5) on this column in the Fan Room will be classified as **PCB *bulk product waste.*** Future planned sampling of the Fan Room and specifically this column, will be performed to assess for possible liquid PCB releases that may have impacted various surfaces. If appropriate, the waste characterization may be modified if the source of the PCBs is from a liquid release.

Of the remaining 77 homogeneous bulk building materials (paints, glazing and caulking, floor tile and mastics) none were found to contain PCB's greater than 50 mg/kg (ppm). TSCA Regulation Section 761.3 – Definitions defines ***Excluded PCB Products*** "as PCB materials which appear at concentrations less than 50 ppm, including the products or source of products containing < 50 ppm concentration PCBs were legally manufactured, processed, distributed in commerce, or used before October 1, 1984." This means that the building materials found on the interior of the Boiler 1-12 Area to contain PCBs > 1ppm and < 50 ppm are deemed ***Excluded PCB Products*** and are exempt from TSCA Regulation.

Only those building materials defined in Section 761.3 as **PCB *bulk product waste*** are covered by the TSCA Regulation. **PCB *bulk product waste*** means waste derived from manufactured products containing PCBs in a non-liquid state, at any concentration where the concentration at the time of designation for disposal was $\geq$ 50 ppm PCBs. **PCB *bulk product waste*** includes non-liquid bulk wastes or debris from demolition of buildings and other man-made structures manufactured, coated or serviced with PCBs.

Following completion of the Interim Measure Project in Boiler 1-12, all building materials (paints, caulks, glazings, etc.) were observed to be intact/not flaking. Sample descriptions and results are

presented in Table 4; Bulk Sample Summary of Suspect PCB Containing Materials. Material locations and quantities are presented in Table 5; Identified **PCB *Bulk Product Waste*** and Table 6; Identified ***Excluded PCB Products***.

Investigative sampling for identification and characterization of liquid PCB releases within Boiler 1-12 was not performed at this time. This work will be planned and implemented under a separate Scope of Study for this area of the building.

The following is an area-by-area summary of identified PCB's in the building. PCB containing materials which are also ACM, if applicable, are noted in Table 5 & 6.

2.1.1 First Floor

The following materials were identified as ***PCB Bulk Product Waste***:

- The orange paint (P38) on pump valves in the Fuel Oil Pump Room.
- The silver/orange paint (P5) on the structural steel column (center area) in the Fan Room.

The following materials were identified as ***Excluded PCB Products:***

- The majority of wall surfaces (brick, CMU, block), structural steel (columns, beams, and trusses), concrete deck, concrete pads, metal motors, pumps and miscellaneous components were observed to be painted; all paints (with the exception of P38 and P5 - as noted above) were identified as ***Excluded PCB Products***.
- The window glazing on interior metal windows in the Storage Room, BF Pump Area and BF Pump Hall.
- The door window glazing on doors off the NW and SW Hallways.
- The floor tile/mastic in the SW Hall Office. *(Removed as part of the Interim Measures Project)*

2.1.2 Second Floor

The following materials were identified as ***Excluded PCB Products:***

- The majority of wall surfaces (brick, CMU, block), structural steel (columns, beams, and trusses), brick/metal boiler walls/panels, concrete deck, concrete pads, metal motors and miscellaneous components were observed to be painted; all paints were identified as ***Excluded PCB Products***.
- The window glazing on interior metal windows in the Restroom
- The caulking on metal tanks on the West Mezzanine.
- The floor tile/mastic in the Restroom. *(Removed as part of the Interim Measures Project).*

2.1.3 Coal Conveyor Level & Upper Elevated Areas

The following materials were identified as ***Excluded PCB Products:***

- Some wall surfaces (brick, CMU, block) and miscellaneous components and the majority of structural steel (columns, beams, and trusses) were observed to be painted; all paints were identified as ***Excluded PCB Products***.
- The window glazing on interior metal windows/doors of Room 1.

2.2 Asbestos Inspection

Connecticut licensed/EPA-trained asbestos inspectors from TRC conducted visual inspections to evaluate the conditions of previously identified asbestos containing materials (ACM) on the interior building components in accordance with USEPA Asbestos Hazard Emergency Response Act (AHERA)/National Emissions Standard for Hazardous Air Pollutants (NESHAP) protocols. Sampling and analysis of suspect materials for the possible presence of asbestos was limited to materials that were not identified in previous inspection reports. Bulk samples of suspect materials not previously identified were collected, properly transferred using chain-of-custody forms, and brought to TRC's laboratory for analysis via polarized light microscopy (PLM) with visual area estimate (vae) techniques (EPA 600/R-93/116). No newly identified ACM has been identified

(from sampling), however, TRC has made the assumptions that interior boiler insulation components (boiler insulation, rib insulation, firebrick), transite board panels associated with switchgear, electrical & circuit boxes/panels, insulation components and wiring associated with switchgear, electrical & circuit boxes/panels, gaskets in piping systems and pipe insulation in walls are ACM. All other ACM's addressed in Table 2 were identified during prior inspections. Details of the asbestos survey can be found in Tables 1-3 and in this Asbestos Inspection Summary. The Previous Inspection Report, by GEI, can be found in Appendix E.

Table 1 is a summary of Asbestos bulk samples collected by TRC. Asbestos sampling data from a Previous Inspection Report (by GEI) utilized in this report can be found in Appendix E. In Table 2, TRC provided the location, quantity, AHERA/NESHAP categories and condition of all identified ACM in the Boiler 1-12 Area Interior. Table 3 lists the locations of non-ACM's (<1%) sampled by TRC.

The following is an area-by-area summary of observations related to existing asbestos-containing materials in the building.

2.2.1 First Floor

Transite board panels, insulation components and wiring associated with switchgear, electrical & circuit boxes/ panels were observed to be intact or damaged, but non-friable. Inaccessible pipe insulation is assumed to be in the walls of the Bathroom Area and the SW Hall Bathroom. Assumed pipe gaskets are considered to be intact.

2.2.2 Second Floor

Inaccessible suspect ACM (gasket & rope material on boiler doors, hatches and panels, boiler insulation, boiler brick insulation, boiler rib insulation, canvas pipe/hose wrap insulation & boiler pipe filler) are assumed on the interior of the Boilers. Transite board panels, insulation components and wiring associated with switchgear, electrical & circuit boxes/ panels were observed to be intact or damaged, but non-friable. Inaccessible pipe insulation is assumed to be in the walls of the

Lavatory and Restroom Areas. Assumed pipe gaskets are considered to be intact.

2.2.3 Coal Conveyor Level & Upper Elevated Areas

Transite board panels, insulation components and wiring associated with switchgear, electrical & circuit boxes/ panels were observed to be intact or damaged, but non-friable. Assumed pipe gaskets are considered to be intact.

2.3 Lead/Miscellaneous

TRC performed a Lead Containing Paint inspection of the Boiler 1-12 Area Interior using EPA-trained and State of Connecticut-licensed lead inspectors. The method used for the Lead Containing Paint inspection was an X-Ray Fluorescence (XRF) utilizing an on-site Niton spectrum analyzer. The XRF detector is a portable unit designed to make fast, accurate, non-destructive measurements of lead concentrations in dry painted surfaces with a detection limit down to 0.1 mg/cm^2. Representative measurements of the painted building components were conducted throughout the subject building areas to determine the general presence of any detectable levels of lead paint. Loose and flaking paints were removed as part of the Interim Measure Project and were made intact throughout the area. Detailed results of the lead containing paint screening can be found in Table 8.

A visual inspection of the Boiler 1-12 Area Interior was performed to identify and quantify any suspect PCB-containing transformers, fluorescent light ballasts, suspect mercury-containing fluorescent light lamps or thermostat switches. Any additional hazardous/regulated items identified were also inventoried, and includes: chlorofluorocarbon (CFC)-containing devices, universal waste, used electronics, batteries, on-site oils, drums, chemicals, storage tanks, staining, biological hazards, tires, etc. Hazardous materials identified at the site by the inspectors were reviewed by a Certified Hazardous Materials Manager (CHMM) to determine and classify the potential hazards of each material identified and the handling/disposal methods that are required.

2.3.1 First Floor

Low levels (<1.0 mg/cm^2) of lead paint were identified on metal pipes, metal tanks, brick, CMU & block walls, metal motor components, concrete pads and metal door components in the First Floor. Higher levels (>1.0 mg/cm^2) of lead paint were identified on metal structural steel (columns, beams, etc.), metal door/window components, metal fan/motor components, brick walls in the First Floor. Detailed results of the lead containing paint screening can be found in Table 8.

A variety of other potentially hazardous/regulated materials, wastes or items were visually identified by TRC in this area as well. Refer to Table 7 for a complete list of these items, locations and potential hazards.

2.3.2 Second Floor

Low levels (<1.0 mg/cm^2) of lead paint were identified on metal breeching, miscellaneous structural steel components, metal pipes, metal stairs, brick & block walls, brick & metal boiler components and metal door/window components in the Second Floor. Higher levels (>1.0 mg/cm^2) of lead paint were identified on metal structural steel (columns, beams, etc.), metal stairs components, metal ducts, metal boiler plates, concrete walls/ceilings and brick walls in the Second Floor. Detailed results of the lead containing paint screening can be found in Table 8.

A variety of other potentially hazardous/regulated materials, wastes or items were visually identified by TRC in this area as well. Refer to Table 7 for a complete list of these items, locations and potential hazards.

2.3.3 Coal Conveyor & Upper Elevated Areas

Low levels (<1.0 mg/cm^2) of lead paint were identified on brick walls and metal piping, duct and railing in the Coal Conveyor & Upper Elevated Areas. Higher levels (>1.0 mg/cm^2) of lead paint were identified on metal windows, doors and structural steel (columns, beams, etc.) in the Coal Conveyor & Upper Elevated Areas. Detailed results of the lead containing paint screening can be found in Table 8.

A variety of other potentially hazardous/regulated materials, wastes or items were visually identified by TRC in this area as well. Refer to Table 7 for a complete list of these items, locations and potential hazards.

3.0 CONCLUSIONS

In line with the requirements of the Partial Consent Order (PCO), TRC provides the following conclusions based upon review of previous reports, visual inspection, assessment, and review of laboratory data from samples collected by TRC in the Boiler 1-12 Area Interior.

3.1 PCBs

TRC conducted inspection and sampling to fully characterize PCB constituents of all paints, glazing and caulking, floor tile, mastics and all other suspect materials from the Boiler 1-12 Area Interior in order to comply with the requirements of the PCO. Identification and characterization of liquid PCB releases within Boiler 1-12, as stated at the end of Section 1 of this Report, is not included in these Conclusions.

Two building materials were identified as ***PCB Bulk Product Waste***:

- Orange paint (P38) on pump valves in the Fuel Oil Pump Room on the 1st floor.
- Silver/orange paint (P5) on the structural steel column in the Fan Room on the 1st floor.

Both materials were identified to contain PCB's greater than 50 mg/kg (ppm) (Refer to Tables 4 & 5). As the liquid PCB release identification and characterization has not been performed yet, the ultimate characterization of these building materials will be determined once the characterization of liquid PCB releases is complete.

Of the remaining 77 homogeneous bulk building materials (paints, glazing and caulking, floor tile and mastics) sampled, none were found to contain PCB's greater than 50 mg/kg (ppm). The remaining building materials in Tables 4 and 6 of this report would be identified as ***Excluded PCB Products.***

3.2 Asbestos

TRC conducted a thorough inspection to identify, document, inventory and assess asbestos-containing materials in the Boiler 1-12 Area Interior in order to comply with the requirements of the PCO.

TRC did not identify any asbestos-containing materials which required a response action per Section B.1.e.8. of the PCO which indicates that the Respondent (UI) "shall only be required to abate asbestos that is friable, damaged, unstable, and accessible or may be disturbed by other actions required by this Consent Order, and to determine how to conduct asbestos abatement in a manner that is necessary to comply with all applicable laws." All ACM which may have required abatement was addressed during the Interim Measures Project (which was completed in the Boiler 1-12 Area Interior in May 2018). All remaining ACM is either intact, inaccessible or damaged, but non-friable.

In the event that the building owner renovates the building, they will be subject to State of Connecticut and EPA requirements to address those building materials identified/assumed as ACM.

3.3 Lead/Miscellaneous

TRC performed a Lead Containing Paint Inspection utilizing an XRF device, as well as a visual inspection to identify and quantify any additional hazardous/regulated items.

As described in Section 2.3 and detailed in Tables 7 and 8, a variety of lead paint and other miscellaneous hazardous/non-hazardous items and materials were identified at the site. It is worth noting that as a result of the Interim measures Project all of the loose and flaking paints were removed and the surfaces made intact prior to completion. As the extent of the PCO was to identify these items no further remedial actions for these items are required. In the event that the building owner renovates the building for occupancy, they may be subject to other State of Connecticut

requirements to address those paints identified as lead containing.

In addition the disposal materials containing lead based paints and other miscellaneous hazardous/non-hazardous items are subject to USEPA regulation under RCRA and may be subject to other state regulation and disposal facility permit requirements for management of these materials.

TABLES

TABLE 1
BULK SAMPLE SUMMARY OF SUSPECT ASBESTOS CONTAINING MATERIALS
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Sample No.	Sample Location	Homogeneous Material	% and Type Asbestos
6/26/18 - Bulk Sampling Data			
1	Second floor – West mezzanine	C1 – Caulk at seam of tanks	ND
2	Second floor – West mezzanine	C1 – Caulk at seam of tanks	ND
3	1st floor - SW hall	DWG1 – Light gray hard door window glaze	ND
4	1st floor - SW hall	DWG1 – Light gray hard door window glaze	ND
5	First floor – storage room	WG1 – Hard glaze and interior window	ND
6	First floor – storage room	WG1 – Hard glaze and interior window	ND
7	First floor – BF pump area center area	WG2 – Window glaze on interior metal frame windows	ND
8	First floor – BF pump area center area	WG2 – Window glaze on interior metal frame windows	ND
9	Second floor – restroom	WG3 – Interior glazing on interior metal frame windows (Note: One sample previously taken by GEI)	ND
10	First floor – BF pump area north end	WG5 – Tan/cream Window glaze on interior metal window	ND
11	First floor – BF pump area north end	WG5 – Tan/cream Window glaze on interior metal window	ND
12	Coal conveyor level – North	WG6 – Hard tan window glaze on interior window	ND
13	Coal conveyor level – North	WG6 – Hard tan window glaze on interior window	ND
7/27/18 - Bulk Sampling Data			
01	2nd floor – Boiler 1-12 Area – North End	Terracotta block	ND
02	2nd floor – Boiler 1-12 Area – North End	Terracotta block	ND
03	2nd floor – Boiler 1-12 Area – North End	Terracotta block	ND

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 NOB material; result confirmed by TEM analyses
* Quantified by PLM Point Counting techniques

TABLE 2
INVENTORY AND CLASSIFICATIONS OF ASBESTOS CONTAINING MATERIALS (>1%)
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

ACBM	Sampled-Assumed (mo/yr)	Location	AHERA Category	NESHAP Category	Damage Assessment Category	Estimated Quantity
Gasket & rope material on boiler doors, hatches and panels	Sampled 12/99 (GEI)	2nd floor – Boilers 1-12	TSI	Friable	Inaccessible	Unknown
Interior boiler rib insulation	Assumed 02/18	2nd floor – Boilers 1-12	TSI	Friable	Inaccessible	Unknown
Interior boiler firebrick insulation	Assumed 02/18	2nd floor – Boilers 1-12	TSI	Friable	Inaccessible	Unknown
Interior boiler insulation	Assumed 02/18	2nd floor – Boilers 1-12	TSI	Friable	Inaccessible	Unknown

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
Damage Assessment Category: Indicates if identified ACM is friable, damaged, unstable and accessible OR may be disturbed by other actions required by Consent Order.
Previous Environmental Reports (GEI) referenced in this table can be found in Appendix E.
♦ Excluded PCB Product (> 1 ppm) or inseparable to adjacent Excluded PCB Product.

TABLE 2
INVENTORY AND CLASSIFICATIONS OF ASBESTOS CONTAINING MATERIALS (>1%)
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

ACBM	Sampled-Assumed (mo/yr)	Location	AHERA Category	NESHAP Category	Damage Assessment Category	Estimated Quantity
Canvas pipe/hose wrap insulation	Sampled 12/99 (GEI)	2nd floor – Boilers 1-12 (firing mechanism – boiler panel side)	TSI	Friable	Inaccessible	Unknown
Boiler Pipe Filler	Sampled 12/99 (GEI)	2nd floor – Boilers 1-12 (presumed to be in interior of boilers)	TSI	Friable	Inaccessible	Unknown
Transite board panels associated with switchgear, electrical & circuit boxes/panels	Assumed 02/18	Throughout	Miscellaneous	Category II Non-friable	Intact or Damaged/Non-friable	Unknown
Insulation components & wiring associated with switchgear, electrical & circuit boxes/panels	Assumed 02/18	Throughout	Miscellaneous	Category II Non-friable	Intact or Damaged/Non-friable	Unknown

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
Damage Assessment Category: Indicates if identified ACM is friable, damaged, unstable and accessible OR may be disturbed by other actions required by Consent Order.
Previous Environmental Reports (GEI) referenced in this table can be found in Appendix E.
♦ Excluded PCB Product (> 1 ppm) or inseparable to adjacent Excluded PCB Product.

TABLE 2
INVENTORY AND CLASSIFICATIONS OF ASBESTOS CONTAINING MATERIALS (>1%)
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

ACBM	Sampled-Assumed (mo/yr)	Location	AHERA Category	NESHAP Category	Damage Assessment Category	Estimated Quantity
Pipe insulation in walls	Assumed 02/18	1st floor – bathroom area, SW hall-bathroom 2nd floor – Restroom, Lavatory	TSI	Friable	Inaccessible	200 LF
Pipe gaskets	Assumed 02/18	Throughout building	Miscellaneous	Category II non-friable	Intact	Unknown

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
Damage Assessment Category: Indicates if identified ACM is friable, damaged, unstable and accessible OR may be disturbed by other actions required by Consent Order.
Previous Environmental Reports (GEI) referenced in this table can be found in Appendix E.
♦ Excluded PCB Product (> 1 ppm) or inseparable to adjacent Excluded PCB Product.

TABLE 3
CONFIRMED NON-ASBESTOS CONTAINING MATERIALS
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Material	General Location
C1 – Caulk at seam of tanks	Second floor – West mezzanine on tank seams/joints
DWG1 – Light gray hard door window glaze♦	First Floor – SW hall & NW Hall
WG1 – Hard glaze and interior window♦	First floor – storage room (east wall)
WG2 – Window glaze on interior metal frame windows♦	First floor – BF pump area center area
WG3 – Interior glazing on interior metal frame windows	Second floor – restroom
WG5 – Tan/cream Window glaze on interior metal window	First floor – BF pump area north end
WG6 – Hard tan window glaze on interior window	Coal conveyor level – North
Terracotta block	Second floor – North End

♦ Excluded PCB Product (> 1 ppm) or inseparable to adjacent Excluded PCB Product.

TABLE 4
BULK SAMPLE SUMMARY OF SUSPECT PCB CONTAINING MATERIALS
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Sample No.	Sample Date	Homogenous Material Type	Sample Location	Total PCB (ppm)	EPA Regulated (Yes / No)
FT1A	2/21/18	FT1 – 9”x9” green floor tile♦	1st floor – SW Hall Office	2.7	No
FT1B	2/21/18		1st floor – SW Hall Office	6.54	
FTM1A	2/21/18	FTM1 – black mastic associated with 9”x9” green floor tile♦	1st floor – SW Hall Office	6.93	No
FTM1B	2/21/18		1st floor – SW Hall Office	5.5	
FT2A	2/28/18	FT2 – 12”x12” floor tile♦	2nd floor – Restroom	ND<0.092	No
FT2B	2/28/18		2nd floor – Restroom	0.44	
FT2C	2/28/18		2nd floor – Restroom	0.16	
FTM2A	2/28/18	Mastic associated with 12”x12” floor tile (FT2) ♦	2nd floor – Restroom	10.9	No
FTM2B	2/28/18		2nd floor – Restroom	1.06	
FTM2C	2/28/18		2nd floor – Restroom	2.16	
P1A	2/16/18	P1 – silver/green paint on lower wall (0-6’)	1st floor – NW Hall North	6.4	No
P1B	2/16/18		1st floor – NW Hall Center	5.4	
P1C	2/16/18		1st floor – NW Hall South	6.85	
P2A	2/16/18	P2 – silver paint on wall, (brick, CMU)	1st floor – NW Hall North	3.19	No
P2B	2/16/18		1st floor – NW Hall Center	4.8	
P2C	2/16/18		1st floor – NW Hall South	8.8	
P2D	2/16/18		1st floor – NE Hall North	3.74	
P3A	2/19/18	P3 – silver/grey paint on concrete ceiling & metal ceiling (under boilers)	1st floor – NW Hall South	2.87	No
P3B	2/19/18		1st floor – NW Hall North	3.04	
P3C	2/19/18		1st floor – NW Hall Center	1.79	
P5A	2/16/18	P5 – silver/orange structural steel components (throughout upper portions & columns)	1st floor – NW Hall Center	7	No
P5B	2/16/18		1st floor – NW Hall South	10.9	
P5C	2/16/18		1st floor – NE Hall South	5.14	
P5D	2/16/18		1st floor - Bathroom	3.78	
P5E	2/19/18		1st floor – NE Hall South	8.1	
P5F	2/21/18		1st floor – Fan Room	**113**	**Yes**

♦ Asbestos containing material (ACM) (>1%) or inseparable from an adjacent ACM

TABLE 4
BULK SAMPLE SUMMARY OF SUSPECT PCB CONTAINING MATERIALS
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Sample No.	Sample Date	Homogenous Material Type	Sample Location	Total PCB (ppm)	EPA Regulated (Yes / No)
P5G/P33	2/26/18	P5 – silver/orange structural (throughout upper portions & columns) P33 – white paint upper walls & entire South wall	1st floor – Fuel Oil Pump Room #2	4	No
P5H	2/26/18	P5 – silver/orange paint on structural steel (throughout upper portions & columns)	1st floor – Storage Room	4.3	No
P5I	3/28/18		1st floor Fan Room – West wall	10.76	
P5J	3/28/18		1st floor Fan Room – West wall	**309**	**Yes**
P5K	3/28/18		1st floor Fan Room – East wall	6.42	No
P5L	3/28/18		1st floor Fan Room – East wall	12.7	
P5M	3/28/18		1st floor Fan Room – West wall	7.09	
P5N	3/28/18		1st floor Fan Room – East wall	8.8	
P21D	3/28/18	P21 – yellow paint on brick walls (sampled adjacent to columns)	1st floor Fan Room – West wall	7.6	No
P21E	3/28/18		1st floor Fan Room – East wall	8.7	
P21F	3/28/18		1st floor Fan Room – East wall	0.76	
01A	3/28/18	Oil stain on overhead pipe	1st floor Fan Room – East wall	13.2	No
P6A	2/16/18	P6 – silver/green metal door & window framing (metal)	1st floor – NW Hall North	8.9	No
P6B	2/26/18		1st floor – SW Hall S door	4	
P6C	2/26/18		1st floor – BF Pump Hall S	25.1	
P7A	2/16/18	P7 – silver/green/black paint on pipes	1st floor – NW Hall Center	3.92	No
P7B	2/26/18		1st floor – Storage Room	1.56	
P7C	2/26/18		1st floor – Fuel Oil Pump Room #2	5.6	
P8A	2/16/18	P8 – brownish grey paint on large vertical duct (rusty – minimal paint)	1st floor – N Hall East	6.4	No
P8B	2/16/18		1st floor – N Hall East	6.8	
P9A	2/16/18	P9 – black paint on lower walls	1st floor – N Hall Center	9.4	No
P9B	2/16/18		1st floor – N Hall Center	7.8	

♦ Asbestos containing material (ACM) (>1%) or inseparable from an adjacent ACM

TABLE 4
BULK SAMPLE SUMMARY OF SUSPECT PCB CONTAINING MATERIALS
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Sample No.	Sample Date	Homogenous Material Type	Sample Location	Total PCB (ppm)	EPA Regulated (Yes / No)
P10A	2/19/18	P10 – grey/silver paint on large horizontal duct (10'x4')	1st floor – Temp Oil Storage Area	6	No
P10B	2/19/18		1st floor – Fan room	6.32	
P10C	2/19/18		1st floor – Fan room	6.1	
P11A	2/16/18	P11 – black paint on metal stairs	1st floor – N Hall	5.03	No
P11B	2/26/18		1st floor – stairs S of FOPR #2	10.6	
P11C	2/26/18		1st floor – stairs S of FOPR #2	6.9	
P12A	2/16/18	P12 – dark green paint on lower wall (0'-6')	1st floor – NE Hall North	6.7	No
P12B	2/16/18		1st floor – NE Hall Center	4.55	
P12C	2/16/18		1st floor – NE Hall South	5.92	
P13A	2/16/18	P13 – dark green paint on wood door frame	1st floor – NE Hall	9	No
P13B	2/26/18		1st floor – BF Pump Hall window W	4.3	
P14A	2/16/18	P14 – green paint on lower wall (0-6.5')	1st floor – Bathroom Area North	4	No
P14B	2/16/18		1st floor – Bathroom Area Center	3.7	
P14C	2/16/18		1st floor – Bathroom Area South	7.9	
P15A	2/16/18	P15 – white paint on upper wall (6.5'- ceiling)	1st floor – Bathroom Area	1.29	No
P15B	2/16/18		1st floor – Bathroom Area	1.11	
P15C	2/16/18		1st floor – Bathroom Area	2.02	
P16A	2/19/18	P16 – light green/white paint on ceilings of bath areas & upper wall of south bath (6.5'-20')	1st floor – Bathroom Area ceiling	2.8	No
P16B	2/19/18		1st floor – Bathroom Area ceiling	2.6	
P16C	2/19/18		1st floor – Bathroom Area ceiling	3.1	
P17A	2/16/18	P17 – red paint on fire hose wall box & connector pipe	1st floor – Bathroom Area	31	No
P17B	2/26/18		1st floor – stairs S of FOPR #2	20.9	
P17C	2/26/18		1st floor – stairs S of FOPR #2	7.8	
P18A	2/19/18	P18 – silver paint on pipes	1st floor – NW Hall	8.81	No
P19A	2/19/18	P19 – green paint on metal pipes	1st floor – Bath	3.68	No
P19B	2/26/18		1st floor – BF Pump Area N	21.7	

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TABLE 4
BULK SAMPLE SUMMARY OF SUSPECT PCB CONTAINING MATERIALS
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Sample No.	Sample Date	Homogenous Material Type	Sample Location	Total PCB (ppm)	EPA Regulated (Yes / No)
P20A	2/21/18	P20 – silver paint on walls	1st floor – Temp Oil Storage Area West	3.47	No
P20B	2/21/18		1st floor – Temp Oil Storage Area North	2.97	
P20C	2/21/18		1st floor – Temp Oil Storage Area East	3.64	
P21A	2/21/18	P21 – yellow paint on brick walls	1st floor – Fan Room NE	7.2	No
P21B	2/21/18		1st floor – Fan Room East	5.86	
P21C	2/21/18		1st floor – Fan Room West	3.87	
P22A	2/21/18	P22 – orange paint on metal fan motors & fan ducts	1st floor – Fan Room fan motor	6.4	No
P22B	2/21/18		1st floor – Fan Room fan motor	8.4	
P22C	2/21/18		1st floor – Fan Room fan duct	4.55	
P23A	2/21/18	P23 – black paint on concrete fan motor pads	1st floor – Fan Room N fan pad	8.77	No
P23B	2/21/18		1st floor – Fan Room A-4 fan pad	32.5	
P23C	2/21/18		1st floor – Fan Room A-39 fan pad	6.5	
P25A	2/21/18	P25 – dark green paint lower wall (CMU, brick)	1st floor – S Fan Room lower E wall	2.81	No
P25B	2/21/18		1st floor – SW Hall E wall	5.18	
P25C	2/21/18		1st floor – SW Hall partition hall	8.45	
P26A	2/21/18	P26 – light green paint upper wall (CMU, brick)	1st floor – S Fan Room S wall upper	6.59	No
P26B	2/21/18		1st floor – SW Hall NE corner	8.82	
P26C	2/21/18		1st floor – SW Hall S wall	6.02	
P27A	2/19/18	P27 – white structural steel	1st floor – SW Hall	1.67	No
P27B	2/19/18		1st floor – SW Hall	3.5	
P27C	2/19/18		1st floor – SW Hall	1.64	
P28A	2/19/18	P28 – white paint on concrete ceiling	1st floor – SW Hall N	5.05	No
P28B	2/19/18		1st floor – SW Hall S	4.99	
P29A	2/21/18	P29 – dark blue lower wall	1st floor – SW Hall Office area East	10.13	No
P29B	2/21/18		1st floor – SW Hall Office area South	9.49	
P29C	2/21/18		1st floor – SW Hall Office area West	5.14	

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TABLE 4
BULK SAMPLE SUMMARY OF SUSPECT PCB CONTAINING MATERIALS
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Sample No.	Sample Date	Homogenous Material Type	Sample Location	Total PCB (ppm)	EPA Regulated (Yes / No)
P30A	2/21/18	P30 – light blue upper wall & ceiling	1st floor – SW Hall Office area East	6.2	No
P30B	2/21/18		1st floor – SW Hall Office area North	4.4	
P30C	2/21/18		1st floor – SW Hall Office area South	11.4	
P31A	2/26/18	P31 – green paint on metal door/window frames	1st floor – SW Hall office door frame	10	No
P31B	2/26/18		1st floor – SW Hall office door frame	10.1	
P32A	2/26/18	P32 – green/red paint on wooden cabinet	1st floor – SW Hall cabinet	12.8	No
P32B	2/26/18		1st floor – SW Hall cabinet	13.2	
P33A	2/19/18	P33 – white paint on upper walls & entire south wall	1st floor – storage room	3.9	No
P33B	2/19/18		1st floor – storage room	7.6	
P33C	2/19/18		1st floor – FOPR #2	ND<0.43	
P34A	2/19/18	P34 –gray paint on lower walls/ ceiling	1st floor – FOPR #2	13.14	No
P34B	2/19/18		1st floor – gas cylinder room	24.6	
P34C	2/19/18		1st floor – gas cylinder room	13.41	
P35A	2/19/18	P35 –white paint on upper wall	1st floor – gas cylinder room	12.37	No
P35B	2/19/18		1st floor – gas cylinder room	14.99	
P35C	2/19/18		1st floor – FOPR #2	1.56	
P36A	2/26/18	P36 – red paint on metal doors & frames	1st floor – Gas Cylinder Room	30	No
P36B	2/26/18		1st floor – Gas Cylinder Room	39	
P38A	2/26/18	P38 – orange paint on pump valves	1st floor – Fuel Oil Pump Room #2	**54.5**	**Yes**
P38B	2/26/18		1st floor – Fuel Oil Pump Room #2	13.3	
P39A	2/26/18	P39 – gray paint on concrete pump pads	1st floor – Fuel Oil Pump Room #2	16.8	No
P39B	2/26/18		1st floor – Fuel Oil Pump Room #2	16.6	
P39C	2/26/18		1st floor – Fuel Oil Pump Room #2	18.2	

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TABLE 4
BULK SAMPLE SUMMARY OF SUSPECT PCB CONTAINING MATERIALS
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Sample No.	Sample Date	Homogenous Material Type	Sample Location	Total PCB (ppm)	EPA Regulated (Yes / No)
P40A	2/26/18	P40 – red paint on heat exchange pipes	1st floor – Fuel Oil Pump Room #2	2.56	No
P40B	2/26/18		1st floor – Fuel Oil Pump Room #2	1.25	
P40C	2/26/18		1st floor – Fuel Oil Pump Room #2	0.46	
P41A	2/26/18	P41 – peach/gray paint on metal fuel pumps	1st floor – Fuel Oil Pump Room #2	7.6	No
P41B	2/26/18		1st floor – Fuel Oil Pump Room #2	5.6	
P42A	2/26/18	P42 – yellow paint on valves	1st floor – Fuel Oil Pump Room #2	5.9	No
P42B	2/26/18		1st floor – Fuel Oil Pump Room #2	7.9	
P43A	2/26/18	P43 – white paint upper wall (block)	1st floor – BF Pump Area E	10.84	No
P43B	2/26/18		1st floor – BF Pump Area above door	10.04	
P43C	2/26/18		1st floor – BF Pump Area N	6.17	
P44A	2/26/18	P44 – gray paint lower wall (block)	1st floor – BF Pump Area N	7.88	No
P44B	2/26/18		1st floor – BF Pump Area E-wall	10.19	
P44C	2/26/18		1st floor – BF Pump Room E CTR	6.36	
P45A	2/26/18	P45 – gray paint on concrete pump pads	1st floor – BF Pump Area CTR	4.37	No
P45B	2/26/18		1st floor – BF Pump Hall S	22.1	
P45C	2/26/18		1st floor – BF Pump Hall	10.39	
P46A	2/26/18	P46 – black paint on metal BF pump supports	1st floor – BF Pump Area S	1.94	No
P46B	2/26/18		1st floor – BF Pump Area CTR	6.1	
P46C	2/26/18		1st floor – BF Pump Area W	6.88	
P47A	2/26/18	P47 – orange paint on air compressor	1st floor – BF Pump Area	10	No
P47B	2/26/18		1st floor – BF Pump Area	8.4	
P47C	2/26/18		1st floor – BF pump area N	5.49	

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TABLE 4
BULK SAMPLE SUMMARY OF SUSPECT PCB CONTAINING MATERIALS
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Sample No.	Sample Date	Homogenous Material Type	Sample Location	Total PCB (ppm)	EPA Regulated (Yes / No)
P48A	2/28/18	P48 – orange paint on metal tank	1st floor – Lube Oil Room (Tank SE)	1.39	No
P48B	2/28/18		1st floor – Lube Oil Room (Tank NE)	2.32	
P49A	2/28/18	P49 paint on metal lube oil containers	1st floor – Lube Oil Room (Tank NE)	3.29	No
P49B	2/28/18		1st floor – Lube Oil Room (Tank W)	7.42	
P49C	2/28/18		1st floor – Lube Oil Room (Tank W)	11.13	
P50A	2/26/18	P50 – gray paint on 18" diameter pipe & tank	1st floor – BF Pump area C	ND<0.50	No
P50B	2/26/18		1st floor – BF Pump area C-E	ND<0.49	
P51A	2/26/18	P51 – silver paint on upper block walls & brick at boilers	2nd floor –North wall NW	1.42	No
P51B	2/26/18		2nd floor – West wall CTR	3.6	
P51C	2/26/18		2nd floor – South wall	1.66	
P51D	2/28/18		2nd floor – Boiler 11	1.0	
P51E	3/1/18		2nd floor – Boiler 7	ND<0.44	
P51F	3/1/18		North boiler mezzanine	ND<0.43	
P51G	3/1/18		Boiler 4 Mezzanine	ND<0.42	
P51H	3/1/18		Boiler Room staging – east wall	0.59	
P51I	3/1/18		Boiler staging – Boiler 3	ND<0.44	
P52A	2/28/18	P52 – black paint on pipes & valve wheels	2nd floor – West Seg valve 11	4.1	No
P52B	2/28/18		2nd floor – Gen valve #2	9.3	
P52C	2/28/18		2nd floor – Seg valve 9	10.61	
P53A	2/28/18	P53 – silver paint on structured beams, columns, mezzanine supports, stairs	2nd floor – Boiler 2	4.36	No
P53B	2/28/18		2nd floor – Mezzanine beam	3.73	
P53C	2/28/18		2nd floor – Mezzanine support stairs	2.51	
P53D	2/28/18		2nd floor – Mezzanine support	0.87	
P53E	3/1/18		Upper BR Mezzanine – steel beam	0.88	
P53F	3/1/18		Staircase to bunker – steel beam	0.60	

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TABLE 4
BULK SAMPLE SUMMARY OF SUSPECT PCB CONTAINING MATERIALS
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Sample No.	Sample Date	Homogenous Material Type	Sample Location	Total PCB (ppm)	EPA Regulated (Yes / No)
P54A	2/28/18	P54 – dark green paint on lower block walls (5') - N&S corners & ends	2nd floor – North wall NW	6.1	No
P54B	2/28/18		2nd floor – West wall NW	5.6	
P54C	2/28/18		2nd floor – South wall SW	7.18	
P54D	2/28/18		2nd floor – East wall	2.8	
P55A	2/28/18	P55 – silver paint on pipes	2nd floor – West 18" dia exp.	ND<0.47	No
P55B	2/28/18		2nd floor – 3' breach West	0.52	
P55C	2/28/18		2nd floor – 12" West riser	ND<0.49	
P56A	2/28/18	P56 – blue paint on segregation valve	2nd floor – West	4.82	No
P57A	2/28/18	P57 – black paint on concrete pads beneath motor pumps	2nd floor – West	3.26	No
P57B	2/28/18		2nd floor – West	1.5	
P58A	2/28/18	P58 – orange paint on motor pump	2nd floor – West motor pump	2.2	No
P58B	2/28/18		2nd floor – West motor pump	2.7	
P59A	3/1/18	P59 – grey paint on tanks	2nd floor – West Mezzanine paint on tank	ND<0.49	No
P59B	3/1/18		2nd floor – West Mezzanine paint on tank	ND<0.49	
P59C	3/1/18		2nd floor – West Mezzanine tank	ND<0.48	
P60A	2/28/18	P60 – green paint on stairs & landings to boiler controls	2nd floor – Boiler #2 Mezzanine beam	2.5	No
P60B	2/28/18		2nd floor – Boiler #5 stair rail	3.77	
P60C	2/28/18		2nd floor – Boiler #12 Mezzanine beam	9.9	
P61A	2/28/18	P61 – white paint on interior of Control Room walls	2nd floor – Control Room CMU int	8.5	No
P61B	2/28/18		2nd floor – Control Room CMU int	8.4	
P61C	2/28/18		2nd floor – Control Room CMU int	12	

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TABLE 4
BULK SAMPLE SUMMARY OF SUSPECT PCB CONTAINING MATERIALS
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Sample No.	Sample Date	Homogenous Material Type	Sample Location	Total PCB (ppm)	EPA Regulated (Yes / No)
P62A	2/28/18	P62 – white paint on interior ceiling	2nd floor – Control Room ceiling	10.1	No
P62B	2/28/18		2nd floor – Control Room ceiling	13.7	
P62C	2/28/18		2nd floor – Control Room ceiling	13.7	
P63A	2/28/18	P63 – white paint on exterior walls	2nd floor – Control Room exterior wall panel	9.45	No
P63B	2/28/18		2nd floor – Control Room ext wall panel	1.19	
P63C	2/28/18		2nd floor – Control Room ext wall	6.83	
P64A	2/28/18	P64 – blue paint on walls of lavatory	2nd floor – lavatory walls	5.3	No
P64B	2/28/18		2nd floor – lavatory walls	7.1	
P64C	2/28/18		2nd floor – lavatory walls	6.6	
P65A	2/28/18	P65 – red paint on fire stand pipe	2nd floor – South West (SE)	9.61	No
P65B	3/1/18		Upper area – Winch Room NE	0.80	
P65C	3/1/18		2nd floor – East wall fire box NE	1.4	
P66A	2/28/18	P66 – beige paint on ceiling of lavatory	2nd floor – lavatory ceiling	9.45	No
P66B	2/28/18		2nd floor – lavatory ceiling	3.9	
P66C	2/28/18		2nd floor – lavatory ceiling	10.83	
P67A	2/28/18	P67 – beige paint on walls & ceiling in restroom	2nd floor – Restroom upper wall	3.57	No
P67B	2/28/18		2nd floor – Restroom lower wall	5.21	
P67C	2/28/18		2nd floor – Restroom ceiling	3.8	
P68A	3/1/18	P68 – silver/grey ceiling paint on concrete	Upper BR Mezzanine ceiling paint	0.46	No
P68B	3/1/18		Upper BR Mezzanine ceiling paint	ND<0.46	
P68C	3/1/18		Upper BR Mezzanine ceiling paint	1.23	

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TABLE 4
BULK SAMPLE SUMMARY OF SUSPECT PCB CONTAINING MATERIALS
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Sample No.	Sample Date	Homogenous Material Type	Sample Location	Total PCB (ppm)	EPA Regulated (Yes / No)
C1A	3/1/18	C1 – caulk at seams of tanks	2nd floor – West Mezzanine	ND<0.67	No
C1B	3/1/18		2nd floor – West Mezzanine	ND<0.79	
C1C	3/1/18		2nd floor – West Mezzanine	ND<0.78	
DWG1A	2/26/18	DWG1 – light gray hard door window glaze	1st floor – SW Hall Office	1.1	No
DWG1B	2/26/18		1st floor – SW Hall west door	ND<0.75	
DWG1C	2/26/18		1st floor – SW Hall door west wall	ND<0.71	
WG1A	2/26/18	WG1 – interior window on East wall	1st floor – Storage Room	1.61	No
WG1B	2/26/18		1st floor – Storage Room	2.37	
WG2A	2/26/18	WG2 – window glaze on interior metal frame windows (east wall)	1st floor – BF pump area	1.59	No
WG2B	2/26/18		1st floor – BF pump area	ND<0.74	
WG2C	2/26/18		1st floor – BF pump area	1.1	
WG3A	2/28/18	WG3 – glazing on interior windows	2nd floor – Restroom	ND<0.79	No
WG3B	2/28/18		2nd floor – Restroom	ND<0.67	
WG3C	2/28/18		2nd floor – Restroom	ND<0.72	
WG4A	3/1/18	WG4 – top of Boiler Room (above bunkers)	Room above bunkers – int dr	ND<0.74	No
WG4B	3/1/18		Room above bunkers – int dr	ND<0.70	
WG5A	2/26/18	WG5 – tan/cream window glaze on interior metal window	1st floor – BF Pump area	ND<0.79	No
WG5B	2/26/18		1st floor – BF Pump area	ND<0.78	
WG5C	2/26/18		1st floor – BF Pump hall	0.92	
1	6/26/18	WG6 – hard tan glaze on interior window	Coal conveyor level - North	ND<0.77	No
2	6/26/18		Coal conveyor level - North	ND<0.70	

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TABLE 5
IDENTIFIED PCB BULK PRODUCT WASTE (> 50 ppm)
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Material	Sample Date (mo/yr)	General Location	Estimated Quantity
P38 – orange paint on pump valves	Sampled 02/18	1st floor – Fuel Oil Pump Room #2 *(The majority of these pump valves had oil/staining. Spill/contamination is suspected.)*	100 SF
P5 - silver/orange paint on structural steel column	Sampled 02/18 & 03/18	1st floor – west wall of fan room (center column) *(Only one column had results >50 ppm PCBs. Twelve (12) other samples on columns/structural steel were well below 50 ppm. Future planned sampling of the Fan Room and specifically this column, will be performed to assess for possible liquid PCB releases that may have impacted various surfaces. If appropriate, the waste characterization may be modified if the source of the PCBs is from a liquid release.)*	50 SF

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TABLE 6
IDENTIFIED EXCLUDED PCB PRODUCTS (> 1 ppm)
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Material	Sample Date (mo/yr)	General Location	Estimated Quantity
FT1 – 9"x9" green floor tile♦	Sampled 02/18	1st floor – SW Hall Office	*All floor tile (170 SF) removed as part of Interim Measures Project.*
FTM1 – black mastic associated with 9"x9" green floor tile♦	Sampled 02/18	1st floor – SW Hall Office	*All mastic (170 SF) removed as part of Interim Measures Project.*
Mastic associated with 12"x12" floor tile (FT2) ♦	Sampled 02/18	2nd floor – Restroom	*All mastic (160 SF) removed as part of Interim Measures Project.*
P1 – silver/green paint on lower wall (0-6')	Sampled 02/18	1st floor – NW Hall (W & E lower walls), North Hall (N & W lower walls), SW Hall (West wall)	3,220 SF
P2 – silver paint on wall (brick, CMU)	Sampled 02/18	1st floor – NW Hall (Upper West Wall, South Wall, Partial East Wall) , North Hall (Upper West & North Wall), SW Hall (West wall)	6,540 SF
P3 – silver/grey paint on concrete ceiling & metal ceiling (under boilers)	Sampled 02/18	1st floor – NW Hall	17,000 SF
P5 – silver/orange structural steel components (throughout upper portions & columns)	Sampled 02/18 & 03/18	Throughout 1st floor	31,100 SF
P5 – silver/orange structural (throughout upper portions & columns) P33 – white paint upper walls & entire South wall	Sampled 02/18 & 03/18	1st floor – Fuel Oil Pump Room #2	
Oil stain on overhead pipe	Sampled 03/18	1st floor Fan Room – East wall	2 SF
P6 – silver/green metal door & metal window framing	Sampled 02/18	1st floor – multiple locations mainly along halls	675 SF
P7 – silver/green/black paint on pipes	Sampled 02/18	1st floor – throughout	2,000 SF

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TABLE 6
IDENTIFIED EXCLUDED PCB PRODUCTS (> 1 ppm)
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Material	Sample Date (mo/yr)	General Location	Estimated Quantity
P8 – brownish grey paint on large vertical duct	Sampled 02/18	1st floor – North Hall, 2nd floor – boiler room (north end) *(Two vertical ducts run from 1st floor through boiler room to upper floors)*	4,750 SF
P9 – black paint on lower walls	Sampled 02/18	1st floor – North Hall (South walls)	240 SF
P10 – grey/silver paint on large horizontal duct (10'x4')	Sampled 02/18	1st floor – Temp Oil Storage Room, Fan room, SW Hall	11,500 SF
P11 – black paint on metal stairs	Sampled 02/18	1st floor – North Hall Stairs, North East Hall Stairs, Stairs in Area South of FOPR#2	270 SF
P12 – dark green paint on lower wall (0'-6')	Sampled 02/18	1st floor – North Hall (east wall on South end), NE Hall (E,W & partial S walls)	1, 830 SF
P13 – dark green paint on wood door frame	Sampled 02/18	1st floor – NE Hall (NE door), BF Pump Hall (West window)	40 SF
P14 – green paint on lower wall (0-6.5')	Sampled 02/18	1st floor – Bathroom Area	970 SF
P15 – white paint on upper wall (6.5'- ceiling)	Sampled 02/18	1st floor – Bathroom Area	2,020
P16 – light green/white paint on ceilings of bath areas & upper wall of south bath (6.5'-20')	Sampled 02/18	1st floor – Bathroom Area, South Bathroom Area	2,070 SF
P17 – red paint on fire hose wall box & connector pipes	Sampled 02/18	1st floor – Bathroom Area, Area South of FOPR#2	300 SF
P18 – silver paint on pipes	Sampled 02/18	1st floor – throughout	250 SF
P19 – green paint on metal pipes	Sampled 02/18	1st floor – Bathroom Area, BF Pump Area	325 SF

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TABLE 6
IDENTIFIED EXCLUDED PCB PRODUCTS (> 1 ppm)
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Material	Sample Date (mo/yr)	General Location	Estimated Quantity
P20 – silver paint on walls	Sampled 02/18	1st floor – Temporary Oil Storage Area	1,020 SF
P21 – yellow paint on brick walls	Sampled 02/18	1st floor – Fan Room, Temporary Oil Storage Area (NE Corner)	2,480 SF
P22 – orange paint on metal fan motors & fan ducts	Sampled 02/18	1st floor – Fan Room (6 units)	2,700 SF
P23 – black paint on concrete fan motor pads	Sampled 02/18	1st floor – Fan Room (6 units)	1,500 SF
P25 – dark green paint lower wall (CMU, brick)	Sampled 02/18	1st floor – South Fan Room, SW Hall (N,S & E walls), SW Hall Restroom, Area South of FOPR#2	3,140 SF
P26 – light green paint upper wall (CMU, brick)	Sampled 02/18	1st floor – South Fan Room, SW Hall (N,S & E walls), SW Hall Restroom, Area South of FOPR#2	7,250 SF
P27 – white structural steel	Sampled 02/18	1st floor – SW Hall	900 SF
P28 – white paint on concrete ceiling	Sampled 02/18	1st floor – SW Hall	3,330 SF
P29 – dark blue lower wall	Sampled 02/18	1st floor – SW Hall office & office 2	350 SF
P30 – light blue upper wall & ceiling	Sampled 02/18	1st floor – SW Hall office & office 2	590 SF
P31 – green paint on metal door/window frames	Sampled 02/18	1st floor – SW Hall - office, office 2, bathroom,	85 SF
P32 – green/red paint on wooden cabinet	Sampled 02/18	1st floor – SW Hall	100 SF

♦ Asbestos containing material (ACM) (>1%) or inseparable from an adjacent ACM

TABLE 6
IDENTIFIED EXCLUDED PCB PRODUCTS (> 1 ppm)
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Material	Sample Date (mo/yr)	General Location	Estimated Quantity
P33 – white paint on walls/ceilings	Sampled 02/18	1st floor – Storage Room (upper walls & entire south wall, ceiling), FOPR2 (upper N,S,W walls, structural steel, ceiling)	5,350 SF
P34 –gray paint on walls/ ceiling	Sampled 02/18	1st floor – gas cylinder (lower walls, ceiling), FOPR2 (lower N,S,W walls, east wall)	2,560 SF
P35 –white paint on upper wall	Sampled 02/18	1st floor – gas cylinder (upper walls), FOPR2 (east wall)	2,430 SF
P36 – red paint on metal doors & frames	Sampled 02/18	1st floor – Gas Cylinder Room	70 SF
P39 – gray paint on concrete pump pads	Sampled 02/18	1st floor – Fuel Oil Pump Room #2	200 SF
P40 – red paint on heat exchange pipes	Sampled 02/18	1st floor – Fuel Oil Pump Room #2	2,000 SF
P41 – peach/gray paint on metal fuel pumps	Sampled 02/18	1st floor – Fuel Oil Pump Room #2	300 SF
P42 – yellow paint on valves	Sampled 02/18	1st floor – Fuel Oil Pump Room #2	10 SF
P43 – white paint on upper block wall (6.5' – 20')	Sampled 02/18	1st floor – BF Pump Area, BF Pump Hall	5,190 SF
P44 – gray paint on lower block wall (0' - 6.5')	Sampled 02/18	1st floor – BF Pump Area, BF Pump Hall	2,500 SF
P45 – gray paint on concrete pump pads	Sampled 02/18	1st floor – BF Pump Area, BF Pump Hall	1,150 SF
P46 – black paint on metal BF pump supports	Sampled 02/18	1st floor – BF Pump Area	300 SF
P47 – orange paint on air compressor	Sampled 02/18	1st floor – BF Pump Area	200 SF (2 compressors)

♦ Asbestos containing material (ACM) (>1%) or inseparable from an adjacent ACM

TABLE 6
IDENTIFIED EXCLUDED PCB PRODUCTS (> 1 ppm)
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Material	Sample Date (mo/yr)	General Location	Estimated Quantity
P48 – orange paint on metal tank	Sampled 02/18	1st floor – Lube Oil Room	270 SF (2 tanks – one is 90% rust)
P49 paint on metal lube oil containers	Sampled 02/18	1st floor – Lube Oil Room	560 SF (9 containers)
P51 – silver paint on upper block/brick walls & brick/metal on boilers 1-12	Sampled 02/18	2nd floor – upper walls, boilers throughout and upper elevated areas	56,600 SF
P52 – black paint on pipes & valve wheels	Sampled 02/18	2nd floor – West Seg valve 11, Gen valve #2, Seg valve 9	350 SF
P53 – silver paint on structured beams, columns, mezzanine supports, stairs	Sampled 02/18 & 3/18	Throughout 2nd floor and upper elevated areas	29, 640 SF
P54 – dark green paint on lower block walls (5')	Sampled 02/18	2nd floor – North & South walls and corner areas	1,400 SF
P56 – blue paint on segregation valve	Sampled 02/18	2nd floor – along West Wall	50 SF
P57 – black paint on concrete pads beneath motor pumps	Sampled 02/18	2nd floor – along West & North Wall	50 SF
P58 – orange paint on motor pump	Sampled 02/18	2nd floor – along West Wall	50 SF
P60 – green paint on stairs & landings to boiler controls	Sampled 02/18	2nd floor – center row between boilers	1,920 SF (on all boilers)
P61 – white paint on interior of Control Room walls	Sampled 02/18	2nd floor – Control Room CMU int	385 SF
P62 – white paint on interior ceiling	Sampled 02/18	2nd floor – Control Room ceiling	260 SF
P63 – white paint on exterior walls	Sampled 02/18	2nd floor – Control Room exterior wall panel	400 SF

♦ Asbestos containing material (ACM) (>1%) or inseparable from an adjacent ACM

TABLE 6
IDENTIFIED EXCLUDED PCB PRODUCTS (> 1 ppm)
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Material	Sample Date (mo/yr)	General Location	Estimated Quantity
P64 – blue paint on walls of lavatory	Sampled 02/18	2nd floor – LAV walls	800 SF
P65 – red paint on fire stand pipe	Sampled 02/18 & 03/18	Throughout 2nd floor – fire boxes/stand pipes	200 SF
P66 – beige paint on ceiling of lavatory	Sampled 02/18	2nd floor – LAV ceiling	260 SF
P67 – beige paint on walls & ceiling in restroom	Sampled 02/18	2nd floor – Restroom	610 SF
P68 – silver/grey ceiling paint on concrete	Sampled 03/18	Mezzanine Level - Ceiling	28,420 SF
DWG1 – light gray hard door window glaze	Sampled 02/18	1st floor – SW Hall, NW Hall,	9 EA
WG1 – interior window on East wall	Sampled 02/18	1st floor – Storage Room (east wall)	1 EA
WG2 – window glaze on interior metal frame windows (east wall)	Sampled 02/18	1st floor – BF pump Area (East Wall – Center Area)	3 EA

♦ Asbestos containing material (ACM) (>1%) or inseparable from an adjacent ACM

TABLE 7 INVENTORY OF ADDITIONAL HAZARDOUS/REGULATED MATERIALS, WASTES AND ITEMS IDENTIFIED ENGLISH STATION – BOILER 1-12 INTERIOR NEW HAVEN, CONNECTICUT				
Quantity	**Size**	**Material/Item**	**General Location**	**Potential Hazard**
1	-	Thermostat	1st floor - rooms off northwest hall	Universal Waste (UW)
6	-	Mercury pressure gauge	1st floor – BF Pump Area	Universal Waste (UW)
4	-	Motors units		Connecticut Regulated Waste
1	-	Venture pressure meter		Universal Waste (UW)
1	-	Mercury pressure gauge	1st floor - lube oil room	Universal Waste (UW)
9	-	Oil reservoirs		Connecticut Regulated Waste
1	-	Tank		Connecticut Regulated Waste
18	-	Light bulbs		Light bulbs w/ ampoules
1	-	Emergency lighting		Universal Waste (UW)
3	-	Mercury pressure gauge	1st floor - northwest hall	Universal Waste (UW)
2	-	Mercury lamp		Universal Waste (UW)
1	-	Halogen bulb		Universal Waste (UW)
3	-	Fluorescent bulbs		Universal Waste (UW)
3	-	Ballast		Connecticut Regulated Waste
6	-	Light bulbs		Light bulbs w/ ampoules
8	-	U-shaped fluorescent	1st floor - rooms off northwest hall	Universal Waste (UW)
5	-	Ballasts		Connecticut Regulated Waste
5	-	Fluorescent bulbs		Universal Waste (UW)
1	-	Emergency ligting		Universal Waste (UW)
3	-	Mercury lamp	1st floor - north center hall	Universal Waste (UW)
7	-	Motor fan units		Connecticut Regulated Waste
7	-	Mercury pressure gauge		Universal Waste (UW)
4	-	Fluorescent bulb		Universal Waste (UW)
18	-	Light bulb		Universal Waste (UW)
90	-	Pressure gauge	2nd floor – boiler #1-12 area	Universal Waste (UW)
48	-	Oil filters		Connecticut Regulated Waste
12	-	Motor pumps		Connecticut Regulated Waste
24	-	Control panels		Universal Waste (UW)
72	-	Mercury ampules		Universal Waste (UW)

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 <140ºF) (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 7
INVENTORY OF ADDITIONAL HAZARDOUS/REGULATED MATERIALS, WASTES AND ITEMS IDENTIFIED
ENGLISH STATION – BOILER 1-12 INTERIOR
NEW HAVEN, CONNECTICUT

Quantity	Size	Material/Item	General Location	Potential Hazard
3	-	Fluorescent bulb	2nd floor – boiler #1-12 area – east side	Universal Waste (UW)
2	-	Ballast		Connecticut Regulated Waste
2	-	Fan motor		Connecticut Regulated Waste
1	-	Thermostat		Universal Waste (UW)
3	-	Mercury ampule		Universal Waste (UW)
2	-	Pressure gauge		Universal Waste (UW)
215	-	Pressure gauges	2nd floor – boiler #1-12 area – center	Universal Waste (UW)
22	-	Lights w/ ampoules		Universal Waste (UW)
1	-	Fire extinguisher		Miscellaneous
2	-	Monitor		Universal Waste (UW)
2	-	Fan unit		Connecticut Regulated Waste
19	-	Motors	2nd floor – boiler #1-12 area – west side	Connecticut Regulated Waste
3	-	Pressure gauge		Universal Waste (UW)
3	-	Capacitor		Connecticut Regulated Waste
3	-	Light bulbs ampoule		Universal Waste (UW)
1	-	Transformer		Connecticut Regulated Waste
1	-	Thermostat		Universal Waste (UW)
8	-	Ballasts	2nd floor – boiler #1-12 area – NW room to Turbine Hall	Connecticut Regulated Waste
16	-	Fluorescent bulbs		Universal Waste (UW)
12	-	Mechanical boxes	2nd floor – boiler #1-12 area – diamond plating / north stairs and grating	Universal Waste (UW)
11	-	Light bulbs		Universal Waste (UW)
2	-	Aerosol can		I
24	-	Light bulbs	2nd floor – boiler #1-12 area – north upstairs room and conveyor room	Universal Waste (UW)
6	-	Motors		Connecticut Regulated Waste
1	-	Ballast		Connecticut Regulated Waste
2	-	Fluorescent bulbs		Universal Waste (UW)
8	-	Pressure gauge	2nd floor – boiler #1-12 area – western tanks and vat room	Universal Waste (UW)
2	-	Vat motors		Connecticut Regulated Waste
1	-	Light bulbs		Universal Waste (UW)

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 <140ºF) (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 8 - Lead Based Paint Measurement Summary Table

Device(s):	**Niton XLP301-A (Serial #25555) X Ray Fluorescence (XRF) Spectrum Analyzer**
Site:	**English Station (Boiler 1-12 Interior), 458 Grand Avenue, New Haven, Connecticut**
Project # :	**263951-0000-0000**
Date(s):	**5/15/18, 5/22/18-5/23/18**
Inspector:	**Gregory Kaczynski**

Number	Room	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
1	**Shutter calibration**							5.9	0.0		55.96	5/15/2018 12:01
2	**0.3 calibration**							0.3	0.1	1	7.62	5/15/2018 12:03
3	**1.6 calibration**							1.6	0.1	1.11	7.62	5/15/2018 12:03
4	**0.7 calibration**							0.7	0.1	1.05	13.17	5/15/2018 12:03
FIRST FLOOR												
5	BF Pump area		Pad		Concrete	Grey	Intact	**0.2**	0.0	1.46	12.64	5/15/2018 12:18
6	BF Pump area		Door		Metal	Green	Intact	**6.8**	1.4	1.46	5.58	5/15/2018 12:19
7	BF Pump area	A	Door		Metal	Green	Intact	**6.7**	1.6	1.61	4.57	5/15/2018 12:19
8	BF Pump area	A	Wall		Brick	Green	Intact	**0.1**	0.0	1.56	21.83	5/15/2018 12:21
9	BF Pump area	--	Motor		Metal	Yellow	Intact	**0.5**	0.1	1.32	5.55	5/15/2018 12:24
10	BF Pump area	A	Wall	Stair	Concrete	Green	Intact	0.0	0.0	1.13	21.27	5/15/2018 12:26
11	BF Pump area	--	Door for stair	Casing	Metal	Green	Intact	**2.4**	0.3	1.77	4.06	5/15/2018 12:29
12	BF Pump area	--	--	Pipe	Metal	Red	Intact	**0.1**	0.0	1.73	8.63	5/15/2018 12:30
13	BF Pump area	--	Pad		Metal	Black	Intact	0.0	0.0	1.08	6.6	5/15/2018 12:32
14	BF Pump area	--	Pad		Metal	Black	Intact	**0.6**	0.1	1.1	5.07	5/15/2018 12:33
15	BF Pump area	--	Pad	--	Concrete	Grey	Intact	**0.2**	0.0	1.7	30	5/15/2018 12:34
16	BF Pump area	--	Pad	--	Concrete	Grey	Intact	**0.3**	0.0	1.82	30	5/15/2018 12:34
17	BF Pump area	--	Column	--	Metal	Grey	Intact	**8.7**	1.6	3.27	5.6	5/15/2018 12:36
18	BF Pump area	B	Wall	--	Block	Grey	Intact	**0.2**	0.0	1.78	21.77	5/15/2018 12:39
19	NW Hall	D	Wall	--	Block	Silver	Intact	**0.5**	0.1	1.28	5.06	5/15/2018 12:46
20	NW Hall	D	Wall	--	Block	Silver	Intact	**0.4**	0.1	1.27	16.15	5/15/2018 12:46
21	NW Hall	B	Wall	--	Brick	Silver	Intact	**1.4**	0.4	1.45	30	5/15/2018 12:47
22	NW Hall	B	Column	--	Metal	Silver	Intact	**8.3**	1.4	1.91	6.58	5/15/2018 12:48
23	NW Hall	A	Large filters (loose)	--	Metal	White	Intact	0.0	0.0	1.1	4.56	5/15/2018 12:51
24	NW Hall	A	Wall	--	Brick	Silver	Intact	0.0	0.0	1	8.08	5/15/2018 12:55
25	**0.3 calibration**							0.3	0.0	1.11	14.17	5/15/2018 14:11
26	**0.7 calibration**							0.7	0.1	1.09	12.17	5/15/2018 14:12
27	**3.5 calibration**							3.7	0.3	1.34	6.58	5/15/2018 14:12
28	**Shutter calibration**							3.0	0.0		96.74	5/23/2018 9:06
29	**0.3 calibration**							0.3	0.1	1	5.96	5/23/2018 9:08
30	**1.6 calibration**							1.7	0.2	1.17	4.55	5/23/2018 9:08
31	**0.7 calibration**							0.8	0.1	1.11	3.83	5/23/2018 9:08
32	**1.0 calibration**							1.0	0.3	1.25	1.68	5/23/2018 9:41
33	Temporary Oil Storage area	D	Wall		Brick	Grey	Intact	**0.9**	0.1	1.09	20.63	5/23/2018 9:42
34	Temporary Oil Storage area	B	Column		Metal	Yellow	Intact	**8.1**	2.8	1.95	3.12	5/23/2018 9:43
35	Temporary Oil Storage area	D	Door	Casing	Metal	Green	Intact	**0.3**	0.1	1.01	2.65	5/23/2018 9:44
36	Fan Room	B	Wall	--	Brick	Yellow	Intact	**1.6**	0.3	1.18	3.11	5/23/2018 9:44
37	Fan Room	--	Fan motor #2	--	Metal	Orange	Intact	**3.2**	0.7	1.89	2.63	5/23/2018 9:46

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

Table 8 - Lead Based Paint Measurement Summary Table

Device(s):	**Niton XLP301-A (Serial #25555) X Ray Fluorescence (XRF) Spectrum Analyzer**
Site:	**English Station (Boiler 1-12 Interior), 458 Grand Avenue, New Haven, Connecticut**
Project # :	**263951-0000-0000**
Date(s):	**5/15/18, 5/22/18-5/23/18**
Inspector:	**Gregory Kaczynski**

Number	Room	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
38	Fan Room	--	Fan motor #3	Base	Concrete	Grey	Intact	0.0	0.0	1	4.28	5/23/2018 9:47
39	Fan Room	--	Fan #4	--	Metal	Orange	Intact	**1.6**	0.3	1.15	3.11	5/23/2018 9:48
40	Fan Room	D	Column	--	Metal	Orange	Intact	**11.8**	3.8	1.74	2.38	5/23/2018 9:49
41	Fan Room	--	Fan #5	--	Concrete	Grey	Intact	**0.1**	0.0	1.04	5	5/23/2018 9:50
42	Fan Room	--	Fan #5	--	Metal	Orange	Intact	**3.3**	0.6	1.44	2.4	5/23/2018 9:51
43	***VOID***		***VOID***		***VOID***			***VOID***				***VOID***
44	Fan Room	--	Fan #5	Motor	Metal	Orange	Intact	**0.2**	0.1	1.58	3.58	5/23/2018 9:52
45	Fan Room	--	Pipe (near fan #5)	--	Metal	Rust	Intact	0.0	0.0	4.19	5.97	5/23/2018 9:54
46	Fan Room	--	Pipe (near fan #5)	--	Metal	Rust	Intact	0.0	0.0	2.04	2.85	5/23/2018 9:54
47	Fan Room	B	Wall	--	Brick	Yellow	Intact	**2.1**	0.3	1.31	3.34	5/23/2018 9:56
48	Fan Room	C	Wall	--	Brick	Grey	Intact	0.0	0.0	1	3.1	5/23/2018 9:56
49	Fan Room	C	Wall	Lower	Brick	Grey	Intact	**1.4**	0.2	1.18	3.57	5/23/2018 9:57
50	Fan Room	B	Column	--	Metal	Yellow	Intact	**7.0**	3.4	1.8	2.16	5/23/2018 9:58
51	South Fan Room	B	Wall	Upper	cmu	Light green	Intact	**0.1**	0.0	1.59	7.18	5/23/2018 10:00
52	***VOID***		***VOID***		***VOID***			***VOID***				***VOID***
53	South Fan Room	B	Wall	Lower	cmu	Dark green	Intact	**0.1**	0.0	2.27	8.12	5/23/2018 10:01
54	South Fan Room	B	Door	--	Metal	Dark green	Intact	**1.8**	0.2	1.64	3.83	5/23/2018 10:02
55	***VOID***		***VOID***		***VOID***			***VOID***				***VOID***
56	South Fan Room	C	Door	Casing	Metal	Dark green	Intact	**1.6**	0.2	1.33	5.03	5/23/2018 10:03
57	SW Hall	D	Wall	--	Block	Dark green	Intact	**0.4**	0.1	1.6	4.29	5/23/2018 10:05
58	SW Hall	D	Wall	Upper	Block	Light green	Intact	**0.1**	0.0	1.21	4.3	5/23/2018 10:05
59	SW Hall	C	Wall	Upper	Block cmu	Light green	Intact	**0.1**	0.0	1.87	4.76	5/23/2018 10:06
60	SW Hall	C	Wall	Lower	Block cmu	Dark green	Intact	0.0	0.0	2.69	4.08	5/23/2018 10:08
61	***VOID***		***VOID***		***VOID***			***VOID***				***VOID***
62	SW Hall	B	Column	--	Metal	Orange	Intact	**3.3**	0.6	1.43	2.39	5/23/2018 10:10
63	SW Hall - Office	A	Wall	Upper	cmu	Blue	Intact	**0.3**	0.1	2.51	4.53	5/23/2018 10:11
64	SW Hall - Office	--	Ceiling	--	Metal	White	Intact	0.0	0.0	1.46	3.58	5/23/2018 10:12
65	SW Hall - Office	D	Window	Casing	Metal	White	Intact	**2.5**	0.5	2.01	3.32	5/23/2018 10:13
66	SW Hall - Office	D	Door	Casing	Metal	White	Intact	**1.4**	0.2	1.4	4.08	5/23/2018 10:13
67	Stairwell (South of SW Hall)	A	Door	Casing	Metal	Orange	Intact	**0.7**	0.1	1.33	4.07	5/23/2018 10:16
68	Stairwell (South of SW Hall)	A	Door	--	Metal	Orange	Intact	0.0	0.0	1.54	4.77	5/23/2018 10:16
69	Stairwell (South of SW Hall)	D	Wall	Lower	Block	Green	Intact	**0.1**	0.0	1.49	4.78	5/23/2018 10:17
70	NW Hall	D	Wall	Lower	Block	Grey	Intact	**0.4**	0.1	1.26	5.01	5/23/2018 10:20
71	NW Hall	D	Pipe	--	Metal	Grey	Intact	**0.4**	0.1	1.38	3.81	5/23/2018 10:20
72	NW Hall	D	Door	--	Metal	Green	Intact	**0.1**	0.0	1.1	4.31	5/23/2018 10:21
73	NW Hall	B	Pipe rack	--	Metal	Rust	Intact	0.0	0.0	1.3	3.59	5/23/2018 10:23
74	NW Hall	B	Pipe rack	--	Metal	Rust	Intact	0.0	0.0	1.47	2.88	5/23/2018 10:23
75	NW Hall	B	Pipe rack	--	Metal	Rust	Intact	0.0	0.0	1	3.82	5/23/2018 10:24

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

Table 8 - Lead Based Paint Measurement Summary Table

Device(s):	**Niton XLP301-A (Serial #25555) X Ray Fluorescence (XRF) Spectrum Analyzer**
Site:	**English Station (Boiler 1-12 Interior), 458 Grand Avenue, New Haven, Connecticut**
Project # :	**263951-0000-0000**
Date(s):	**5/15/18, 5/22/18-5/23/18**
Inspector:	**Gregory Kaczynski**

Number	Room	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
76	BF Pump Area	B	Pipe (near pump #4)	--	Metal	Rust	Intact	0.0	0.0	2.05	3.12	5/23/2018 10:25
77	BF Pump Area	--	Pipe (near pump #5)	--	Metal	Rust	Intact	0.0	0.0	1	3.36	5/23/2018 10:26
78	Lube Oil Room	B	Column	--	Metal	Black	Intact	**1.1**	0.1	1.55	10.08	5/23/2018 10:30
79	Lube Oil Room	B	Tank	--	Metal	Black	Intact	**0.3**	0.1	1	7.4	5/23/2018 10:31
80	Lube Oil Room	B	Wall	--	Block	Grey	Intact	**0.1**	0.0	1.15	5.49	5/23/2018 10:39
SECOND FLOOR												
81	Boiler #1-12 area	D	Wall	--	Block	Silver	Intact	0.0	0.0	1.15	5.27	5/23/2018 10:45
82	Boiler #1-12 area	D	Breeching	--	Metal	Silver	Intact	**0.3**	0.1	3.87	5.27	5/23/2018 10:46
83	Boiler #1-12 area	D	Stair	--	Metal	Silver	Intact	**1.1**	0.1	1.32	8.61	5/23/2018 10:47
84	Boiler #1-12 area	--	Beam	--	Metal	Silver	Intact	**4.9**	0.9	1.51	2.39	5/23/2018 10:49
85	Boiler #1-12 area-by Boiler #4	D	Boiler	Wall	Brick	Silver	Intact	0.0	0.0	1.35	5.03	5/23/2018 10:50
86	Boiler #1-12 area-by Boiler #4	D	Boiler	Column	Metal	Silver	Intact	**0.1**	0.0	1.15	5.02	5/23/2018 10:51
87	Boiler #1-12 area	A	Wall	Upper	Block	Silver	Intact	**0.1**	0.0	1	4.55	5/23/2018 10:52
88	Boiler #1-12 area	A	Wall	Lower	Block	Black	Intact	**0.6**	0.1	1.31	5.04	5/23/2018 10:53
89	Boiler #1-12 area-by Boiler #2	--	Wall	Boiler	Brick	Silver	Intact	0.0	0.0	1	3.34	5/23/2018 10:54
90	Boiler #1-12 area-by Boiler #2	--	Wall column	Boiler	Brick	Silver	Intact	**0.2**	0.1	1.29	3.83	5/23/2018 10:55
91	Boiler #1-12 area-by Boiler #2	--	Column	--	Metal	Orange	Intact	**10.0**	3.2	1.79	2.88	5/23/2018 10:56
92	Boiler #1-12 area-by Boiler #2		Boiler landing	Column	Metal	Green	Intact	**0.3**	0.1	1.15	4.53	5/23/2018 10:57
93	Boiler #1-12 area-by Boiler #11		Boiler landing	Column	Metal	Green	Intact	**0.5**	0.1	1.01	2.87	5/23/2018 10:58
94	Boiler #1-12 area-by Boiler #2		Boiler plate	--	Metal	Green	Intact	**1.7**	0.3	1.29	3.11	5/23/2018 10:59
95	***VOID***		***VOID***		***VOID***			***VOID***				***VOID***
96	Boiler #1-12 area-by Boiler #11		Boiler plate	--	Metal	Green	Intact	**1.0**	0.1	1.43	20.49	5/23/2018 11:01
97	***VOID***		***VOID***		***VOID***			***VOID***				***VOID***
98	Boiler #1-12 area		Wall	Upper	Brick	Silver	Intact	0.0	0.0	1.56	5.51	5/23/2018 11:03
99	Boiler #1-12 area		Wall	Lower	Brick	Green	Intact	**1.4**	0.1	1.22	8.14	5/23/2018 11:04
100	Boiler #1-12 area	--	Column	--	Metal	Green	Intact	**12.3**	2.0	2.26	3.83	5/23/2018 11:05
101	Boiler #1-12 area-Lavatory	A	Wall	--	Concrete	Blue	Intact	**13.6**	1.9	7.56	4.56	5/23/2018 11:06
102	Boiler #1-12 area-Lavatory	B	Wall	--	Brick	Blue	Intact	**9.4**	1.9	6.49	3.34	5/23/2018 11:08
103	***VOID***		***VOID***		***VOID***			***VOID***				***VOID***
104	Boiler #1-12 area-Lavatory	D	Door	Casing	Metal	Blue	Intact	**0.2**	0.1	6.22	4.77	5/23/2018 11:09
105	Boiler #1-12 area-Lavatory	--	Ceiling	--	Concrete	Green	Intact	**11.4**	4.0	3.61	2.14	5/23/2018 11:10
106	Boiler #1-12 area-by Boiler #7	B	Window	--	Metal	Silver	Intact	**0.1**	0.0	1.09	4.08	5/23/2018 11:12
107	Boiler #1-12 area-by Boiler #7	B	Window	--	Metal	Silver	Intact	**0.4**	0.1	1.15	5.49	5/23/2018 11:13
108	Boiler #1-12 area-by Boiler #9	B	Window	--	Metal	Silver	Intact	**0.2**	0.1	1.25	3.1	5/23/2018 11:14
109	Boiler #1-12 area-by Boiler #9	D	Boiler	Wall	Brick	Silver	Intact	0.0	0.0	1	5.98	5/23/2018 11:16
110	Boiler #1-12 area-by Boiler #11	D	Boiler	Wall	Brick	Silver	Intact	0.0	0.0	1.61	4.06	5/23/2018 11:17
111	Boiler #1-12 area-by Boiler #9	D	Boiler	Column	Metal	Silver	Intact	**0.4**	0.1	1.33	6.21	5/23/2018 11:18
112	Boiler #1-12 area-by Boiler #11	--	Boiler	Column	Metal	Silver	Intact	**1.2**	0.1	1.62	5.26	5/23/2018 11:18

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

Table 8 - Lead Based Paint Measurement Summary Table

Device(s):	**Niton XLP301-A (Serial #25555) X Ray Fluorescence (XRF) Spectrum Analyzer**
Site:	**English Station (Boiler 1-12 Interior), 458 Grand Avenue, New Haven, Connecticut**
Project # :	**263951-0000-0000**
Date(s):	**5/15/18, 5/22/18-5/23/18**
Inspector:	**Gregory Kaczynski**

Number	Room	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
113	Boiler #1-12 area-by Boiler #9	--	Boiler	Column	Metal	Silver	Intact	**0.3**	0.1	1.85	3.34	5/23/2018 11:19
114	Boiler #1-12 area-by Boiler #9	B	Wall	Upper	Brick	Silver	Intact	0.0	0.0	1.09	3.58	5/23/2018 11:20
115	Boiler #1-12 area-by Boiler #9	B	Wall	Lower	Brick	Green	Intact	**0.4**	0.1	1.07	4.06	5/23/2018 11:20
116	Boiler #1-12 area-by Boiler #11	C	Wall	Lower	Brick	Green	Intact	**1.4**	0.2	1.13	3.59	5/23/2018 11:22
117	Boiler #1-12 area-by Boiler #11	C	Wall	Upper	Brick	Silver	Intact	0.0	0.0	1	3.58	5/23/2018 11:23
118	***VOID***		***VOID***		***VOID***			***VOID***				***VOID***
119	Boiler #1-12 area-by Boiler #11	C	Beam	Upper	Metal	Orange	Intact	**0.1**	0.0	1.2	4.3	5/23/2018 11:25
120	Boiler #1-12 area-by Boiler #11	C	Str	Rail	Metal	Green	Intact	**1.4**	0.1	1.22	5.02	5/23/2018 11:26
121	Boiler #1-12 area-by Boiler #11	C	Column	Rail	Metal	Black	Intact	**7.8**	1.8	1.77	3.36	5/23/2018 11:27
122	Boiler #1-12 area-by Boiler #11	--	Boiler plate	Loose	Metal	Silver	Intact	**0.2**	0.1	1.25	3.11	5/23/2018 11:29
123	Boiler #1-12 area-by Boiler #11	--	Boiler plate	Loose	Metal	Silver	Intact	**0.1**	0.0	1	3.83	5/23/2018 11:29
124	***VOID***		***VOID***		***VOID***			***VOID***				***VOID***
125	Boiler #1-12 area-by Boiler #12	--	Boiler landing	Beam	Metal	Green	Intact	**0.7**	0.2	1.26	3.36	5/23/2018 11:30
126	Boiler #1-12 area-by Boiler #11	--	Boiler landing	Beam	Metal	Green	Intact	**0.2**	0.1	1	3.6	5/23/2018 11:31
127	Boiler #1-12 area-corner duct	--	Corner duct	--	Metal	Grey	Intact	**2.1**	0.4	1.55	2.88	5/23/2018 11:32
128	***VOID***		***VOID***		***VOID***			***VOID***				***VOID***
129	Boiler #1-12 area	D	Wall	--	Block	Silver	Intact	0.0	0.0	1.02	2.87	5/23/2018 11:37
130	Boiler #1-12 area	D	Pipe	--	Metal	Rust	Intact	**0.5**	0.2	1.21	2.15	5/23/2018 11:39
131	Boiler #1-12 area	D	Pipe	--	Metal	Rust	Intact	0.0	0.0	1	2.87	5/23/2018 11:40
132	Boiler #1-12 area	D	Pipe	--	Metal	Rust	Intact	0.0	0.0	1.85	3.82	5/23/2018 11:41
133	Boiler #1-12 area	D	Pipe	--	Metal	Rust	Intact	0.0	0.0	1.05	5.03	5/23/2018 11:46
134	Boiler #1-12 area-Mezzanine	--	tank	--	Metal	White	Intact	0.0	0.0	1.49	3.84	5/23/2018 11:49
135	Boiler #1-12 area - stairs	B	Wall (to 1st floor)	--	Concrete	Green	Intact	**0.4**	0.1	1.22	3.82	5/23/2018 11:53
136	**0.3 calibration**	--	--	--		Green	Intact	**0.3**	0.0	1.05	7.65	5/23/2018 13:30
137	**0.7 calibration**		--	--		Green	Intact	**0.6**	0.1	1	5.24	5/23/2018 13:30
138	**1.6 calibration**	--	--	--		Green	Intact	**1.6**	0.1	1.18	5.76	5/23/2018 13:30
139	Boiler #1-12 area north -stairwell	--	stair	--	Metal	Silver	Intact	**0.3**	0.1	1.02	4.07	5/23/2018 13:52
ELEVATED AREAS - NORTH END												
140	Boiler #1-12 area north	--	blr column	--	Metal	Silver	Intact	**0.6**	0.1	1.79	3.35	5/23/2018 13:54
141	Boiler #1-12 area north - Room 1	B	Window	--	Metal	Black	Intact	**4.4**	0.8	1.45	2.39	5/23/2018 13:57
142	Boiler #1-12 area north - Room 1	D	Column	--	Metal	Black	Intact	**7.2**	2.8	2.22	2.88	5/23/2018 13:58
143	West Coal Bunker Mech Room	--	Beam	--	Metal	Black	Intact	**1.8**	0.4	1.29	2.87	5/23/2018 14:00
144	West Coal Bunker Mech Room	B	Door	--	Metal	Black	Intact	**1.5**	0.2	1.77	3.58	5/23/2018 14:00
145	West Coal Bunker Mech Room	A	Window	--	Metal	Black	Intact	**6.9**	2.8	2.47	2.88	5/23/2018 14:01
146	***VOID***		***VOID***		***VOID***			***VOID***				***VOID***
147	West Coal Bunker Mech Room	B	Wall	--	Brick	Silver	Intact	**0.1**	0.0	1.28	6.46	5/23/2018 14:02
148	Boiler #1-12 area north -elevated stairwell	--	duct	--	Metal	Silver	Intact	**0.4**	0.1	1.18	4.06	5/23/2018 14:06
149	Boiler #1-12 area north -elevated stairwell	A	pipe	--	Metal	Green	Intact	**0.1**	0.1	1.63	3.1	5/23/2018 14:07

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

Table 8 - Lead Based Paint Measurement Summary Table

Device(s):	**Niton XLP301-A (Serial #25555) X Ray Fluorescence (XRF) Spectrum Analyzer**
Site:	**English Station (Boiler 1-12 Interior), 458 Grand Avenue, New Haven, Connecticut**
Project # :	**263951-0000-0000**
Date(s):	**5/15/18, 5/22/18-5/23/18**
Inspector:	**Gregory Kaczynski**

Number	Room	Side	Structure	Feature	Material	Color	Condition	Reading (mg/cm2)	Precision (mg/cm2)	Depth Index	Duration (sec)	Date/Time
150	Boiler #1-12 area north -elevated stairwell	D	Wall	--	Brick	Silver	Intact	0.0	0.0	1.56	4.09	5/23/2018 14:09
151	Boiler #1-12 area 5th level (steel plates)	--	Ceiling	Beam	Metal	Silver	Intact	**7.8**	3.4	2.17	2.16	5/23/2018 14:12
152	Boiler #1-12 area 5th level (steel plates)	--	Ceiling	Beam	Metal	Silver	Intact	**5.6**	2.8	1.65	2.39	5/23/2018 14:13
153	Boiler #1-12 area 5th level (steel plates)	--	Ceiling	Beam	Metal	Silver	Intact	**9.0**	3.4	1.62	2.4	5/23/2018 14:13
154	***VOID***		***VOID***		***VOID***			***VOID***				***VOID***
155	Boiler #1-12 area 5th level (steel plates)	--	Ceiling	--	Concrete	Silver	Intact	0.0	0.0	1.6	5.25	5/23/2018 14:15
156	Boiler #1-12 area 5th level (steel plates)	--	Railing	--	Metal	Rust	Intact	**0.5**	0.1	1.34	4.07	5/23/2018 14:17
157	Boiler #1-12 area north -elevated stairwell	--	boiler plate loose	--	Metal	Silver	Intact	0.0	0.0	1	2.63	5/23/2018 14:24
158	Boiler #1-12 area north -elevated stairwell	--	Pipe	--	Metal	rust	Intact	0.0	0.0	1.14	3.84	5/23/2018 14:26
159	**1.6 calibration**	--	--	--	--			1.5	0.1	1.12	5.26	5/23/2018 14:55
160	**0.3 calibration**	--	--	--	--			0.3	0.1	1.09	2.87	5/23/2018 14:55
161	**0.7 calibration**	--	--	--	--			0.7	0.1	1.09	9.08	5/23/2018 14:56

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

PHOTOS

PHOTO 1 – 2nd Floor Boiler 1-12 Area – View of Boiler Ribs

PHOTO 2 – 2nd Floor Boiler 1-12 Area – Elevated Area between Boilers

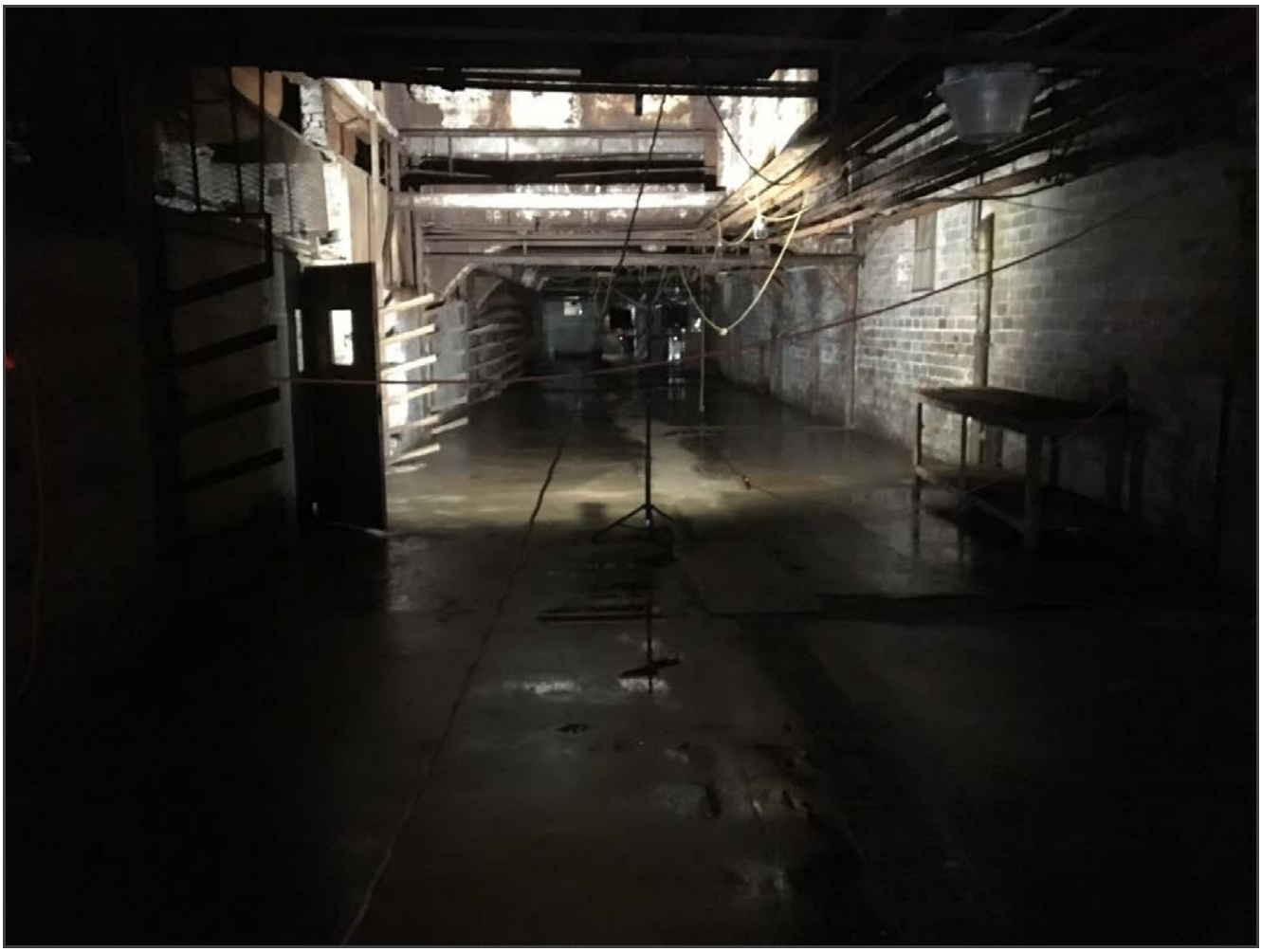


PHOTO 3 – 1st Floor NW Hall – Facing South

PHOTO 4 – Coal Conveyor Level Area – Facing North

PHOTO 5 – 1st Floor BF Pump Area – Facing South

PHOTO 6 – 2nd Floor Boiler 1-12 Area – East Side – Facing South

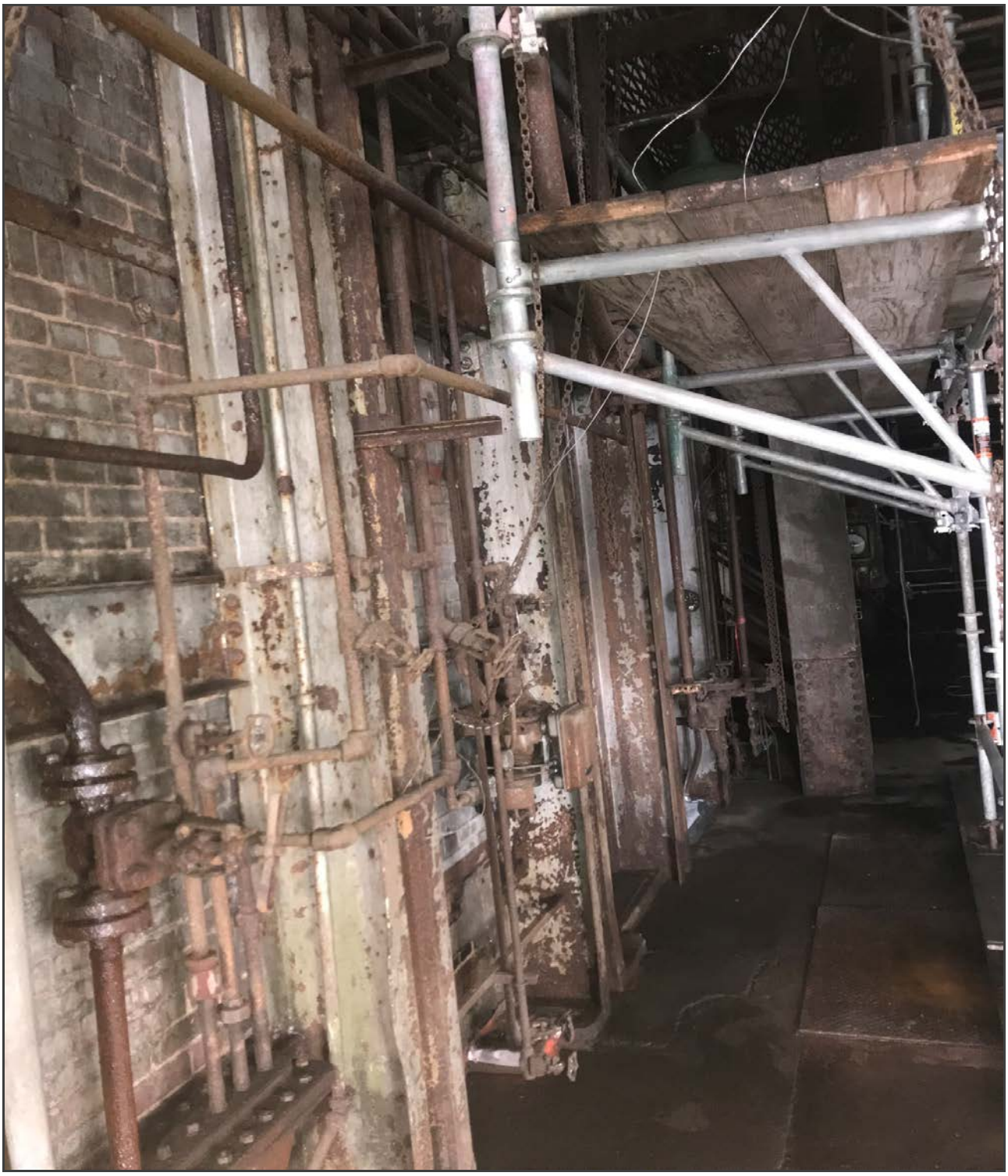


PHOTO 7 – 2nd Floor Boiler 1-12 Area – West Side – Facing South

PHOTO 8 – 2nd Floor Boiler 1-12 Area – Center Area Between Boilers – Facing South

PHOTO 9 – 1st Floor Fan Room – Facing South

PHOTO 10 – 1st Floor – Former Temporary Oil Storage Area – Facing South

PHOTO 11 – 1st Floor Fan Room – Silver/Orange Paint (P5) on Column with PCB Bulk Sample Results >50 ppm

PHOTO 12 – 1st Floor Fuel Oil Pump Room #2 – Orange Paint (P38) on Pump Valves with PCB Bulk Sample Results >50 ppm

PHOTO 13 – 1st Floor Fuel Oil Pump Room #2 – Orange Paint (P38) on Pump Valves with PCB Bulk Sample Results >50 ppm

ASBESTOS AND PCB INSPECTION FIGURES

(BOILER #1-12 AREA)

(BOILER #13-14 AREA)

P11A P14A P15A P16A P14B P15B P5D P16B BATHROOM AREA P19A SOUTH BATHROOM AREA P16C P5C P34B P36A,B GAS CYLINDER ROOM P38A,B P39A,B,C P11B,C P35C P5G P7C P17B P8A,B P9B P12A P13A P12C P34A P35A,B P7B WG1A,B P5H P40A,B,C P41A,B P3C NE HALL STORAGE ROOM 5-WG1 6-WG1 FUEL OIL PUMP ROOM (FOPR) #2 P3D P33B P12B P33A P42A,B 2-WG6 P9A P20C P21B FD FAN #2 P5K,L 01A P21E,F FD FAN #4 P21C P5N P25A P29A,B,C P30A,B,C FT1A FTM1A P25C NORTH HALL P10A FAN ROOM OFFICE OFFICE 2 BATH-ROOM P10B FD FAN #1 P23A P10C FD FAN #3 P22A P23B P22B P23C FD FAN #5 P22C FD FAN #6 P25B DWG1A P31B P31B 1-WG6 FORMER TEMPORARY OIL STORAGE AREA P21A P5F,P5I, P5J,P21D P5M P26A P26C P32A,B P20B P20A P6A P3B P1B,P2B, P5A P26B NW HALL SW HALL P27C P44A,P43C 10-WG5 11-WG5 WG5A P1A,P2A P7A P27A P28A P27B P28B P6B DWG1B P48B P49A P48A 8-WG2 P1C,P2C P5B WG3B,C P6C WG2C BEARING WATER RETURN TANK WG2A BF PUMP AREA WG2B P43B DWG1C P44C P43A P48B P44B P45A LUBE OIL ROOM SMOOT OIL PUMP ASH GATE OIL PUMPS AIR COMPRESSOR P17C BF PUMP #1 BF PUMP #2 BF PUMP #3 BF PUMP #4 BF PUMP #5 BF PUMP #6 BF PUMP #7 AIR COMPRESSOR P47A 3-DWG1 4-DWG1 P13B BF PUMP HALL P45B P45C P47B,C 7-WG2 19B P46B P50A P46A P49B,C P46C P50B POLY/PLYWOOD BARRIER (CRITICAL BARRIER) POLY/PLYWOOD BARRIER (CRITICAL BARRIER) POLY/PLYWOOD BARRIER (CRITICAL BARRIER)

R.D.V. PUMP H.W. PUMP PUMP TURBINE C.W. PUMP TURBINE HALL

FIELD REO #1 FIELD REO #2 FIELD REO #3 EXCITER PANEL ROOM ELECTRICIANS WORK ROOM 460V CUBICLE ROOM FIELD REO #4 FIELD REO #5 FIELD REO #6 5-7 BUS REACTORS REACTOR ROOM REACTORS REACTORS REACTORS 6-8 BUS REACTORS

CABLE HOUSE SCREEN HOUSE 1 PRIMING PUMP SCREEN SPRAY PUMP #1 #2 #3 UNWATERING PUMP NEUTRAL GROUND HOUSE SCREEN HOUSE 2 #4 #5 #6 UNWATERING PUMP TRANSFORMER G CABLE HOUSE SERVICE TRANSFORMER #1 SERVICE TRANSFORMER #2 SERVICE TRANSFORMER #3

FUEL OIL PUMP ROOM PIPE TRENCH SUMP & PUMP PULVERIZER PULVERIZER ASH HOPPER BOTTOM OF BOILER #13 ASH HOPPER BOTTOM OF BOILER #14 1500KVA TXF 1500KVA TXF 1500KVA TXF 750KVA TXF 750KVA TXF COMPRESSORS UNIT #7 CONDENSOR OIL CONDITIONER LUBE OIL TANK UNIT #8 CONDENSOR LUBE OIL CONDITIONER LUBE OIL PUMPS PUMPS LUBE OIL TANK REACTOR ROOM 2 CAPACITOR BANK 52A 8-1 CIRC. PUMP 8-2 CIRC. PUMP 8-1 SCREEN 8-1 SCREEN MACHINE SHOP SCREENWATER PUMP 7-1 CIRC. PUMP 7-2 CIRC. PUMP SCREEN HOUSE 3 OH. DOOR PUMP VAULT 7-1 7-2

LEGEND

- PCB BULK SAMPLE LOCATION WITH ID
- ASBESTOS BULK SAMPLE LOCATION WITH ID
- INSPECTION LIMITS OF BOILER 1-12 AREA

SOURCE:
MAP TITLED "PLAN PREPARED FOR UNITED ILLUMINATING COMPANY, ENGLISH STATION, NEW HAVEN, CONNECTICUT, 1ST FLOOR HIGH & LOW PRESSURE BOILER AREAS, PLATE-1", SCALE: 1"=16', DATED: JAN. 2000, BY GEI CONSULTANTS, INC.

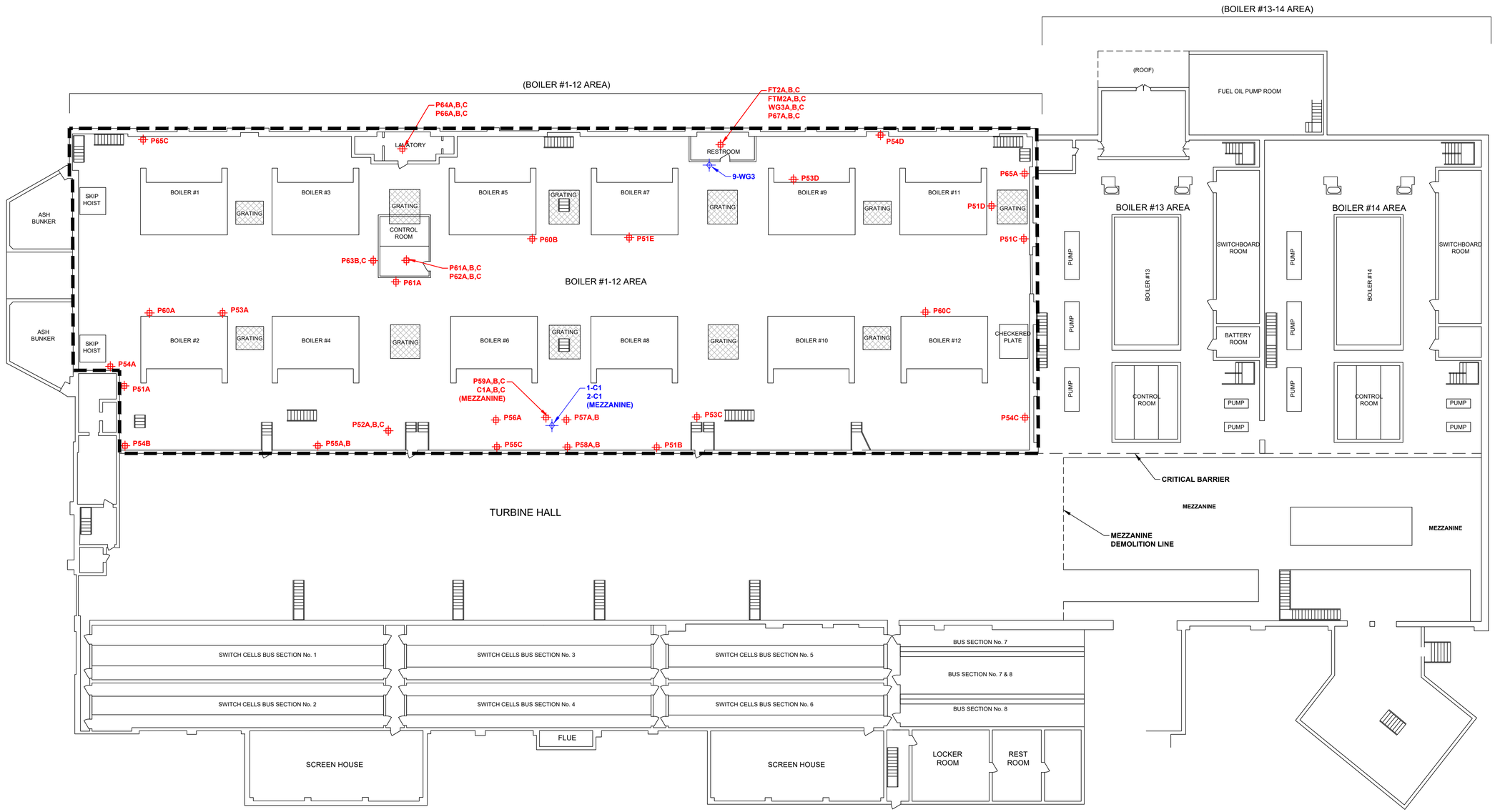
CT State 1983

0 16' 32'
GRAPHIC SCALE

PROJECT:	UNITED ILLUMINATING ENGLISH STATION POWER PLANT 510 Grand Avenue New Haven, Connecticut
TITLE:	BOILER 1-12 INTERIOR ASBESTOS AND PCB INSPECTION PLAN 1ST FLOOR
DRAWN BY:	K. Hollenbeck
CHECKED BY:	G. Kacznski
APPROVED BY:	M. Kearney
DATE:	08/13/2018
PROJ. NO.:	263951-000018-000003
	Figure 1

TRC
21 Griffin Road North
Windsor, CT 06095
Phone: 860.298.9692
www.trcsolutions.com

FILE NO.: Plate-1.dwg



LEGEND

- PCB BULK SAMPLE LOCATION WITH ID
- ASBESTOS BULK SAMPLE LOCATION WITH ID
- METAL GRATING
- INSPECTION LIMITS OF BOILER 1-12 AREA

SOURCE:
MAP TITLED "PLAN PREPARED FOR UNITED ILLUMINATING COMPANY, ENGLISH STATION, NEW HAVEN, CONNECTICUT, 1ST FLOOR HIGH & LOW PRESSURE BOILER AREAS, PLATE-1", SCALE: 1"=16', DATED: JAN. 2000, BY GEI CONSULTANTS, INC.

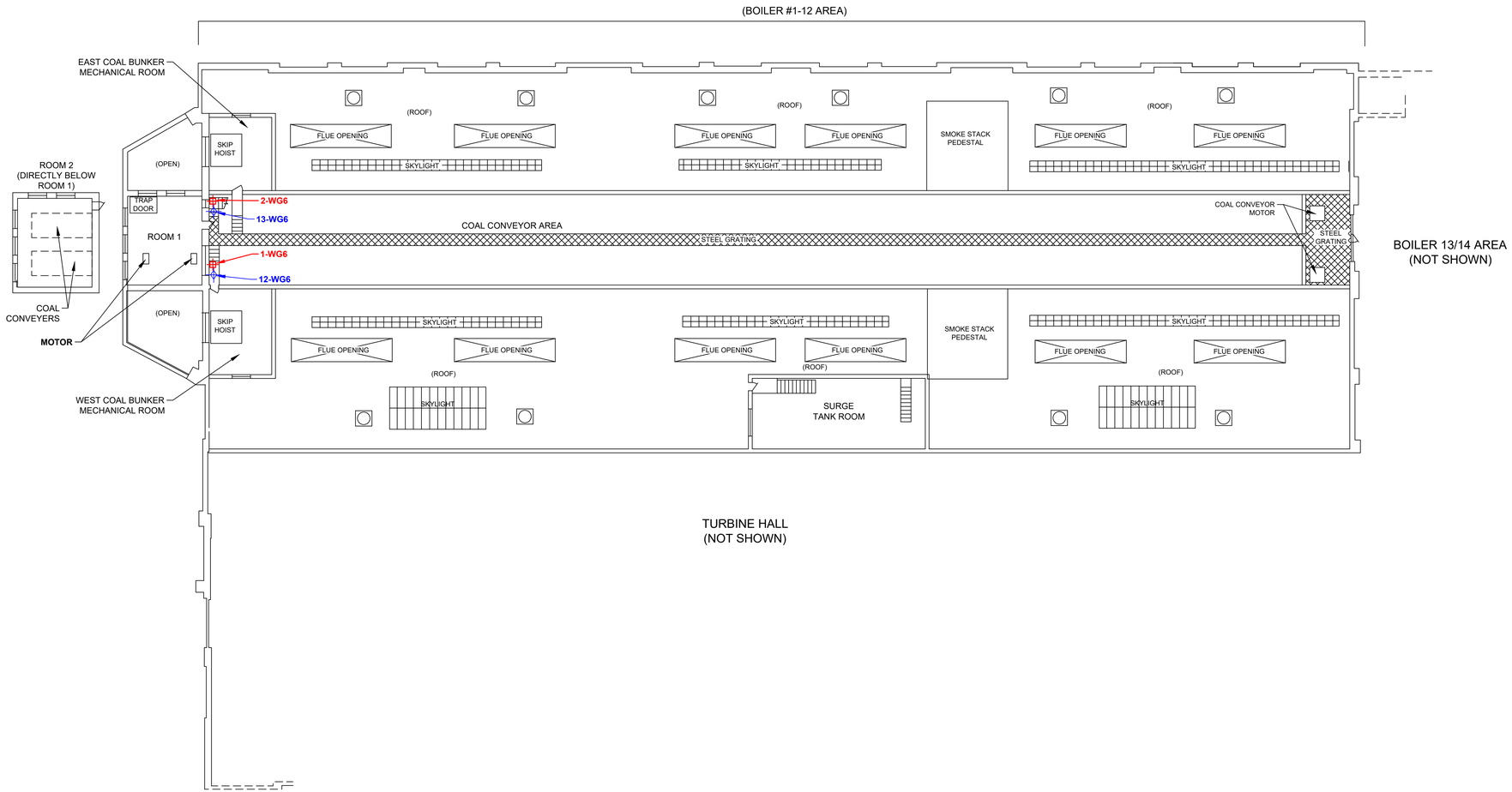
CT State 1983

0 16' 32'
GRAPHIC SCALE

PROJECT:	**UNITED ILLUMINATING** **ENGLISH STATION POWER PLANT** **510 Grand Avenue** **New Haven, Connecticut**
TITLE:	**BOILER 1-12 INTERIOR ASBESTOS AND PCB INSPECTION PLAN 2ND FLOOR**
DRAWN BY: K. Hollenbeck	PROJ. NO.: 263951-000018-000003
CHECKED BY: G. Kaczynski	**Figure 2**
APPROVED BY: M. Kearney	
DATE: 08/13/2018	

TRC
21 Griffin Road North
Windsor, CT 06095
Phone: 860.298.9692
www.trcsolutions.com

FILE NO.: Plate-1.dwg



LEGEND

- PCB BULK SAMPLE LOCATION WITH ID
- ASBESTOS BULK SAMPLE LOCATION WITH ID
- METAL GRATING

SOURCE:
MAP TITLED "PLAN PREPARED FOR UNITED ILLUMINATING COMPANY, ENGLISH STATION, NEW HAVEN, CONNECTICUT, 1ST FLOOR HIGH & LOW PRESSURE BOILER AREAS, PLATE-1", SCALE: 1"=16', DATED: JAN. 2000, BY GEI CONSULTANTS, INC.

CT State 1983

0 16' 32'
GRAPHIC SCALE

PROJECT:	**UNITED ILLUMINATING** **ENGLISH STATION POWER PLANT** **510 Grand Avenue** **New Haven, Connecticut**
TITLE:	**BOILER 1-12 INTERIOR ASBESTOS AND PCB INSPECTION PLAN** **COAL CONVEYOR LEVEL AND UPPER ELEVATED AREAS**
DRAWN BY: K. Hollenbeck	PROJ. NO.: 263951-000018-000003
CHECKED BY: G. Kaczynski	**Figure 3**
APPROVED BY: M. Kearney	
DATE: 08/13/2018	

TRC
21 Griffin Road North
Windsor, CT 06095
Phone: 860.298.9692
www.trcsolutions.com

FILE NO.: Plate-1.dwg

APPENDICES

APPENDIX A
LABORATORY ACCREDITATIONS

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:

BUILDING MATERIALS
ASBESTOS FIBERS – PCM
BULK IDENTIFICATION – PLM

SEE COMPUTER PRINT-OUT FOR SPECIFIC TESTS APPROVED

EFFECTIVE RENEWAL DATE JANUARY 1, 2018

THIS CERTIFICATE EXPIRES DECEMBER 31, 2019 AND IS REVOCABLE FOR CAUSE BY THE STATE DEPARTMENT OF PUBLIC HEALTH

DATED AT HARTFORD, CONNECTICUT, THIS 19th DAY OF December, 2017

Registration No.

PH-0426

SUZANNE BLANCAFLOR, MS, MPH
CHIEF, ENVIRONMENTAL HEALTH SECTION

STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH SECTION

ENVIRONMENTAL LABORATORY CERTIFICATION PROGRAM

CERTIFIED ANALYTES REPORT FOR ALL MATRICES

TRC-Environmental Corporation

21 GRIFFIN ROAD NORTH
WINDSOR, CT 060951590

CT REGISTRATION NUMBER :	PH-0426
REGISTERED OWNER / AUTHORIZED AGENT :	Erik Plimpton
DIRECTOR :	Kathleen Williamson
CO DIRECTOR(S) :	
PHONE :	(860) 298-9692
LABORATORY REGISTRATION EFFECTIVE DATE :	01/01/2018
LABORATORY REGISTRATION EXPIRATION DATE :	12/31/2019
LABORATORY STATUS :	APPROVED

APPROVED BY

SUZANNE BLANCAFLOR, MS, MPH
CHIEF, ENVIRONMENTAL HEALTH SECTION

REVIEWED BY 12/19/2017 11:00:24 AM

DERMOT JONES

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

CONSTRUCTION, RENOVATION & DEMO BLDG MATERIALS

STATUS REPORTED ON 12/19/2017

ANALYTE NAME

ASBESTOS

ASBESTOS FIBERS (PCM)

ASBESTOS IN BULK MATERIALS (PLM)