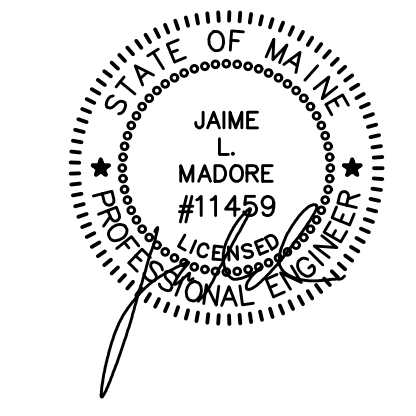


Site:
**CLEANUP OF THE GNP
 ENGINEERING BUILDING
 AND PILOT PLANT**
 1 KATAHDIN AVE
 MILLINOCKET, MAINE

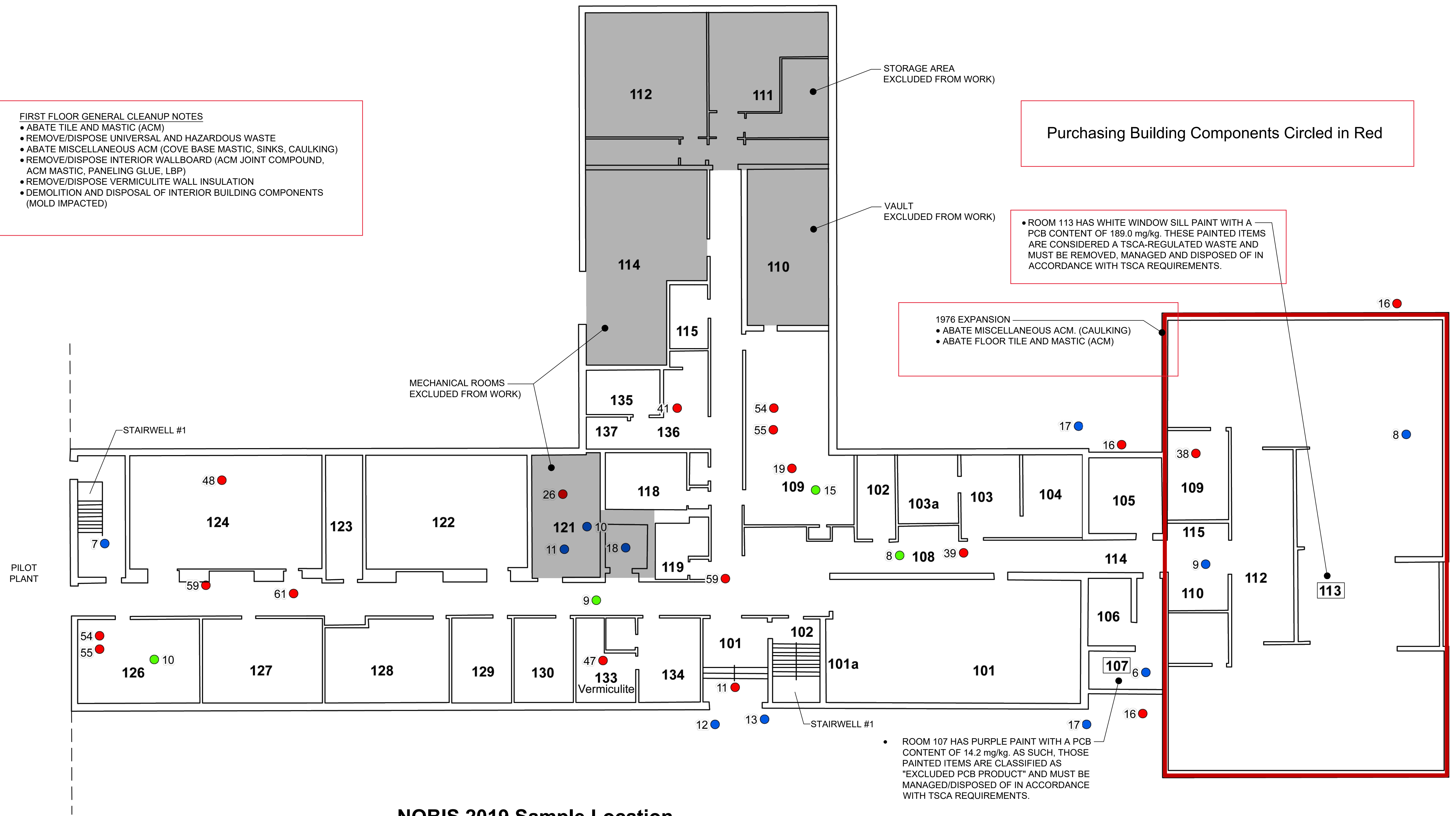
Prepared for:
OUR KATAHDIN
 P.O. BOX 293
 MILLINOCKET, MAINE



ENVIRONMENTAL ENGINEER:
JAIME L. MADORE, PE# 11459
 400 COMMERCIAL STREET, SUITE 404
 PORTLAND, ME 04101
 207-772-2891

FIRST FLOOR GENERAL CLEANUP NOTES

- ABATE TILE AND MASTIC (ACM)
- REMOVE/DISPOSE UNIVERSAL AND HAZARDOUS WASTE
- ABATE MISCELLANEOUS ACM (COVE BASE MASTIC, SINKS, CAULKING)
- REMOVE/DISPOSE INTERIOR WALLBOARD (ACM JOINT COMPOUND, ACM MASTIC, PANELING GLUE, LBP)
- REMOVE/DISPOSE VERMICULITE WALL INSULATION
- DEMOLITION AND DISPOSAL OF INTERIOR BUILDING COMPONENTS (MOLD IMPACTED)



Purchasing Building Components Circled in Red

• ROOM 113 HAS WHITE WINDOW SILL PAINT WITH A PCB CONTENT OF 189.0 mg/kg. THESE PAINTED ITEMS ARE CONSIDERED A TSCA-REGULATED WASTE AND MUST BE REMOVED, MANAGED AND DISPOSED OF IN ACCORDANCE WITH TSCA REQUIREMENTS.

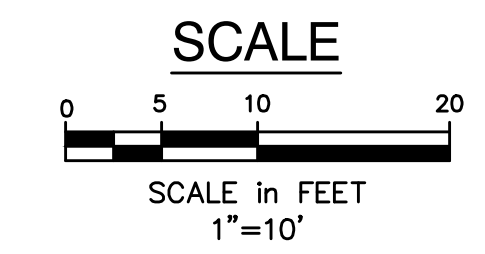
1976 EXPANSION
 • ABATE MISCELLANEOUS ACM. (CAULKING)
 • ABATE FLOOR TILE AND MASTIC (ACM)

• ROOM 107 HAS PURPLE PAINT WITH A PCB CONTENT OF 14.2 mg/kg. AS SUCH, THOSE PAINTED ITEMS ARE CLASSIFIED AS "EXCLUDED PCB PRODUCT" AND MUST BE MANAGED/DISPOSED OF IN ACCORDANCE WITH TSCA REQUIREMENTS.

NOBIS 2019 Sample Location Legend

- Asbestos Sample
- PCB Sample
- Mold Sample

NOTES:
 Only positive Asbestos samples are shown.
 All PCB and Mold samples are shown.



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**ENGINEERING
 BUILDING -
 FIRST FLOOR
 CLEANUP PLAN**

B	BIDDING	APR 2023
A	PRELIMINARY REVIEW	APR 2023
No.	Revision/Issue	Date
Design by:	JLM	Checked by: NOS
Drawn by:	PM	Approved by: JLM
Project:	201.06041	Date: 4/10/2023

Sheet No: **C2.0**

Table 1A
Summary of Asbestos Analytical Results - Engineering and Research Building
Targeted Brownfields Assessment
Millinocket, Maine

Sample ID	Sample Description	Sample Location	Total Asbestos	Asbestos Type
ER-A-01	Black Built-Up Roofing	Pilot Plant Roof	23.4	Chrysotile
ER-A-02	Black Flashing	Pilot Plant Roof	15.3	Chrysotile
ER-A-11	White Door Frame Caulk	East entry Main Building	1.1	Chrysotile
ER-A-14	White Metal Expansion Caulk	Pilot Plant, North side	7.1	Chrysotile
ER-A-16	White Expansion Joint Caulk	Exterior	2.5	Chrysotile
ER-A-18	Joint Compound	Throughout interior of Main Building	2	Chrysotile
ER-A-19	Gypsum Wallboard Adhesive	Throughout interior of Main Building	4.7	Chrysotile
ER-A-26	Stick Pin Adhesive	Throughout interior of Main Building	12.3	Chrysotile
ER-A-38	White Expansion Joint Caulk	Room 109	1.7	Chrysotile
ER-A-39	Interior Window Glazing	Throughout Main Building	4.5	Chrysotile
ER-A-40	Interior Window Frame Caulk	Room 301	2.3	Chrysotile
ER-A-41	Black Sink Coat	Throughout Main Building and Pilot Plant	29.1	Chrysotile
ER-A-45	Fume Hood Panel	Throughout Main Building	20	Chrysotile
ER-A-47	Multi-Layered Flooring	Room 133	23.5	Chrysotile
ER-A-48	9 x 9 Brown Floor Tile	Room 124	10.0	Chrysotile
ER-A-54	9 x 9 Tan Floor Tile	Throughout Main Building	23.8	Chrysotile
ER-A-55	9 x 9 Floor Tile Mastic	Throughout Main Building	4.0	Chrysotile
ER-A-59	<6" Fitting Insulation	Throughout Main Building	20	Chrysotile
ER-A-61	>6" Fitting Insulation	Throughout Main Building	50.0	Chrysotile
ER-A-73	Yellow/Brown Adhesive	Room 230	2.1	Chrysotile
ER-A-74	Olive Wall Panel Adhesive	Second Floor of Main Building	8.0	Chrysotile
ER-A-103	<6" Pipe Insulation	Pilot Plant	30	Amosite
ER-A-104	<6" Fitting Insulation	Pilot Plant	20	Amosite
ER-A-105	>6" Pipe Insulation	Pilot Plant	20	Amosite
ER-A-106	>6" Fitting Insulation	Pilot Plant	30	Chrysotile
ER-A-107	6 Burner Lab Stove	Pilot Plant	20	Amosite
ER-A-109	Green Wood Insulation Cement Board	Pilot Plant	20	Chrysotile
ER-A-111	Fume Hood Counter Panel	Pilot Plant	20	Chrysotile
ER-A-112	Microwave Cabinet Cement Panels	Pilot Plant	20	Chrysotile
ER-A-119	Gray Sink Coat - 1st Floor	Pilot Plant	7.0	Chrysotile
Vermiculite wall insulation (Room 133 and 228A)		Room 133 and 228A	Assumed ACM	Assumed ACM
White insulated wiring throughout Building		Throughout Main Building	Assumed ACM	Assumed ACM

Notes:

1. Assumed = The material was not sampled and is presumed ACM
2. Pos Stop = Presumed ACM due to one sample in sample set containing more than 1% asbestos

Table 2A
Summary of Non-Asbestos Results - Engineering and Research Building
Targeted Brownfields Assessment
Millinocket, Maine
Page 1 of 3

Sample ID	Sample Description	Total Asbestos	Asbestos Type
ER-A-03	Brown Roll Roofing - Main Roof	ND	
ER-A-04	Black Flashing - Main Roof	ND	
ER-A-05	Gray Flash Caulk - North Roof	<0.25	Chrysotile
ER-A-06	Exterior Ceiling Plaster (Base Coat) - Main Bldg	ND	
ER-A-07	Exterior Ceiling Plaster (Finish Coat) - Main Bldg	ND	
ER-A-08	Skimcoat on Foundation - Exterior	ND	
ER-A-09	Gray Window Glazing - Exterior	0.79	Chrysotile
ER-A-10	Black Foundation Tar - Exterior Pilot Plant	ND	
ER-A-12	Gray Window/Door Frame Caulk	0.68	Chrysotile
ER-A-13	White Window Frame Caulk - Exterior North	<0.27	Chrysotile
ER-A-15	Gray Window Frame Caulk - Exterior Main Bldg	ND	
ER-A-17	Gypsum Wallboard - Main Building	ND	
ER-A-20	Wall Plaster (Base Coat)	ND	
ER-A-21	Wall Plaster (Finish Coat)	ND	
ER-A-22	Ceiling Plaster (Base Coat)	ND	
ER-A-23	Ceiling Plaster (Finish Coat)	ND	
ER-A-24	Red Duct Seam Sealant	ND	
ER-A-25	White F/G End Sealant	ND	
ER-A-27	Stair Wall Paper	ND	
ER-A-28	Carpet Adhesive	ND	
ER-A-29	White Duct Seam Sealant	ND	
ER-A-30	2 x 4 White Ceiling Tile (Type 1)	ND	
ER-A-31	2 x 4 White Ceiling Tile (Type 2)	ND	
ER-A-32	1 x 1 White Ceiling Tile (Spline)	ND	
ER-A-33	1 x 2 White Ceiling Tile (Spline)	ND	
ER-A-34	2 x 2 White Ceiling Tile (Textured)	ND	
ER-A-35	2 x 2 White Ceiling Tile (Fissured)	ND	
ER-A-36	Floor Stand Glue	ND	
ER-A-37	Counter Top Glue	<0.25	Chrysotile
ER-A-42	Ceramic Floor Tile Grout	ND	
ER-A-43	Ceramic Floor Tile Mortar	ND	
ER-A-44	Black Lab Top	ND	
ER-A-46	Silver Duct Seam Sealant	ND	
ER-A-49	9 x 9 Brown Floor Tile Mastic	ND	
ER-A-50	9 x 9 Gray Floor Tile	ND	
ER-A-51	9 x 9 Gray Floor Tile Mastic	ND	

Table 2A
Summary of Non-Asbestos Results - Engineering and Research Building
Targeted Brownfields Assessment
Millinocket, Maine
Page 2 of 3

Sample ID	Sample Description	Total Asbestos	Asbestos Type
ER-A-52	Black Fiber/glass Pipe Material	0.26	Chrysotile
ER-A-53	Wall Paper Adhesive	ND	
ER-A-56	Ceramic Tile (12") Grout	ND	
ER-A-57	Ceramic Tile (12") Mortar	ND	
ER-A-58	<6" Pipe Insulation	ND	
ER-A-60	>6" Pipe Insulation	ND	
ER-A-62	12 x 12 Pink Floor Tile	ND	
ER-A-63	12 x 12 Pink Floor Tile Mastic	ND	
ER-A-64	12 x 12 White Floor Tile	ND	
ER-A-65	12 x 12 White Floor Tile Mastic	<0.25	Chrysotile
ER-A-66	12 x 12 Beige Floor Tile	ND	
ER-A-67	12 x 12 Beige Floor Tile Mastic	ND	
ER-A-68	Desk Top Laminate Adhesive	ND	
ER-A-69	Brown Stair Tread	ND	
ER-A-70	Yellow Stair Tread	ND	
ER-A-71	Black Lab Bench Backing	ND	
ER-A-72	12 x 12 Cork Floor Adhesive	ND	
ER-A-75	Light Brown Cove Base Mastic	ND	
ER-A-76	Dark Brown Chalkboard Adhesive	ND	
ER-A-77	Dark Brown Wood Baseboard Adhesive	ND	
ER-A-78	Yellow Wallboard Adhesive	ND	
ER-A-79	Green Chalkboard Adhesive	ND	
ER-A-80	Yellow Cove Base Adhesive	ND	
ER-A-81	Black Cove Base Adhesive	ND	
ER-A-82	White Cove Base	ND	
ER-A-83	Olive Mastic	ND	
ER-A-84	Red Cove Base	<0.25	Chrysotile
ER-A-85	Grey Cove Base	ND	
ER-A-86	4" Dark Blue Cove Base	ND	
ER-A-87	Light Blue Cove Base	ND	
ER-A-88	Purple Mastic	ND	
ER-A-89	Sticky Tan Cove Base Mastic	ND	
ER-A-90	Tan Cove Base w/ 89A	ND	
ER-A-91	Black Painted Brown Cove Base	ND	
ER-A-92	Beige Cove Base	ND	
ER-A-93	6" Dark Blue Cove Base	ND	
ER-A-94	Lilac Cove Base	ND	
ER-A-95	Dark Brown Mastic on 91B	ND	
ER-A-96	6" Dark Brown Cove Base w/ 95C	<0.46	Chrysotile
ER-A-97	4" Brown Cove Base	ND	
ER-A-98	Black Cove Base	ND	
ER-A-99	Stricky Yellow Mastic w/ 97A	ND	
ER-A-100	Cream Mastic on 98A	ND	
ER-A-101	Hard Yellow Mastic on 96C	ND	

Table 2A
Summary of Non-Asbestos Results - Engineering and Research Building
Targeted Brownfields Assessment
Millinocket, Maine
Page 3 of 3

Sample ID	Sample Description	Total Asbestos	Asbestos Type
ER-A-102	Cream + Dark Brown Mastic on 94B	<0.35	Chrysotile
ER-A-108	White Roller Strap - Pilot Plant	ND	
ER-A-110	Fume Hood Side Panels - Pilot Plant	ND	
ER-A-113	Black Lab Top - Pilot Plant	ND	
ER-A-114	Black Lab Top (#2) -Pilot Plant	ND	
ER-A-115	White Lab Top -Pilot Plant	ND	
ER-A-116	Gray Chemical Cabinet Wall Panel - Pilot Plant	ND	
ER-A-117	Interior White Window Frame Caulk - Pilot Plant	ND	
ER-A-118	Black Window Caulk (Over Rubber) - Pilot Plant	ND	

Note:

1. ND = Non Detect

Table 3A
 Summary of PCB Analytical Results - Engineering and Research Building
 Targeted Brownfields Assessment
 Millinocket, Maine

Sample	Matrix	Location	Date	Sample Data												PCB Cleanup Standards			High Occupancy		Unconditional		1 mg/kg		
				Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	NS	NS	NS	NS	Aroclor 1260	Aroclor 1262	NS	NS	Encapsulated/Capped	Unconditional	10 mg/kg	25 mg/kg	100 mg/kg	Total PCBs
				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
ER-PCB-01	Light Green Paint	Room 303	11/5/2018	<0.2	<0.2	<0.2	<0.2	6.0	6.4	7.9	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	20.3
ER-PCB-02	White Paint	Room 325	11/5/2018	<0.2	<0.2	<0.2	<0.2	5.1	3.2	6.6	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	14.9
ER-PCB-03	Light Blue Paint	Room 323	11/5/2018	<0.3	<0.3	<0.3	<0.3	3.4	<0.3	6.8	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	10.2
ER-PCB-04	Gray Caulk	Interior	11/5/2018	<0.2	<0.2	<0.2	<0.2	<0.2	19000	31000	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	50000.0
ER-PCB-05	Clear Caulk	Interior Window	11/5/2018	<0.2	<0.2	<0.2	<0.2	4.8	3.9	5.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	33000.0
ER-PCB-06	Purple Paint	Room 107	11/6/2018	<0.3	<0.3	<0.3	<0.3	4.8	3.9	5.5	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	14.2
ER-PCB-07	Brown Paint	Room 226	11/6/2018	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	24	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	24.0
ER-PCB-08	1st Floor White Window Sill	Room 113	11/6/2018	<0.2	<0.2	<0.2	<0.2	26	53	110	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	189.0
ER-PCB-09	1st Floor Wall Joint Caulk	Interior Expansion Joint Room 115	11/6/2018	<0.2	<0.2	<0.2	<0.2	0.33	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.3
ER-PCB-10	Clear Caulk	HVAC Room 105	11/6/2018	<0.2	<0.2	<0.2	<0.2	0.53	<0.2	0.39	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.9
ER-PCB-11	Gray Caulk	HVAC Room 1st Floor	11/6/2018	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	49	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	49.0
ER-PCB-12	Gray Weather Strip	1st Floor, Rear Vestibule	11/7/2018	<0.2	<0.2	<0.2	<0.2	2.1	<0.2	2.7	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	4.8
ER-PCB-13	Silver Door Caulk	All Exterior Doors	11/7/2018	<0.2	<0.2	<0.2	<0.2	0.66	<0.2	0.36	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.02
ER-PCB-14	Black Window Caulk	Pilot Plant	11/7/2018	<0.2	<0.2	<0.2	<0.2	<0.2	0.42	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.4
ER-PCB-15	Mint Green Paint	Pilot Plant	11/7/2018	<0.2	<0.2	<0.2	<0.2	<0.2	6.5	2.7	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	9.2
ER-PCB-16	Gray Caulk	Exterior	11/7/2018	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<6	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	ND
ER-PCB-17	White Caulk	Exterior	11/7/2018	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	ND
ER-PCB-18	Elevator Oil	Basement Elevator Shaft	11/8/2018	<1	<1	<1	<1	1.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.4

Notes:

- All concentrations reported in milligrams per kilogram (mg/kg) equivalent to parts per million (ppm) unless otherwise indicated.
- "<" indicates that parameter was not present above the given analytical detection limit.
- Samples collected by Nobis on the dates indicated.
- Laboratory analyses performed by Eastern Analytical, Inc. of Concord, NH.
- PCB Cleanup levels are stated in 40 CFR § 761.61. Cleanup Levels listed are for bulk PCB remediation waste has been disposed of on-site, and where occupancy for any individual not wearing dermal and respiratory protection for a calendar year is: 840 hours or more (an average of 16.8 hours or more per week) for non-porous surfaces and 335 hours or more (an average of 6.7 hours or more per week) for bulk PCB remediation waste.
- High Occupancy Use: Defined under TSCA as any area where PCB remediation waste has been disposed of on-site and where occupancy for any individual not wearing dermal and respiratory protection for a calendar year is: less than 840 hours (an average of 16.8 hours per week) for non-porous surfaces and less than 335 hours (an average of 6.7 hours per week) for bulk PCB remediation waste.
- Low Occupancy Use: Defined under TSCA as any area where PCB remediation waste has been disposed of on-site and where occupancy for any individual not wearing dermal and respiratory protection for a calendar year is: less than 840 hours (an average of 16.8 hours per week) for non-porous surfaces and less than 335 hours (an average of 6.7 hours per week) for bulk PCB remediation waste.
- NS= No Standard
- Not Detected

Table 4A
 Summary of LBP XRF Analytical Results - Engineering and Research Building
 Targeted Brownfields Assessment
 Millinocket, Maine

Component	Room	Paint Condition	Color	XRF Reading (mg/cm ²)	Location
Ladder	Stairwell AA	Poor	Brown	1.8	Third Floor
Machine Base	17	Poor	Gray	2.1	
Porcelain Sink Glaze	20	Poor	White	35	Second Floor
Cabinet Frame	18	Poor	Gray	4.1	
Cabinet Door	18	Poor	Gray	8.6	
Shelf	18	Poor	Gray	6.8	
Porcelain Sink Glaze	23	Poor	White	40	
Ladder	50	Poor	Blue	1.8	
Hand Rail	50	Poor	Lt-Blue	1.3	
Beam	50	Poor	White	3.4	
Corner Beam	50	Poor	Lt-Blue	14.8	
Garage Door	50	Poor	Lt-Blue	2	
Garage Door Jamb	50	Poor	Lt-Blue	1.8	First Floor
Porcelain Sink Glaze	23	Poor	White	35	
Post	33	Poor	Brown	1.7	Basement
Stair Stringer	1	Poor	Lt-Blue	1.1	
Hand Rail	1	Poor	Yellow	1.4	
Headerboard	1	Poor	Blue	2.8	Exterior
Beam	1	Poor	Green	4.2	
Door Jamb	Exterior D3	Poor	Lt-Blue	1.9	

Notes:

1. Only XRF results greater than 1 mg/cm² are shown. See Appendix B for a full summary of XRF results.
2. Note that sample locations are depicted in Appendix C of LBP Report

Table 5A
 Summary of Mold Analytical Results - Engineering and Research Building
 Targeted Brownfields Assessment
 Millinocket, Maine

Sample ID	ER-M-01	ER-M-02	ER-M-03	ER-M-04	ER-M-05	ER-M-06	ER-M-07	ER-M-08	ER-M-09	ER-M-10	ER-M-11	ER-M-12	ER-M-13	ER-M-14	ER-M-15
Sample Location	Room 325	Room 315	Room 320	Room 301	Room 225A	Room 215	Room 220	Room 108	1st Floor Hallway	Room 126	1st Floor Pilot Plant	Room 205	Room 228A	Outside 332	Room 109
Alternaria (Ulocladium)	*High*	*Medium*	-	*Medium*	-	-	-	-	-	-	-	*High*	-	-	Low
Aspergillus/Penicillium	-	-	-	*High*	-	-	Low	-	Low	-	-	High	High	Medium	Medium
Basidiospores	-	-	-	-	-	-	-	-	Low	-	*High*	-	-	-	-
Chaetomium	-	-	-	-	-	-	-	*High*	-	-	-	-	-	-	-
Cladosporium	-	-	-	-	Low	-	-	-	-	-	-	Medium	-	-	Low
Pithomyces++	Medium	Low	-	Low	-	-	-	-	-	-	-	*Medium*	-	-	-
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stachybotrys/Memmoniaella	-	*Low*	-	-	*Medium*	-	*High*	-	-	Medium	-	-	-	Low	*Medium*
Unidentifiable Spores	-	-	-	-	-	Low	-	-	-	-	-	-	-	-	-
Chrysonilia/Neurospora	-	-	-	-	-	*Medium*	-	-	-	-	-	-	-	-	-
Mucor	-	-	-	-	-	*High*	-	-	-	-	*Medium*	-	-	-	-
Hyphal Fragment	-	-	Low	-	Low	-	-	-	Low	-	-	-	-	-	-

- Notes:
1. Rare: 1 to 10 Low: 11 to 100 Medium: 101 to 1000 High: High Count/
 2. - = Non Detect
 3. ++ = Includes other spores with similar morphology
 4. * = Spores contain fruiting structures and are within an active state
 5. Under direct microscopy, fungal species Aspergillus and Penicillium are indistinguishable and therefore are commonly reported together.