

# DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK CITY OF PORTLAND

Please Read Application And Notes, If Any, Attached

## BUILDING INSPECTION

### PERMIT

PERMIT ISSUED  
Permit Number: 071429  
DEC 21 2007  
CITY OF PORTLAND

This is to certify that MAINE MEDICAL CENTER Herbert Construction, LLC  
has permission to Ground Floor - interior renovations, Change floor plan & Placement of locker rooms, restrooms & add new alcov  
AT 2 BRAMHALL ST Ground Floor L 053 D007001

provided that the person or persons who perform or supervise the construction accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Classification of inspection must be given and when permission procedure before this building or part thereof is closed or services closed-in. 4  
OUR NOTICE REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

#### OTHER REQUIRED APPROVALS

Fire Dept. Corey Cross  
Health Dept. [Signature]  
Appeal Board \_\_\_\_\_  
Other \_\_\_\_\_  
Department Name

[Signature] 12/21/07  
Director - Building & Inspection Services

**PENALTY FOR REMOVING THIS CARD**

**City of Portland, Maine - Building or Use Permit Application**

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

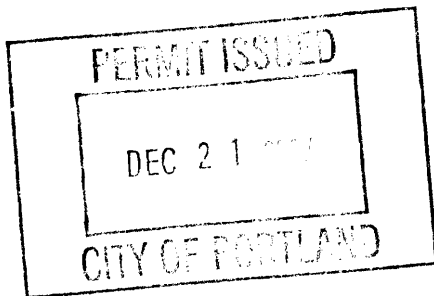
Permit No: 07-1429	Issue Date:	CBL: 053 D007001
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Location of Construction: 2 BRAMHALL ST Ground Floor	Owner Name: MAINE MEDICAL CENTER	Owner Address: 22 BRAMHALL ST	Phone:
Business Name:	Contractor Name: Herbert Construction, LLC	Contractor Address: 9 Gould Road Lewiston	Phone 2077832091
Lessee/Buyer's Name	Phone:	Permit Type: Alterations - Commercial	Zone: C41

Past Use: Commercial - Maine Medical Center -Ground Floor	Proposed Use: Maine Medical Center -Ground Floor - interior renovations, Change floor plan & Placement of locker rooms, restrooms & add new alcove	Permit Fee: \$3,270.00	Cost of Work: \$325,000.00	CEO District: 2
Proposed Project Description: Ground Floor - interior renovations, Change floor plan & Placement of locker rooms, restrooms & add new alcove		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <i>See Conditions</i>	INSPECTION: Use Group: I-2 Type: 1B IBC-2003	
		Signature: <i>Craig Coates</i>	Signature: <i>JMB 12/21/07</i>	
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)				
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied				
Signature: _____ Date: _____				

Permit Taken By: Idobson	Date Applied For: 11/21/2007	<b>Zoning Approval</b>		
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- This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
- Building permits do not include plumbing, septic or electrical work.
- Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work..



<b>Special Zone or Reviews</b> <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: <i>11/27/07</i>	<b>Zoning Appeal</b> <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	<b>Historic Preservation</b> <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: <i>[Signature]</i>
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**CERTIFICATION**

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

# BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 to schedule your inspections as agreed upon

Permits expire in 6 months, if the project is not started or ceases for 6 months.

The Owner or their designee is required to notify the inspections office for the following inspections and provide adequate notice. Notice must be called in 48-72 hours in advance in order to schedule an inspection:

By initializing at each inspection time, you are agreeing that you understand the inspection procedure and additional fees from a "Stop Work Order" and "Stop Work Order Release" will be incurred if the procedure is not followed as stated below.

         **Pre-construction Meeting:** Must be scheduled with your inspection team upon receipt of this permit. Jay Reynolds, Development Review Coordinator at 874-8632 must also be contacted at this time, before any site work begins on any project other than single family additions or alterations.

- Footing/Building Location Inspection:** Prior to pouring concrete
- Re-Bar Schedule Inspection:** Prior to pouring concrete
- Foundation Inspection:** Prior to placing ANY backfill
- Framing/Rough Plumbing/Electrical:** Prior to any insulating or drywalling
- Final/Certificate of Occupancy:** Prior to any occupancy of the structure or use. NOTE: There is a \$75.00 fee per inspection at this point.

Certificate of Occupancy is not required for certain projects. Your inspector can advise you if your project requires a Certificate of Occupancy. All projects DO require a final inspection

**If any of the inspections do not occur, the project cannot go on to the next phase, REGARDLESS OF THE NOTICE OR CIRCUMSTANCES.**

**CERIFICATE OF OCCUPANICES MUST BE ISSUED AND PAID FOR, BEFORE THE SPACE MAY BE OCCUPIED**

          
Signature of Applicant/Designee

          
Date

          
Signature of Inspections Official

          
Date

CBL: 53-D-7

Building Permit #: 071429

**City of Portland, Maine - Building or Use Permit**

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

<b>Permit No:</b> 07-1429	<b>Date Applied For:</b> 11/21/2007	<b>CBL:</b> 053 D007001
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<b>Location of Construction:</b> 2 BRAMHALL ST Ground Floor	<b>Owner Name:</b> MAINE MEDICAL CENTER	<b>Owner Address:</b> 22 BRAMHALL ST	<b>Phone:</b>
<b>Business Name:</b>	<b>Contractor Name:</b> Herbert Construction, LLC	<b>Contractor Address:</b> 9 Gould Road Lewiston	<b>Phone</b> (207) 783-2091
<b>Lessee/Buyer's Name</b>	<b>Phone:</b>	<b>Permit Type:</b> Alterations - Commercial	

<b>Proposed Use:</b> Maine Medical Center -Ground Floor - interior renovations, Change floor plan & Placement of locker rooms, restrooms & add new alcove	<b>Proposed Project Description:</b> Ground Floor - interior renovations, Change floor plan & Placement of locker rooms, restrooms & add new alcove
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<b>Dept:</b> Zoning	<b>Status:</b> Approved	<b>Reviewer:</b> Marge Schmuckal	<b>Approval Date:</b> 11/27/2007	<b>Note:</b>	<b>Ok to Issue:</b> <input checked="" type="checkbox"/>
<b>Dept:</b> Building	<b>Status:</b> Approved with Conditions	<b>Reviewer:</b> Jeanine Bourke	<b>Approval Date:</b> 12/21/2007	<b>Note:</b> 1) Separate permits are required for any electrical, plumbing, or HVAC systems. Separate plans may need to be submitted for approval as a part of this process. 2) All penetrations through rated assemblies must be protected by an approved firestop system installed as tested in accordance with ASTM 814 or UL 1479, per IBC 2003 Section 712.	<b>Ok to Issue:</b> <input checked="" type="checkbox"/>
<b>Dept:</b> Fire	<b>Status:</b> Approved with Conditions	<b>Reviewer:</b> Capt Greg Cass	<b>Approval Date:</b> 11/29/2007	<b>Note:</b> 1) Application requires State Fire Marshal approval. 2) A single source supplier should be used for all through penetrations. 3) The Fire alarm and Sprinkler systems shall be reviewed by a licensed contractor[s] for code compliance. Compliance letters are required.	<b>Ok to Issue:</b> <input checked="" type="checkbox"/>

over pt. \$ 10.00 66



# General Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>22 Bramhall Street, Portland ME</u>		
Total Square Footage of Proposed Structure/Area <u>1800 S.F.</u>		Square Footage of Lot
Tax Assessor's Chart, Block & Lot Chart#      Block#      Lot# <u>053      D      007</u>	Applicant * <b>must</b> be owner, Lessee or Buyer* Name <u>Maine Medical Center</u> Address <u>22 Bramhall Street</u> City, State & Zip <u>Portland, ME 04101</u>	Telephone: <u>(207) 662-3323</u>
Lessee/DBA (If Applicable)	Owner (if different from Applicant) Name Address City, State & Zip	Cost Of Work: \$ <u>325,000.00</u> C of O Fee: \$ _____ Total Fee: \$ <u>3,280.00</u>
Current legal use (i.e. single family) <u>Locker Room - Women's Bathroom</u> If vacant, what was the previous use? _____ Proposed Specific use <u>Women's Room to become Men's &amp; Locker to become Women's Room</u> Is property part of a subdivision? _____ If yes, please name _____ Project description: <u>Phase I - construct womens room in space of emergency locker room</u> <u>Phase II - construct men's room in space formerly occupied by women's room</u> <u>Phase III - construct public services alcove in space formerly occupied by mens room.</u>		
Contractor's name: <u>Hebert Construction LLC</u> Address: <u>9 Gould Road</u> City, State & Zip <u>Lewiston, ME 04240</u> Telephone: <u>(207) 783-2091</u> Who should we contact when the permit is ready: <u>Daniel Hebert</u> Telephone: <u>(207) 783-2091</u> Mailing address: <u>9 Gould Road Lewiston ME 04240</u>		

**Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.**

In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at [www.portlandmaine.gov](http://www.portlandmaine.gov), or stop by NOV Inspections Division office, room 315 City Hall or call 874-8703.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature: Daniel R Hebert Date: 11-20-07

**This is not a permit; you may not commence ANY work until the permit is issue**



# Certificate of Design Application

From Designer:

Winton Scott Architects

Date:

11.19.07

Job Name:

MHC Common Area Renovations

Address of Construction:

22 Bramhall St.

## 2003 International Building Code

Construction project was designed to the building code criteria listed below:

Building Code & Year IBC '03 Use Group Classification (s) I 2

Type of Construction 1B

Is there a Fire suppression system in Accordance with Section 903.3.1 of the 2003-IBC? Yes Supervisory alarm system? Yes

Is the Structure mixed use? Yes If yes, separated or non separated or non separated (section 302.3) Yes

Geotechnical/Soils report required? (See Section 1802.2) N.A.

Structural Design Calculations N.A.

Submitted for all structural members (106.1 - 106.11)

### Design Loads on Construction Documents (1603)

Uniformly distributed floor live loads (7603.11, 1807)

Floor Area Use	Loads Shown
<u>N.A.</u>	

### Wind loads (1603.1.4, 1609) N.A.

- Design option utilized (1609.1.1, 1609.6)
- Basic wind speed (1809.3)
- Building category and wind importance Factor,  $w$  table 1604.5, 1609.5)
- Wind exposure category (1609.4)
- Internal pressure coefficient (ASCE 7)
- Component and cladding pressures (1609.1.1, 1609.6.2.2)
- Main force wind pressures (7603.1.1, 1609.6.2.1)

### Earth design data (1603.1.5, 1614-1623) N.A.

- Design option utilized (1614.1)
- Seismic use group ("Category")
- Spectral response coefficients,  $S_D$ s &  $S_{D1}$  (1615.1)
- Site class (1615.1.5)

- Live load reduction
- Roof live loads (1603.1.2, 1607.11)
- Roof snow loads (1603.7.3, 1608)
- Ground snow load,  $P_g$  (1608.2)
- If  $P_g > 10$  psf, flat-roof snow load  $P_f$
- If  $P_g > 10$  psf, snow exposure factor,  $C_e$
- If  $P_g > 10$  psf, snow load importance factor,  $I_s$
- Roof thermal factor,  $C_t$  (1608.4)
- Sloped roof snowload,  $P_s$  (1608.4)
- Seismic design category (1616.3)
- Basic seismic force resisting system (1617.6.2)
- Response modification coefficient,  $R_d$  and deflection amplification factor  $C_d$  (1617.6.2)
- Analysis procedure (1616.6, 1617.5)
- Design base shear (1617.4, 1617.5.1)

### Flood loads (1803.1.6, 1612) N.A.

- Flood Hazard area (1612.3)
- Elevation of structure

### Other loads N.A.

- Concentrated loads (1607.4)
- Partition loads (1607.5)
- Misc. loads (Table 1607.8, 1607.6.1, 1607.7, 1607.12, 1607.13, 1610, 1611, 2404)



# Certificate of Design

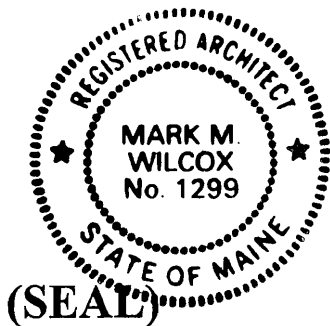
Date: 11.19.07

From: Mark Wilcox

These plans and / or specifications covering construction work on:

MMC Common Area Renovation

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the *2003 International Building Code* and local amendments.



Signature: Mark Wilcox

Title: Principal

Firm: Winton Scott Arch'ts

Address: 5 Milk St.

Portland, ME 04101

Phone: 774-4811 Ext 2 #

For more information or to download this form and other permit applications visit the Inspections Division on our website at [www.portlandmaine.gov](http://www.portlandmaine.gov)



# Accessibility Building Code Certificate

Designer: Mark M. Wilcox

Address of Project: Maine Medical Center

Nature of Project: Common Area Renovation  
Toilet Rooms Pavilion A Ground Floor

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and Federal Americans with Disability Act. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable.



Signature: Mark M. Wilcox

Title: Principal

Firm: Winton Scott Architects

Address: 5 Milk St.  
Portland, ME 04101

Phone: 774-4811 ext 2#

For more information or to download this form and other permit applications visit the Inspections Division on our website at [www.portlandmaine.gov](http://www.portlandmaine.gov)



**Asbestos Renovation Survey**

**Common Area Renovation  
Ground Floor/1929 Pavilion  
Maine Medical Center**

Prepared for:

**Maine Medical Center  
Facilities Development  
22 Bramhall Street  
Portland, ME 04102**

Prepared by:

**McCarthy Environmental Services  
P.O. Box 481  
Belgrade Lakes, ME 04918-0481  
(207) 293-4821**

**November 15, 2007**

**MES Project #07174**

## **Table of Contents**

Section I	Executive Summary
Section II	Observations & Findings
Section III	Survey Limitations
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Appendix B	Definitions & Regulations
Appendix C	Survey & Sampling Protocols

## Section I

### Executive Summary

McCarthy Environmental Services (MES) was retained by Maine Medical Center to conduct an asbestos impact survey prior to renovations in **the Common Area located on the ground floor of Pavilion A at Maine Medical Center**. The objective of this survey was to locate and identify presumed asbestos-containing materials (PACM) that will potentially be impacted during the upcoming renovation project.

The field survey was conducted by Alexie J. McCarthy of McCarthy Environmental Services; a State of Maine licensed Asbestos Inspector. During the survey, Mr. McCarthy identified suspect interior PACM that may potentially be impacted by the upcoming renovation project. **Nineteen (19)** samples were collected for analysis during the field survey. The locations of these materials were recorded. Quantity estimates were based on measurements taken from accessible areas and field observations. Following completion of the field survey the bulk samples were submitted to Schneider Laboratories, Inc. for subsequent analysis.

#### *General Findings*

The work area is located on the ground floor of the 1929 Pavilion and impacts existing bathrooms, locker rooms and a staff lounge. Renovations include the removal of walls, ceilings and floor systems.

#### *Sample Collection*

When collecting samples of suspect building materials for asbestos analysis, the MDEP requires collection and analysis of a minimum number of samples per homogeneous building materials. The building materials sampled were homogenous.

#### *Analytical Method*

The method used to analyze the bulk samples collected during this survey were the AHERA protocols set forth by Federal and State Regulations (EPA Title 40 CFR Part 763 and the State of Maine Chapter 425 Asbestos Management Regulations) of polarized light microscopy (PLM) with dispersion staining. The samples were analyzed by Schneider Laboratories, Inc. of Richmond, Virginia, which is certified to perform asbestos sample analysis by both the American Industrial Hygiene Association (AIHA) and the National Voluntary Laboratory Accreditation Program (NVLAP). Analytical results are presented in **Appendix A**.

## Section II

### Observations & Findings

MES reviewed the work area and identified suspect ACM materials that would be potentially impacted by the planned renovation project. MES collected bulk samples of suspect ACM in accordance with MDEP regulations.

Suspect materials were identified and sampled during this field survey. The findings are as follows:

#### *Floor Systems*

**Asbestos floor tile and floor adhesive is present.**

#### *Wall Systems*

No asbestos was detected.

#### *Ceiling Systems*

No asbestos was detected.

#### *Mechanical Systems*

**Asbestos containing pipe insulation located in wall cavities is assumed positive, consistent with similar projects in this building.**

#### *Hidden Materials*

As with any facility asbestos study conducted in an occupied building certain assumptions as to the exact locations or quantities of hidden or inaccessible asbestos building materials must be considered.

The area may contain hidden or inaccessible asbestos building materials within the envelope of the building, which may include, asbestos pipe cover/mudded fittings and other types of asbestos building or mechanical materials.

Additional destructive sampling should be considered or a qualified person in identifying asbestos materials should be on-site during the demolition phase of the project.

## Section III

### Survey Limitations

As with any scientific study, there are certain assumptions that are made and certain limitations to the scope of information that can be derived. Some restrictions on the conduct of the survey are imposed by outside sources while others are established through the designed scope methodology of the study. As with any facility asbestos survey, it is subject to a variety of limitations and restrictions. Limitations that should be considered in the interpretations of the results of this survey include the following:

- A. Asbestos surveys may not be able to identify all ACM present throughout a facility. A thorough study should be capable of identifying approximately 95% of accessible (by non-destructive methods) ACM present. **The pipe insulation located in wall cavities was not addressed.**
- B. Cost figures used in developing abatement costs are estimated, based on historical information. These costs should be considered as estimates and used for budgetary purposes only. For cost projections in future years, an adjustment that takes into account inflation and the state of abatement industry should be considered.
- C. The inspection protocols used for this project were in accordance with US EPA and MDEP protocols specific to asbestos sampling and evaluations.
- D. Limitations to the scope of the survey can result from limited access to hidden materials and areas. For example, multiple layers of materials or structural components may restrict access to suspect materials thus affecting the thoroughness of the survey. In most cases an asbestos survey is limited to accessible suspect materials with some minor demolition.
- E. In some cases MES may recommend that analysis of suspect materials be conducted with the use of scanning electron microscopy since small amounts of asbestos can be difficult to detect with visual Polarized Light Microscopy.



STATE OF MAINE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JOHN ELIAS BALDACCI  
GOVERNOR

DAVID P. LITTELL  
COMMISSIONER

November 30, 2006

Attn.: Alex McCarthy, Owner  
**McCarthy Environmental Services**  
PO Box 481  
Belgrade Lakes, Maine 04918

Dear Mr. McCarthy:

This letter is in reference to your renewal application for licensure as an **Asbestos Consultant (Full)**.

This office has received and completed the review of your application and finds it to be in accordance with the requirements of Maine Asbestos Management Regulations Chapter 425, effective May 29, 2004.

Your application has been approved and your firm is licensed to provide asbestos consulting service(s) as described on the enclosed certificate.

Your renewal license number remains at **SF-0067** which is in effect for one year and will expire on November 30, 2007. A renewal application should be filed not less than thirty (30) days prior to expiration of this licensure. Thank you for your continued service to the people of the State of Maine.

If you have any questions please call me at (207) 287-7751.

Sincerely,

Sandra J. Moody, Environmental Technician  
Division of Solid Waste Management  
Bureau of Remediation and Waste Management

Enclosure

Renewal/sjm

AUGUSTA  
17 STATE HOUSE STATION  
AUGUSTA, MAINE 04333-0017  
(207) 287-7688 FAX: (207) 287-7826  
RAY BLDG., HOSPITAL ST.

BANGOR  
106 HOGAN ROAD  
BANGOR, MAINE 04401  
(207) 941-4570 FAX: (207) 941-4584

PORTLAND  
312 CANCO ROAD  
PORTLAND, MAINE 04103  
(207) 822-6300 FAX: (207) 822-6303

PRESQUE ISLE  
1235 CENTRAL DRIVE, SKYWAY PARK  
PRESQUE ISLE, MAINE 04769-2094  
(207) 764-0477 FAX: (207) 760-3143



State of Maine  
Department of Environmental Protection

**LICENSE**

**McCarthy Environmental Services**

**Asbestos Consultant**

**(Full)**

License Number: **SF-0067**

Expiration Date: **11/30/2007**



STATE OF MAINE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JOHN ELIAS BALDACCIO

DAVID P. LITTELL

GOVERNOR

COMMISSIONER

April 25, 2007

**McCarthy Environmental Services**  
PO Box 481  
Belgrade Lakes, Maine 04918

Dear Licensee:

Asbestos application(s) for individual certification of the **one** employee(s) listed below have been received and **approved**. Individual certification numbers are listed below and wallet card(s) are enclosed. Card(s) are property of the individual to whom each is issued. Your responsibility as a licensee is to ensure delivery of the cards to persons in your employment. This letter should be retained for your company files as record of certification.

**Remember**, in Maine all **certified employees** working on an asbestos abatement project, whether conducting removal/repair, air monitoring, design, inspection, or analysis functions, **must work for a State of Maine licensed asbestos firm** and carry his/her wallet card(s) on the job site.

As a reminder, prior to renewing your asbestos certification, the State of Maine **requires** an annual refresher course to be taken before submitting a renewal application. A certificate shall expire one year from the last day of the month from the date of issuance, **or on the last day of the month that the training certificate expires**, whichever is sooner. A listing of training providers is attached and it is your responsibility to ensure you have completed a renewal training course prior to your training expiration date.

All our asbestos forms can be found at <http://www.maine.gov/dep/rwm/asbestos/newupdatedformsasb.htm>. Thank you for your cooperation and your completed application(s).

<u>Name</u>	<u>Category</u>	<u>Certification #</u>	<u>Exp. Date</u>
Alex J. McCarthy	Inspector	AI-0172	03/31/2008

Sincerely,

Sandra J. Moody, Environmental Technician  
Division of Solid Waste Management  
Bureau of Remediation and Waste Management  
Enclosure

AUGUSTA 17 STATE HOUSE STATION AUGUSTA, MAINE 04333-0017 (207) 287-7688 FAX: (207) 287-7826 RAY BLDG., HOSPITAL ST.	BANGOR 106 HOGAN ROAD BANGOR, MAINE 04401 (207) 941-4570 FAX: (207) 941-4584	PORTLAND 312 CANCO ROAD PORTLAND, MAINE 04103 (207) 822-6300 FAX: (207) 822-6303	PRESQUE ISLE 1235 CENTRAL DRIVE, SKYWAY PARK PRESQUE ISLE, MAINE 04769-2094 (207) 764-0477 FAX: (207) 760-3143
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**SCHNEIDER LABORATORIES**

INCORPORATED

2512 W. Cary Street • Richmond, Virginia • 23220-5117  
804-353-6778 • 800-785-LABS (5227) • (FAX) 804-359-1475*Excellence in Service and Technology*

AIHA/ELLAP 100527, NVLAP 101150-0, NYELAP/NELAC 11413, CAELAP 2078, NC 593, SC 93003

**LABORATORY ANALYSIS REPORT**

Asbestos Identification by EPA Method 600/M4/82/020

**ACCOUNT #:** 1683-07-609  
**CLIENT:** McCarthy Environmental Services  
**ADDRESS:** P.O. Box 481  
 Belgrade Lakes, ME 04918  
**PROJECT NAME:** MMC/1929 Pavilio  
**JOB LOCATION:** Ground/Bathrooms  
**PROJECT NO.:** 07174  
**PO NO.:**

**DATE COLLECTED:** 11/13/2007  
**DATE RECEIVED:** 11/14/2007  
**DATE ANALYZED:** 11/14/2007  
**DATE REPORTED:** 11/14/2007

**SampleType:** BULK

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
174-1	29537040	Floor Tile Locker Room		
Layer 1:	Floor Tile/Mastic Brown/Black, Org. Bound/Bituminous Unable to separate individual layers.		3% CHRYSOTILE	97% NON FIBROUS MATERIAL
174-2	29537041	Floor Tile Locker Room		
Layer 1:	Floor Tile Brown, Organically Bound		4% CHRYSOTILE	96% NON FIBROUS MATERIAL
Layer 2:	Mastic Black, Bituminous		6% CHRYSOTILE	94% NON FIBROUS MATERIAL
174-3	29537042	Floor Tile Locker Room		
Layer 1:	Floor Tile Brown, Organically Bound		4% CHRYSOTILE	96% NON FIBROUS MATERIAL

**Total Number of Pages in Report: 3**

Results relate only to samples as received by the laboratory.

Visit [www.slabin.com](http://www.slabin.com) for current certifications.

*Samples analyzed by the EPA Test Method are subject to the limitations of light microscopy including matrix interference. Gravimetric reduction and correlative analyses are recommended for all non-friable, organically bound materials. This method has a reporting limit of 1% or greater. Visual estimation contains an inherent range of uncertainty. This report must not be reproduced except in full with the approval of the lab, and must not be used to claim NVLAP or other gov't agency endorsement.*

Account - Workorder 1683-07-609 (Continued)

Page 2 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
Layer 2:	Mastic Black, Bituminous		5% CHRYSOTILE	95% NON FIBROUS MATERIAL
174-4	29537043	Ceiling Tile Mens Room		
Layer 1:	Ceiling Tile White, Fibrous		None Detected	40% CELLULOSE FIBER 30% MINERAL/GLASS WOOL 20% FOAMED GLASS 10% NON FIBROUS MATERIAL
174-5	29537044	Ceiling Tile Womans Rm		
Layer 1:	Ceiling Tile White, Fibrous		None Detected	40% CELLULOSE FIBER 30% MINERAL/GLASS WOOL 20% FOAMED GLASS 10% NON FIBROUS MATERIAL
174-6	29537045	Ceiling Tile Restroom		
Layer 1:	Ceiling Tile White, Fibrous		None Detected	40% CELLULOSE FIBER 30% MINERAL/GLASS WOOL 20% FOAMED GLASS 10% NON FIBROUS MATERIAL
174-7	29537046	Ceiling Tile Lounge		
Layer 1:	Ceiling Tile White, Fibrous		None Detected	45% CELLULOSE FIBER 30% MINERAL/GLASS WOOL 15% FOAMED GLASS 10% NON FIBROUS MATERIAL
174-8	29537047	Ceiling Tile Locker Room		
Layer 1:	Ceiling Tile White, Fibrous		None Detected	45% CELLULOSE FIBER 30% MINERAL/GLASS WOOL 15% FOAMED GLASS 10% NON FIBROUS MATERIAL
174-9	29537048	Wall Mens Room		
Layer 1:	Wall Plaster Light Gray, Granular		None Detected	3% CELLULOSE FIBER 97% NON FIBROUS MATERIAL

**Total Number of Pages in Report: 3**

Results relate only to samples as received by the laboratory.

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*Samples analyzed by the EPA Test Method are subject to the limitations of light microscopy including matrix interference. Gravimetric reduction and correlative analyses are recommended for all non-friable, organically bound materials. This method has a reporting limit of 1% or greater. Visual estimation contains an inherent range of uncertainty. This report must not be reproduced except in full with the approval of the lab, and must not be used to claim NVLAP or other gov't agency endorsement.*

Account - Workorder 1683-07-609 (Continued)

Page 3 (Continued)

Client Sample No.	SLI Sample/ Layer ID	Sample Identification/ Layer Name	PLM Analysis Results	
			Asbestos Fibers	Other Materials
Layer 2:	Skim Coat White, Granular		None Detected	100% NON FIBROUS MATERIAL
174-10	29537049	Wall Womans Room		
Layer 1:	Wall Plaster Light Gray, Granular		None Detected	2% CELLULOSE FIBER 98% NON FIBROUS MATERIAL
Layer 2:	Skim Coat White, Granular		None Detected	100% NON FIBROUS MATERIAL
174-11	29537050	Ceiling Restroom		
Layer 1:	Wall Plaster Light Gray, Granular		None Detected	<1% CELLULOSE FIBER 100% NON FIBROUS MATERIAL
Layer 2:	Skim Coat White, Granular		None Detected	100% NON FIBROUS MATERIAL
174-12	29537051	Wall Corridor		
Layer 1:	Wall Plaster Light Gray, Granular		None Detected	100% NON FIBROUS MATERIAL
Layer 2:	Skim Coat White, Granular		None Detected	100% NON FIBROUS MATERIAL
174-13	29537052	Wall Restroom		
Layer 1:	Wall Plaster Light Gray, Granular		None Detected	<1% SYNTHETIC FIBER 100% NON FIBROUS MATERIAL

Analyst: **MONA F. TARABAY**Total Number of Pages in Report: **3**

Results relate only to samples as received by the laboratory.

Reviewed By:

  
**Nathaniel Vaughn, Analyst**Visit [www.slabinc.com](http://www.slabinc.com) for current certifications.

*Samples analyzed by the EPA Test Method are subject to the limitations of light microscopy including matrix interference. Gravimetric reduction and correlative analyses are recommended for all non-friable, organically bound materials. This method has a reporting limit of 1% or greater. Visual estimation contains an inherent range of uncertainty. This report must not be reproduced except in full with the approval of the lab, and must not be used to claim NVLAP or other gov't agency endorsement.*



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Submitting Co.

Lab Use Only

1683-07-609

Project Name: mme / 1929 Pavilion  
 Project Location: Ground / Bathrooms  
 Project Number: 07174  
 Purchase Order No.:

Special Instructions [include requests for special reporting or data packages]

STATE WHERE SAMPLES WERE COLLECTED

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)			ORGANICS TESTS and other Analytes
<input type="checkbox"/> Same day*	All samples on form should be of SAME matrix type. Use additional forms as needed.	<input type="checkbox"/> Asbestos Air / Fiber Counts	<input type="checkbox"/> Asbestos Bulk / Asb ID	<input type="checkbox"/> Metals - Total Conc.	NOTE: All samples for organics should be kept at 4°C from collection until testing. Schedule rush analyses in advance. Indicate preservatives added & media type. Indicate analysis method for organics tests.
<input type="checkbox"/> 1 business day*		<input type="checkbox"/> PCM (NIOSH 7400)	<input checked="" type="checkbox"/> PLM (EPA 800, 1982)	<input type="checkbox"/> Lead	
<input type="checkbox"/> 2 business days*	<input type="checkbox"/> Air <input type="checkbox"/> Solid	<input type="checkbox"/> TEM (AHERA)	<input type="checkbox"/> PLM (EPA Point Count)	<input type="checkbox"/> RCRA Metals	Indicate analysis method for organics tests
<input type="checkbox"/> 3 business days*	<input type="checkbox"/> Aqueous <input type="checkbox"/> Waste	<input type="checkbox"/> TEM (EPA Level II)	<input type="checkbox"/> PLM (Qualitative only)		
<input type="checkbox"/> STANDARD (5 bus. days)	<input type="checkbox"/> Bulk <input type="checkbox"/> Wastewater		<input type="checkbox"/> NYELAP 19E.17.4/6		Metals-Extract
<input type="checkbox"/> Standard Full TCPL (11d)	<input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water/Drinking	<b>Miscellaneous Tests</b>	<input type="checkbox"/> CAELAP (EPA Interm)	<input type="checkbox"/> TCLP / Lead	
<input type="checkbox"/> Weekend*	<input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance	Total Dust (NIOSH 0500)	<input type="checkbox"/> TEM (Chatfield)	<input type="checkbox"/> TCLP / RCRA Metals	TCLP / Full (w/ organics)
	<input type="checkbox"/> Oil <input type="checkbox"/> Wipe	Resp. Dust (NIOSH 0600)	<b>FCR ASBESTOS AIR:</b>		
* not available for all tests	<input type="checkbox"/> Faint <input type="checkbox"/> Wipe, Composite	Silica - FTIR (NIOSH 7502)	TYPE OF RESPIRATOR		
Schedule rush organics, metal metals & weekend tests in advance.	<input type="checkbox"/> Sludge <input type="checkbox"/>	Silica - XRD (NIOSH 7500)	USED:		

Sample #	Date Sampled	Time Sampled	Sample Identification (eg. Employee, SSN, Bldg. Material)	Wiped Area (ft <sup>2</sup> )	Type <sup>1</sup> A,B,P,E	Information for Air Samples		Total <sup>4</sup> Ar Vol	# containers
						Time <sup>2</sup> Start Stop	Flow Rate <sup>3</sup> Start Stop		
174-1	11/13/07		Floor tile, locker room						
174-2	11/13/07		Floor tile, locker room						Homogeneous
174-3	11/13/07		Floor tile, locker room						
174-4	11/13/07		ceiling tile, mens room						
174-5	11/13/07		ceiling tile, <del>mens</del> women's room						
174-6	11/13/07		ceiling tile, rest room						Homogeneous
174-7	11/13/07		ceiling tile, lounge						
174-8	11/13/07		ceiling tile, locker room						
174-9	11/13/07		wall, mens room						
174-10	11/13/07		wall, women's room						

Sample Collection & Custody Information

Sampled by (NAME) Alex McLaughlin (SIGNATURE) [Signature] (DATE/TIME) 11/13/07

Relinquished to lab by (NAME) Alex McLaughlin (SIGNATURE) [Signature] (DATE/TIME) 11/13/07

Received in lab by (NAME) [Signature] (SIGNATURE) [Signature] (DATE/TIME) 11-14-07

Unusual Sample Condition Noted: \_\_\_\_\_

Waybill # 8574 4356 6322

Chain of Custody documentation continued internally within lab.

Sample return requested

Ambient temp 23.5 °C

pH 7.1  ICI 1  JRI 1  JS



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Submitting Co. \_\_\_\_\_

11683-07-6091

Project Name: mmc/1929 Pavilion  
 Project Location: Ground/Bathroom Reno  
 Project Number: 07174  
 Purchase Order No.: \_\_\_\_\_

Special Instructions [include requests for special reporting or data packages]

STATE WHERE SAMPLES WERE COLLECTED \_\_\_\_\_

Turn Around Time	Matrix / Sample Type (Select ONE)	Tests / Analytes (Select ALL that Apply)			ORGANICS TESTS and Other Analytes
<input checked="" type="checkbox"/> Same day* <input type="checkbox"/> 1 business day* <input type="checkbox"/> 2 business days* <input type="checkbox"/> 3 business days* <input type="checkbox"/> STANDARD (5 bus. days) <input type="checkbox"/> Standard Full TCLP (10d) <input type="checkbox"/> Weekend* <input type="checkbox"/> _____ <small>*not available for all tests Schedule rush organics, multi metals &amp; weekend tests in advance.</small>	All samples on form should be of SAME matrix type. Use additional forms as needed. <input type="checkbox"/> Air <input type="checkbox"/> Solid <input type="checkbox"/> Aqueous <input type="checkbox"/> Waste <input checked="" type="checkbox"/> Bulk <input type="checkbox"/> Wastewater <input type="checkbox"/> Hi-Vol Filter (PM10) <input type="checkbox"/> Water/Drinking <input type="checkbox"/> Hi-Vol Filter (TSP) <input type="checkbox"/> Compliance <input type="checkbox"/> Oil <input type="checkbox"/> Wipe <input type="checkbox"/> Faint <input type="checkbox"/> Wipe, Composite <input type="checkbox"/> Sludge <input type="checkbox"/> Soil	<b>Asbestos Air / Fiber Counts</b> <input type="checkbox"/> PCM (NIOSH 7400) <input type="checkbox"/> TEM (AHERA) <input type="checkbox"/> TEM (EPA Level II) <input type="checkbox"/> _____ <b>Miscellaneous Tests</b> <input type="checkbox"/> Total Dust (NIOSH 0500) <input type="checkbox"/> Resp. Dust (NIOSH 0600) <input type="checkbox"/> Silica - FTIR (NIOSH 7602) <input type="checkbox"/> Silica - XRD (NIOSH 7500)	<b>Asbestos Bulk / Asb/D</b> <input checked="" type="checkbox"/> PLM (EPA 800, 1982) <input type="checkbox"/> PLM (EPA Point Count) <input type="checkbox"/> PLM (Qualitative Only) <input type="checkbox"/> NYELAP 19E.1/4.6 <input type="checkbox"/> CAELAP (EPA Interim) <input type="checkbox"/> TEM (Chalfield) <input type="checkbox"/> _____ <b>FCR ASBESTOS AIR:</b> TYPE OF RESPIRATOR USED: _____	<b>Metals-Total Conc.</b> <input type="checkbox"/> Lead <input type="checkbox"/> RCRA Metals <input type="checkbox"/> _____ <input type="checkbox"/> _____ <b>Metals-Extract:</b> <input type="checkbox"/> TCLP / Lead <input type="checkbox"/> TCLP / RCRA Metals <input type="checkbox"/> TCLP / Full (w/ organics) <input type="checkbox"/> _____ <input type="checkbox"/> _____	NOTE: All samples for organics should be kept at 4°C from collection until testing. Schedule rush analyses in advance. Indicate preservatives added & media type. Indicate analysis method for organics tests.

Sample #	Date Sampled	Time Sampled	Sample Identification (e.g. Employee, SSN, Bldg. Material)	Wipes		Information for Air Samples				Organics	
				Wiped Area (ft²)	Type <sup>1</sup> A,B,P,E	Time <sup>2</sup> Start Stop		Flow Rate <sup>3</sup> Start Stop		Total <sup>4</sup> Ar Vol	# containers
174-11	11/13/07		ceiling, restroom								
174-12	11/13/07		wall, corridor								
174-13	11/13/07		wall, restroom								
Samples 9-13 Homogeneous											

Sample Collection & Custody Information

Sampled by (NAME) Alex J. McCarty (SIGNATURE) [Signature] (DATE/TIME) 11/13/07  Sample return requested

Relinquished to lab by (NAME) Alex McCarty (SIGNATURE) [Signature] (DATE/TIME) 11/13/07  Ambient temp  Cool \_\_\_\_\_ °C

Received in lab by (NAME) [Signature] (SIGNATURE) [Signature] (DATE/TIME) 11-14-07  pH  Cl  NR [ ] S

Unusual Sample Condition Noted: \_\_\_\_\_

WAYBILL # 85743566322

Chain of Custody documentation continued internally within lab

Page 5/5  
 Nov-14-07 18:36;  
 SCHNEIDER LABS PM  
 1;  
 8043591475  
 8043591475  
 09/24/2007 09:52  
 Sent By: #;

## Appendix B

### Definitions & Regulations

**Abatement:** A range of procedures to control release of fibers from ACM. Abatement options include removal, repair and encapsulation, enclosure or operations and maintenance (O&M) activities.

**Accessible:** In regards to ACM, this means that the material is subject to disturbance by building occupants including custodial or maintenance personnel in the course of their normal activities.

**Accredited:** When referring to a person or a laboratory, this means that such person or laboratory is accredited in accordance with Section 206 of Title II of the Toxic Substances Control Act. Accreditation is given to laboratories that analyze bulk material samples for asbestos and satisfy the proficiency requirements established by the National Institute for Science and Testing (NIST).

**Asbestos:** The term asbestos includes actinolite, amosite, anthophyllite, chrysotile, crocidolite, tremolite, including any of these minerals that have been chemically treated and/or altered.

**Asbestos-Containing Material (ACM):** Material composed of any type and in an amount greater than one percent by volume, either alone or mixed with any fibrous or non-fibrous materials (i.e., surfacing, thermal system insulation and miscellaneous material).

**Friable Asbestos Material:** Material that contains greater than one percent asbestos by weight such that the fibers have been locked in by a bonding agent, coating, binder or other material so that the asbestos will not release fibers in excess of the asbestos control limit during any reasonably appropriate use, handling, storage, transportation or processing.

**Operations and Maintenance (O&M) Program:** A program of work practices designed to maintain undamaged ACM in good condition and to repair ACM and clean up asbestos fibers that may inadvertently be released during fiber release episodes.

**Removal:** The complete removal of ACM from a damaged area, a functional space or a homogeneous area in a building.

**Repair:** Returning damaged ACM to an undamaged condition so as to prevent fiber release.

**Response Action:** A method, including removal, encapsulation and repair, enclosure or O&M, that protects against the release of fibers from friable ACM.

**Routine Maintenance Area:** An area, such as a boiler room or mechanical room that is not normally occupied by non-maintenance individuals and in which maintenance employees or contracted workers regularly conduct maintenance activities.

**Small-Scale Short Duration Project:** Asbestos abatement activities impacting less than three linear feet or three square feet of ACM.

**Surfacing ACM:** Surfacing asbestos-containing material such as spray or trowel applied fireproofing.

**Surfacing Material:** Material that is sprayed on, troweled on or otherwise applied to surfaces. Examples include acoustical plaster on ceilings and fireproofing materials on structural members.

**Thermal System Insulation:** Material in a building applied to pipes, fittings, boilers, breeching, tanks, duct or other components to improve the thermal characteristics of the component by preventing heat loss or gain, or to prevent water condensation.

**Visible Asbestos-Containing Material:** Any quantity of ACM which is visible to the unaided eye, including dust and other types of debris.

## Regulations

### Regulatory Overview

Over the past two decades, the regulatory community has become increasingly aware of the potential hazards of inhaled asbestos fibers. Regulations have been developed by federal, state and local agencies to protect workers and the general public from released asbestos fibers. Department of the federal government responsible for the regulation of asbestos include:

- The US Department of Labor (DOL) through the Occupational Safety and Health Administration (OSHA) has developed two standards designed to protect employees at their work sites. These two standards are the Asbestos Regulations for General Industry (29 CFR 1910.1001) and Asbestos Regulations for the Construction Industry (20 CFR 1926.1101). These OSHA regulations apply only to employees. Employees involved in performing O&M activities who might inadvertently be exposed to asbestos-containing materials during the normal course of their work activities would also be covered by the regulations.
- The US Department of Transportation (DOT) regulates the transport of commercial asbestos and asbestos waste and dictates labeling of waste bags and transport vehicles. The primary responsibility under DOT regulations lies within the waste hauler. However, it is incumbent upon the building owner to determine that waste hauled from its facility is properly bagged and labeled, that the waste arrives at an approved landfill, that a proper manifest is completed and that the hauler is properly licensed to haul asbestos waste.
- The US Environmental Protection Agency (EPA) has promulgated a series of regulations which focus on asbestos issues. Pertinent stipulations in these regulations are as follows:

### Clean Air Act

The EPA regulates asbestos under the National Emission Standards for Hazardous Air Pollutants (NESHAP), which is listed as Section 112 of the Clean Air Act. Under NESHAP, a hazardous pollutant has been defined as “an air pollutant to which no ambient air quality standard is applicable and which, in the judgment of the Administrator, caused or contributes to air pollution which may reasonably be anticipated to result in an increase in mortality or an increase in serious irreversible or incapacitating reversible illness.” The NESHAP program currently regulates arsenic, benzene, beryllium, mercury, radionuclides and vinyl chloride along with asbestos. The purpose of the asbestos NESHAP is to protect the public from exposure to asbestos in the ambient air.

The asbestos NESHAP program pertains primarily to demolition and renovations of buildings containing asbestos building materials. (The asbestos NESHAP also regulates manufacturing and fabricating operations, spray applications of asbestos, waste disposal for asbestos mills, inactive waste disposal sites and established standards for asbestos mills and roadways.) The specific provisions of NESHAP for demolition or renovation of buildings containing asbestos are broken down into categories of notification, work practices, waste hauling and waste disposal.

The building owner would be responsible for compliance with NESHAP regulations primarily during abatement activities. Issues such as work practices, waste hauling and waste disposal are normally specified in the project's plans and specifications, verifying building owner's responsibility.



## **Maine Regulations**

The DEP Asbestos Management Regulations Chapter 425 (effective date of January 14, 2003) defines the minimum work practice requirements for asbestos abatement contractors for any project in excess of three square or three linear feet. The removal of ACM during demolition is discussed in Section 7B (Alternative Work Practice Requirements for Demolition Activities). For removal of these materials under demolition conditions, friable ACM work practices would apply. Abatement work also requires conformance to OSHA regulation 29 CFR, Part 1926.1001. In addition to the mandatory requirements of this regulation, federal OSHA officials regulating Maine asbestos abatement contractors interpret Appendix F, Work Practices and Engineering Controls for Major Asbestos Removal, Renovation and Demolition Operations, as mandatory to abatement work including the traditionally non-friable materials such as roof systems. While stated as “non-mandatory”, OSHA had determined that the standard will apply under their interpretations of “whenever feasible.”

## **Appendix C**

### **Survey Protocol**

The first step in developing a comprehensive facility asbestos management plan is to conduct a building survey to identify the locations and quantities of suspect ACM and to determine to conditions of those materials.

The scope of work for this survey included details of how the survey was to be conducted, the information to be gathered and the form and content of the survey report.

The facility survey was performed by an EPA certified asbestos inspector. The specifics of the survey included the following:

- Review of any existing asbestos survey reports.
- Visually inspecting accessible building areas to determine the location of suspect ACM.
- Samples and evaluating suspect ACM to determine its accessibility and limit the occupancy of the surrounding building area to employees.
- Compiling and reporting survey data by functional area.
- Quantifying homogeneous materials, including both friable and non-friable suspect ACM.
- Gather information during the survey concerning locations, quantities and types of materials.

## **Bulk Sampling Protocol**

During the survey of this facility, bulk samples of suspect ACM were collected for laboratory analysis. The bulk samples were collected and categorized according to the homogeneous building materials by the Inspector/Management Planner. Once suspect homogeneous building materials were identified, bulk samples were collected in accordance with Maine DEP and US EPA protocols. If a single sample of homogeneous material was found to contain asbestos, then that homogeneous material was identified as containing asbestos throughout the area.

Sampling techniques generally involved one of two different sampling procedures. A core-bore sample or sampling by breaking off a representative section of the homogeneous material collected. The samples are then placed in separate containers which are labeled and marked with the sample number and noted on the facility drawing denoting its location. Disposal core-bore devices were used with their individual containers to prevent cross contamination. Other bulk containers used were, but not limited to, whirl-pak bags or plastic film canisters.

Additional bulk sampling information may be found in the bulk sample summary section of this report. Records were researched and documented for the purpose of using previous sampling results as historical sampling data.