

**PRE-DEMOLITION  
ASBESTOS SURVEY**

**5392 STATE ROUTE 19  
AMITY, NEW YORK**

**AUGUST 2011**

**Prepared for:**

**BLADES HOLDING COMPANY, INC.  
P.O. BOX 12  
ARKPORT, NEW YORK 14807**



**Stantec**



**Stantec**

**Stantec Consulting Services Inc.**

61 Commercial Street  
Rochester NY 14614  
Tel: (585) 475-1440  
Fax: (585) 272-1814

August 16, 2011

Mr. Robert Blades  
Blades Holding Company, Inc.  
P.O. Box 12  
Arkport, New York 14807

**Reference: Pre-Demolition Asbestos Survey  
5392 State Route 19  
Town of Amity, New York 14813**

Dear Mr. Blades:

Pursuant to our contractual agreement, Stantec Consulting Services Inc. (Stantec) has completed the attached Pre-Demolition Asbestos Survey for the above referenced property. Copies of this report will need to be forwarded to the appropriate New York State Department of Labor (Asbestos Control Bureau) office and to the local government entity charged with issuing a permit for demolition at least ten (10) days prior to the abatement of confirmed asbestos containing materials. Please do not hesitate to call should any questions arise.

Sincerely,

**STANTEC CONSULTING SERVICES INC.**

Michael P. Storonsky  
Managing Senior Associate  
Tel: (585) 413-5266  
Fax: (585) 272-1814  
Mike.Storonsky@stantec.com

Erin McCormick  
Environmental Engineer in Training  
Tel: (585) 489-1707  
Fax: (585) 272-1814  
erin.mccormick@stantec.com

## TABLE OF CONTENTS

<b><u>Section</u></b>	<b><u>Page</u></b>
1.0 Introduction .....	1
2.0 Methodology .....	2
2.1 Sample Location Planning.....	2
2.2 Sampling Methods.....	2
2.3 Sample Analysis .....	3
3.0 Findings, Conclusions and Recommendations .....	5
4.0 Disclaimer .....	6

### **Figures**

- Figure 1 Site Location Map
- Figure 2 Site Layout and Asbestos Containing Materials Sample Locations
- Figure 3 Sample Locations
- Figure 4 Presumed Homogeneous Locations of SACM-3

### **Tables**

- Table 1 Asbestos Analytical Results
- Table 2 Summary of Asbestos Containing Material

### **Appendices**

- A Industrial Code Rule 56 excerpt
- B New York State Asbestos Certificate
- C Asbestos Laboratory Results and Chain of Custody
- D Photographs of Asbestos Containing Materials

## **1.0 Introduction**

As requested, Stantec Consulting Services Inc. (Stantec) has conducted a pre-demolition asbestos survey of a one-story scale house, a one-story lab building, a two-story control tower, pipe wrap adjacent to empty liquid asphalt storage tanks, the exterior of a boiler located north of the maintenance garage, a one-story oil storage shed, and a one-story maintenance garage, located at 5392 State Route 19 in the Town of Amity, Allegany County, New York. See Figure 1 for a Site Location Map and Figure 2 for the Site Layout. The subject property is improved with a 308± sq. ft. one-story scale house, a 915± sq. ft. one-story lab building, a 144± sq. ft. two-story control tower, a 130± sq. ft. one-story oil storage shed, and a 1,250± sq. ft. one-story maintenance garage. The purpose of Stantec's pre-demolition survey was to inventory suspect asbestos-containing materials (ACMs) prior to the demolition of the scale house, lab building, control tower, oil storage shed, and maintenance garage and the decommissioning/removal of the boiler located north of the maintenance garage, and the asphalt storage tanks with associated piping. The survey did not include destructive sampling, such as of the ASTs, the asphalt plant, the boiler interior, etc. The pre-demolition asbestos survey was performed on July 19, 2011. The pre-demolition survey involved the sampling and quantification of suspect ACMs in accordance with New York State Industrial Code Rule 56 (12 NYCRR Part 56) (see Appendix A).

## **2.0 Methodology**

Prior to sampling for suspect ACM, Stantec visually examined the interior and exterior of the subject buildings.

During this walk through, the location and description of suspect ACMs were recorded. The survey process focused on identifying the following materials:

- (1) Surface treatments: mortar;
- (2) Thermal system insulation (TSI): pipe insulation and boiler insulation; and
- (3) Miscellaneous material: shingles, tar paper, floor tile and associated mastic/adhesive, exterior and interior window caulk, drywall and associated patching compounds, suspended ceiling tiles, mortar, and insulation.

Homogenous sampling areas (areas which are uniform in color, texture, construction/application date, and general appearance) were delineated and the suspect materials were sampled.

### **2.1 Sample Location Planning**

Samples of suspect ACMs were collected in a randomly distributed manner sufficient to determine whether the materials were ACMs or not. Samples were not collected from any homogenous area where the inspector determined that the material was a non-ACM (such as materials that were obviously fibrous glass, foam glass, wood, plastic or rubber). Samples for suspect ACMs were collected using guidelines outlined in NYS Industrial Code Rule 56. Sample identifications and locations are presented in Table 1 and all sample locations are identified on Figure 3.

The asbestos survey also evaluated if original suspect ACMs may have been covered with newer suspect ACMs where evidence indicated the possibility (i.e. floor tile materials).

### **2.2 Sampling Methods**

The area where the suspect ACM sample was to be extracted was moistened (sprayed with water and a surfactant). The sample was extracted using a utility knife or a chisel. Care was taken to penetrate all layers of the material. The sample was then placed in an airtight container and labeled appropriately. The blade, chisel or other tools used to collect the samples were cleaned after each sampling point. Standard chain-of-custody procedures were followed.

Samples for suspect ACM were obtained by a New York State Department of Labor Certified Asbestos Inspector (see Appendix B).

### **2.3 Sample Analysis**

Following collection, the suspect ACM samples were submitted to a New York State Department of Health (NYSDOH) ELAP-accredited (ELAP #10958) laboratory (Paradigm Environmental Services, Inc.) for analysis of asbestos content by Polarized Light Microscopy (PLM), Gravimetric Matrix Reduction (GMR) and/or Transmission Electron Microscopy (TEM). The bulk sample asbestos analytical reports are presented in Appendix C, along with the chain of custody report.

The New York State Department of Health Environmental Laboratory Approval Program (ELAP) has categorized bulk materials in two specific categories:

1. *Friable*: Friable materials are those materials which, when dry, may be crumbled, pulverized or reduced to powder by hand-pressure and includes previously non-friable materials after such previously non-friable materials become damaged to the extent that when dry, it may be crumbled, pulverized or reduced to powder by hand pressure. The analytical procedures used for the analysis of friable materials consisted of Polarized Light Microscopy (PLM) analysis. Following PLM analysis, trace non-friable organically bound materials (NOBs) were then sent for TEM analysis.
2. *Non-friable Organically Bound Materials*: Non-friable organically bound materials (NOBs) refer to a category of non-friable building materials embedded in flexible to rigid asphalt or vinyl materials. The typical types of material that fall within this classification include floor tiles, mastic, asphalt shingles, and roofing materials.

As required by NYSDOH, all NOBs were analyzed using Gravimetric Matrix Reduction (GMR). Following reduction to an ash residue, one of three scenarios occurred:

- If the ash residue was less than one percent of the original weight, the material was assumed non-asbestos and no further testing was required;
- If the ash residue was greater than one percent by weight of the original material, it was then analyzed by PLM, and when the PLM result was greater than one percent asbestos, the material was confirmed asbestos containing and no further testing was required; or

**Stantec**

**5392 STATE ROUTE 19, AMITY, NEW YORK  
PRE-DEMOLITION ASBESTOS SURVEY**

- If the ash residue was greater than one percent by weight of the original material, and, upon PLM analysis, was found to be negative, or less than one percent asbestos, TEM confirmation was performed before this material could be determined to be non-asbestos containing.

### **3.0 Findings, Conclusions and Recommendations**

A summary of suspect ACM samples collected and submitted for analysis is presented in Table 1. Table 1 presents the sample number, material, location, color, and analytical results.

The following suspect ACM sampled by Stantec tested positive for asbestos:

- Caulk, found on some of the exterior window of the scale house (SACM-3);
- Floor tiles and associated mastic, found on the furnace room floor in the scale house (SACM-12a and SACM-12b); and
- Shingles on control tower roof (SACM-23a, SACM-23b, and SACM-23c).

The estimated quantities of the above noted ACM are presented in Table 2. Photographs of the above noted ACM are presented in Appendix D. The locations of suspect ACM that tested positive for asbestos are identified on Figure 2. Figure 4 presents the presumed homogeneous locations for sample SACM-3.

Given the pending demolition of the subject structures, it is required as per Code Rule 56 that the confirmed ACM be properly abated by a licensed asbestos contractor in accordance with local, state, and federal regulations prior to the commencement of any demolition work (see Appendix A). Therefore, reporting to regulatory agencies should be completed a minimum of ten (10) days prior to asbestos abatement and subsequent building demolition. Please note that, although it is acceptable for the building owner's agent to do so, it is ultimately the building owner's responsibility to provide a copy of this Asbestos Pre-Demolition Survey to the appropriate New York State Department of Labor (Asbestos Control Bureau) office.



## **Stantec**

### **5392 STATE ROUTE 19, AMITY, NEW YORK PRE-DEMOLITION ASBESTOS SURVEY**

#### **4.0 Disclaimer**

This report has been prepared for the exclusive use of the client. It is a professional opinion and judgment, dependent upon Stantec's knowledge, information supplied by the present owners of the property or their managers, employees, agents or tenants, and data and information provided by governmental agencies. Stantec warrants only that it provides services in accordance with generally accepted practices in the environmental site assessment field. No other warranty or representation, either expressed or implied, is included or intended as part of its services, proposals, contracts or reports.

Stantec cannot provide guarantees, certifications or warranties that the buildings and equipment are or are not free of environmental impairment without exhaustive sampling programs. Even with such a program, the results from any given sampling location will indicate conditions that apply only at that particular location, and such conditions may not necessarily apply to the building or equipment as a whole.

**TABLE 1**  
**BUILDING MATERIALS SAMPLED BY STANTEC**  
**ASBESTOS ANALYTICAL RESULTS**

**5392 STATE ROUTE 19**  
**TOWN OF AMITY, NEW YORK**

<b>STANTEC SAMPLE #</b>	<b>MATERIAL</b>	<b>LOCATION</b>	<b>COLOR</b>	<b>ANALYTICAL RESULTS</b>
SACM-1	Caulk	Scale house exterior window	White	ND-TEM
SACM-2	Mortar	In between cement blocks of scale house foundation	Gray	ND-PLM
<b>SACM-3</b>	<b>Caulk</b>	<b>Scale house exterior window</b>	<b>White</b>	<b>3.8% Chrysotile Asbestos – PLM</b>
SACM-4	Fire Retardant material	Pipe located on exterior northwest of scale house	Orange	ND-PLM
SACM-5a	Shingle	Scale house roof	Black	ND-TEM
SACM-5b	Shingle	Scale house roof	Black	ND-TEM
SACM-6	Tar paper	Scale house roof	Black	ND-TEM
SACM-7	~1'3" x ~1'3" Ceiling tile	Scale house ceiling	White	ND-TEM
SACM-8	~4' x ~2' Ceiling tile	Scale house ceiling	White	ND-TEM
SACM-9	~4' x ~2' Ceiling Tile	Scale house ceiling	White	ND-TEM

NOTES:

"Trace" – less than 1%

ND - Not Detected

GMR - Gravimetric Matrix Reduction

PLM - Polarized Light Microscopy

TEM - Transmission Electron Microscopy

**Bold** - the laboratory results indicate that the material contains asbestos.

**TABLE 1 (con't)**

<b>STANTEC SAMPLE #</b>	<b>MATERIAL</b>	<b>LOCATION</b>	<b>COLOR</b>	<b>ANALYTICAL RESULTS</b>
SACM-10a	~1' x ~1' Floor tile	Floor in room farthest west in scale house	White	ND-TEM
SACM-10b	~1' x ~1' Floor tile	Floor in room farthest west in scale house	Brown/tan	ND-TEM
SACM-11	House wrap	In between interior and exterior walls of scale house	Black	ND-GMR
<b>SACM-12a</b>	<b>~1.5' x ~1' Floor tile</b>	<b>Furnace room in scale house</b>	<b>Black</b>	<b>11% Chrysotile Asbestos – PLM</b>
<b>SACM-12b</b>	<b>Floor tile mastic</b>	<b>Furnace room in scale house</b>	<b>Brown</b>	<b>5% Chrysotile Asbestos – PLM</b>
SACM-13	Insulation	Scale house attic	Tan	ND-PLM
SACM-14	Mortar	In between cement blocks of lab building	Gray	ND-PLM
SACM-15	Caulk	Lab building exterior window	White	Trace - TEM
SACM-16	~2' x ~4' Ceiling tile	Lab building ceiling	Yellow	ND-PLM
SACM-17	Insulation	Lab building attic	Pink	ND-PLM
SACM-18	Drywall	Lab building wall	Tan	ND-PLM
SACM-19	Mortar	In between cement blocks of control tower	Gray	ND-PLM
SACM-20	Insulation	Wiring insulation in control tower	Gray	ND-PLM
SACM-21	~1' x ~1' Floor tile	Control tower floor (2 <sup>nd</sup> story)	Gray	ND-TEM

NOTES:

“Trace” – less than 1%

ND - Not Detected

GMR - Gravimetric Matrix Reduction

PLM - Polarized Light Microscopy

TEM - Transmission Electron Microscopy

**Bold** - the laboratory results indicate that the material contains asbestos.

**TABLE 1 (con't)**

<b>STANTEC SAMPLE #</b>	<b>MATERIAL</b>	<b>LOCATION</b>	<b>COLOR</b>	<b>ANALYTICAL RESULTS</b>
SACM-22	~4' x ~2' Ceiling tile	Control tower ceiling (2 <sup>nd</sup> story)	Gray	ND-TEM
<b>SACM-23a</b>	<b>Shingle</b>	<b>Control tower roof</b>	<b>Black</b>	<b>26% Chrysotile Asbestos – PLM</b>
<b>SACM-23b</b>	<b>Shingle</b>	<b>Control tower roof</b>	<b>Black</b>	<b>11% Chrysotile Asbestos – PLM</b>
<b>SACM-23c</b>	<b>Shingle</b>	<b>Control tower roof</b>	<b>Black</b>	<b>5.3% Chrysotile Asbestos – PLM</b>
SACM-24	Tar paper	Control tower roof	Black	ND-TEM
SACM-25a	Insulation	Gauges adjacent/south of empty liquid asphalt storage tanks	Black	ND-TEM
SACM-25b	Insulation	Gauges adjacent/south of empty liquid asphalt storage tanks	Tan	ND-PLM
SACM-26a	Tar paper	On/adjacent to pipes south of empty liquid asphalt storage tanks	Black	ND-GMR
SACM-26b	Mastic	On/adjacent to pipes south of empty liquid asphalt storage tanks	White	ND-TEM
SACM-26c	Insulation	On/adjacent to pipes south of empty liquid asphalt storage tanks	White	ND-PLM
SACM-27a	Insulation	Boiler exterior	Black	ND-TEM
SACM-27b	Insulation	Boiler exterior	White	ND-PLM

NOTES:

“Trace” – less than 1%

ND - Not Detected

GMR - Gravimetric Matrix Reduction

PLM - Polarized Light Microscopy

TEM - Transmission Electron Microscopy

**Bold** - the laboratory results indicate that the material contains asbestos.

**TABLE 1 (con't)**

<b>STANTEC SAMPLE #</b>	<b>MATERIAL</b>	<b>LOCATION</b>	<b>COLOR</b>	<b>ANALYTICAL RESULTS</b>
SACM-28	Mortar	In between cement blocks of oil storage shed (adjacent to maintenance garage)	Gray	ND-PLM
SACM-29	Mortar	In between cement blocks of maintenance garage	Gray	ND-PLM
SACM-30	Caulk	Interior maintenance garage window	Gray	ND-TEM
SACM-31	Insulation	Interior maintenance garage walls	Tan	ND-PLM

NOTES:

"Trace" – less than 1%

ND - Not Detected

GMR - Gravimetric Matrix Reduction

PLM - Polarized Light Microscopy

TEM - Transmission Electron Microscopy

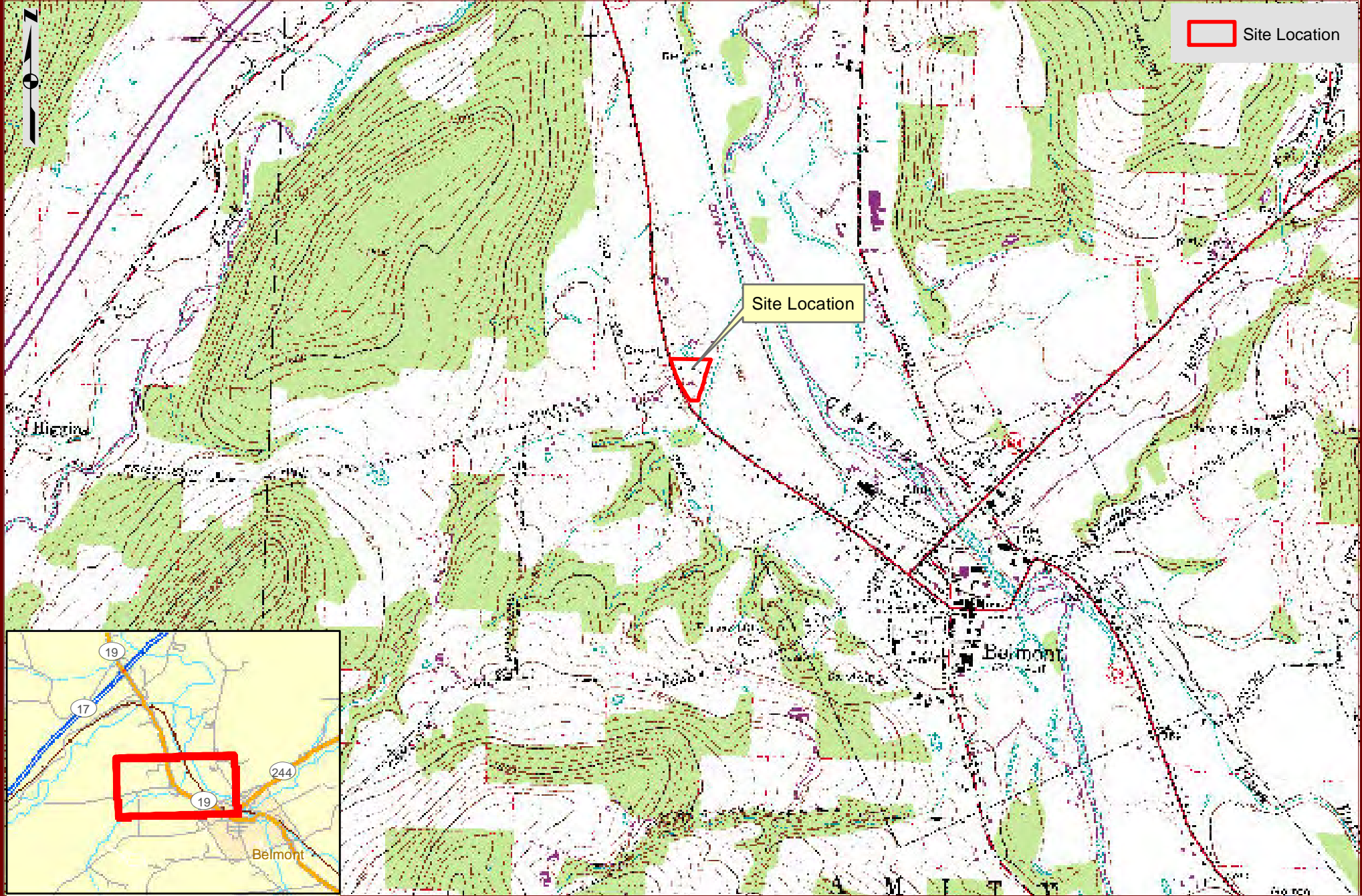
**Bold** - the laboratory results indicate that the material contains asbestos.

**TABLE 2**  
**SUMMARY OF ASBESTOS CONTAINING MATERIALS**  
**5392 STATE ROUTE 19**  
**TOWN OF AMITY, NEW YORK**

<b>STANTEC SAMPLE #</b>	<b>MATERIAL</b>	<b>LOCATION</b>	<b>ESTIMATED QUANTITY*</b>
SACM-3	Caulk	Scale house exterior window	20 <sup>±</sup> linear feet
SACM-12a	~1.5' x ~1' Floor tile	Furnace room in scale house	16.5 <sup>±</sup> square feet
SACM-12b	Floor tile mastic	Furnace room in scale house	16.5 <sup>±</sup> square feet
SACM-23a	Shingle	Control tower roof	144 <sup>±</sup> square feet
SACM-23b	Shingle	Control tower roof	144 <sup>±</sup> square feet
SACM-23c	Shingle	Control tower roof	144 <sup>±</sup> square feet

**\* Estimated Quantities Are Approximate; Contractors Should Field-Verify All Estimated Quantities Prior to the Submission of Cost Estimates or Price Quotations for Abatement**

**Refer to Appendix D for photographs of Asbestos-Containing Materials.**



Geographic Information Systems

Map Source : NYSGIS Clearinghouse Web Site

Cartographic Design By: Andrew Less

August 3, 2011

U:\190500593\drawing\IRM Work Plan Figures\Figure 1\_Site Location Map.mxd



Stantec Consulting  
61 Commercial Street  
Rochester, NY 14614  
Phone 585.475.1440 Fax 585.272.1814  
www.stantec.com  
Copyright 2011

1 inch = 2,000 feet



Allegany Bitumens Belmont Asphalt Plant Site

FIGURE 1 : Site Location Map

Stantec



Stantec Consulting Services Inc.  
 61 Commercial Street  
 Rochester NY U.S.A.  
 14614  
 Tel. 585.475.1440  
 Fax. 585.272.1814  
 www.stantec.com

**Stantec**

Copyright Reserved

The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay.  
 The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Consultants

Legend

Notes

- MAP REFERENCE : INFORMATION ON THIS MAP IS REFERENCED FROM MAP ENTITLED "PLAN OF LANDS OWNED BY: ALLEGANY BITUMENS, INC , SITUATE IN THE TOWN OF AMITY, COUNTY OF ALLEGANY, STATE OF NEW YORK, AND BEING A PORTION OF GREAT LOT # 18, TOWNSHIP #3, RANGE #2 OF THE ROBERT MORRIS RESERVE.
- AERIAL MAPPING OBTAINED FROM THE NEW YORK STATE CLEARINGHOUSE GIS WEB SITE. PHOTO DATED 2007.

ASBESTOS REPORT	EM	SRS	11.08.12
Issued	By	Appd.	YY.MM.DD

File Name: Figure 2 ACMS LOCATIONS MAP			
DWN	CHKD	DSGN	DATE
Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

Project/ Client

**ALLEGANY BITUMENS**  
 BELMONT ASPHALT PLANT

BLADES HOLDING COMPANY, INC.

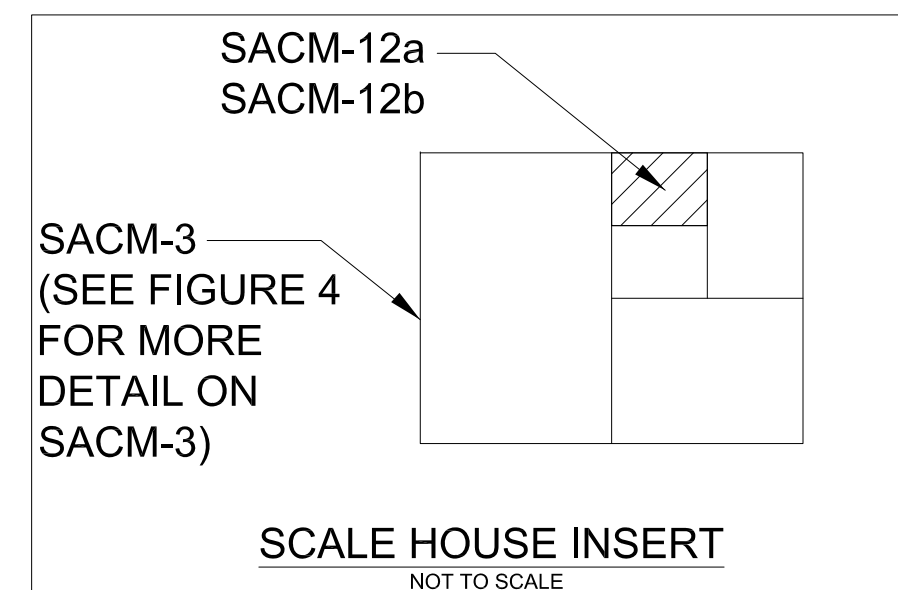
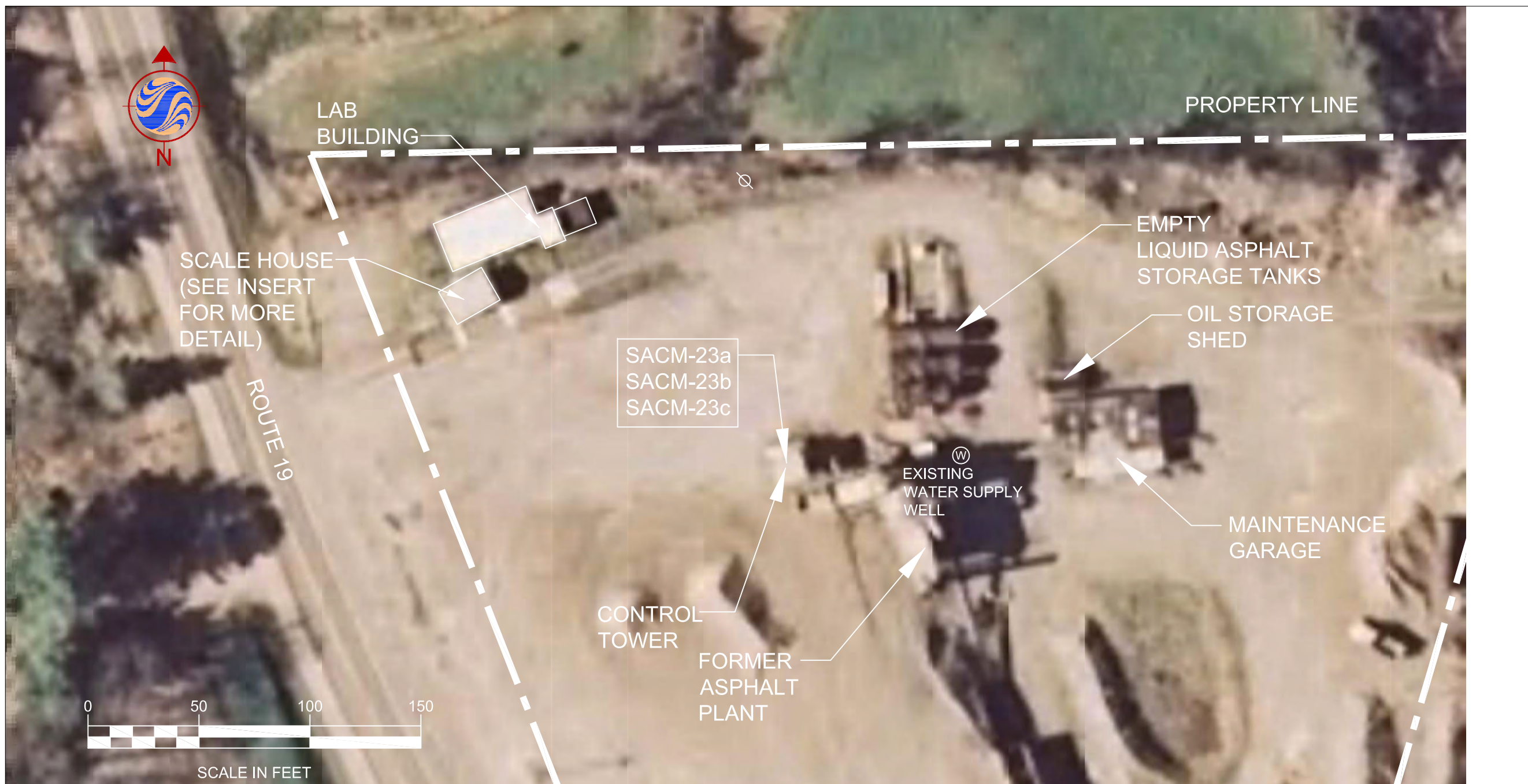
Title

SITE LAYOUT AND ASBESTOS CONTAINING MATERIALS SAMPLE LOCATIONS

Project No.	Scale
190500593	AS SHOWN
Drawing No.	Sheet
	Revision

FIG. 2

of



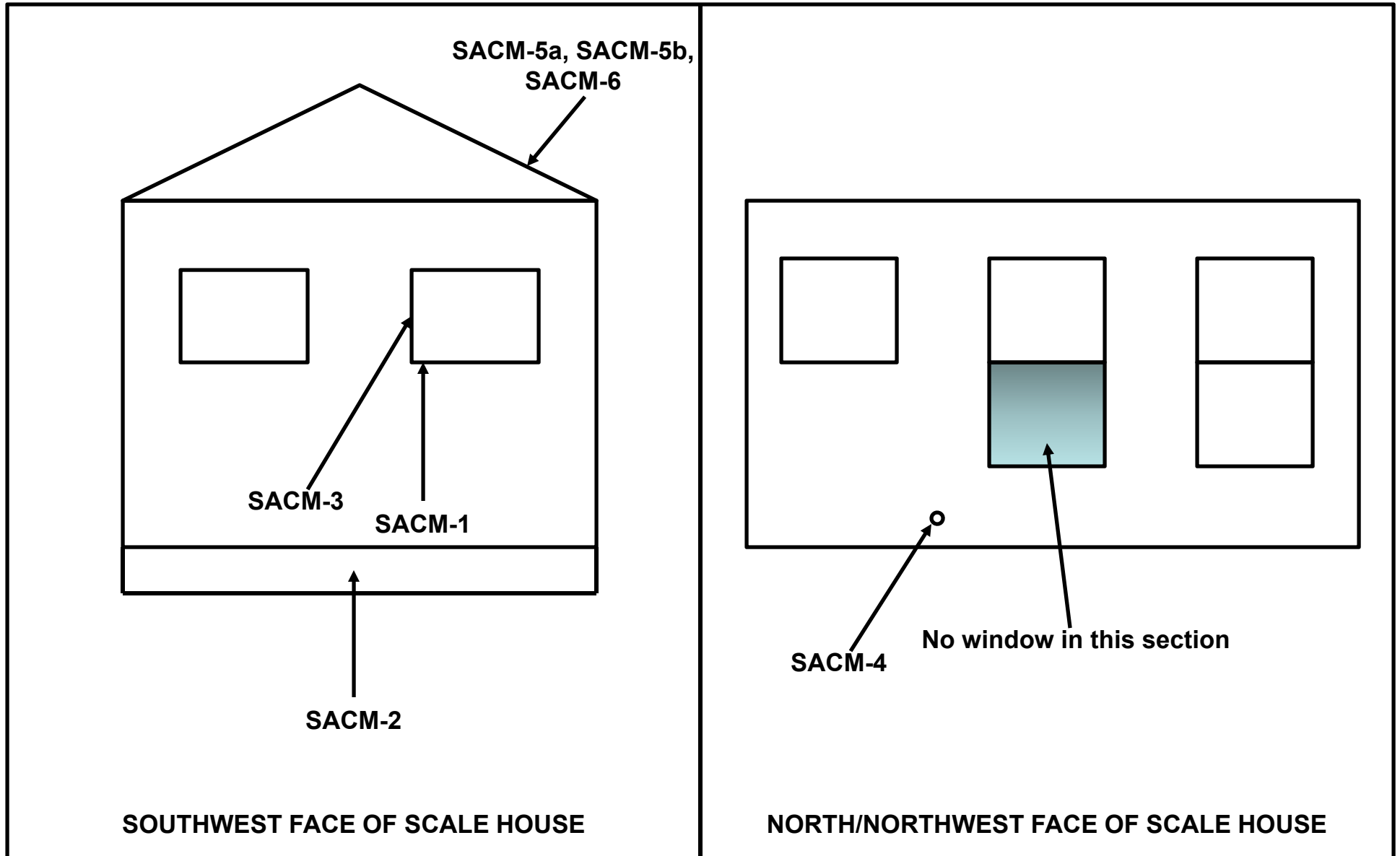
U:\190500593\Drawing\Asbestos Report\Figure 2 ACMS LOCATIONS MAP.dwg  
 2011-08-11 8:08 AM By: user, Andy





**Stantec**

**FIGURE 3  
SAMPLE LOCATIONS  
5392 STATE ROUTE 19  
TOWN OF AMITY, ALLEGANY COUNTY, NEW YORK**

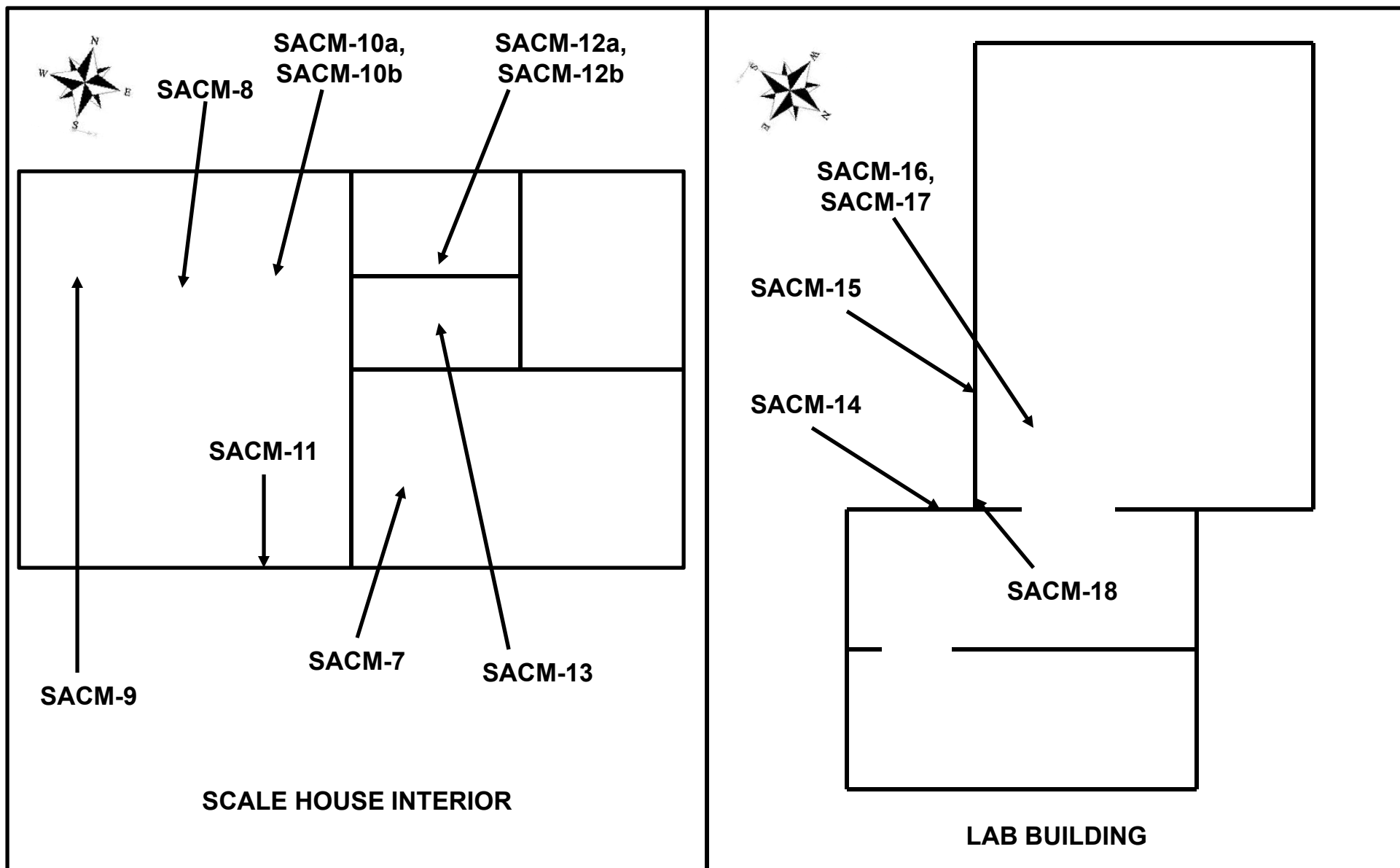


**NOT TO SCALE**



**Stantec**

**FIGURE 3  
SAMPLE LOCATIONS  
5392 STATE ROUTE 19  
TOWN OF AMITY, ALLEGANY COUNTY, NEW YORK**

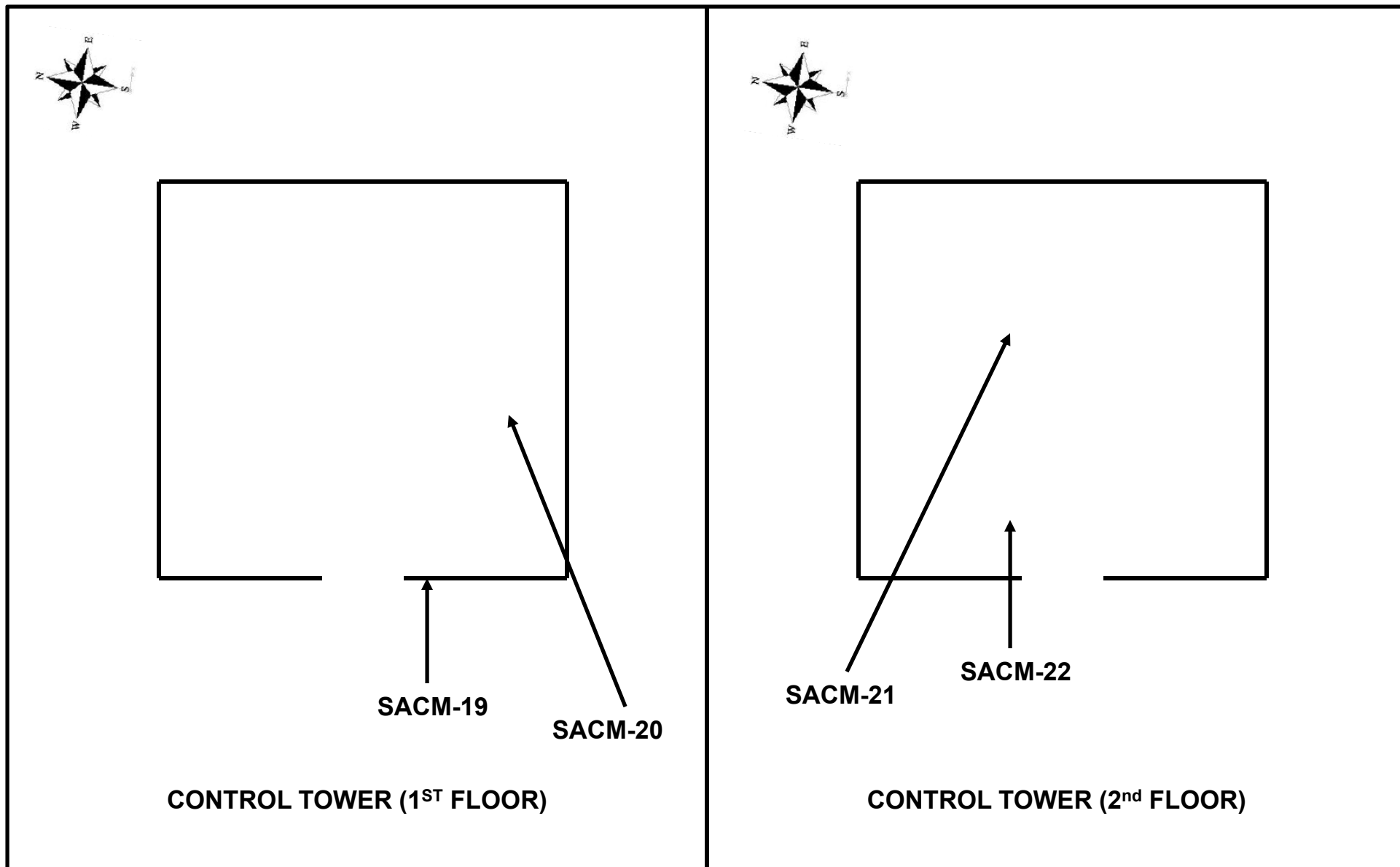


**NOT TO SCALE**



**Stantec**

**FIGURE 3  
SAMPLE LOCATIONS  
5392 STATE ROUTE 19  
TOWN OF AMITY, ALLEGANY COUNTY, NEW YORK**

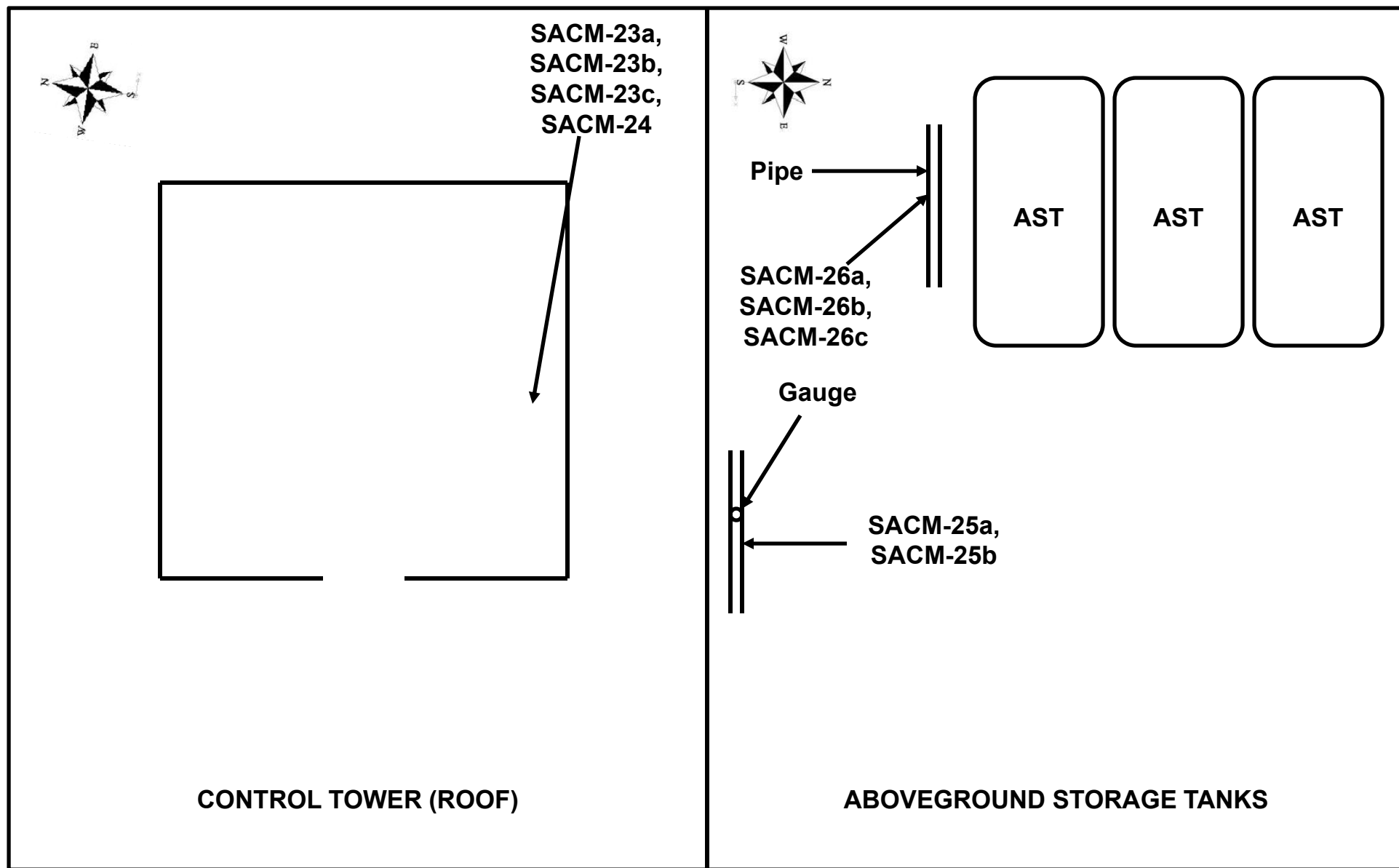


**NOT TO SCALE**



**Stantec**

**FIGURE 3  
SAMPLE LOCATIONS  
5392 STATE ROUTE 19  
TOWN OF AMITY, ALLEGANY COUNTY, NEW YORK**

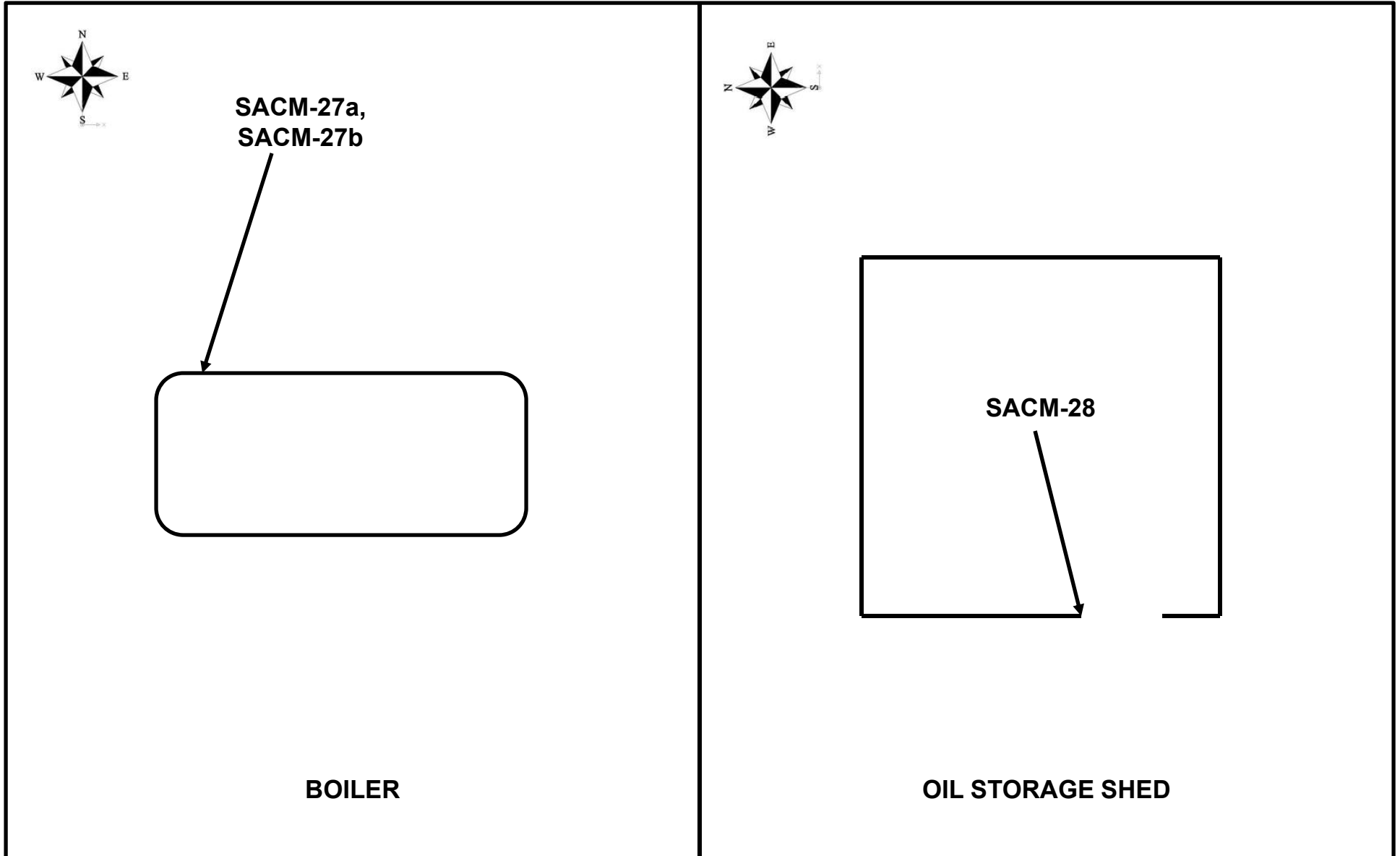


**NOT TO SCALE**



**Stantec**

**FIGURE 3  
SAMPLE LOCATIONS  
5392 STATE ROUTE 19  
TOWN OF AMITY, ALLEGANY COUNTY, NEW YORK**

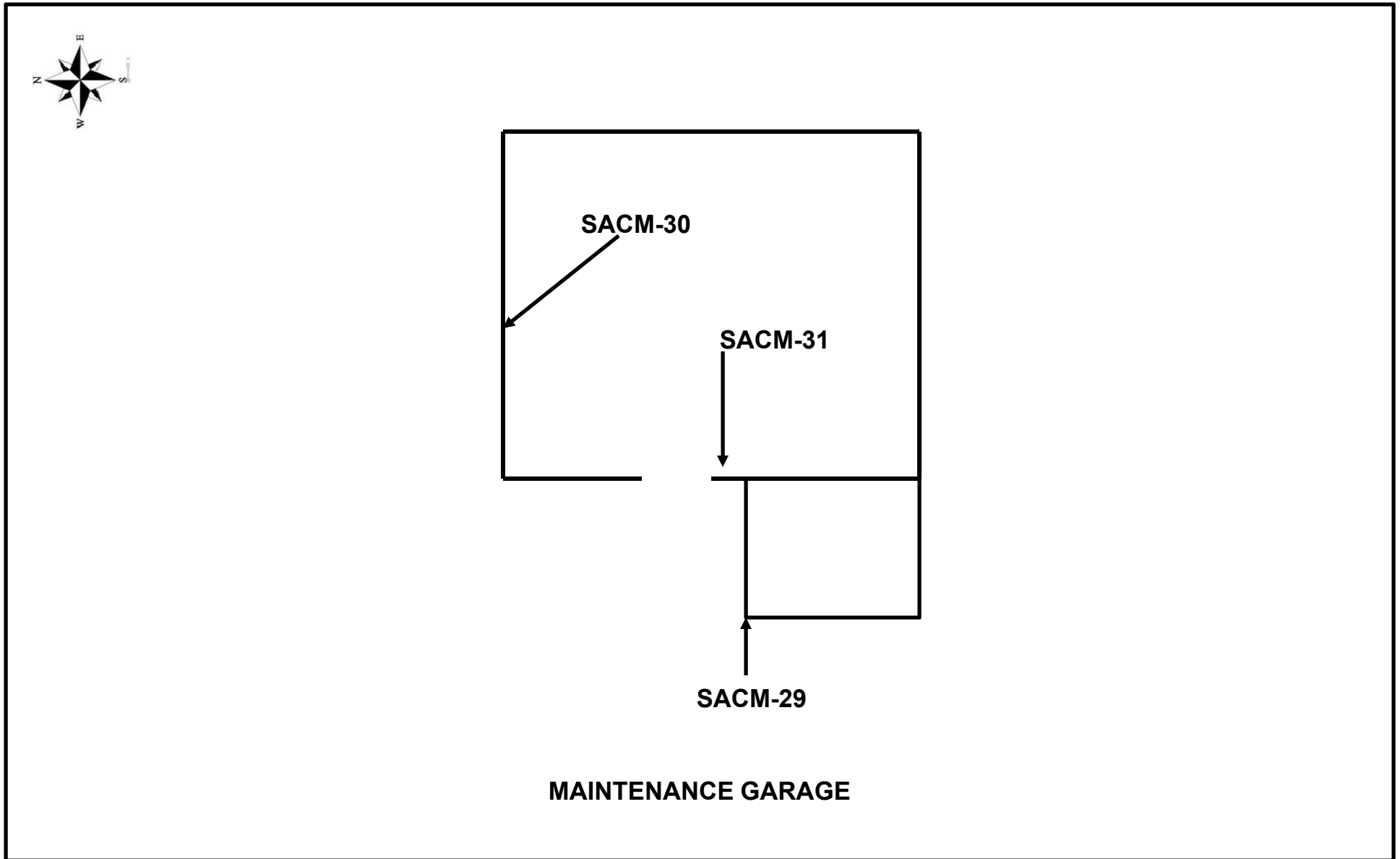


**NOT TO SCALE**



**Stantec**

**FIGURE 3  
SAMPLE LOCATIONS  
5392 STATE ROUTE 19  
TOWN OF AMITY, ALLEGANY COUNTY, NEW YORK**

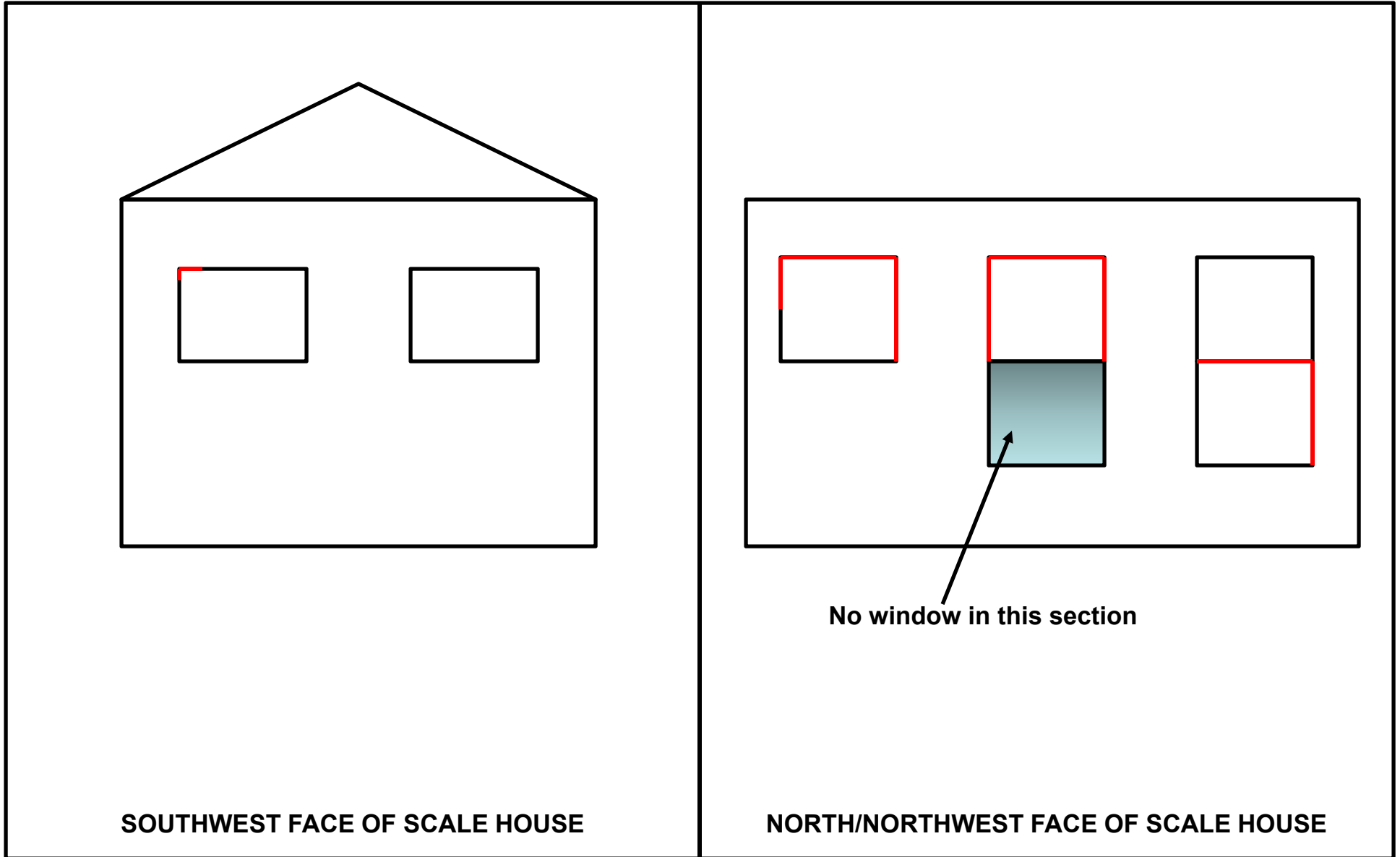


**NOT TO SCALE**



**Stantec**

**FIGURE 4  
PRESUMED HOMOGENEOUS LOCATIONS OF SACM-3  
5392 STATE ROUTE 19  
TOWN OF AMITY, ALLEGANY COUNTY, NEW YORK**



**SOUTHWEST FACE OF SCALE HOUSE**

**NORTH/NORTHWEST FACE OF SCALE HOUSE**

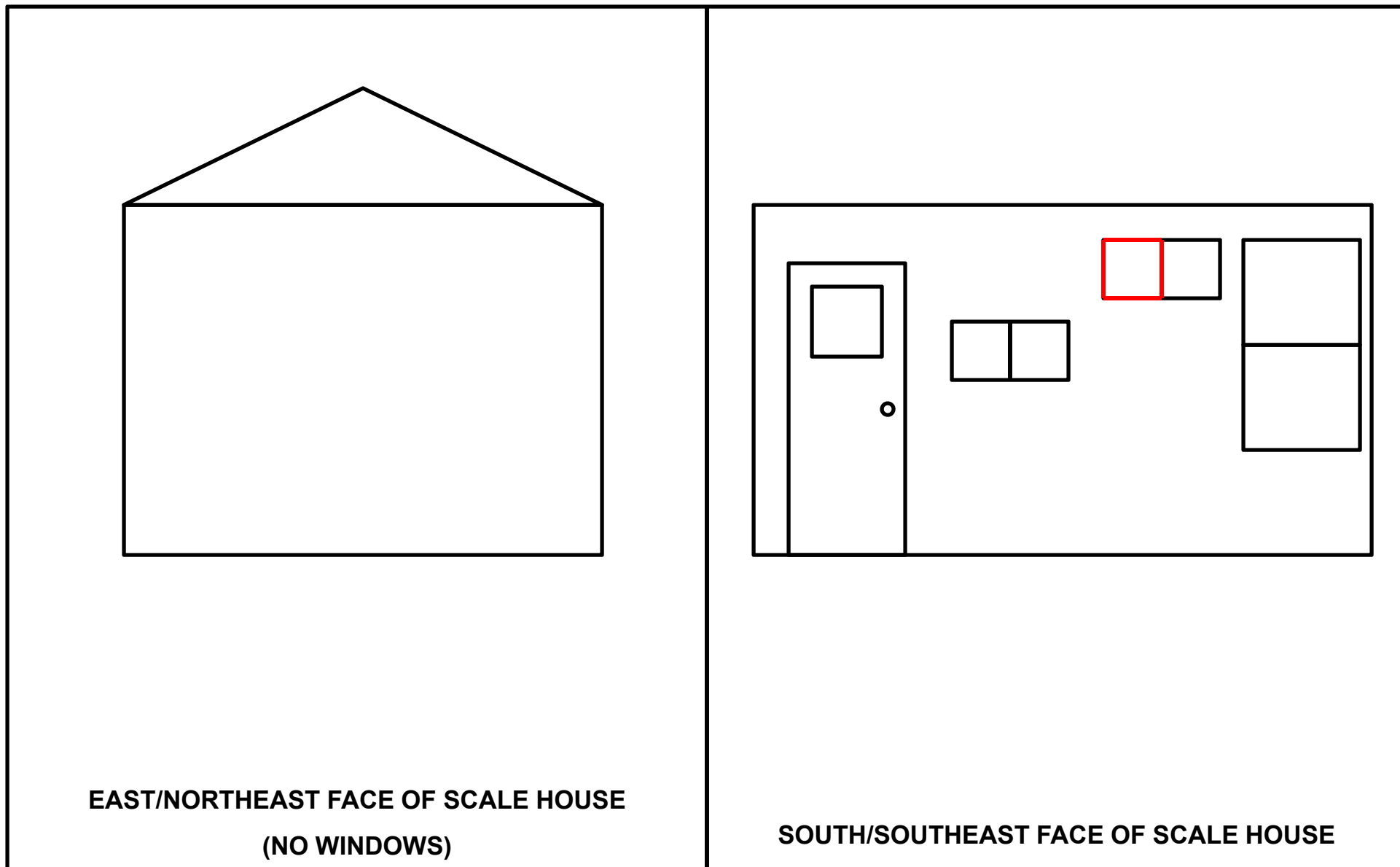
**KEY:  Presumed Homogeneous Locations of SACM-3**

**NOT TO SCALE**



**Stantec**

**FIGURE 4  
PRESUMED HOMOGENEOUS LOCATIONS OF SACM-3  
5392 STATE ROUTE 19  
TOWN OF AMITY, ALLEGANY COUNTY, NEW YORK**



**EAST/NORTHEAST FACE OF SCALE HOUSE  
(NO WINDOWS)**

**SOUTH/SOUTHEAST FACE OF SCALE HOUSE**

**KEY:  Presumed Homogeneous Locations of SACM-3**

**NOT TO SCALE**



# **Appendix A**

**INDUSTRIAL  
CODE RULE**

**56**

**ASBESTOS**

Part 56 of Title 12 of the Official Compilation of Codes,  
Rules and Regulations of the State of New York  
(Cited as 12 NYCRR Part 56)

As Amended  
Effective March 21, 2007



**State of New York  
Department of Labor**

## SUBPART 56-5

### PHASE IA: ASBESTOS SURVEY PLANNING AND DESIGN

#### 56-5.1 Asbestos Survey Requirements for Building/Structure Demolition, Renovation, Remodeling and Repair

- (a) **Asbestos Survey Required.** An owner or an owner's agent, except the owner of one and two-family dwellings who contracts for, but does not direct or control the work, shall cause to be conducted, an asbestos survey completed by a licensed asbestos contractor using inspectors certified in compliance with Section 56-3.2(d), to determine whether or not the building or structure, or portion(s) thereof to be demolished, renovated, remodeled, or have repair work, contains ACM, PACM or asbestos material. This asbestos survey shall be completed and submitted as indicated in Subdivision (g) of this Section, prior to commencing work. All such asbestos surveys shall be conducted in conformance with the requirements of Subdivision (e) of this Section.
- (b) **Exemptions To Asbestos Survey Requirements:** The asbestos survey required by this Subdivision (a) of this Section shall not be required for the following classes of buildings or structures:
- (1) an agricultural building;
  - (2) buildings or structures for which original construction commenced on or after January 1, 1974;
  - (3) A structure certified in writing to be structurally unsound by a licensed Professional Engineer, Registered Architect, Building Inspector, Fire Inspector or other official of competent jurisdiction. (See Section 56-11.5)
- (c) **Building/Structure Demolition.** If a building/structure asbestos survey is not required or performed per Subdivision (b) of this Section, and the building/structure is certified to be unsound or slated for contracted demolition, the building/structure shall be assumed to contain asbestos, and shall be demolished per this Part, unless the building/structure is adequately certified to be free of asbestos containing material. Acceptable documentation for certification shall be a previous thorough building/structure asbestos survey, abatement records or other documentation acceptable to the Commissioner or his or her representative.
- (d) **Responsibility To Comply.** No exemption to the requirement to conduct an asbestos survey shall exempt any person, asbestos contractor, property owner or business entity from the inspection or asbestos survey requirements of EPA, OSHA, and any other applicable section of this Part.

(e) **Building/Structure Asbestos Survey Requirements.** The asbestos survey shall include a thorough inspection for and identification of all PACM, suspect miscellaneous ACM, or asbestos material throughout the building/structure or portion thereof to be demolished, renovated, remodeled, or to have repair work. The required inspection shall be performed by a certified asbestos inspector, and, at a minimum, shall include identification of PACM, suspect miscellaneous ACM or asbestos material by all of the following methods:

- (1) The review of building/structure plans and records, if available, for references to asbestos, ACM, PACM, suspect miscellaneous ACM or asbestos material used in construction, renovation or repair; and
- (2) A visual inspection for PACM and suspect miscellaneous ACM throughout the building/structure or portion thereof to be demolished, renovated, remodeled, or repaired. For the purpose of this Part, all PACM and suspect miscellaneous ACM visually assessed shall be treated and handled as ACM and shall be assumed to be ACM, unless bulk sampling is conducted as per this Section, standard EPA and OSHA accepted methods, including multi-layered systems sampling protocols; the subsequent analyses are performed by a laboratory that meets the requirements of Section 56-4.2 of this Part; and the analyses satisfies both ELAP and federal requirements, including multi-layered sample analyses, to document non-asbestos containing material.

(f) **Building/Structure Asbestos Survey Information.**

(1) The asbestos survey shall, at a minimum, identify and assess with due diligence, the locations, quantities, friability and conditions of all types of installations at the affected portion of the building/structure relative to the ACM, suspect miscellaneous ACM, PACM or asbestos material contained therein. The following list is not inclusive of all types of ACMs, it only summarizes typical ACMs. The certified asbestos inspector is responsible for identification and assessment of all types ACM, PACM, suspect miscellaneous ACM and asbestos material within the affected portion of the building/structure:

(i) PACM

(a) **Surfacing Treatments:**

- (1) Fireproofing;
- (2) Acoustical Plaster;
- (3) Finish Plasters; and
- (4) Skim Coats of Joint Compound.

(b) **Thermal System Insulation:**

- (1) Equipment Insulation;
- (2) Boiler, Breeching, Duct, or Tank Insulation, Cement or Mortar Used for Boilers and Refractory Brick;
- (3) Piping and Fitting Insulations including but not limited to, Wrapped Paper, Aircell, Millboard, Rope, Cork, Preformed Plaster, Job Molded Plaster and coverings over fibrous glass insulation.

(ii) **SUSPECT MISCELLANEOUS ACM**

(a) **Roofing and Siding Miscellaneous Materials:**

- (1) Insulation Board;
- (2) Vapor Barriers;
- (3) Coatings;
- (4) Non-Metallic or Non-Wood Roof Decking
- (5) Felts;
- (6) Cementitious Board (Transite);
- (7) Flashing;
- (8) Shingles; and
- (9) Galbestos.

(b) **Other Miscellaneous Materials:**

- (1) Dust and Debris;
- (2) Floor Tile;
- (3) Cove Base;
- (4) Floor Leveler Compound;
- (5) Ceiling Tile;
- (6) Vermiculite Insulation

- (7) Gaskets, Seals, Sealants (including for condensate control);
- (8) Vibration Isolators;
- (9) Laboratory Tables and Hoods;
- (10) Chalkboards;
- (11) Pipe Penetration Packing or Other Firestopping Materials
- (12) Cementitious Pipe (Transite)
- (13) Cementitious Board (Transite);
- (14) Electrical Wire Insulation;
- (15) Fire Curtains;
- (16) Fire Blankets;
- (17) Fire Doors;
- (18) Brakes and Clutches;
- (19) Mastics, Adhesives and Glues;
- (20) Caulks;
- (21) Sheet Flooring (Linoleum);
- (22) Wallpaper;
- (23) Drywall;
- (24) Plasterboard
- (25) Spackling/Joint Compound;
- (26) Textured Paint;
- (27) Grout;
- (28) Glazing Compound; and
- (29) Terrazzo; and
- (30) Boiler Rope.

- (2) All ACM, PACM, suspect miscellaneous ACM, or asbestos material reported under Paragraph (1) of this Subdivision shall include the location of the materials, an estimate of the quantities, types, friability and condition of the identified materials to be treated and handled as ACM. For the purpose of this Part, all PACM and suspect miscellaneous ACM visually assessed shall be treated and handled as ACM and shall be assumed to be ACM, unless bulk sampling is conducted as per this Section, standard EPA and OSHA accepted methods, including multi-layered systems sampling protocols; the subsequent analyses are performed by a laboratory that meets the requirements of Section 56-4.2 of this Part; and the analyses satisfies both ELAP and federal requirements, including multi-layered sample analyses, to document non-asbestos containing material.
  - (3) The building/structure asbestos survey shall also include the building/structure name, address, the building/structure owner's name and address, the name and address of the owner's agent, the name of the firm performing the asbestos survey and a copy of the firm's current asbestos handling license, the names of the certified inspector(s) performing the survey and a copy of the current asbestos handling certificate for each inspector utilized, the dates of the asbestos survey, a listing of homogeneous areas identifying which ones are ACM, all laboratory analyses reports for bulk samples collected, and copies of the appropriate certifications for the laboratory used for analysis of samples taken during the asbestos survey.
- (g) **Transmittal of Building/Structure Asbestos Survey Information.** One (1) copy of the results of the building/structure asbestos survey shall be immediately transmitted by the building/structure owner as follows:
- (1) One (1) copy of the completed asbestos survey shall be sent by the owner or their agent to the local government entity charged with issuing a permit for such demolition, renovation, remodeling or repair work under applicable State or local laws.
  - (2) The completed asbestos survey for controlled demolition (as per Subpart 56-11.5) or pre-demolition asbestos projects shall also be submitted to the appropriate Asbestos Control Bureau district office.
  - (3) The completed asbestos survey shall be kept on the construction site with the asbestos notification and variance, if required, throughout the duration of the asbestos project and any associated demolition, renovation, remodeling or repair project.
- (h) **Removal Required.** If the building/structure asbestos survey finds that the portion of the building/structure to be demolished, renovated, remodeled, or have repair work contains ACM, PACM, suspect miscellaneous ACM assumed to be

ACM, or asbestos material, which is impacted by the work, the owner or the owner's agent shall conduct, or cause to have conducted, asbestos removal performed by a licensed asbestos abatement contractor in conformance with all standards set forth in this Part. All ACM, PACM, suspect miscellaneous ACM assumed to be ACM, or asbestos material impacted by the demolition, renovation, remodeling or repair project shall be removed as per this Part, prior to access or disturbance by other uncertified trades or personnel. No demolition, renovation, remodeling or repair work shall be commenced by any owner or the owner's agent prior to the completion of the asbestos abatement in accordance with the notification requirements of this Part. For multi-phased work, the access restriction for uncertified trades or personnel applies to each intermediate portion of the entire project. Upon completion of the intermediate portion of the asbestos project, other trades or personnel may access that portion of the work site. For demolition projects that are exempt from asbestos survey requirements due to being structurally unsound, the demolition is considered an asbestos project and shall proceed as per Section 56-11.5.

- (1) All building/structure owners and asbestos abatement contractors on a demolition, renovation, remodeling, or repair project, which includes work covered by this Part, shall inform all trades on the work site about PACM, ACM, asbestos material and suspect miscellaneous ACM assumed to be ACM at the work site.
- (i) **Bidding.** Bids may be advertised and contracts awarded for demolition, remodeling, renovation, or repair work, but no work on the current intermediate portion of the project shall commence on the demolition, renovation, remodeling or repair work by any owner or agent prior to completion of all necessary asbestos abatement work for the current intermediate portion of the entire project, in conformance with all standards set forth in this Part.
- (j) **Unidentified and Unassessed Asbestos.** When any construction activity, such as demolition, remodeling, renovation or repair work, reveals PACM or suspect miscellaneous ACM that has not been identified by the asbestos survey per this Part, or has not been identified by other inspections as per current OSHA or EPA requirements, all activities shall cease in the area where the PACM or suspect miscellaneous ACM is found and the Asbestos Control Bureau shall be notified by telephone by the building/structure owner or their representative, followed with a written notice in accordance with the notification requirements of this Part. Unassessed PACM or suspect miscellaneous ACM shall be treated and handled as ACM and assumed to be ACM, unless proven otherwise by standard EPA and OSHA accepted methods, including multi-layered systems sampling protocols; subsequent analyses performed by a laboratory that meets the requirements of Section 56-4.2 of this Part; and the analyses satisfies both NYS ELAP and federal requirements, including multi-layered sample analyses, to document non-asbestos containing material.



## **Appendix B**

# New York State Department of Health Certificate of Asbestos Safety Training

This form is the official record of successful completion of a New York State accredited asbestos safety training course.

Certificate No. **594663**

## I - To be completed by Trainee

Name of Trainee (print) <u>Erin McCormick</u>	NYS Depart. of Motor Vehicles ID (DMV ID) <sup>1</sup> <u>432 308 499</u>	
Signature of Trainee <u>Erin McCormick</u>	Telephone Number <u>(585) 489-1707</u>	Date of Birth <sup>1</sup> <u>11/12/77</u>
Address <u>61 Commercial St.</u>		
(Street or PO Box)	(City) <u>Rochester</u> (State) <u>NY</u>	(Zip Code) <u>14614</u>

## II - To be completed by Training Sponsor

Provider's Name <b>Environmental Education Associates</b>	Telephone Number <u>716-833-2929</u>
Address <u>346 Austin Street</u> <u>Buffalo, New York 14207</u>	Course Location: <u>300 Airpark Dr., Suite 80</u> <u>Rochester, NY 14624</u>
Zip Code	

Course Title: Asbestos Inspector  Initial  Refresher  NYS DOH use only  
DOH Equivalency<sup>2</sup>

Training Language:  English  Other: \_\_\_\_\_ Exam Grade/Date: 88% / 12-08-10

Dates of Training: From: 12/08/10 To: 12/08/10 Expires: 12/08/11

I certify that the asbestos safety training course given on the above date complied with both 10 NYCRR Part 73 and TSCA Title II, was consistent with the curriculum and instructors approved by the New York State Department of Health, and the trainee receiving this certificate completed the training course and successfully passed the examination.

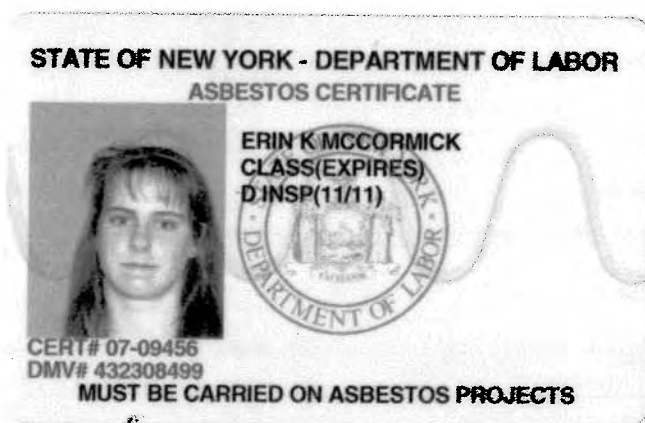
Training Director<sup>2</sup>: Herb Dohr (Print) [Signature] (Signature)

DOH-2832 (10/03)

<sup>1</sup>Optional Information

<sup>2</sup>DOH Equivalency signed by NYS DOH representative only

STUDENT



## **Appendix C**



**PLM & TEM BULK ASBESTOS REPORT**

Client: **Stantec**  
Location: **Blades Asphalt**  
**Belmont, New York**  
Sample Date: **7/19/2011**

Job No: 8173-11  
Page: 1 of 3

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	N O B	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	PLM Matrix Material %
SACM-1	50798	Belmont - SH Window Caulk	White Caulk	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
SACM-2	50799	Belmont - SH Mortar	Gray Mortar	None Detected	0%		Not Required	N/A	None Detected	100%
SACM-3	50800	Belmont - SH Window Caulk	White Caulk	Chrysotile 3.8%	3.8%		Not Required	N/A	None Detected	96.2%
SACM-4	50801	Belmont - Fire Retardant	Orange Fire Retardant	None Detected	0%		Not Required	N/A	None Detected	100%
SACM-5	50802a	Belmont - SH Roof Shingle	Black/White Fibrous Roof Shingle	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	Fiberglass 30%	70%
SACM-5	50802b	Belmont - SH Roof Shingle	Black Fibrous Roof Shingle	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	Fiberglass 30%	70%
SACM-6	50803	Belmont - SH Roof Tar Paper	Black Fibrous Tar Paper	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	Fiberglass 10%	90%
SACM-7	50804	Belmont - SH Ceiling Tile	White Fibrous Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	Cellulose 90%	10%
SACM-8	50805	Belmont - SH Ceiling Tile	White Fibrous Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	Mineral Wool 60% Cellulose 15%	25%
SACM-9	50806	Belmont - SH Ceiling Tile	White Fibrous Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	Mineral Wool 60% Cellulose 20%	20%



Lab Code 200530-0  
for PLM Analysis

ELAP ID No.: 10958

New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.").

✓ NOB (non-friable organically bound) Classified for Analytical Purposes Only.

# denotes material analyzed by ELAP Method 198.4 and 198.6 per NYSDOH.

\*\* Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

PLM Date Analyzed: 7/21/2011

TEM Date Analyzed: 7/27/2011

Microscope: Olympus BH-2 #232953

TEM Analyst: M. Lochner

Analyst: B. Weinman

Laboratory Results Approved By:  
Asbestos Technical Director

Mary Dohr

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and laboratory and analysts' and precision) is available upon request.



**PLM & TEM BULK ASBESTOS REPORT**

Client: Stantec  
Location: Blades Asphalt  
Belmont, New York  
Sample Date: 7/19/2011

Job No: 8173-11  
Page: 2 of 3

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	PLM Matrix Material %
SACM-10	50807a	Belmont - SH Floor Tile	White Floor Tile	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
SACM-10	50807b	Belmont - SH Floor Tile	Brown/Tan Floor Tile	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%

**NVLAP**  
Lab Code 200530-0  
for PLM Analysis

ELAP ID No.: 10958

New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.").

✓ NOB (non-friable organically bound) Classified for Analytical Purposes Only.

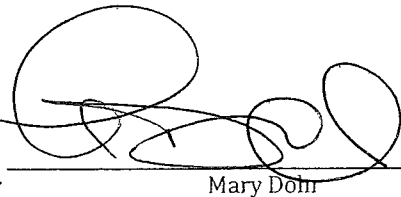
# denotes material analyzed by ELAP Method 198.4 and 198.6 per NYSDOH.

\*\* Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

PLM Date Analyzed: 7/21/2011  
Microscope: Olympus BH-2 #232953  
Analyst: B. Weinman

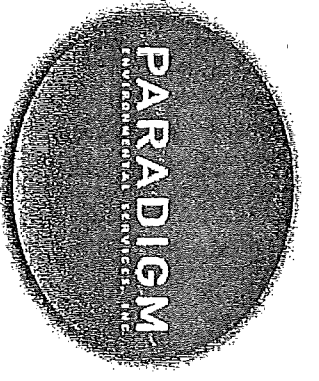
TEM Date Analyzed: 7/27/2011  
TEM Analyst: M. Lochner

Laboratory Results Approved By:  
Asbestos Technical Director



Mary Dolm

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and laboratory and analysts' and precision) is available upon request.



**CHAIN OF CUSTODY FOR PLM/TEM BULK ASBESTOS ANALYSIS**

179 Lake Avenue, Rochester, NY 14608 Office: 585-647-2530 Fax: 585-647-3311

Client:	Stantec	Contact:	Sam Burke
Phone Number:	585-413-5306	Fax Number:	585-272-18114
Results To:	Sam Burke	Turn Around Time:	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> Other
Date Sampled:	7/19/11	Material Type/Quantity:	NOB TEM
Project Location:	Blades Asphalt, Belmont, NY		

<b>OFFICE USE ONLY</b>	
Job #:	8173-11
Page	30 of 3
Date Logged In:	7/20
Logged In By:	[Signature]

Client ID	Lab ID	Sampling Location	Color	Material Size	Type of Material
1	SACM-1	Belmont - SH window caulk	white		caulk
2	SACM-2	Belmont - SH mortar	gray		mortar
3	SACM-3	Belmont - SH window caulk	white		caulk
4	SACM-4	Belmont - Fire retardant	orange		Fire retardant
5	SACM-5	Belmont - SH roof shingle	black		Roof shingle
6	SACM-6	Belmont - SH roof tar paper	black		tar paper
7	SACM-7	Belmont - SH ceiling tile	white		ceiling tile
8	SACM-8	Belmont - SH ceiling tile	white		ceiling tile
9	SACM-9	Belmont - SH ceiling tile	white		ceiling tile
#	SACM-10	Belmont - SH floor tile	white		Floor tile

2313

Sampled By:	Erin McCormick	Date:	7/19/11
Transported to Paradigm By:	Sam Burke	Date:	7/25/11
Received By:	[Signature]	Date:	7/20/11

All samples will be analyzed by the appropriate New York State Department of Health methods (198.1, 198.4 and 198.6) unless other methods are requested.

CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS

or provide TEM contact name:

TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY:



**PLM & TEM BULK ASBESTOS REPORT**

Client: Stantec  
Location: Blades Asphalt  
Belmont, New York  
Sample Date: 7/19/2011

Job No: 8174-11  
Page: 1 of 3

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	PLM Matrix Material %
SACM-11	50808	Belmont - SH House Wrap	Black Fibrous House Wrap	None Detected	0%	✓	<1.0% Residue Remaining. TEM Not Required	N/A	Cellulose 70%	30%
SACM-12	50809a	Belmont - SH Floor Tile	Black Fibrous Floor Tile	Chrysotile 11%	11%	✓	Not Required	N/A	None Detected	89%
SACM-12	50809b	Belmont - SH Floor Tile	Brown Floor Tile Mastic	Chrysotile 5.0%	5.0%	✓	Not Required	N/A	None Detected	95%
SACM-13	50810	Belmont - SH Insulation	Tan Fibrous Insulation	None Detected	0%		Not Required	N/A	Mineral Wool 99% Cellulose <1.0%	1%
SACM-14	50811	Belmont - Lab Mortar	Gray Mortar	None Detected	0%		Not Required	N/A	Cellulose <1.0%	100%
SACM-15	50812	Belmont - Lab Window Caulk	White Caulk	Inconclusive No Asbestos Detected	0%	✓	Trace Chrysotile <1.0%	<1.0%	None Detected	100%
SACM-16	50813	Belmont - Lab Ceiling Tile	Yellow Fibrous Ceiling Tile	None Detected	0%		Not Required	N/A	Fiberglass 98%	2%
SACM-17	50814	Belmont - Lab Insulation	Pink Fibrous Insulation	None Detected	0%		Not Required	N/A	Fiberglass 99% Cellulose <1.0%	1%
SACM-18	50815	Belmont - Lab Drywall	Tan Drywall	None Detected	0%		Not Required	N/A	Cellulose 5%	95%
SACM-19	50816	Belmont - RCB Mortar	Gray Mortar	None Detected	0%		Not Required	N/A	None Detected	100%



Lab Code 200530-0  
for PLM Analysis

ELAP ID No.: 10958

New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.")

✓ NOB (non-friable organically bound) Classified for Analytical Purposes Only.

# denotes material analyzed by ELAP Method 198.4 and 198.6 per NYSDOH.

\*\* Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

PLM Date Analyzed: 7/25/2011

TEM Date Analyzed: 7/26/2011

Microscope: Olympus BH-2 #232953

TEM Analyst: J. Peter Donato

Analyst: J. Peter Donato

Laboratory Results Approved By:  
Asbestos Technical Director

*Fernanda Weirama*  
for Mary Dohr

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and laboratory and analysts' and precision) is available upon request.



**PLM & TEM BULK ASBESTOS REPORT**

Client: **Stantec**  
Location: **Blades Asphalt**  
**Belmont, New York**  
Sample Date: **7/19/2011**

Job No: 8174-11  
Page: 2 of 3

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	N O B	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	PLM Matrix Material %
SACM-20	50817	Belmont - RCB Wiring Insulation	Gray Fibrous Insulation	None Detected	0%		Not Required	N/A	Cellulose 90% Synthetic 5% Fiberglass 2%	3%

**NVLAP**  
Lab Code 200530-0  
for PLM Analysis

**ELAP ID No.: 10958**

New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.").

✓ NOB (non-friable organically bound) Classified for Analytical Purposes Only.

# denotes material analyzed by ELAP Method 198.4 and 198.6 per NYSDOH.

\*\* Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

PLM Date Analyzed: 7/25/2011

TEM Date Analyzed: 7/26/2011

Microscope: Olympus BH-2 #232953

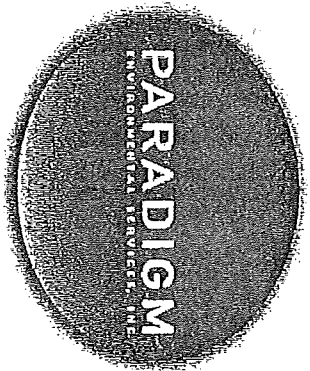
TEM Analyst: J. Peter Donato

Analyst: J. Peter Donato

Laboratory Results Approved By: *Fernanda Weisma*  
Asbestos Technical Director *for* Mary Dohr

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and laboratory and analysts' and precision) is available upon request.





**CHAIN OF CUSTODY FOR P1M/TEM BULK ASBESTOS ANALYSIS**

Client:	Staterc	Contact:	Sam Burke	OFFICE USE ONLY	
Phone Number:	585-413-5306	Fax Number:	585-272-1814	Job #:	8174-11
Results To:	Sam Burke	Turn Around Time:	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 5 <input checked="" type="checkbox"/> Other <input type="checkbox"/>	Page:	35 of 3
Date Sampled:	7/14/11	Material Type/Quantity:	NOB TEM	Date Logged In:	7/20
Project Location:	Blades Asphalt, Belmont, NY			Logged In By:	[Signature]

Client ID	Lab ID	Sampling Location	Color	Material Size	Type of Material
1	SACM-11	50808 Belmont - SH house wrap	black		house wrap
2	SACM-12	809A Belmont - SH Floor tile	black		Floor tile
3	SACM-13	810 Belmont - SH Insulation	tan		insulation
4	SACM-14	811 Belmont - lab mortar	gray		mortar
5	SACM-15	812 Belmont - lab window caulk	white		caulk
6	SACM-16	813 Belmont - lab ceiling tile	yellow		ceiling tile
7	SACM-17	814 Belmont - lab insulation	pink		insulation
8	SACM-18	815 Belmont - lab drywall	tan		drywall
9	SACM-19	816 Belmont - RCB mortar	gray		mortar
#	SACM-20	817 Belmont - RCB wiring insul.	gray		insulation

Sampled By: Erin McComick Date: 7/19/11

Transported to Paradigm By: Sam Burke Date: 7/20/11

Received By: [Signature] Date: 7/20/11

All samples will be analyzed by the appropriate New York State Department of Health methods (198.1, 198.4 and 198.6) unless other methods are requested.

CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS

or provide TEM contact name: \_\_\_\_\_

TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY: **31**

Handwritten notes: 2 of 3 COC, 7/20/11, 6:44



**PLM & TEM BULK ASBESTOS REPORT**

Client: Stantec  
Location: Blades Asphalt  
Belmont, New York  
Sample Date: 7/19/2011

Job No: 8175-11  
Page: 1 of 3

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	PLM Matrix Material %
SACM-21	50818	Belmont - RCB Floor Tile	Gray Floor Tile	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%
SACM-22	50819	Belmont - RCB Ceiling Tile	Gray Fibrous Ceiling Tile	Inconclusive No Asbestos Detected	0%	#	None Detected	<1.0%	Cellulose 60% Mineral Wool 20%	20%
SACM-23	50820a	Belmont - RCB Roof Shingle	White/Black Fibrous Roofing Shingle	Chrysotile 26%	26%	✓	Not Required	N/A	Cellulose 5%	69%
SACM-23	50820b	Belmont - RCB Roof Shingle	Black Fibrous Roofing Shingle	Chrysotile 11%	11%	✓	Not Required	N/A	None Detected	89%
SACM-23	50820c	Belmont - RCB Roof Shingle	Black Roofing Shingle	Chrysotile 5.3%	5.3%	✓	Not Required	N/A	Cellulose 2%	92.7%
SACM-24	50821	Belmont - RCB Roof Tar Paper	Gray Fibrous Tar Paper	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	Cellulose 80%	20%
SACM-25	50822a	Belmont - Gauge Pipe Wrap	Black Fibrous Pipe Wrap	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	Cellulose 60%	40%
SACM-25	50822b	Belmont - Gauge Pipe Wrap	Tan Fibrous Pipe Wrap	None Detected	0%		Not Required	N/A	Mineral Wool 90% Cellulose 5%	5%
SACM-26	50823a	Belmont AST Pipe Wrap	Black Fibrous Tar Paper	None Detected	0%	✓	<1.0% Residue Remaining. TEM Not Required	N/A	Cellulose 70%	30%
SACM-26	50823b	Belmont AST Pipe Wrap	White Mastic	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%



Lab Code 200530-0  
for PLM Analysis

ELAP ID No.: 10958

New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.").

✓ NOB (non-friable organically bound) Classified for Analytical Purposes Only.

# denotes material analyzed by ELAP Method 198.4 and 198.6 per NYSDOH.

\*\* Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

PLM Date Analyzed: 7/25/2011

TEM Date Analyzed: 7/26/2011

Microscope: Olympus BH-2 #232953

TEM Analyst: J. Peter Donato

Analyst: J. Peter Donato

Laboratory Results Approved By:  
Asbestos Technical Director

for Mary Dohr

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and laboratory and analysts' and precision) is available upon request.



**PLM & TEM BULK ASBESTOS REPORT**

Client: Stantec  
Location: Blades Asphalt  
Belmont, New York  
Sample Date: 7/19/2011

Job No: 8175-11  
Page: 2 of 3

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	PLM Matrix Material %
SACM-26	50823c	Belmont - AST Pipe Wrap	White Fibrous Pipe Wrap	None Detected	0%		Not Required	N/A	Mineral Wool 98% Cellulose <1.0%	2%
SACM-27	50824a	Belmont - Boiler Insulation	Black Fibrous Boiler Insulation	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	Cellulose 30% Fiberglass 2%	68%
SACM-27	50824b	Belmont - Boiler Insulation	White Fibrous Insulation	None Detected	0%		Not Required	N/A	Mineral Wool 99% Cellulose <1.0%	1%
SACM-28	50825	Belmont - Oil Shed Mortar	Gray Mortar	None Detected	0%		Not Required	N/A	None Detected	100%
SACM-29	50826	Belmont - Garage Mortar	Gray Mortar	None Detected	0%		Not Required	N/A	Cellulose <1.0%	100%
SACM-30	50827	Belmont - Garage Window Caulk	Gray Caulk	Inconclusive No Asbestos Detected	0%	✓	None Detected	<1.0%	None Detected	100%



Lab Code 200530-0  
for PLM Analysis

ELAP ID No.: 10958

New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.").

✓ NOB (non-friable organically bound) Classified for Analytical Purposes Only.

# denotes material analyzed by ELAP Method 198.4 and 198.6 per NYSDOH.

\*\* Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

PLM Date Analyzed: 7/25/2011

TEM Date Analyzed: 7/26/2011

Microscope: Olympus BH-2 #232953

TEM Analyst: J. Peter Donato

Analyst: J. Peter Donato

Laboratory Results Approved By:  
Asbestos Technical Director

*Mary Dohr*  
Mary Dohr

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and laboratory and analysts' and precision) is available upon request.



**CHAIN OF CUSTODY FOR PLM/TEM BULK ASBESTOS ANALYSIS**

Client:	Staterc	Contact:	Sam Burke
Phone Number:	585-413-5306	Fax Number:	585-272-1814
Results To:	Sam Burke	Turn Around Time:	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> Other
Date Sampled:	7/19/11	Material Type/Quantity:	NOB TEM
Project Location:	Blades Asphalt, Belmont NY		

Client ID	Lab ID	Sampling Location	Color	Material Size	Type of Material
1	SACM-21	50818 Belmont - RCB Floor tile	gray		Floor tile
2	SACM-22	819 Belmont - RCB ceiling tile	gray		ceiling tile
3	SACM-23	820 <sup>ABC</sup> Belmont - RCB roof shingle	black		roof shingle
4	SACM-24	821 Belmont - RCB roof tarp paper	gray		tarp paper
5	SACM-25	822 <sup>A</sup> Belmont - gauge pipe wrap	black		pipewrap
6	SACM-26	823 <sup>ABC</sup> Belmont - AST pipe wrap	black/white		pipe wrap
7	SACM-27	824 <sup>AB</sup> Belmont - boiler insulation	white		insulation
8	SACM-28	825 Belmont - oilshed mortar	gray		mortar
9	SACM-29	826 Belmont - garage mortar	gray		mortar
#	SACM-30	827 Belmont - garage window caulk	gray		caulk

Client Mailing Address:	61 Commercial St Rochester, NY 14614		
Client ID	Lab ID		
Sampled By:	Erin McCosmick	Date:	7/19/11
Transported to Paradigm By:	Sam Burke	Date:	7/20/11
Received By:	<i>[Signature]</i>	Date:	7/20/11

**OFFICE USE ONLY**

Job #: 8175-11  
 Page: 3 of 3  
 Date Logged In: 7/20  
 Logged In By: *[Signature]*

All samples will be analyzed by the appropriate New York State Department of Health methods (198.1, 198.4 and 198.6) unless other methods are requested.  
 CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS   
 or provide TEM contact name: \_\_\_\_\_  
 TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY:

Faxed 7/27/11 6:44



**PLM & TEM BULK ASBESTOS REPORT**

**Client:** Stantec  
**Location:** Blades Asphalt  
 Belmont, New York  
**Sample Date:** 7/19/2011

**Job No:** 8176-11  
**Page:** 1 of 2

Client ID	Lab ID	Sampling Location	Description	PLM Asbestos Fibers Type & Percentage	PLM Total Asbestos	NOB	TEM Asbestos Fibers Type & Percentage	TEM Total Asbestos	PLM Non-Asbestos Fibers Type & Percentage	PLM Matrix Material %
SACM-31	50828	Belmont - Garage Insulation	Tan Fibrous Insulation	None Detected	0%		Not Required	N/A	Mineral Wool 98%	2%



Lab Code 200530-0  
for PLM Analysis

**ELAP ID No.: 10958**

New York State Department of Health, ELAP Method 198.1, 198.4 and 198.6 ("Polarized Light Microscopy and Transmission Electron Microscopy Methods for Identifying and Quantitating Asbestos in Bulk Samples and in Non-Friable Organically Bound Bulk Samples.")

√ NOB (non-friable organically bound) Classified for Analytical Purposes Only.

# denotes material analyzed by ELAP Method 198.4 and 198.6 per NYSDOH.

\*\* Polarized-light microscopy is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Quantitative transmission electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing.

PLM Date Analyzed: 7/25/2011

TEM Date Analyzed: N/A

Microscope: Olympus BH-2 #233173

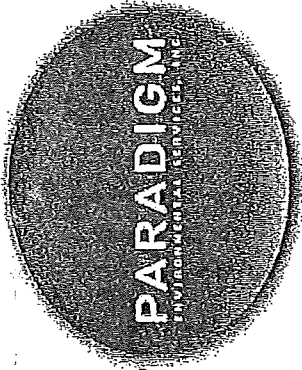
TEM Analyst: N/A

Analyst: F. Weinman

**Laboratory Results Approved By:**  
**Asbestos Technical Director**

Mary Dohr

Paradigm Environmental Services, Inc. is not responsible for the data supplied by an independent inspector. National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested. This report must not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. Quality control data (including 95% confidence limits and laboratory and analysts' and precision) is available upon request.



**CHAIN OF CUSTODY FOR PLM/TEM BULK ASBESTOS ANALYSIS**

Client: <u>staterc</u>	Contact: <u>Sam Burke</u>	OFFICE USE ONLY
Phone Number: <u>585-413-5306</u>	Fax Number: <u>585-272-1814</u>	Job #: <u>8176-11</u>
Results To: <u>Sam Burke</u>	Turn Around Time: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> Other	Page: <u>2</u> of <u>2</u>
Date Sampled: <u>7/19/11</u>	Material Type/Quantity: <u>TEM</u>	Date Logged In: <u>7/20</u>
Project Location: <u>Blades Asphalt, Belmont, NY</u>	Friable <input type="checkbox"/> NOB <input type="checkbox"/> TEM <input type="checkbox"/>	Logged In By: <u>[Signature]</u>

Client Mailing Address: <u>61 Commercial St Rochester, NY 14614</u>	Lab ID: <u>50828</u>	Sampling Location: <u>Belmont - garage insulation</u>	Material Size:	Type of Material: <u>insulation</u>

Client ID	Lab ID	Sampling Location	Color	Material Size	Type of Material
1	SACM-31	Belmont - garage insulation	tan		insulation
2					
3					
4					
5					
6					
7					
8					
9					
#					

All samples will be analyzed by the appropriate New York State Department of Health methods (198.1, 198.4 and 198.6) unless other methods are requested.

CHECK TO AUTOMATICALLY PERFORM TEM ON NOBS

or provide TEM contact name:

TOTAL NUMBER OF SAMPLES ON ALL CHAINS OF CUSTODY: 31

Sampled By: <u>Erin McCormick</u>	Date: <u>7/19/11</u>
Transported to Paradigm By: <u>Sam Burke</u>	Date: <u>7/20/11</u>
Received By: <u>[Signature]</u>	Date: <u>7/20/11</u>

Faxed 7/20/11

## **Appendix D**



**Stantec**

**5392 STATE ROUTE 19  
TOWN OF AMITY, ALLEGANY COUNTY, NEW YORK**



**SACM-3**



**SACM-12a (SACM-12b located below SACM-12a)**

**Photo 1:  
Confirmed asbestos containing building material –  
window caulk.**

**Photo 2:  
Confirmed asbestos containing building material –  
floor tile and associated adhesive mastic.**





**Stantec**

5392 STATE ROUTE 19  
TOWN OF AMITY, ALLEGANY COUNTY, NEW YORK

SACM-23a, SACM-23b, and SACM-23c



**Photo 3:**  
Confirmed asbestos containing building material – shingles.

SACM-23a, SACM-23b, and SACM-23c



**Photo 4:**  
Confirmed asbestos containing building material – shingles.