Asbestos Building Materials Assessment

House 891 Boundary Street Prescott ON



Prepared for: United Counties of Leeds & Grenville 100-25 Central Avenue West Brockville ON K6V 4N6

Prepared by: Stantec Consulting Ltd. 400-1331 Clyde Avenue Ottawa ON K2C 3G4

Project No.: 122150275

February 15, 2017

Table of Contents

EXECL	JTIVE SUMI	MARY	11
1.0	INTRODUC	CTION	1
2.0 2.1		NS Project-Specific Limitations Information from Previous Reports	2
3.0	REGULATO	ORY FRAMEWORK	3
4.0 4.1 4.2	FACILITY I	DESCRIPTION NT REVIEW	4
5.0 5.1 5.2 5.3 5.4 5.5	FRIABLE A NON-FRIA PRESUME NON-ASB	SBESTOS-CONTAINING MATERIALS ABLE ASBESTOS-CONTAINING MATERIALS D ASBESTOS-CONTAINING MATERIALS ESTOS-CONTAINING MATERIALS L FOR VERMICULITE INSULATION	5 5 6
6.0	RECOMM	ENDATIONS	6
7.0	CLOSURE		7
LIST O	F APPENDI	CES	
APPEN	IDIX A	SUMMARY OF RESULTS FOR ANALYSIS OF BULK SAMPLES FOR ASBESTOS CONTENT	
APPEN	IDIX B	LABORATORY ANALYTICAL REPORTS – ASBESTOS: POLARIZED LIGHT MICROSCOPY	
APPEN	IDIX C	SUMMARY OF OCCURRENCES OF ASBESTOS-CONTAINING MATERIALS	
APPEN	IDIX D	SELECTED SITE PHOTOGRAPHS	



Executive Summary

Stantec Consulting Ltd. (Stantec) was commissioned by the United Counties of Leeds & Grenville (Leeds Grenville) to conduct an Asbestos Building Materials Assessment of the house (subject building), located at 891 Boundary Street in Prescott, Ontario.

The purpose of the assessment was to assist Leeds Grenville to meet the requirements of Ontario Regulation 278/05 Designated Substance - Asbestos on Construction Projects and in Buildings and Repair Operations, as amended (O. Reg. 278/05), made under the Occupational Health and Safety Act (OHSA). The assessment includes the identification of building materials suspected to be asbestos-containing materials (ACMs) that may require special attention during the operation of the building.

The assessment is intended for the long term management of asbestos-containing building materials to be included as part of an overall Asbestos Management Program (AMP) and not for construction or renovation purposes. Intrusive inspections and additional testing of suspect ACMs and presumed asbestos-containing materials (PACMs) may be required to complement the information provided in this report if any work activities are planned which may disturb ACMs and/or PACMs.

The work was carried out in accordance with the requirements of the OHSA. The site work was conducted by Will Madden-Macavelia on January 10, 2017.

Based on the visual assessment and laboratory analysis, ACMs were identified to be present in the form of:

- Duct insulation paper wrap (friable); and,
- Drywall joint-fill compound (non-friable).

The duct insulation paper wrap was observed to be in poor condition in the basement. The remaining materials were observed to be in good condition.

The following building materials were observed to be present but not sampled, and are listed as PACMs:

- Exterior window and door caulking white;
- Brick mortar;
- Roof caulking; and,
- Roofing materials.

Stantec

These materials were observed to be in good condition. These materials were not sampled to preserve their integrity. As these materials are known to have been manufactured with asbestos, they should be presumed to be asbestos-containing unless proven otherwise by laboratory analysis.

The statements made in this Executive Summary text are subject to the same limitations included in this report, and are to be read in conjunction with the remainder of this report.

Recommendations pertaining to the handling, removal, disposal and management of identified asbestos-containing materials are provided within this report.



February 15, 2017

1.0 INTRODUCTION

Stantec Consulting Ltd. (Stantec) was commissioned by the United Counties of Leeds & Grenville (Leeds Grenville) to conduct an Asbestos Building Materials Assessment of the house (subject building), located at 891 Boundary Street in Prescott, Ontario.

The purpose of the assessment was to assist Leeds Grenville to meet the requirements of Ontario Regulation 278/05 Designated Substance - Asbestos on Construction Projects and in Buildings and Repair Operations, as amended (O. Reg. 278/05), made under the Occupational Health and Safety Act (OHSA). The assessment includes the identification of building materials suspected to be asbestos-containing materials (ACMs) that may require special attention during the operation of the building.

The assessment is intended for the long term management of asbestos-containing building materials to be included as part of an overall Asbestos Management Program (AMP) and not for construction or renovation purposes. Intrusive inspections and additional testing of suspect ACMs and presumed asbestos-containing materials (PACMs) may be required to complement the information provided in this report if any work activities are planned which may disturb ACMs and/or PACMs.

The work was carried out in accordance with the requirements of the OHSA. The site work was conducted by Will Madden-Macavelia on January 10, 2017.

2.0 SCOPE

The scope of work for this assessment involved the following:

- A review of existing information, including site drawings, previous assessment and/or abatement documentation and discussions with site personnel, where available;
- A visual assessment of readily accessible areas for the presence of asbestos-containing building materials;
- The collection of representative bulk samples from building materials suspected of containing asbestos fibres;
- Submission of samples collected for laboratory analysis; and,
- Evaluation and interpretation of field findings and laboratory analytical results to develop conclusions and recommendations pertaining to the management of ACMs and PACMs identified within the building.

Stantec



February 15, 2017

2.1 LIMITATIONS

This report reflects the observations made within accessed areas and the results of analyses performed on specific materials sampled during the assessment. Analytical results reflect the sampled materials at the specific sample locations.

Concealed spaces were assessed via existing access panels, where present. Interior and exterior finishes, solid ceilings, walls, flooring and structural elements were not removed to access concealed areas. An inaccessible area, where ACMs may be present includes, but is not limited to: ceiling spaces, wall cavities, crawlspaces, and buried materials.

Due to limitations on the agreed to scope of work for this project as well as physical limitations in accessing concealed areas and limitations associated with working in occupied/operational spaces, there are specific limitations to the information that can be provided for each suspect ACM or PACM considered in this assessment. The presence and asbestos content of some building materials could not be confirmed.

Building materials that may contain asbestos but were not accessible for sampling include, but are not limited to the following:

- Roofing materials;
- Sub-grade materials (e.g., asbestos cement drainage pipe);
- Flooring material concealed beneath carpeting, ceramic tile, brickwork, hardwood flooring, and/or concealed beneath existing sub-floors;
- Insulation material present inside walls (e.g., suspected asbestos-containing vermiculite insulation inside concrete block and/or brick walls);
- Drywall and/or wall plaster and associated finish materials concealed behind new and/or additional walls;
- Woven tape inside duct connection joints;
- Mechanical (e.g., piping and ducting) insulation within wall cavities, crawlspaces tunnels or other concealed spaces;
- Insulation materials inside fire doors;
- Window and door glazing compounds;
- Heating, ventilation and air conditioning (HVAC) units mechanical inner linings and/or inner ducting insulation; and,
- Heat protection materials inside mechanical installations and light fixtures.

2.1.1 Project-Specific Limitations

It should be noted that the following materials were reported by Leeds Grenville to have been removed and replaced within with last three (3) years:

- 12"x12" vinyl floor tiles beige with beige flecks in the units throughout; and,
- Vinyl sheet flooring beige in the unit washrooms.

Stantec

February 15, 2017

The following areas were not accessed, for the reasons indicated:

• Roof (no access).

2.1.2 Information from Previous Reports

Stantec was not provided with previous reports for review.

3.0 REGULATORY FRAMEWORK

Asbestos is included in the *Ontario Regulation*, 490/09 Designated Substances, as amended (O. Reg. 490/09) made under Ontario's OHSA, which primarily regulates worker exposure to asbestos during manufacturing of asbestos-containing products, but also includes requirements related to respiratory equipment, measurement of airborne fibres, and medical surveillance of exposed workers.

Ontario Regulation 278/05 clearly defines ACM as a material that contains 0.5 per cent or more asbestos by dry weight. Additionally, the regulation requires that the "record" (i.e., the Asbestos Building Materials Assessment) be updated at least once in each 12 month period or whenever the owner of the facility becomes aware of new information relating to the suspect and confirmed ACMs.

The general waste management regulation for the province of Ontario is R.R.O. 1990, Regulation 347 General - Waste Management, as amended (R.R.O. 1990, 347), under the Environmental Protection Act (EPA) of Ontario, sets out the requirements for the proper disposal of asbestos waste in Ontario. The waste must be placed in a double sealed container, properly labeled, free of cuts, tears or punctures and disposed of at a licensed waste station which has been properly notified of the presence of asbestos waste.

4.0 ASSESSMENT METHODOLOGY

Asbestos-containing materials are grouped into two classifications, friable and non-friable materials. Friable ACMs are those that can easily be crumbled or broken apart by mere hand pressure. When these materials break apart asbestos fibres are then released into the atmosphere. Non-friable ACMs or "manufactured products" are materials that by the nature of their manufacturing/construction do not readily allow the release of asbestos fibres. These materials should not be cut or shaped with power tools, since this procedure may allow for the release of the asbestos fibres. Some non-friable materials such as plaster, drywall and ceiling tiles are considered to be non-friable in an undisturbed state, but can release fibers when damaged or disturbed.

Stantec

February 15, 2017

It is Stantec's understanding that the subject building was constructed before 1990. This construction time period is consistent with those dates when asbestos-containing building materials were commonly used.

A visual assessment of accessible areas was undertaken in order to check for the presence of materials suspected of containing asbestos. Locations to collect discrete bulk asbestos samples of suspect building materials were identified. Samples of representative materials were then collected at these locations. An assessment of the condition and accessibility was completed for each occurrence of an ACM. The Public Works and Government Services Canada (PWGSC) document entitled *Deputy Ministers Directive 057 – Asbestos Management* (Last Revised June 16, 1999) was used as the basis for the criteria that was applied in evaluating the presence of ACMs and PACMs within the subject building, where applicable.

Samples of suspect ACMs from various building materials were collected and submitted to Paracel Laboratories Ltd. (Paracel) located in Ottawa, Ontario for analysis using Polarized Light Microscopy (PLM) with dispersion staining. The analysis was conducted following the U.S. EPA/600/R-93/116 Method. Paracel is certified under the National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos analysis of bulk samples. Asbestoscontaining materials are defined as a material that contains 0.5 per cent or more asbestos by dry weight.

A positive stop option was used. Multiple samples of visually similar material were collected and submitted for laboratory analysis. Once one sample within the set is identified to contain asbestos, further analysis of the subsequent samples is deemed to be unnecessary and not conducted.

4.1 FACILITY DESCRIPTION

The house located at 891 Boundary Street is two (2) bedroom, one (1) level building with a full basement and attic. The reported construction date of the building is 1940. The typical structural components and finished associated with this building consist of vinyl siding, various types of flooring including concrete, and vinyl floor tiles and interior concrete and drywall walls with drywall ceilings.

4.2 DOCUMENT REVIEW

Stantec was not provided with previous reports for review.

5.0 FINDINGS

A summary list of the bulk samples collected by Stantec, including a description of the material, sampling location, type of analysis and laboratory test results is provided in **Appendix A**. A copy



February 15, 2017

of the PLM Laboratory Certificates of Analysis for bulk samples collected is provided in **Appendix B**.

A summary of occurrences of ACMs and/or PACMs is provided in **Appendix C**. Each ACM occurrence includes the following information:

- Room component that contains ACM;
- Location of the ACM within the room space;
- ACM description;
- Estimated quantity;
- Original sample number or representative sample number;
- Friability;
- Condition; and,
- Comments regarding recommended actions.

Selected site photographs are provided in **Appendix D**.

5.1 FRIABLE ASBESTOS-CONTAINING MATERIALS

Friable building materials were observed to be present and identified by laboratory analysis to be asbestos-containing in the form of:

Duct insulation paper wrap; and,

The duct insulation paper wrap was observed to be in poor condition (torn and frayed on 3 ducts) in the basement. The remaining materials were observed to be in good condition.

5.2 NON-FRIABLE ASBESTOS-CONTAINING MATERIALS

Non-friable building materials were observed to be present and identified by laboratory analysis to be asbestos-containing in the form of:

Drywall joint-fill compound.

This material was observed to be in good condition. It should be noted that drywall joint-fill compound is considered non-friable is its undisturbed state but can release fibers when damaged.

Project No.: 122150275

5



February 15, 2017

5.3 PRESUMED ASBESTOS-CONTAINING MATERIALS

The following building materials were observed to be present but not sampled, and are listed as PACMs:

- Exterior window and door caulking white;
- Brick mortar:
- Roof caulking; and,
- Roofing materials.

These materials were observed to be in good condition. These materials were not sampled to preserve their integrity. As these materials are known to have been manufactured with asbestos, they should be presumed to be asbestos-containing unless proven otherwise by laboratory analysis.

5.4 NON-ASBESTOS-CONTAINING MATERIALS

It should be noted that the following materials were reported by Leeds Grenville to have been removed and replaced within with last three (3) years:

- 12"x12" vinyl floor tiles beige with beige flecks in the units throughout; and,
- Vinyl sheet flooring beige in the unit washrooms.

A summary list of the bulk samples collected during this assessment and confirmed to be non-ACMs by laboratory analysis is provided in **Appendix A**.

5.5 POTENTIAL FOR VERMICULITE INSULATION

Based on building construction vermiculite is not suspected to be present.

6.0 RECOMMENDATIONS

Stantec recommends the following with regards to meeting the requirements of O. Reg. 278/05:

- Damaged asbestos-containing duct insulation paper wrap, should be repaired following
 Type 2 procedures;
- Asbestos-containing materials that may be impacted during renovation and/or demolition activities should be removed prior to the renovation and/or demolition activities;
- Prior to renovation and/or demolition activities that would disturb them, undertake testing of PACMs that may be impacted to determine their asbestos content. Confirmed asbestos materials should be handled accordingly;

Stantec

February 15, 2017

- Should a material suspected to contain asbestos fibres become uncovered during renovation and/or demolition activities, all work in the areas that may disturb the material should be stopped. Samples of the suspect material should be submitted for laboratory analysis to determine if asbestos fibres are present. Confirmed asbestos materials should be handled accordingly; and,
- This report should be added to the Asbestos Management Program and referred to as the current asbestos record.

7.0 CLOSURE

This report has been prepared for the sole benefit of United Counties of Leeds & Grenville. The report may not be used or relied upon by any other person or entity without the express written consent of Stantec Consulting Ltd. and United Counties of Leeds & Grenville.

Any uses that a third party makes of this report, or any reliance on decisions based on it, are the responsibility of such third parties. Stantec Consulting Ltd. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted engineering and scientific practices current at the time the work was performed. Conclusions presented in this report should not be construed as legal advice.

The conclusions presented in this report represent the best technical judgment of Stantec Consulting Ltd. based on the data obtained from the work. The conclusions are based on the site conditions encountered by Stantec Consulting Ltd. at the time the work was performed at the specific assessment and/or sampling locations, and can only be extrapolated to an undefined limited area around these locations. The extent of the limited area depends on building construction and conditions, weather, building usage and other factors. Due to the nature of the investigation and the limited data available, Stantec Consulting Ltd. cannot warrant against undiscovered environmental liabilities.

If any conditions become apparent that differ significantly from our understanding of conditions as presented in this report, we request that we be notified immediately to reassess the conclusions provided herein.

We trust that the above is satisfactory for your purposes at this time. Should you have any questions or concerns, or require additional information, please do not hesitate to contact the undersigned at your convenience.

Stantec

February 15, 2017

This report was prepared by Victoria Pereira and reviewed by Michael Shortt and Martin Ling.

Regards,

STANTEC CONSULTING LTD.

Linda Fleet

Project Manager Phone: (905) 415-6368 Fax: (905) 474-9889 Linda.Fleet@stantec.com Martin Ling

Senior Reviewer Phone: (905) 415-6386 Fax: (905) 474-9889 martin.ling@stantec.com

Nicole Flanagan, M.A.Sc., P.Eng

V Jicole Flanagan

Associate

Phone: (613) 738-6086 Fax: (613) 722-2799

nicole.flanagan@stantec.com

VP/MS/ML/aek

Stantec

Appendix A Summary of Results for Analysis of Bulk Samples for Asbestos Content February 15, 2017

Appendix A Summary of Results for Analysis of Bulk Samples for Asbestos Content



Summary of Bulk Sample Analysis for Asbestos Type and Content

Sample Number Sampling Location		Description of Sampled Material	Asbestos Type and Content	Analysis	
891-BS-01A	Basement Stairwell Wall	Drywall Joint-Fill Compound	1% Chrysotile	PLM	
891-BS-01B	Basement Stairwell Wall	Drywall Joint-Fill Compound	Positive Stop (Not Analyzed)	PLM	
891-BS-01C	Basement Stairwell Wall	Drywall Joint-Fill Compound	Positive Stop (Not Analyzed)	PLM	
891-BS-01D	First Floor - Northwest Bedroom Wall	Drywall Joint-Fill Compound	Positive Stop (Not Analyzed)	PLM	
891-BS-01E	First Floor - Northwest Bedroom Wall	Drywall Joint-Fill Compound	Positive Stop (Not Analyzed)	PLM	
891-BS-01F	Basement Stairwell Wall	Drywall Joint-Fill Compound	Positive Stop (Not Analyzed)	PLM	
891-BS-01G	Basement Stairwell Wall	Drywall Joint-Fill Compound	Positive Stop (Not Analyzed)	PLM	
891-BS-02A	Basement Duct	Duct Insulation Paper Wrap	60% Chrysotile	PLM	
891-BS-02B	Basement Duct	Duct Insulation Paper Wrap	Positive Stop (Not Analyzed)	PLM	
891-BS-02C	Basement Duct	Duct Insulation Paper Wrap	Positive Stop (Not Analyzed)	PLM	

Appendix B Laboratory Analytical Reports – Asbestos: Polarized Light Microscopy February 15, 2017

Appendix B Laboratory Analytical Reports – Asbestos: Polarized Light Microscopy





300 - 2319 St. Laurent Blvd Ottawa, ON, K1G 4J8 1-800-749-1947 www.paracellabs.com

Certificate of Analysis

Stantec Consulting Ltd. (Ottawa)

300-675 Cochrane Dr West Tower

Markham, ON L3R 0B8

Attn: Linda Fleet

Client PO: 122150275

Project: 122150275- 891 Boundary Street Prescot

Custody:

Report Date: 20-Jan-2017 Order Date: 16-Jan-2017

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
1703117-01	891-BS-01A
1703117-02	891-BS-01B
1703117-03	891-BS-01C
1703117-04	891-BS-01D
1703117-05	891-BS-01E
1703117-06	891-BS-01F
1703117-07	891-BS-01G
1703117-08	891-BS-02A
1703117-09	891-BS-02B
1703117-10	891-BS-02C

Approved By:

Day

Emma Diaz

Senior Analyst



Certificate of Analysis

Client: Stantec Consulting Ltd. (Ottawa)

Report Date: 20-Jan-2017 Order Date: 16-Jan-2017

Client PO: 122150275 Project Description: 122150275-891 Boundary Street Prescot

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Paracel I.D.	Sample Date	Layers Analyzed	Colour	Description	Asbestos Detected:	Material Identification	% Content
1703117-01	13-Jan-17	sample homogenized	Beige	Drywall Joint Compound	Yes	Client ID: 891-BS-01A	
						Chrysotile	1
						Non-Fibers	99
1703117-02	13-Jan-17					Client ID: 891-BS-01B	
						not analyzed	
1703117-03	13-Jan-17					Client ID: 891-BS-01C	
						not analyzed	
1703117-04	13-Jan-17					Client ID: 891-BS-01D	
						not analyzed	
1703117-05	13-Jan-17					Client ID: 891-BS-01E	
						not analyzed	
1703117-06	13-Jan-17					Client ID: 891-BS-01F	
						not analyzed	
1703117-07	13-Jan-17					Client ID: 891-BS-01G	
						not analyzed	
1703117-08	13-Jan-17	sample homogenized	Grey	Duct Insulation	Yes	Client ID: 891-BS-02A	
						Chrysotile	60
						Cellulose	10
						Non-Fibers	30
1703117-09	13-Jan-17					Client ID: 891-BS-02B	
						not analyzed	
1703117-10	13-Jan-17					Client ID: 891-BS-02C	
						not analyzed	

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	NVLAP Lab Code *	Analysis Date
Asbestos, PLM Visual Estimation	by EPA 600/R-93/116	2 - Ottawa West Lab	200812-0	17-Jan-17

^{*} Reference to the NVLAP term does not permit the user of this report to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Work Order Revisions / Comments

None

^{**} Analytes in bold indicate asbestos mineral content.

Appendix C Summary of Occurrences of Asbestos-Containing Materials February 15, 2017

Appendix C Summary of Occurrences of Asbestos-Containing Materials



Summary of Occurrences of Asbestos-Containing Materials

Level	Room	Specific Location	ACM Location	АСМ Туре	Estimated Quantity	Sample Number	Original Sample?	Asbestos Content	Friable?	isible	Access ?	. ACM Condition	Comments/ Notes
1	Kitchen	Walls and Ceiling	Walls and Ceiling	Drywall Joint-Fill Compound	60 sq.m	Ref: 891-BS- 01A	No	1% Chrysotile	No	Yes	Α	good	ACM
1	Living Room	Walls and Ceiling	Walls and Ceiling	Drywall Joint-Fill Compound	100 sq.m	Ref: 891-BS- 01A	No	1% Chrysotile	No	Yes	Α	good	ACM
1	Northeast Bedroom	Walls and Ceiling	Walls and Ceiling	Drywall Joint-Fill Compound	60 sq.m	Ref: 891-BS- 01A	No	1% Chrysotile	No	Yes	Α	good	ACM
1	Northwest Bedroom	Walls and Ceiling	Walls and Ceiling	Drywall Joint-Fill Compound	60 sq.m	Ref: 891-BS- 01A	No	1% Chrysotile	No	Yes	Α	good	ACM
1	Washroom	Walls and Ceiling	Walls and Ceiling	Drywall Joint-Fill Compound	20 sq.m	Ref: 891-BS- 01A	No	1% Chrysotile	No	Yes	Α	good	ACM
Basement	Basement	Stairwell	Walls and Ceiling	Drywall Joint-Fill Compound	15 sq.m	891-BS-01A	Yes	1% Chrysotile	No	Yes	Α	good	ACM
Basement	Basement	Below Ceiling	Below Ceiling	Duct Insulation Paper Wrap	5 Ducts	891-BS-02A	Yes	60% Chrysotile	e No	Yes	С	poor	INSULATION OBSERVED TORN AND LOOSE ON 2 DUCTS
Exterior	Exterior	Windows and Doors	Windows and Doors	Exterior Caulking - White	NQ	NS	No	PACM	No	Yes	Α	good (PACM)	PACM
Exterior	Exterior	Chimney	Chimney	Brick Mortar	NQ	NS	No	PACM	No	Yes	С	good (PACM)	PACM
Roof	Roof	Roofing	Roofing	Roofing Materials	NQ	NS	No	PACM	No	Yes	В	unknown (PACM)	PACM
Roof	Roof	Roofing	Roofing	Roof Caulking	NQ	NS	No	PACM	No	Yes	В	unknown (PACM)	PACM

- Accessibility Classification
 A Areas of the building within reach (from floor level) of all building users
- B Frequently entered maintenance areas within reach of maintenance staff, without the need for a ladder
- C Areas of the building above 2.4 m where use of a ladder is required to reach the asbestos
- D Areas of the building behind inaccessible solid ceiling systems, walls, or mechanical equipment, etc., where demolition of the ceiling, wall, or equipment, etc., is required to reach the asbestos

Visibility

- Yes Suspect material is visible without opening hatches or lifting ceiling tiles
- No Suspect material can only be viewed if access hatches are opened or ceiling tiles lifted.

Notes:

ACM - asbestos-containing material

PACM - presumed asbestos-containing material

Access. - accessibility

ng - not quantified

na - not applicable

ns - not sampled

ref - reference sample

F - friable

NF - non friable

RCA - recommend corrective action

BS - bulk sample

^{*} Based on a non-intrusive inspection of visible surfaces within the room space.

Appendix D Selected Site Photographs February 15, 2017

Appendix D Selected Site Photographs



Appendix D Selected Site Photographs February 15, 2017



Photo 1: Presumed asbestos-containing brick mortar, roofing materials and roof caulking.



Photo 2: Asbestos-containing duct insulation tape observed to be in poor condition in the basement.



Photo 3: Asbestos-containing drywall joint-fill compound observed on the walls and ceiling.



Photo 4: Presumed asbestos-containing exterior caulking – white was observed on the exterior window.

Stantec