# REPORT

#### **CITY OF SASKATOON**

# Asbestos-Containing Building Materials Assessment Report - Water Meter Shop



#### Submitted to:

The City of Saskatoon 1101 Avenue P North Saskatoon, SK S7L 7K6

Report Number: 1667963

Distribution:

One Copy: City of Saskatoon One Copy: Golder Associates Ltd.







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#### 1.0 INTRODUCTION

Golder Associates Ltd. (Golder) was retained by the City of Saskatoon (the Client) to conduct an asbestos-containing building materials assessment of the Water Meter Shop (the Site) located at 1101 Spadina Crescent West in Saskatoon, Saskatchewan. This assessment report details our findings, conclusions and recommendations for the Site. A walkthrough of the Site was conducted on September 12, 2017, by Kody Henderson, OHS Project Manager, and the assessment was conducted on October 18, 2017 by Scott Bishop, Junior Occupational Hygienist. Asbestos-containing building materials were identified within the Water Meter Shop during the assessment. Further information is provided in Section 3.0.

#### 2.0 SCOPE OF WORK

In accordance with Tender 16-0844, Golder's scope of work included conducting an asbestos-containing building materials assessment of the Site to evaluate the quantities, locations, and conditions of asbestos-containing building materials.

Following the field work, Golder prepared this assessment report that includes laboratory analysis results, findings of the assessment, conclusions, and recommendations.

#### 2.1 Asbestos-Containing Materials

The assessment involved a non-destructive inspection of the Site to assess the type and extent of suspect ACMs in the facility. The systems that were reviewed as part of the inspections included, but were not limited to:

- Structural systems including: insulation between solid webbed joists, fireproofing, building envelope, and interior/exterior caulking around windows and doors;
- Mechanical systems insulation including: hot water and steam system, condensate system, chilled water system, glycol system, domestic hot and cold water, emergency generator exhaust, boiler units, heat exchangers, and asbestos cement piping; and
- Architectural systems including: texture coats, sheet flooring, vinyl floor tile, acoustical spray-applied
  materials, condensation control applications, ceiling tile, wall board, drywall joint compound, and asbestos
  sheet products.

Systematic sampling of suspect ACMs was conducted as part of the assessment. Samples were submitted under chain of custody to International Asbestos Testing Laboratory Inc. (IATL) and analyzed for asbestos type and percentage content using Polarized Light Microscopy (PLM) in accordance with EPA methodologies (EPA 600/R-93/116).

Further information related to the assessment and sample collection methods can be found in the Golder document *Golder Asbestos Assessment General Survey Plan and Protocol* provided to the Client.





#### 3.0 RESULTS AND DISCUSSION

The Water Meter Shop consists of a maintenance shop, offices, a mechanical room, equipment rooms, washroom, a lunch room and various other storage/miscellaneous rooms. The Water Meter Shop was constructed in 1974 with a 2006 addition. During the assessment, the building was treated as two functional spaces: the original construction and the 2006 addition.

- The Laboratory Certificate of Analysis report for the bulk asbestos samples is included in Appendix A.
- Photographs collected during the assessment are provided in Appendix B.
- A room by room spreadsheet outlining the locations, quantities, friability, and condition of identified asbestos-containing materials as well as additional information is provided in Appendix C.
- Floor plans outlining the sample locations and locations of identified asbestos-containing materials are provided in Appendix D.
- Please refer to Sections 4.0 and 6.0 of this report for a summary of the limitations encountered.

#### 3.1 Asbestos-Containing Materials

A total of forty-eight (48) samples of building materials were collected and tested for asbestos content during the assessment of the Water Meter Shop. One (1) of the samples was found to contain asbestos.

Potential asbestos-containing materials and components may be located within the electrical panels on Site.

#### 3.1.1 List of Identified Asbestos-Containing Materials

A list of the identified asbestos-containing materials is provided below:

Loose-fill vermiculite insulation within cinderblock wall cavities.

Further information on the identified asbestos-containing materials listed is provided below.

#### Loose-Fill Vermiculite Insulation

One (1) sample of loose-fill vermiculite insulation was collected during the assessment. The sample collected was found to contain trace amount of Actinolite asbestos. Asbestos-containing loose-fill vermiculite insulation (see Photograph 1 in Appendix B) was observed to have leaked from the wall cavity in Room 131. The loose vermiculite was subsequently cleaned by the Client following its identification.

There is the potential for the material to be present within other cinderblock walls throughout the building.

#### 3.1.2 Non Asbestos-Containing Materials

The following materials were sampled during this assessment and were found to not contain asbestos or were observed to be non-suspect materials:

- Black caulking;
- White window caulking;
- Grey building caulking;
- 12" x 12" vinyl floor tiles, beige with tan smears and mastic below;





- Grey duct mastic;
- Vinyl sheet flooring, grey with brown smears and mastic below;
- White sink undercoating;
- Drywall joint compound;
- Vinyl sheet flooring, grey with pink and black;
- Dark grey duct mastic;
- Pipe-fitting insulation;
- Exterior black caulking;
- Exterior grey firestop putty;
- Exterior grey expansion joint caulking;
- Exterior stucco board on foundation;
- Exterior grey window caulking;
- Exterior cement board on foundation; and
- Exterior brick mortar.

Where applicable, materials were sampled to delineate between each functional space.

#### 4.0 EXCLUDED AREAS AND MATERIALS

The following is a list of the areas and/or materials excluded during the assessment.

- Building materials accessible by a ten-foot ladder were assessed by Golder during the assessment. Materials located at heights that were inaccessible from a ten-foot ladder were not assessed. If materials at heights are to be removed or impacted by future renovation or demolition activities, additional investigation and sampling of suspect materials may be required.
- The roof and associated components were not assessed by Golder during the assessment as per Tender 16-0844. If the roof and associated components are to be removed or impacted by future renovation or demolition activities, additional investigation and sampling of suspect materials may be required.
- The electrical panels and associated components were not inspected by Golder during the assessment. If the panels are to be removed or impacted by future renovation or demolition activities, additional investigation and sampling of suspect materials may be required.
- Golder was unable to access Rooms 106 and 121 during the assessment. If the rooms are scheduled for future renovation or demolition activities, additional investigation and sampling of suspect materials may be required.





#### 5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the visual assessment and the laboratory analytical results, the following project specific conclusions and recommendations are provided.

#### 5.1 Asbestos-Containing Materials

Asbestos was positively identified within loose-fill vermiculite insulation on Site. Asbestos was not identified in the remaining samples collected and analyzed.

If the building is scheduled for renovations that will impact the identified asbestos-containing materials, it must be removed. If additional suspect asbestos-containing building materials are encountered during renovation activities, additional sampling should be undertaken to evaluate asbestos content.

Removal work should be completed by workers that are adequately trained in the hazards and proper methods of working with asbestos. Throughout the abatement activities, appropriate air monitoring and inspections should be conducted by a competent person to document that contamination is contained and that ACM are disposed of appropriately. Ensure asbestos waste is disposed of in accordance with the requirements of the Government of Saskatchewan.

All quantities listed in the report are approximate and are based on the conditions at the time of the assessment. Prior to abatement work it is recommended that a competent person conduct a review of the site to quantify and obtain all measurements of all building materials detailed in this report for cost estimating purposes.

In anticipation of potential abatement, Golder's recommendations for the asbestos-containing materials identified during the assessment are outlined below.

#### Loose-Fill Vermiculite Insulation

If scheduled for impact, asbestos-containing loose-fill vermiculite insulation should be abated following high-risk abatement work procedures as outlined in the *Saskatchewan Asbestos Abatement Manual* (2017). Alternatively, as the loose-fill vermiculite insulation is located within the cinderblock wall cavities, and with a priority rating of 5 (please see the room by room spreadsheet provided in Appendix C for a description of the priority ratings), the vermiculite can be managed in place if not scheduled for impact. If vermiculite is observed to have leaked from openings within the cinderblock walls, the material should be cleaned up following low-risk abatement work procedures as outlined in the *Saskatchewan Asbestos Abatement Manual* (2017).

#### 6.0 SURVEY LIMITATIONS

This report is based on data and information collected by Golder during the assessment conducted on October 18, 2017 and is based solely on site conditions encountered at the time of the assessment. Any use of this document or the findings, conclusions or recommendations provided in this report by any person other than the City of Saskatoon is at the sole risk of such user.

The conclusions and recommendations contained in this survey report are based upon professional opinions with regard to the subject matter. These opinions are in accordance with currently accepted environmental assessment standards and practices applicable to these locations and are subject to the following inherent limitations:





The data and findings presented in this report are valid as of the dates of the investigations. The passage of time, manifestation of latent conditions or occurrence of future events may warrant further exploration at the properties, analysis of the data, and re-evaluation of the findings, observations, and conclusions expressed in this report. No assurance is made regarding changes in conditions or practices subsequent to the time of the investigation. It was beyond the scope of this assessment to conduct a risk assessment and the potential health risks that may be associated with asbestos exposure for building occupants.

The data reported and the findings, observations and conclusions expressed in this report are limited by the Scope of Work. The Scope of Work was defined by Tender 16-0844 and the initial site walkthrough with the Client, the time and budgetary constraints imposed by the Client, and availability of access to the property.

Because of the limitations stated above, the findings, observations and conclusions expressed by Golder in this report are not, and must not be, considered an opinion concerning compliance of any past or present owner or operator of the site with any federal, provincial or local laws or regulations.

No warranty or guarantee, whether expressed or implied, is made with respect to the data or the reported findings, observations, and conclusions, which are based solely upon site conditions in existence at the time of investigation.

Golder's assessment reports present professional opinions and findings of a scientific and technical nature. While attempts were made to relate the data and findings to applicable environmental laws and regulations, the report shall not be construed to offer legal opinion or representations as to the requirements of, nor compliance with, environmental laws, rules, regulations or policies of federal, provincial, or local governmental agencies. Any use of the survey report constitutes acceptance of the limits of Golder's liability.

Golder's liability extends only to its client and not to other parties who may obtain this survey report. Issues raised by the report must be reviewed by appropriate legal counsel.

#### 7.0 CLOSURE

We trust the information presented in this report meets your requirements. If you have any questions, please contact Kody Henderson at (780) 483-3499 or email at <a href="mailto:kody\_henderson@golder.com">kody\_henderson@golder.com</a>. Thank you for the opportunity to be of service. We look forward to working with you again in the future.





## **Report Signature Page**

**GOLDER ASSOCIATES LTD.** 

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SWB/KH/AG/ba

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# **APPENDIX A**

**Laboratory Certificate of Analysis Report** 





Email: customerservice@iatl.com

#### CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd

16820 107 Ave

Edmonton AB T5P 4C3

Client: GOL572

Report Date: 10/30/2017

Report No.: 550358 - PLM

Project: Water Meter Shop

Project No.: 1667963

#### PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6371046 Analyst Observation: Black Caulk Location: Rm 131

Client No.: 001 Client Description: Black Door Glazing Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6371047 Analyst Observation: White Caulk Location: Rm 131

Client No.: 002 Client Description: White Window Caulking Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6371048 Analyst Observation: Brown Vermiculite Location: Rm 131

Client No.: 003 Client Description: Loose-Fill Vermiculite Insulation Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

PC Trace Tremolite None Detected 100

This sample contains vermiculite mineral and may be a candidate for additional analytical procedures. Please see the sections following your report titled

Recommendations for Vermiculite Analysis. (EPA 600/R-04/004)

Lab No.: 6371049 Analyst Observation: White Caulk Location: Rm 131

Client No.: 004 Client Description: Grey Bldg Caulking Facility:

<u>Percent Asbestos:</u> <u>Percent Non-Asbestos Fibrous Material:</u> <u>Percent Non-Fibrous Material:</u>

None Detected None Detected 100

Lab No.: 6371050 Analyst Observation: Off-White Floor Tile Location: Rm 129

Client No.: 005 Client Description: 12x12 Vinyl Floor Tile, Beige With Tan Facility:

Smears

<u>Percent Asbestos:</u> <u>Percent Non-Asbestos Fibrous Material:</u> <u>Percent Non-Fibrous Material:</u>

None Detected None Detected 100

Lab No.: 6371050(L2) Analyst Observation: Black Mastic Location: Rm 129

Client No.: 005 Client Description: 12x12 Vinyl Floor Tile, Beige With Tan Facility:

Smears

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 10/23/2017

Date Analyzed: 10/30/2017

Signature:

Dated: 10/30/2017 6:32:59

Analyst: Tom Barkley

Approved By:

Frank E. Ehrenfeld, III
Laboratory Director

Laboratory Director



Email: customerservice@iatl.com

10/30/2017

#### CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd Report Date:

> 16820 107 Ave Report No.: 550358 - PLM

Edmonton AB T5P 4C3 Project: Water Meter Shop

Project No.: 1667963 Client: GOL572

#### PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6371051 Analyst Observation: Grev Mastic Location: Rm 129

Client Description: Grey Duct Mastic Client No.: 006 **Facility:** 

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6371052 **Analyst Observation:** Grey Vinyl Sheet Flooring Location: Rm 134

Client No.: 007 Client Description: Vinyl Sheet Flooring-Grey With Brown **Facility:** 

Smears

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

20 Cellulose None Detected

Location: Rm 134 **Lab No.:** 6371052(L2) **Analyst Observation:** Yellow Mastic

Client No.: 007 Client Description: Vinyl Sheet Flooring-Grey With Brown **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6371053 **Analyst Observation:** White Sink Undercoating Location: Rm 134

Client No.: 008 Client Description: White Sink Undercoating **Facility:** 

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

5 Cellulose None Detected

**Lab No.:** 6371054 **Analyst Observation:** White Joint Compound Location: Rm 135B

Client No.: 009 Client Description: Drywall Joint Compound **Facility:** 

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6371055 **Analyst Observation:** White Joint Compound Location: Rm 135A

Client No.: 010 Client Description: Drywall Joint Compound **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

10/23/2017 Date Received:

10/30/2017 Date Analyzed:

Signature: Tom Barkley

Analyst:

Dated: 10/30/2017 6:32:59 Page 2 of 12 Approved By:

Frank E. Ehrenfeld, III Laboratory Director



Email: customerservice@iatl.com

10/30/2017

#### CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd Report Date:

> 16820 107 Ave Report No.: 550358 - PLM

Edmonton AB T5P 4C3 Project: Water Meter Shop

Project No.: 1667963 Client: GOL572

#### PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6371056 **Analyst Observation:** White Joint Compound Location: Rm 134

Client Description: Drywall Joint Compound Client No.: 011 **Facility:** 

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6371057 **Analyst Observation:** White Joint Compound Location: Rm 136

Client No.: 012 Client Description: Drywall Joint Compound **Facility:** 

Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material: Percent Asbestos:

None Detected None Detected

**Lab No.:** 6371058 Analyst Observation: Tan Vinyl Sheet Flooring Location: Rm 136

Client No.: 013 Client Description: Vinyl Sheet Flooring-Grey With Pink And Facility:

Black Specks

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

**Analyst Observation:** Tan Mastic Location: Rm 136 **Lab No.:** 6371058(L2)

Client No.: 013 Client Description: Vinyl Sheet Flooring-Grey With Pink And Facility:

Black Specks

Percent Non-Fibrous Material: Percent Asbestos: Percent Non-Asbestos Fibrous Material:

None Detected None Detected

**Lab No.:** 6371059 **Analyst Observation:** White Joint Compound Location: Rm 136

Client No.: 014 Client Description: Drywall Joint Compound **Facility:** 

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6371060 **Analyst Observation:** Grey Mastic Location: Rm 105

Client No.: 015 Client Description: Grey Duct Mastic **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

10/23/2017 Date Received:

10/30/2017 Date Analyzed:

Signature: Analyst:

Tom Barkley

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Dated: 10/30/2017 6:32:59 Page 3 of 12



Email: customerservice@iatl.com

#### CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd Report Date: 10/30/2017

16820 107 Ave Report No.: 550358 - PLM

Edmonton AB T5P 4C3 Project: Water Meter Shop

Project No.: 1667963 Client: GOL572

#### PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6371061 Analyst Observation: White Sink Undercoating Location: Rm 104

Client Description: White Sink Undercoating **Facility:** Client No.: 016

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

10 Cellulose None Detected

**Lab No.:** 6371062 **Analyst Observation:** White Joint Compound Location: Rm 102

Client No.: 017 Client Description: Drywall Joint Compound **Facility:** 

Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material: Percent Asbestos:

None Detected None Detected

**Lab No.:** 6371063 **Analyst Observation:** White Joint Compound Location: Rm 101

Client No.: 018 Client Description: Drywall Joint Compound **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Analyst Observation:** Tan Vinyl Sheet Flooring Lab No.: 6371064 Location: Rm 100

Client Description: Vinyl Sheet Flooring-Grey With Pink And Facility: Client No.: 019

Black Specks

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

2 Cellulose None Detected

**Lab No.:** 6371064(L2) **Analyst Observation:** Tan Mastic Location: Rm 100

Client No.: 019 Client Description: Vinyl Sheet Flooring-Grey With Pink And Facility:

Black Specks

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6371065 **Analyst Observation:** Black Caulk Location: Rm 100

Client No.: 020 Client Description: Black Door Glazing **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

10/23/2017 Date Received:

10/30/2017 Date Analyzed:

Signature: Analyst:

Tom Barkley

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Dated: 10/30/2017 6:32:59 Page 4 of 12



Email: customerservice@iatl.com

10/30/2017

#### CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd Report Date:

> 16820 107 Ave Report No.: 550358 - PLM

Edmonton AB T5P 4C3 Project: Water Meter Shop

Project No.: 1667963 Client: GOL572

#### PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6371066 **Analyst Observation:** White Joint Compound Location: Rm 103

Client Description: Drywall Joint Compound Client No.: 021 **Facility:** 

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6371067 **Analyst Observation:** Grey Mastic Location: Rm 127B

Client No.: 022 Client Description: Dk Grey Duct Mastic **Facility:** 

Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material: Percent Asbestos:

None Detected None Detected

**Lab No.:** 6371068 **Analyst Observation:** Tan Vinyl Sheet Flooring Location: Rm 127B

Client No.: 023 Client Description: Vinyl Sheet Flooring-Grey With Brown **Facility:** 

Smears

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 15 Cellulose

**Lab No.:** 6371068(L2) **Analyst Observation:** Yellow Mastic Location: Rm 127B

Client No.: 023 Client Description: Vinyl Sheet Flooring-Grey With Brown **Facility:** 

Smears

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6371069 **Analyst Observation:** White Joint Compound Location: Rm 127B

Client No.: 024 Client Description: Drywall Joint Compound **Facility:** 

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6371070 **Analyst Observation:** Grey Caulk Location: Rm 107

Client No.: 025 Client Description: White Window Caulking **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

10/23/2017 Date Received:

10/30/2017 Date Analyzed:

Signature: Analyst:

Tom Barkley

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Dated: 10/30/2017 6:32:59 Page 5 of 12



Email: customerservice@iatl.com

#### CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd Report Date: 10/30/2017

16820 107 Ave Report No.: 550358 - PLM

Edmonton AB T5P 4C3 Project: Water Meter Shop

Project No.: 1667963 Client: GOL572

#### PLM BULK SAMPLE ANALYSIS SUMMARY

**Analyst Observation:** White Joint Compound Lab No.: 6371071 **Location:** Rm M02

Client Description: Drywall Joint Compound Client No.: 026 **Facility:** 

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6371072 **Analyst Observation:** White Joint Compound Location: Rm 119

Client No.: 027 Client Description: Drywall Joint Compound **Facility:** 

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6371073 **Analyst Observation:** Grey Mastic Location: Rm 111

Client No.: 028 **Client Description:** Grey Duct Mastic **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Analyst Observation:** White Joint Compound Lab No.: 6371074 Location: Rm 108

Client No.: 029 Client Description: Drywall Joint Compound **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6371075 **Analyst Observation:** White Joint Compound Location: Rm 107

Client No.: 030 Client Description: Drywall Joint Compound **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6371076 **Analyst Observation:** Grey Insulation Location: Rm 130

Client No.: 031 **Client Description:** Pipe Fitting Insulatioon **Facility:** 

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

10 Cellulose None Detected

20 Fibrous Glass

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

10/23/2017 Date Received:

10/30/2017 Date Analyzed:

Signature:

Dated: 10/30/2017 6:32:59

Tom Barkley Analyst:

Approved By:

Frank E. Ehrenfeld, III

Laboratory Director



Email: customerservice@iatl.com

#### CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd Report Date: 10/30/2017

16820 107 Ave Report No.: 550358 - PLM

Edmonton AB T5P 4C3 Project: Water Meter Shop

Project No.: 1667963 Client: GOL572

#### PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6371077 **Analyst Observation:** Black Caulk **Location:** Exterior

Client Description: Black Door Glazing (Original) Client No.: 032 **Facility:** 

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6371078 **Analyst Observation:** Grey Putty Location: Exterior

Client No.: 033 Client Description: Grey Firestop Putty (Original) **Facility:** 

Percent Non-Asbestos Fibrous Material: Percent Asbestos: Percent Non-Fibrous Material:

5 Cellulose None Detected

**Lab No.:** 6371079 **Analyst Observation:** Grey Caulk **Location:** Exterior

Client No.: 034 Client Description: Grey Caulking (Original) **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Lab No.: 6371080 **Analyst Observation:** Black Tar **Location:** Exterior

Client No.: 035 **Client Description:** Black Tar On Foundation (Original) **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6371081 **Analyst Observation:** Grey Stucco Location: Exterior

Client Description: Stucco Board On Foundation (Original) Client No.: 036 **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6371082 Analyst Observation: Grey Caulk **Location:** Exterior

Client No.: 037 Client Description: Grey Window Caulking (2006 Addition) **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected 100 None Detected

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

10/23/2017 Date Received:

10/30/2017 Date Analyzed:

Signature: Analyst:

Tom Barkley

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Dated: 10/30/2017 6:32:59 Page 7 of 12



Email: customerservice@iatl.com

#### CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd Report Date: 10/30/2017

16820 107 Ave Report No.: 550358 - PLM

Edmonton AB T5P 4C3 Project: Water Meter Shop

Project No.: 1667963 Client: GOL572

#### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6371083 **Analyst Observation:** Black Caulk **Location:** Exterior

Client Description: Black Window Glazing (2006 Addition) Client No.: 038 **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6371084 **Analyst Observation:** Grey Cementitious **Location:** Exterior

Client No.: 039 Client Description: Cement Board On Foundation (2006 **Facility:** 

Addition)

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6371085 **Analyst Observation:** Grev Putty **Location:** Exterior

**Client Description:** Grey Firestop Putty (2006 Addition) Client No.: 040 **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

10 Cellulose None Detected

**Lab No.:** 6371086 **Analyst Observation:** Grev Caulk **Location:** Exterior

Client No.: 041 Client Description: Grey Caulking (2006 Addition) **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Analyst Observation:** Grey Mortar **Lab No.:** 6371087 **Location:** Exterior

Client Description: Brick Mortar (At Original And 2006 Client No.: 042 **Facility:** 

Addition Joint)

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

**Lab No.:** 6371088 **Analyst Observation:** Grey Mortar **Location:** Exterior

Client No.: 043 Client Description: Brick Mortar (2006 Addition) **Facility:** 

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

10/23/2017 Date Received:

10/30/2017 Date Analyzed:

Signature:

Tom Barkley Analyst:

Dated: 10/30/2017 6:32:59

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

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Email: customerservice@iatl.com

#### CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd Report Date: 10/30/2017

16820 107 Ave Report No.: 550358 - PLM

Edmonton AB T5P 4C3 Project: Water Meter Shop

Client: GOL572 Project No.: 1667963

#### PLM BULK SAMPLE ANALYSIS SUMMARY

.....

Lab No.: 6371089 Analyst Observation: Grey Mortar Location: Exterior

Client No.: 044 Client Description: Brick Mortar (2006 Addition) Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6371090 Analyst Observation: Grey Mortar Location: Exterior

Client No.: 045 Client Description: Brick Mortar (2006 Addition) Facility:

<u>Percent Asbestos:</u> <u>Percent Non-Asbestos Fibrous Material:</u> <u>Percent Non-Fibrous Material:</u>

None Detected None Detected 10

Lab No.: 6371091 Analyst Observation: Grey Mortar Location: Exterior

Client No.: 046 Client Description: Brick Mortar (Original) Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 10

Lab No.: 6371092 Analyst Observation: Grey Mortar Location: Exterior

Client No.: 047 Client Description: Brick Mortar (Original) Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Lab No.: 6371093 Analyst Observation: Grey Mortar Location: Exterior

Client No.: 048 Client Description: Brick Mortar (Original) Facility:

Percent Asbestos: Percent Non-Asbestos Fibrous Material: Percent Non-Fibrous Material:

None Detected None Detected 100

Analytical Method - US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 10/23/2017

Dated: 10/30/2017 6:32:59

Date Analyzed: 10/30/2017

Signature:

Analyst: Tom Barkley

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

Page 9 of 12



Email: customerservice@iatl.com

#### **CERTIFICATE OF ANALYSIS**

Client: Golder Associates Ltd Report Date: 10/30/2017

16820 107 Ave Report No.: 550358 - PLM

Edmonton AB T5P 4C3 Project: Water Meter Shop

Client: GOL572 Project No.: 1667963

### Appendix to Analytical Report

**Customer Contact:** 

Analysis: US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: cdavis@iatl.com iATL Account Representative: Pete Lesniak Sample Login Notes: See Batch Sheet Attached Sample Matrix: Bulk Building Materials Exceptions Noted: See Following Pages

#### General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

#### **Information Pertinent to this Report:**

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

#### Certifications:

- NIST-NVLAP No. 101165-0
- NY-DOH No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process) Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)>

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Edmonton AB

9000 Commerce Parkway Suite B Mt. Laurel, New Jersey 08054 Telephone: 856-231-9449

Email: customerservice@iatl.com

#### **CERTIFICATE OF ANALYSIS**

Project:

Water Meter Shop

Client: Golder Associates Ltd Report Date: 10/30/2017

16820 107 Ave Report No.: 550358 - PLM

Project No.: 1667963

Client: GOL572

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique - by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

T5P 4C3

#### **Disclaimers / Qualifiers:**

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.

#### **Recommendations for Vermiculite Analysis:**

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1) Analytical Step/Method: Initial Screening by PLM, EPA 600R-93/116

Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.

2) Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.

3) Analytical Step/Method: Wet Separation by PLM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g\*\* of dry sample. Analysis of "Floats" only.

4) Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004 Requirements/Comments: Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.

5) Analytical Step/Method: Wet Separation by TEM Gravimetric Technique, EPA R-04/004

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Email: customerservice@iatl.com

#### CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd

16820 107 Ave

Edmonton AB T5P 4C3

Client: GOL572

Report Date: 10/30/2017

Report No.: 550358 - PLM
Project: Water Meter Shop

Project No.: 1667963

Requirements/Comments: Minimum 50g\*\* of dry sample. Analysis of "Suspension" only.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

\*With advance notice and confirmation by the laboratory.

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<sup>\*\*</sup>Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).



# **APPENDIX B**

**Site Photographs** 





Photograph 1: Block Wall with Potential Asbestos-Containing Loose-Fill Vermiculite Insulation.

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# **APPENDIX C**

Water Meter Shop Room by Room Spreadsheet



la aboda di	1 1									Asbestos			0		01-	A-b4		<u> </u>				1		B-4	Barrana			
Included/ Excluded	Floor	Room #	Area Description	Elements	Subelements	Material Description	Accessibility		·	Containing Material?	Condition	Field Notes	Sample Type	Sample ID	Sample Date	Asbestos Type	ACM Product	% of asbestos	Friable	Sprayed-on	Maintenance	Inspection	Priority	Potential for Disturbance	Recommended Action	Quantity	Photograph ID	Labelling Type
Included	M	100	Main Entrance	Walls	Walls	Cinderblock	High	No	No	No	Good			V.S. A-017, A-														
Included	М	100	Main Entrance	Walls	Walls	Drywall	High	No	Yes	No	Good		Bulk	018, A-021, A- 029, A-030	18-Oct-17													
Included	M	100	Main Entrance	Floor	Floor	Vinyl Sheet Flooring	High	No	Yes	No	Good	Grey with pink and black spots.  Date coded to a time period	Bulk	A-019 1	18-Oct-17													
Included	М	100	Main Entrance	_	Ceiling	2' x 4' Ceiling Tiles	High	No	No	No	Good	where asbestos use was not widespread.																
	M	100	Main Entrance Main Entrance	Miscellaneous	Ceiling Space Caulking	Metal Q-Deck Black Caulking		No No	No Yes	No No	Good Good	No spray-applied insulation. On door windows.		A-020 1														
Included Included	M	101 101	Corridor Corridor		Walls Floor	Drywall Vinyl Sheet Flooring	High High	No No	Yes Yes	No No	Good Good	Grey with brown.		A-018 1 V.S. A-019 1														
Included	М	101	Corridor	Ceiling	Ceiling	2' x 4' Ceiling Tiles	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																
Included	M		Corridor		Ceiling Space	Metal Q-Deck	High	No	No	No	Good	No spray-applied insulation.  Bare or insulated with fibreglass																
Included	M M	101	Corridor Corridor		Piping Duct Work	Metal Pipes Fibreglass Wrap	High High	No No	No No	No No	Good	and PVC fittings.  Duct mastic not visible.																
Included Included		101	Corridor Food Prep/Lunch Room		Caulking Walls	Black Caulking Cinderblock	High High	No No	Yes No	No No	Good Good	On door windows.	Bulk	V.S. A-020 1	18-Oct-17													
			Food Prep/Lunch Room Food Prep/Lunch Room		Walls Floor	Drywall Vinyl Sheet Flooring	High High	No No	Yes Yes	No No	Good Good	Grey with brown.		A-017 1 V.S. A-019 1														
Included	М		Food Prep/Lunch Room	_	Ceiling	2' x 4' Ceiling Tiles	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																
Included	M	102/102.1	Food Prep/Lunch Room Food Prep/Lunch Room	Mechanical	Ceiling Space Duct Work	Metal Q-Deck Fibreglass Wrap	High	No No	No No	No No	Good Good	No spray-applied insulation.  Duct mastic not visible.																
Included	M	103/103.1	Food Prep/Lunch Room Male Change Room	Walls	Sink Walls	White Undercoat Cinderblock	High High	No No	Yes No	No No	Good Good		Bulk	V.S. A-016	18-Oct-17													
			Male Change Room Male Change Room		Walls Floor	Ceramic Tile Ceramic Tile	High High	No No	No No	No No	Good Good																	
Included Included	M M	103/103.1 103/103.1	Male Change Room Male Change Room		Ceiling Ceiling Space	Drywall Metal Q-Deck		No No	Yes No	No No	Good Good	No spray-applied insulation.	Bulk	A-021 1	18-Oct-17													
Included	М		Male Change Room		Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.																
Included	M	103/103.1	Male Change Room Male Change Room		Duct Work Duct Work	Fibreglass Wrap Grey Duct Mastic	High High	No No	No Yes	No No	Good Good	Duct mastic not visible. Uninsulated duct.	Bulk	V.S. A-015	18-Oct-17													
			Male Change Room Female Change Room		Sink Walls	White Undercoat Cinderblock	High High	No No	Yes No	No No	Good Good		Bulk	V.S. A-016	18-Oct-17													
Included	M	104/104.1	Female Change Room Female Change Room		Walls Floor	Ceramic Tile Ceramic Tile	High High	No No	No No	No No	Good Good																	
Included	М					Drywall	High	No	Yes	No	Good		Bulk	V.S. A-017, A- 018, A-021, A- 029, A-030	18-Oct-17													
			Female Change Room		Sink	White Undercoat		No	Yes	No	Good		Bulk	A-016 1	18-Oct-17													
Included	M	105 105	Corridor Corridor		Walls Floor	Cinderblock Vinyl Sheet Flooring	High High	No No	No Yes	No No	Good Good	Grey with brown.	Bulk	V.S. A-019 1	18-Oct-17													
Included	М	105	Corridor		Ceiling	2' x 4' Ceiling Tiles	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																
Included	M		Corridor	Mechanical	Duct Work	Metal Q-Deck Fibreglass Wrap	High	No No	No Yes	No No	Good Good	No spray-applied insulation.  Grey mastic visible.		V.S. A-015														
Included Included	M	105	Corridor Corridor	Miscellaneous	Duct Work Caulking	Grey Duct Mastic Black Caulking	High High	No No	Yes Yes	No No	Good Good	Uninsulated duct. On door windows.		A-015 1 V.S. A-020 1														
	M	107		Walls	Walls Walls	Cinderblock Drywall		No No	No Yes	No No	Good Good			A-030 1														
Included	M		Equipment Repair		Floor	Vinyl Sheet Flooring	High	No	Yes	No	Good	Grey with brown.  Date coded to a time period	Bulk	V.S. A-019 1	18-Oct-17													
Included	101	107	Equipment Repair	_	Ceiling Space	2' x 4' Ceiling Tiles	High	No	No	No No	Good	where asbestos use was not widespread. No spray-applied insulation.																
Included	M	107	Equipment Repair Equipment Repair	Mechanical	Ceiling Space Duct Work	Metal Q-Deck Fibreglass Wrap	High	No No	No Yes	No	Good Good	Grey mastic visible.		V.S. A-015														
Included	M		Equipment Repair Equipment Repair	Miscellaneous	Sink Caulking	White Undercoat Grey Caulking	High High	No No	Yes Yes	No No	Good Good	On window frames.		V.S. A-016 1 A-025 1														
Included	M	108 108			Walls Walls	Cinderblock Drywall	High High	No No	No Yes	No No	Good Good			A-029 1	18-Oct-17													
moidada	M	108	Electrical Room	Floor	Floor	Vinyl Sheet Flooring	High	No	Yes	No No	Good	Date coded to a time period	Bulk	V.S. A-019	18-Oct-17													
Included	M	108	Electrical Room	_	Ceiling	2' x 4' Ceiling Tiles	High	No	No	No	Good	where asbestos use was not widespread.																
Included	M	108 108	Electrical Room	Mechanical	Ceiling Space Duct Work	Metal Q-Deck Fibreglass Wrap		No No	No Yes		Good Good	No spray-applied insulation. Grey mastic visible.		V.S. A-015														
		108 109	Electrical Room Mechanics		Caulking Walls	Grey Caulking Cinderblock	High High	No No	Yes No	No No	Good Good	On window frames.	Bulk	V.S. A-025	18-Oct-17													
Included	М	109	Mechanics	Walls	Walls	Drywall	High	No	Yes	No	Good		Bulk	V.S. A-017, A- 018, A-021, A- 029, A-030	18-Oct-17													
Included	M M	109	Mechanics Mechanics		Floor Ceiling	Vinyl Sheet Flooring 2' x 4' Ceiling Tiles	High High	No No	Yes No	No No	Good	Grey with brown.  Date coded to a time period where asbestos use was not	Bulk	V.S. A-019 1	18-Oct-17													
	141				Ceiling Space	_	_	No	No	No		widespread.  No spray-applied insulation.																
Included	M	109	Mechanics Mechanics	Mechanical	Duct Work Caulking	Fibreglass Wrap	High	No No	Yes	No	Good	Grey mastic visible. On window frames.		V.S. A-015 1 V.S. A-025 1														
Included	M	110	Washroom	Walls	Walls	Grey Caulking Cinderblock	High	No	Yes No	No	Good	On window frames.	DUIK	V.S. A-UZS	10-UCI-1/													
	M	110			Floor	Ceramic Tile		No	No	No	Good	Date coded to a time period																
Included	IVI NA	110	Washroom	_	Ceiling Space	2' x 4' Ceiling Tiles	High	No	No	No	Good	where asbestos use was not widespread.																
Included	M	110	Washroom Washroom		Ceiling Space Piping	Metal Pipes	High High	No No	No No	No No	Good	No spray-applied insulation.  Bare or insulated with fibreglass and PVC fittings.																
			Washroom		Duct Work	Grey Duct Mastic		No	Yes	No No	Good	Uninsulated duct.		V.S. A-015														
Included	M	110 111	Maintenance Shop	Walls	Sink Walls	White Undercoat Cinderblock	High	No No	Yes No	No	Good Good		buik	V.S. A-016 1	10-UCI-1/													
Included	M	111	Maintenance Shop Maintenance Shop	Floor	Walls Floor	Metal Concrete	High	No No	No No	No	Good Good																	
Included	M	111	Maintenance Shop Maintenance Shop		Ceiling Duct Work	Metal Q-Deck Canvas Wrap	High High	No No	No No	No No	Good Good	No mastic on fibreglass.																
Included	M		Maintenance Shop Mechanical Room	Mechanical	Duct Work Walls	Grey Duct Mastic Cinderblock		No No	Yes No		Good Good	Uninsulated duct.	Bulk	A-028 1	18-Oct-17													
Included	M	112 112	Mechanical Room	Floor	Floor Ceiling	Concrete Metal Q-Deck	High	No No	No No	No No	Good Good																	
Included	М	112	Mechanical Room		Piping	Metal Q-Deck	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.																
Included	M	112	Mechanical Room	Mechanical	Duct Work	Grey Duct Mastic	High	No	Yes	No	Good	Uninsulated duct.	Bulk	V.S. A-028	18-Oct-17													

			1	1	ı		1		1					1		1		1	1	1		1		1		ı		1
Included/ Excluded	Floor	Room #	Area Description	Elements	Subelements	Material Description	Accessibility	Suspect?	Sampled?	Asbestos Containing Material?	Condition	Field Notes	Sample Type	Sample ID	Sample Date	Asbestos Type	ACM Product	% of asbestos	Friable	Sprayed-on	Maintenance	Inspection	Priority	Potential for Disturbance	Recommended Action	Quantity	Photograph ID	Labelling Type
Included	М	112	Mechanical Room	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.													Inspect and sample if scheduled for removal.			
		113 113	Janitor Room Janitor Room		Walls Floor	Cinderblock Concrete	High High	No No	No No	No No	Good Good																	
Included	M	113		Ceiling	Ceiling Duct Work	Metal Q-Deck Grey Duct Mastic	High	No	No	No	Good	Uninsulated duct	Dulk	V.S. A-028	19 Oct 17													
Included	M	114	Wash Bay	Walls	Walls	Cinderblock	High	No No	Yes No	No No	Good Good	Uninsulated duct.	Bulk	V.S. A-028	18-UCI-17													
		114 114			Floor Ceiling	Concrete Metal Q-Deck	High High	No No	No No	No No	Good Good																	
Included	М	114	Wash Bay		Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.																
		114 115			Duct Work Walls	Canvas Wrap	High	No No	No No	No No	Good Good	No mastic on fibreglass.																
Included	IVI	110	Stores	walls	vvalis	Cinderblock	High	NO	INU	INO	Good			V.S. A-017, A-														
Included	M	115	Stores		Walls	Drywall Concrete	High High	No No	Yes No	No No	Good		Bulk	018, A-021, A- 029, A-030	18-Oct-17													
		115	Stores		Ceiling	Metal Q-Deck	High	No	No	No	Good	Diiiiiii																
Included	М	115	Stores		Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.																
Included Included			Stores Stores		Duct Work Duct Work	Canvas Wrap Dark Grey Duct Mastic	High High	No No	No Yes	No No	Good Good	No mastic on fibreglass. Uninsulated duct.	Bulk	V.S. A-022	18-Oct-17													
Included Included		115 116	Stores Stores Office	Miscellaneous Walls	Caulking Walls	White Caulking Cinderblock	High High	No No	Yes No	No No	Good Good		Bulk	V.S. A-002	18-Oct-17													
Included	М	116	Stores Office		Walls	Drywall	High	No	Yes	No	Good		Bulk	V.S. A-017, A- 018, A-021, A- 029, A-030	18-Oct-17													
Included	М	116	Stores Office	Floor	Floor	Concrete	High	No	No	No	Good			0=0,000														
Included	М	116	Stores Office		Ceiling	2' x 4' Ceiling Tiles	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																
	M	117	Stores Office Cylinder Storage		Ceiling Walls	Metal Q-Deck Cinderblock	High High	No No	No No	No No	Good Good																	
Included	M	117	Cylinder Storage  Cylinder Storage		Floor	Concrete  Drywall	High High	No No	No Yes	No No	Good		Bulk	V.S. A-017, A-	18-Oct-17													
Included		118		Walls	Walls Floor	Cinderblock Concrete		No	No No	No No	Good Good			029, A-030														
ilicidaed	IVI	110	Cylinder Storage	1 1001	1 1001	Concrete	riigii	NO	140	140	Good			V.S. A-017, A-														
Included	M	118	Cylinder Storage  Oil/Chemical Room		Ceiling Walls	Drywall  Cinderblock	High High	No No	Yes	No No	Good		Bulk	018, A-021, A- 029, A-030	18-Oct-17													
Included	M	119	Oil/Chemical Room	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	M	119			Ceiling Duct Work	Drywall Grey Duct Mastic	High High	No No	Yes Yes	No No	Good Good	Uninsulated duct.	Bulk Bulk	A-027 V.S. A-028	18-Oct-17 18-Oct-17													
Included Included		120 120			Walls	Cinderblock		No	No	No No	Good Good																	
			Corridor	Floor	Floor	Concrete	High	No	No	INO	Good																	
Included	М	120	Corridor	Ceiling	Ceiling	Concrete  Drywall	High High	No No	Yes	No	Good		Bulk	V.S. A-017, A- 018, A-021, A- 029, A-030	18-Oct-17													
Included	M	120 122		Ceiling Walls			High	No No					Bulk	018, A-021, A-	18-Oct-17													
Included	M	120 122	Corridor Paint Mixing	Ceiling Walls Floor	Ceiling Walls	Drywall Cinderblock	High High	No No	Yes No	No No	Good		Bulk	018, A-021, A-	18-Oct-17													
Included Included Included	M M M	120 122 122 122	Corridor  Paint Mixing Paint Mixing Paint Mixing  Paint Mixing	Ceiling Walls Floor Ceiling Mechanical	Ceiling Walls Floor Ceiling Duct Work	Drywall Cinderblock Concrete Drywall Grey Duct Mastic	High High High High	No No No	Yes No No Yes	No No No	Good Good Good Good	Uninsulated duct.	Bulk	018, A-021, A-029, A-030 V.S. A-017, A-018, A-021, A-	18-Oct-17													
Included Included Included Included Included Included Included	M M M M M M	120 122 122 122 122 122 123 123	Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Media Storage Media Storage	Ceiling Walls Floor Ceiling Mechanical Walls Floor	Ceiling Walls Floor Ceiling Duct Work Walls Floor	Drywall Cinderblock Concrete Drywall Grey Duct Mastic Cinderblock Concrete	High High High High High High High	No	Yes No No Yes Yes No No No	No	Good Good Good Good Good Good Good	Uninsulated duct:	Bulk Bulk	018, A-021, A-029, A-030  V.S. A-017, A-018, A-021, A-029, A-030  V.S. A-028  V.S. A-017, A-07,	18-Oct-17													
Included Included Included Included Included Included Included Included Included	M M M M M M	120 122 122 122 122 123 123 123	Corridor  Paint Mixing Paint Mixing  Paint Mixing  Paint Mixing  Paint Mixing  Media Storage  Media Storage  Media Storage  Media Storage	Ceiling  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Mechanical	Ceiling Walls Floor Ceiling Duct Work Walls Floor Ceiling Duct Work Duct Work	Drywall  Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Concrete  Drywall  Grey Duct Mastic Concrete  Drywall  Grey Duct Mastic	High High High High High High High High	No N	Yes No No Yes Yes No No Yes Yes Yes	No	Good Good Good Good Good Good Good Good		Bulk  Bulk	V.S. A-017, A- 018, A-021, A- 018, A-021, A- 029, A-030 V.S. A-028	18-Oct-17 18-Oct-17													
Included Included Included Included Included Included Included Included Included	M M M M M M M M M	120 122 122 122 122 123 123 123 123	Corridor  Paint Mixing Paint Mixing  Paint Mixing  Paint Mixing  Paint Mixing  Media Storage  Media Storage  Media Storage	Ceiling Walls Floor Ceiling Mechanical Walls Floor Ceiling Mechanical Mechanical Walls	Ceiling Walls Floor Ceiling Duct Work Walls Floor Ceiling Duct Work Walls Walls Duct Work Walls	Drywall Cinderblock Concrete Drywall Grey Duct Mastic Cinderblock Concrete Drywall	High High High High High High High High	No N	Yes No No Yes Yes No No Yes Ves	No	Good Good Good Good Good Good Good Good		Bulk  Bulk	018, A-021, A-029, A-030  V.S. A-017, A-018, A-021, A-029, A-030  V.S. A-017, A-018, A-021, A-029, A-030	18-Oct-17 18-Oct-17													
Included Included Included Included Included Included Included Included Included	M M M M M M M M M M M M M M M M M M M	120 122 122 122 122 123 123 123 124 124	Corridor  Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Media Storage Media Storage Media Storage Media Storage Media Storage Preparation	Ceiling Walls Floor Ceiling Mechanical Walls Floor Ceiling Mechanical Walls Floor	Ceiling Walls Floor Ceiling Duct Work Walls Floor Ceiling Duct Work Duct Work	Drywall  Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Concrete  Cinderblock Cinderblock Cinderblock	High High High High High High High High	No N	Yes No No Yes Yes No No Yes Ves	No	Good Good Good Good Good Good Good Good		Bulk  Bulk  Bulk  Bulk	018, A-021, A-029, A-030  V.S. A-017, A-018, A-021, A-029, A-030  V.S. A-017, A-018, A-021, A-029, A-030	18-Oct-17 18-Oct-17 18-Oct-17													
Included	M M M M M M M M M M M M M M M M M M M	120 122 122 122 122 123 123 123 124 124 124	Corridor  Paint Mixing Paint Mixing Paint Mixing  Paint Mixing  Paint Mixing  Media Storage  Media Storage  Media Storage  Media Storage  Preparation  Preparation  Preparation  Preparation	Ceiling  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling	Ceiling Walls Floor Ceiling Duct Work Walls Floor Ceiling Ceiling Ceiling Duct Work Ceiling Duct Work Duct Work Duct Work Duct Work Duct Work Duct Work	Drywall  Cinderblock Concrete  Drywall  Grey Duct Mastic Concrete  Drywall	High High High High High High High High	No N	Yes No No Yes Yes No No Yes Yes Yes Yes Yes Yes Yes Yes No No Yes	No N	Good Good Good Good Good Good Good Good		Bulk  Bulk  Bulk  Bulk	018, A-021, A-029, A-030  V.S. A-017, A-018, A-021, A-028	18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17													
Included	M M M M M M M M M M M M M M M M M M M	120 122 122 122 122 123 123 123 123	Corridor  Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Media Storage Media Storage Media Storage Media Storage Preparation	Ceiling  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Mechanical  Walls  Mechanical  Walls  Mechanical  Mechanical  Mechanical	Ceiling Walls Floor Ceiling Duct Work Walls Floor Ceiling Duct Work Walls Floor Ceiling Ceiling Ceiling Ceiling	Drywall  Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Concrete  Drywall	High High High High High High High High	No N	Yes No No Yes Yes No No Yes Yes No	No N	Good Good Good Good Good Good Good Good	Uninsulated duct.	Bulk  Bulk  Bulk  Bulk	V.S. A-021, A-029, A-030  V.S. A-017, A-029, A-030  V.S. A-021, A-029, A-030  V.S. A-028  V.S. A-021, A-029, A-030  V.S. A-021, A-029, A-030  V.S. A-028	18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17													
Included	M M M M M M M M M M M M M M M M M M M	120  122  122  122  122  123  123  123	Corridor  Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Media Storage Media Storage Media Storage Media Storage Media Storage Preparation Preparation Preparation Preparation Preparation Painting Painting	Ceiling  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Mechanical  Walls Floor	Ceiling Walls Floor Ceiling Duct Work Walls Floor	Drywall  Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Cinderblock	High High High High High High High High	No N	Yes No No Yes Yes No No Yes Yes No	No N	Good Good Good Good Good Good Good Good	Uninsulated duct.	Bulk  Bulk  Bulk  Bulk  Bulk  Bulk	V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028	18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17													
Included	M M M M M M M M M M M M M M M M M M M	120 122 122 122 122 122 123 123 123 123 124 124 124 125 125 125	Corridor  Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Media Storage Media Storage Media Storage Media Storage Media Storage Preparation Preparation Preparation Preparation Painting Painting Painting	Ceiling  Walls Floor  Ceiling  Mechanical Walls Floor  Ceiling  Mechanical Walls Floor  Ceiling  Mechanical Walls Floor  Ceiling  Mechanical Ceiling  Mechanical Walls Floor  Ceiling	Ceiling Walls Floor Ceiling Duct Work Ceiling Duct Work Ceiling Duct Work Walls Floor Ceiling	Drywall  Cinderblock Concrete  Drywall  Grey Duct Mastic	High High High High High High High High	No N	Yes No No Yes Yes No No Yes Yes No No No Yes Yes No No Yes Yes Yes No No No Yes	No N	Good Good Good Good Good Good Good Good	Uninsulated duct.  Uninsulated duct.	Bulk Bulk Bulk Bulk Bulk Bulk	V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-017, A- 018, A-021, A-	18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17													
Included	M M M M M M M M M M M M M M M M M M M	120  122  122  122  122  122  123  123	Corridor  Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Media Storage Media Storage Media Storage Media Storage Media Storage Preparation Preparation Preparation Preparation Preparation Preparation Painting Painting	Ceiling  Walls Floor  Ceiling  Mechanical  Walls  Floor  Ceiling  Mechanical  Walls	Ceiling Walls Floor Ceiling Duct Work Walls Floor Ceiling Duct Work Walls Floor Ceiling Duct Work Walls Floor Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling	Drywall  Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Concrete  Drywall	High High High High High High High High	No N	Yes No No Yes Yes No No Yes Yes No No Yes Yes Yes No No No Yes Yes No	No N	Good Good Good Good Good Good Good Good	Uninsulated duct.  Uninsulated duct.	Bulk Bulk Bulk Bulk Bulk Bulk	V.S. A-021, A- 029, A-030  V.S. A-017, A- 029, A-030  V.S. A-021, A- 029, A-030  V.S. A-028  V.S. A-021, A- 029, A-030  V.S. A-021, A- 029, A-030  V.S. A-028  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028	18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17													
Included	M M M M M M M M M M M M M M M M M M M	120  122  122  122  122  122  123  123	Corridor  Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Media Storage Media Storage Media Storage Media Storage Preparation Preparation Preparation Preparation Painting Painting Painting Painting Painting Media Blasting	Ceiling  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling	Ceiling Walls Floor Ceiling Duct Work Walls Floor Ceiling Duct Work Walls Floor Ceiling Ceiling Duct Work Walls Floor Ceiling Duct Work Walls Floor Duct Work Walls Floor Duct Work Walls Floor	Drywall Cinderblock Concrete Drywall Grey Duct Mastic Cinderblock Concrete Cinderblock Concrete Cinderblock Concrete	High High High High High High High High	No N	Yes No No Yes Yes No No Yes Yes No No Yes Yes Yes No No No Yes Yes No	No N	Good Good Good Good Good Good Good Good	Uninsulated duct.  Uninsulated duct.	Bulk Bulk Bulk Bulk Bulk Bulk Bulk	V.S. A-021, A- 029, A-030  V.S. A-017, A- 029, A-030  V.S. A-021, A- 029, A-030  V.S. A-028  V.S. A-021, A- 029, A-030  V.S. A-021, A- 029, A-030  V.S. A-028  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028	18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17													
Included	M M M M M M M M M M M M M M M M M M M	120  122  122  122  122  122  123  123	Corridor  Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Media Storage Media Storage Media Storage Media Storage Preparation Preparation Preparation Preparation Painting Painting Painting Media Blasting Media Blasting Media Blasting Media Blasting	Ceiling  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling	Ceiling Walls Floor Ceiling Duct Work Walls Floor Ceiling Ceiling Duct Work Walls Floor Duct Work Ceiling Duct Work Duct Work Duct Work	Drywall  Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Concrete  Drywall	High High High High High High High High	No	Yes	No	Good Good Good Good Good Good Good Good	Uninsulated duct.  Uninsulated duct.  Uninsulated duct.  Uninsulated duct.	Bulk Bulk Bulk Bulk Bulk Bulk Bulk Bulk	V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-018  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028  V.S. A-028	18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17													
Included	M M M M M M M M M M M M M M M M M M M	120 122 122 122 122 122 122 123 123 123 123	Corridor  Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Media Storage Media Storage Media Storage Media Storage Media Storage Preparation Preparation Preparation Preparation Preparation Painting Painting Painting Painting Media Blasting Media Blasting Media Blasting	Ceiling  Walls Floor  Ceiling  Mechanical  Mechanical  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Mechanical  Walls	Ceiling Walls Floor Ceiling Duct Work Walls Floor Ceiling	Drywall  Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Concrete  Drywall	High High High High High High High High	No	Yes No No Yes Yes No No No Yes	No	Good Good Good Good Good Good Good Good	Uninsulated duct.  Uninsulated duct.  Uninsulated duct.  Uninsulated duct.  Grey with brown.	Bulk Bulk Bulk Bulk Bulk Bulk Bulk Bulk	V.S. A-017, A- 029, A-030  V.S. A-017, A- 029, A-030  V.S. A-017, A- 029, A-030  V.S. A-028  V.S. A-017, A- 029, A-030  V.S. A-028  V.S. A-017, A- 029, A-030  V.S. A-028  V.S. A-028  V.S. A-017, A- 029, A-030  V.S. A-028  V.S. A-017, A- 029, A-030  V.S. A-028  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028	18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17													
Included	M M M M M M M M M M M M M M M M M M M	120 122 122 122 122 122 122 123 123 123 123	Corridor  Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Media Storage Media Storage Media Storage Media Storage Preparation Preparation Preparation Preparation Painting Painting Painting Painting Media Blasting Media Blasting Media Blasting Media Blasting Media Blasting Locker Room Locker Room Locker Room	Ceiling  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Ceiling  Ceiling  Ceiling  Ceiling  Ceiling	Ceiling Walls Floor Ceiling Duct Work Walls Floor Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling	Drywall  Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Cinderblock Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Cinderblock Viryl Sheet Flooring 2' x 4' Ceiling Tiles	High High High High High High High High	No	Yes	No	Good Good Good Good Good Good Good Good	Uninsulated duct.  Uninsulated duct.  Uninsulated duct.  Uninsulated duct.	Bulk Bulk Bulk Bulk Bulk Bulk Bulk Bulk	V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-018  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028  V.S. A-028  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028	18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17 18-Oct-17													
Included	M M M M M M M M M M M M M M M M M M M	120 122 122 122 122 122 123 123 123 123 123	Corridor  Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Media Storage Media Storage Media Storage Media Storage Media Storage Preparation Preparation Preparation Preparation Preparation Printing Painting Painting Painting Media Blasting Media Blasting Media Blasting Media Blasting Locker Room Locker Room Locker Room Locker Room	Ceiling  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Ceiling  Ceiling  Ceiling  Ceiling	Ceiling  Walls Floor  Ceiling  Duct Work Ceiling	Drywall  Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Cinderblock Cinderblock Cinderblock Mighant Grey Duct Mastic Cinderblock Grey Duct Mastic Cinderblock Mighant Grey Duct Mastic Cinderblock Grey Duct Mastic Grey Duct Mastic Grey Duct Mastic Cinderblock Grey Duct Mastic	High High High High High High High High	No	Yes   No   No   No   Yes   Yes   No   No   No   Ves   Yes   No   No   Ves   Yes   No   No   Yes   Yes   No   No   No   No   No   No   No   N	No	Good Good Good Good Good Good Good Good	Uninsulated duct.  Uninsulated duct.  Uninsulated duct.  Uninsulated duct.  Grey with brown. Date coded to a time period where asbestos use was not widespread.  Uninsulated duct.	Bulk Bulk Bulk Bulk Bulk Bulk Bulk Bulk	V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-018  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028  V.S. A-028  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028	18-Oct-17													
Included	M M M M M M M M M M M M M M M M M M M	120 122 122 122 122 122 122 123 123 123 123	Corridor  Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Media Storage Media Storage Media Storage Preparation Preparation Preparation Preparation Preparation Preparation Painting Painting Painting Media Blasting Media Blasting Media Blasting Media Blasting Locker Room Locker Room Locker Room Locker Room Locker Room	Ceiling  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling	Ceiling Walls Floor Ceiling Duct Work Walls Floor Ceiling Ceiling Duct Work Walls Floor Duct Work Walls Floor Ceiling Duct Work	Drywall  Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Cinderblock Vinyl Sheet Flooring 2 x 4' Ceiling Tiles  Metal Q-Deck Grey Duct Mastic Fibreglass Wrap	High High High High High High High High	No	Yes   No   No   Yes   No   No   Yes   No   No   No   No   No   No   No   N	No	Good Good Good Good Good Good Good Good	Uninsulated duct.  Uninsulated duct.  Uninsulated duct.  Uninsulated duct.  Grey with brown. Date coded to a time period where asbestos use was not widespread.  Uninsulated duct.  Duct mastic not visible.	Bulk Bulk Bulk Bulk Bulk Bulk Bulk Bulk	V.S. A-017, A-029, A-030  V.S. A-017, A-029, A-030  V.S. A-017, A-029, A-030  V.S. A-028  V.S. A-028  V.S. A-017, A-029, A-030  V.S. A-028  V.S. A-019	18-Oct-17													
Included	M M M M M M M M M M M M M M M M M M M	120 122 122 122 122 122 122 123 123 123 123	Corridor  Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Media Storage Media Storage Media Storage Media Storage Media Storage Preparation Preparation Preparation Preparation Painting Painting Painting Painting Media Blasting Media Blasting Media Blasting Media Blasting Locker Room	Ceiling  Walls Floor  Ceiling  Mechanical  Ceiling  Mechanical  Ceiling  Mechanical  Mechanical  Meshanical  Meshanical  Miscellaneous  Miscellaneous  Walls	Ceiling Walls Floor Ceiling Duct Work Walls Floor Ceiling Ceiling Duct Work Ceiling	Drywall  Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Cinderblock Cinderblock Cinderblock Cinderblock Cinderblock Cinderblock Cinderblock Cinderblock Concrete  Metal Q-Deck Grey Duct Mastic Fibreglass Wrap Grey Caulking Cinderblock	High High High High High High High High	No	Yes	No	Good Good Good Good Good Good Good Good	Uninsulated duct.  Uninsulated duct.  Uninsulated duct.  Uninsulated duct.  Grey with brown. Date coded to a time period where asbestos use was not widespread.  Uninsulated duct.	Bulk Bulk Bulk Bulk Bulk Bulk Bulk Bulk	V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-018  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-018  V.S. A-019  V.S. A-019  V.S. A-019	18-Oct-17													
Included	M M M M M M M M M M M M M M M M M M M	120 122 122 122 122 122 122 123 123 123 123	Corridor  Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Media Storage Media Storage Media Storage Media Storage Media Storage Preparation Preparation Preparation Preparation Preparation Painting Painting Painting Painting Media Blasting Media Blasting Media Blasting Media Blasting Locker Room Janitor Room	Ceiling  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Ceiling  Mechanical  Walls Floor  Ceiling  Mechanical  Walls Floor  Ceiling  Mechanical  Walls  Mechanical  Walls  Miscellaneous  Walls  Floor  Ceiling	Ceiling Walls Floor Ceiling Duct Work Walls Floor Ceiling Duct Work Ceiling Duct Work Walls Floor Ceiling Duct Work Ceiling Duct Work Ceiling Duct Work Ceiling Duct Work Duct	Drywall  Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Cinderblock Cinderblock Cinderblock Cinderblock Cinderblock Cinderblock Fibreglass Wrap Grey Duct Mastic Fibreglass Wrap Grey Caulking Cinderblock Grey Coult Mastic Fibreglass Wrap Grey Caulking Cinderblock Drywall Cinderblock Cinderbloc	High High High High High High High High	No	Yes  No No No Yes  Yes No No No Yes  Yes No No No Yes  Yes No	No	Good Good Good Good Good Good Good Good	Uninsulated duct.  Uninsulated duct.  Uninsulated duct.  Uninsulated duct.  Grey with brown. Date coded to a time period where asbestos use was not widespread.  Uninsulated duct.  Duct mastic not visible.	Bulk Bulk Bulk Bulk Bulk Bulk Bulk Bulk	V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-018  V.S. A-019	18-Oct-17													
Included	M M M M M M M M M M M M M M M M M M M	120 122 122 122 122 122 122 123 123 123 123	Corridor  Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Paint Mixing Media Storage Media Storage Media Storage Media Storage Media Storage Media Storage Preparation Painting Painting Media Blasting Media Blasting Media Blasting Media Blasting Locker Room Locker Room Locker Room Locker Room Locker Room Janitor Room	Ceiling  Walls Floor  Ceiling  Mechanical  Mechanical  Mechanical  Mechanical  Miscellaneous  Walls Floor  Ceiling  Mechanical  Miscellaneous  Walls Floor  Ceiling  Mechanical  Mechanical  Miscellaneous  Walls  Floor  Ceiling  Mechanical  Mechanical	Ceiling Walls Floor Ceiling Duct Work Walls Floor Ceiling Duct Work Walls Floor Ceiling Duct Work Walls Floor Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Duct Work Walls Floor Ceiling Ceiling Duct Work Walls Floor Ceiling Ceiling Duct Work Ceiling Ceiling Duct Work Ceiling Ceiling Duct Work Ceiling Ceiling Duct Work Duct Work Ceiling Ceiling Duct Work Duct Work Coulking Walls Walls Walls Walls Walls Walls Walls Duct Work Ceiling Duct Work Duct Work Coulking Duct Work	Drywall  Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Cinderblo	High High High High High High High High	No	Yes  No No No Yes  Yes No No No Yes  Yes No No No Yes  Yes No	No	Good Good Good Good Good Good Good Good	Uninsulated duct.  Uninsulated duct.  Uninsulated duct.  Uninsulated duct.  Grey with brown.  Date coded to a time period where asbestos use was not widespread.  Uninsulated duct.  Duct mastic not visible.  Building caulking:	Bulk Bulk Bulk Bulk Bulk Bulk Bulk Bulk	V.S. A-021, A- 029, A-030  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-028  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-017, A- 018, A-021, A- 029, A-030  V.S. A-018  V.S. A-019  V.S. A-019	18-Oct-17  18-Oct-17													
Included	M M M M M M M M M M M M M M M M M M M	120 122 122 122 122 122 122 123 123 123 123	Corridor  Paint Mixing Media Storage Media Storage Media Storage Media Storage Preparation Preparation Preparation Preparation Preparation Preparation Preparation Painting Painting Painting Media Blasting Media Blasting Media Blasting Media Blasting Locker Room Locker Room Locker Room Locker Room Janitor Room	Ceiling  Walls Floor Ceiling  Mechanical Miscellaneous Walls Floor Ceiling  Mechanical Miscellaneous Walls Floor Ceiling Mechanical Miscellaneous Walls Walls Floor Ceiling Mechanical Miscellaneous Walls	Ceiling Walls Floor Ceiling Duct Work Ceiling	Drywall  Cinderblock Concrete  Drywall  Grey Duct Mastic Cinderblock Concrete  Metal Q-Deck Grey Duct Mastic Fibreglass Wrap Grey Caulking Cinderblock Drywall	High High High High High High High High	No	Yes  No No No Yes  Yes No No No Yes  Yes No No No Yes  Yes No No No Yes  No	No	Good Good Good Good Good Good Good Good	Uninsulated duct.  Uninsulated duct.  Uninsulated duct.  Uninsulated duct.  Grey with brown. Date coded to a time period where asbestos use was not widespread.  Uninsulated duct. Duct mastic not visible. Building caulking.	Bulk Bulk Bulk Bulk Bulk Bulk Bulk Bulk	V.S. A-021, A- 029, A-030  V.S. A-017, A- 029, A-030  V.S. A-028  V.S. A-028  V.S. A-017, A- 029, A-030  V.S. A-028  V.S. A-017, A- 029, A-030  V.S. A-028  V.S. A-028  V.S. A-017, A- 029, A-030  V.S. A-028  V.S. A-017, A- 029, A-030  V.S. A-028  V.S. A-019  V.S. A-028  V.S. A-019  V.S. A-028	18-Oct-17  18-Oct-17													

Included/	Floor	Room	# Area Description	Elements	Subelements	Material Description	Accessibility S	Suspect? S	Sampled?	Asbestos Containing	Condition	Field Notes	Sample	Sample ID	Sample	Asbestos	ACM Product	% of asbestos	Friable	Sprayed-on	Maintenance	Inspection	Priority	Potential for	Recommended	Quantity	Photograph ID	Labelling Type
Included	М	128		Mechanical	Piping	Metal Pipes	High	No		Material?	Good	Bare or insulated with fibreglass and PVC fittings.	Туре	·	Date	Туре						·		Disturbance	Action	,		
Included					Duct Work Caulking	Dark Grey Duct Mastic Grey Caulking	High High	No No	Yes Yes	No No	Good Good	Uninsulated duct. Building caulking.		V.S. A-022 V.S. A-004														
Included	М	129	Parts and Loading Dock	Walls	Walls Floor	Cinderblock 12" x 12" Vinyl Floor Tiles	High High	No No	No Yes	No No	Good Good	Beige with tan smears.			18-Oct-17				-									
Included	М	129	Parts and Loading Dock	Ceiling	Ceiling	Metal Q-Deck	High	No	No	No	Good																	
	М	130	Large Meter Test Room	Walls	Duct Work Walls	Grey Duct Mastic Cinderblock	High High	No No	Yes No	No No	Good Good	Uninsulated duct.	Bulk	A-006	18-Oct-17													
Included		130 130			Floor Ceiling	Concrete Metal Q-Deck	High High	No No	No No	No No	Good Good																	
Included	М		Large Meter Test Room	Windows	Caulking	Black Caulking Insulation	High High	No No	Yes Yes	No No	Good Good	On window panes. On pipe fittings.	Bulk	V.S.A-001 A-031	18-Oct-17													
			Large Meter Test Room		Caulking	Grey Caulking	High	No	Yes	No	Good	Building caulking.		V.S. A-004														
Included	М	131	Parking Garage	Walls	Walls	Cinderblock	High	No	Yes	Yes	Good	Vermiculite was observed to have leaked from the wall cavity on to the floor. The loose vermiculite was subsequently cleaned by the Client following its identification.	Bulk	A-003	18-Oct-17	Actinolite	Loose-Fill Vermiculite Insulation	Trace	Yes	No	N/A	Annually	5	Low	Manage in place. Clean up if leaks observed.	Suspected throughout exterior walls of original building.	Photograph 1	
Included Included					Floor Ceilina	Concrete Metal Q-Deck	High High	No No	No No	No No	Good Good								-									
Included	М	131			Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.																
Included					Duct Work	Dark Grey Duct Mastic	High	No	Yes	No	Good	Uninsulated duct.		V.S. A-022														
Included Included	М	131	Parking Garage	Windows Windows	Caulking Caulking	White Caulking Black Caulking	High High	No No	Yes Yes	No No	Good Good	On window frames. On window panes.	Bulk Bulk	A-001														
Included					Caulking Walls	Grey Caulking Cinderblock	High High	No No	Yes No	No No	Good Good	Building caulking.	Bulk	A-004	18-Oct-17													
Included Included	М	132	Office	Floor	Floor Ceiling	Vinyl Sheet Flooring 2' x 4' Ceiling Tiles	High High	No No	Yes No	No No	Good Good	Grey with brown. Fibreglass.	Bulk	V.S. A-007	18-Oct-17													
Included Included	М	132	Office		Ceiling Space	Metal Q-Deck White Caulking	High	No No	No Yes	No No	Good	On window frames.	Bulk	V.S. A-002	18-Oot 17													
Included	М	133	Corridor	Walls	Caulking Walls	Cinderblock	High High	No	No	No	Good	On window frames.	DUIK	v.o. M-UUZ	10-UUI-17													
Included Included	M	133	Corridor	Ceiling	Floor Ceiling	Concrete Metal Q-Deck	High High	No No	No No	No No	Good Good																	
Included Included					Caulking Walls	Grey Caulking Cinderblock	High High	No No	Yes No	No No	Good Good	Building caulking.	Bulk	V.S. A-004	18-Oct-17													
Included Included					Walls Floor	Drywall Vinyl Sheet Flooring	High High	No No	Yes Yes	No No	Good Good	Grey with brown.	Bulk	A-011 A-007	18-Oct-17 18-Oct-17													
Included	М	134			Ceiling	2' x 4' Ceiling Tiles	High	No	No	No	Good	Date coded to a time period where asbestos use was not	Built	71 001	10 00.11													
Included					Ceiling Caulking	Metal Q-Deck White Caulking	High High	No No	No Yes	No No	Good	widespread. On window frames.	Bulk	V.S. A-002	18-Oct-17													
Included	M	134			Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass	Buik	V.O. A-002	10-000-17													
Included				Mechanical	Duct Work	Fibreglass Wrap	High	No	No	No	Good	and PVC fittings. Duct mastic not visible.																
Included	M				Duct Work Sink	Grey Duct Mastic White Undercoat	High High	No No	Yes Yes	No No	Good Good	Uninsulated duct.		V.S. A-006 A-008														
Included		135A 135A			Walls Walls	Cinderblock Drywall	High High	No No	No Yes	No No	Good Good		Bulk	A-010	18-Oct-17													
Included		135A 135A			Floor Ceiling	Concrete Metal Q-Deck	High High	No No	No No	No No	Good Good																	
Included	М	135A			Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.																
Included					Duct Work	Fibreglass Wrap	High	No	No	No	Good	No mastic on fibreglass.																
	М	135A	Fitting and Test Area	Mechanical Windows	Duct Work Caulking	Dark Grey Duct Mastic Black Caulking	High High	No No	Yes Yes	No No	Good Good	Uninsulated duct. On window panes.	Bulk	V.S. A-022 V.S.A-001	18-Oct-17													
Included Included		135B 135B			Walls Floor	Drywall Vinyl Sheet Flooring	High High	No No	Yes Yes	No No	Good Good	Grey with brown.	Bulk Bulk	A-009 V.S. A-007	18-Oct-17 18-Oct-17													
Included	М	135B	Office	Ceiling	Ceiling	2' x 4' Ceiling Tiles	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																
Included		135B 135B		Ceiling Windows	Ceiling Space Caulking	Metal Q-Deck White Caulking	High High	No No	No Yes	No No	Good Good	On window frames.	Bulk	V.S. A-002	18-Oct-17													
Included	М	135B	Office	Windows	Caulking	Black Caulking	High	No	Yes	No	Good	On window panes.  Bare or insulated with fibreglass		V.S.A-001														
Included	M	135B	Office Office		Piping Duct Work	Metal Pipes Fibreglass Wrap	High High	No No	No No	No No	Good	and PVC fittings.  No mastic on fibreglass.																
Included					Duct Work	Grey Duct Mastic	High	No	Yes	No	Good	Uninsulated duct.	Bulk	V.S. A-006 V.S. A-009, A-	18-Oct-17													
Included	М	135C			Walls	Drywall	High	No	Yes	No	Good	0 31 1	Bulk	010, A-011	18-Oct-17													
Included		135C			Floor Ceiling	Vinyl Sheet Flooring 2' x 4' Ceiling Tiles	High High	No No	Yes No	No No	Good	Grey with brown.  Date coded to a time period where asbestos use was not	Bulk	V.S. A-007	18-Oct-17													
		135C			Ceiling Space		High	No	No	No	Good	widespread.			40.5													
		135C 135C			Caulking Caulking	White Caulking Black Caulking	High High	No No	Yes Yes	No No	Good Good	On window frames. On window panes.		V.S. A-002 V.S.A-001														
Included	М	135C	Office		Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.																
		135C 135C			Duct Work Duct Work	Fibreglass Wrap Grey Duct Mastic	High High	No No	No Yes	No No	Good Good	No mastic on fibreglass. Uninsulated duct.	Bulk	V.S. A-006	18-Oct-17													
Included	М	135D	Office	Walls	Walls	Drywall	High	No	Yes	No	Good		Bulk	V.S. A-009, A- 010, A-011	18-Oct-17													
Included		135D 135D			Floor Ceiling	Vinyl Sheet Flooring 2' x 4' Ceiling Tiles	High High	No No	Yes No	No No	Good	Grey with brown.  Date coded to a time period where asbestos use was not	Bulk	V.S. A-007	18-Oct-17													
Included	M	135D	Office	Ceiling	Ceiling Space	Metal Q-Deck	High	No	No	No	Good	widespread.																
		135D 135D	Office Office	Windows Windows	Caulking Caulking	White Caulking Black Caulking	High High	No No	Yes Yes	No No	Good Good	On window frames. On window panes.		V.S. A-002 V.S.A-001														
Included		135D		1	Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.																
		135D 135D			Duct Work Duct Work	Fibreglass Wrap Grey Duct Mastic	High High	No No	No Yes	No No	Good Good	No mastic on fibreglass. Uninsulated duct.	Bulk	V.S. A-006	18-Oct-17													
Included	М	136	Entrance	Walls	Walls	Drywall	High	No	Yes	No	Good		Bulk	A-012, A-014	18-Oct-17													
		136 136			Floor Floor	Vinyl Sheet Flooring Vinyl Sheet Flooring	High High	No No	Yes Yes	No No	Good Good			V.S. A-007 A-013														
Included	М	136	Entrance	Ceiling	Ceiling	2' x 4' Ceiling Tiles	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																
Included Included		136 136			Ceiling Space Caulking	Metal Q-Deck Black Caulking	High High	No No	No Yes	No No	Good Good	On door windows.	Bulk	V.S.A-001	18-Oct-17													
Included		136		1	Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.	Suit	V.S.A-001	10.000=17													
Included			Entrance	Mechanical	Duct Work	Fibreglass Wrap	High	No	No	No	Good	No mastic on fibreglass.			40.7													
Included	M	136	Entrance	Mechanical	Duct Work	Grey Duct Mastic	High	No	Yes	No	Good	Uninsulated duct.	Bulk	V.S. A-006	18-Oct-17													

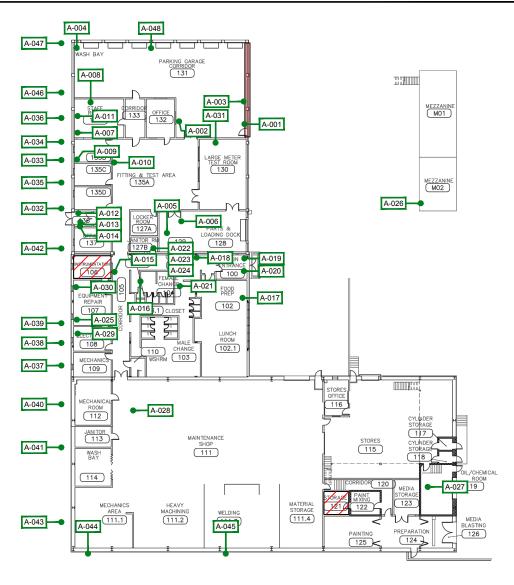
Included/ Excluded Floo	r Room#	Area Description	Elements	Subelements	Material Description	Accessibility	Suspect?	Sampled?	Asbestos Containing Material?	Condition	Field Notes	Sample Type	Sample ID	Sample Date	Asbestos Type	ACM Product	% of asbestos	Friable	Sprayed-on	Maintenance	Inspection	Priority	Potential for Disturbance	Recommended Action	Quantity	Photograph ID	Labelling Type
Included M	137	Office	Walls	Walls	Drywall	High	No	Yes	No	Good		Bulk	V.S. A-009, A 010, A-011	18-Oct-17													
Included M	137	Office	Floor	Floor	Vinyl Sheet Flooring	High	No	Yes	No	Good	Grey with brown.	Bulk	V.S. A-007	18-Oct-17													
Included M	137	Office	Ceiling	Ceiling	2' x 4' Ceiling Tiles	High	No	No	No	Good	Date coded to a time period where asbestos use was not widespread.																
Included M		Office	Ceiling	Ceiling Space	Metal Q-Deck	High	No	No	No	Good																	
Included M	137	Office	Windows	Caulking	White Caulking	High	No	Yes	No	Good	On window frames.	Bulk	V.S. A-002	18-Oct-17													
Included M	137	Office	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.																
Included M	137	Office	Mechanical	Duct Work	Grey Duct Mastic	High	No	Yes	No	Good	Uninsulated duct.	Bulk	V.S. A-006														
Included S	M01/M02	Mezzanine	Walls	Walls	Drywall	High	No	Yes	No	Good		Bulk	A-026	18-Oct-17													
Included S		Mezzanine	Walls	Walls	Metal	High	No	No	No	Good																	
Included S	M01/M02		Floor	Floor	Concrete	High	No	No	No	Good																	
Included S		Mezzanine	Ceiling	Ceiling	Metal Q-Deck	High	No	No	No	Good																	
Included S	M01/M02	Mezzanine	Mechanical	Duct Work	Dark Grey Duct Mastic	High	No	Yes	No	Good	Uninsulated duct.	Bulk	V.S. A-022	18-Oct-17													
Included E	Exterior	Exterior	Walls	Walls	Brick (Original)	High	No	Yes	No	Good	Brick mortar sampled.	Bulk	A-046, A-047, A-048	18-Oct-17													
Included E	Exterior	Exterior	Walls	Walls	Brick (2006 Addition)	High	No	Yes	No	Good	Brick mortar sampled.	Bulk	A-042, A-043, A-044, A-045	18-Oct-17													
Included E	Exterior	Exterior	Walls	Walls	Stucco Board	High	No	Yes	No	Good	On foundation.	Bulk	A-036	18-Oct-17													
Included E			Walls	Walls	Cement Board	High	No	Yes	No	Good	On foundation.	Bulk	A-039	18-Oct-17													
Included E	Exterior	Exterior	Windows	Caulking	Black Caulking (Original)	High	No	Yes	No	Good	On door windows.	Bulk	A-032	18-Oct-17													
Included E	Exterior	Exterior	Windows	Caulking	Black Caulking (2006 Addition)	High	No	Yes	No	Good	On window panes.	Bulk	A-038	18-Oct-17													
Included E	Exterior	Exterior	Windows	Caulking	Grey Caulking (2006 Addition)	High	No	Yes	No	Good	On window frames.	Bulk	A-037	18-Oct-17													
Included E	Exterior	Exterior	Miscellaneous	Firestop	Grey Firestop Putty (Original)	High	No	Yes	No	Good		Bulk	A-033	18-Oct-17													
Included E	Exterior	Exterior	Miscellaneous	Firestop	Grey Firestop Putty (2006 Addition)	High	No	Yes	No	Good		Bulk	A-040	18-Oct-17													
Included E	Exterior	Exterior	Miscellaneous	Caulking	Grey Caulking (Original)	High	No	Yes	No	Good	On expansion joint.	Bulk	A-034	18-Oct-17													
Included E	Exterior	Exterior	Miscellaneous	Caulking	Grey Caulking (2006 Addition)	High	No	Yes	No	Good	On expansion joint.	Bulk	A-041	18-Oct-17													
Included E	Exterior	Exterior	Miscellaneous	Tar	Black Tar (Original)	High	No	Yes	No	Good	On foundation.	Bulk	A-035	18-Oct-17													
Excluded E	Exterior	Roof	Exterior Roof	Exterior Roof							Not assessed due to scope of work.																
Excluded M	106	Instrumentation	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided.																
Excluded M	121	Storage	Entire Room	Entire Room	N/A	N/A	N/A	N/A	N/A	N/A	Access to area was not provided.																



# **APPENDIX D**

Floor Plan





#### LEGEND



ASBESTOS SAMPLE LOCATION

ASBESTOS - CONTAINING LOOSE FILL VERMICULITE

INSULATION OBSERVED

NO ACCESS

#### NOTE(S)

- 1. ASBESTOS IS A CARCINOGEN. DO NOT BREATHE ASBESTOS DUST.
- ADDITIONAL ASBESTOS-CONTAINING VERMICULITE INSULATION MAY BE LOCATED IN OTHER CINDERBLOCK WALLS THROUGHOUT THE SITE.

#### REFERENCE(S)

PLAN OBTAINED FROM INFRASTRUCTURE SERVICES DEPARTMENT CITY OF SASKATOON. DATED: 09/28/2017

CLIENT

#### CITY OF SASKATOON

CONSULTANT

YYYY-MM-DD

2017-12-05

DESIGNED

KH

PREPARED

VI

REVIEWED

KH

APPROVED

AG

#### SCHEMATIC ONLY, NOT TO SCALE

PROJECT
ASBESTOS ASSESSMENT
WATER METER SHOP
1101 SPADINA CRESCENT WEST

TITLE

#### **MAIN FLOOR**

_	PROJECT NO.	CONTROL	REV.	FIGURE
	1667963	1000-HM-0001	0	1

25 mm IF THIS MEASUREMENT DC

As a global, employee-owned organisation with over 50 years of experience, Golder Associates is driven by our purpose to engineer earth's development while preserving earth's integrity. We deliver solutions that help our clients achieve their sustainable development goals by providing a wide range of independent consulting, design and construction services in our specialist areas of earth, environment and energy.

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