

CITY OF SASKATOON

Asbestos-Containing Building Materials Assessment Report - Transit Body 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 Transit Body Shop (the Site) located in Saskatoon, Saskatchewan. This assessment report details our findings, conclusions and recommendations for the Site. A walkthrough of the Site was conducted on September 6, 2017, by Kody Henderson, OHS Project Manager, and the assessment was conducted on October 19, 2017 by Scott Bishop, Junior Occupational Hygienist. Asbestos-containing building materials were identified within the Transit Body 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 Transit Body Shop consists of several bays, offices, washrooms and mechanical/equipment rooms, and was constructed in 1984. During the assessment, the entire building was treated as one functional space.

- 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 asbestoscontaining 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 thirty-four (34) samples of building materials were collected and tested for asbestos content during the assessment of the Transit Body 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.

Black window caulking.

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

Black Window Caulking

One (1) sample of black window caulking was collected during the assessment. The sample collected was found to contain 5.6% Chrysotile asbestos. Asbestos-containing black window caulking (see Photograph 1 in Appendix B) was observed in the following locations:

Room 102 (approximately 15 linear ft).

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:

- Drywall joint compound;
- 12" x 12" vinyl floor tiles with brown smears, and mastic below;
- 12" x 12" vinyl floor tiles, grey with brown smears, and mastic below;
- 2' x 4' ceiling tiles;
- Ceiling stipple;
- Grey window caulking;





ASSESSMENT REPORT - TRANSIT BODY SHOP

- White sink undercoat;
- Vinyl sheet flooring, green and white, and mastic below;
- Light grey duct mastic;
- White caulking;
- Vinyl sheet flooring, white with grey and beige spots;
- Concrete floor skim coat;
- Dark grey duct mastic;
- 12" x 12" vinyl floor tiles, white with beige smears, and mastic below;
- 12" x 12" vinyl floor tiles, tan, and mastic below;
- Exterior brick mortar;
- Exterior grey building caulking;
- Exterior brown window caulking;
- Exterior black window caulking; and
- The walls were generally observed to be drywall with non-asbestos-containing drywall joint compound, with non-asbestos-containing 2'x4' ceiling tiles, ceiling stipple, and drywall with the flooring consisting of various non-asbestos-containing vinyl floor products.

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.





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 the black window caulking 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.

Black Window Caulking

If scheduled for impact, asbestos-containing black window caulking should be abated following low-risk abatement work procedures as outlined in the *Saskatchewan Asbestos Abatement Manual* (2017). Alternatively, as the caulking was observed in good condition, 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 caulking can be managed in place if not scheduled for impact.

6.0 SURVEY LIMITATIONS

This report is based on data and information collected by Golder during the assessment conducted on October 19, 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 kody_henderson@golder.com. 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





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

Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd Report Date: 10/31/2017

16820 107 Ave Report No.: 550359 - PLM

Edmonton AB T5P 4C3 Project: City of Saskatoon - Transit Shop

Project No.: 1667963

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6371094 Analyst Observation: Black Glazing Location: Room 102

Client No.: A-001 Client Description: Black Window Glazing Facility:

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

PC 5.6 Chrysotile None Detected 94.4

Lab No.: 6371095 Analyst Observation: White Joint Compound Location: Room 102

Client No.: A-002 Client Description: Drywall Joint Compound Facility:

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

None Detected None Detected 100

Lab No.: 6371096 Analyst Observation: White Joint Compound Location: Room 105A

Client No.: A-003 Client Description: Drywall Joint Compound Facility:

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

None Detected None Detected 100

Lab No.: 6371096(L2) Analyst Observation: Yellow Mastic Location: Room 105A

Client No.: A-003 Client Description: Drywall Joint Compound Facility:

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

None Detected None Detected 10

Lab No.: 6371097 Analyst Observation: White Joint Compound Location: Room 105B

Client No.: A-004 Client Description: Drywall Joint Compound Facility:

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

None Detected None Detected 100

Lab No.: 6371098 Analyst Observation: Brown Floor Tile; 12x12 Location: Room 105B

Client No.: A-005 Client Description: 12"x12" Brown Smears 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

Date Analyzed: 10/31/2017

Dated: 10/31/2017 4:41:26

Signature:

Analyst: Tiffany Lowe

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

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

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Client: Golder Associates Ltd Report Date: 10/31/2017

16820 107 Ave Report No.: 550359 - PLM

Edmonton AB T5P 4C3 Project: City of Saskatoon - Transit Shop

Project No.: 1667963

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6371098(L2) Analyst Observation: Black Mastic Location: Room 105B

Client No.: A-005 Client Description: 12"x12" Brown Smears Facility:

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

None Detected None Detected 10

Lab No.: 6371099 Analyst Observation: White Joint Compound Location: Room 106

Client No.: A-006 Client Description: Drywall Joint Compound Facility:

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

None Detected None Detected 10

Lab No.: 6371100 **Analyst Observation:** Grey Floor Tile; 12x12 **Location:** Room 106

Client No.: A-007 Client Description: 12"x12" Grey With Brown Smears Facility:

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

None Detected None Detected 100

Lab No.: 6371100(L2) Analyst Observation: Black Mastic Location: Room 106

Client No.: A-007 Client Description: 12"x12" Grey With Brown Smears Facility:

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

None Detected None Detected 10

Lab No.: 6371101 Analyst Observation: White Ceiling Texture Location: Room 106

Client No.: A-008 Client Description: Ceiling Texture Facility:

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

None Detected 5 Cellulose 95

Lab No.: 6371102 Analyst Observation: White Ceiling Texture Location: Room 111

Client No.: A-009 Client Description: Ceiling Texture Facility:

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

None Detected 5 Cellulose 95

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

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Signature:

Analyst: Tiffany Lowe

Dated: 10/31/2017 4:41:26

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Project No.: 1667963

PLM BULK SAMPLE ANALYSIS SUMMARY

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Lab No.: 6371103 Analyst Observation: White Ceiling Texture Location: Room 110

Client No.: A-010 Client Description: Ceiling Texture Facility:

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

None Detected 5 Cellulose 95

Lab No.: 6371104 Analyst Observation: Grey Glazing Location: Room 106

Client No.: A-011 Client Description: Grey Window Glazing Facility:

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

None Detected None Detected 10

Lab No.: 6371105 Analyst Observation: White Sink Undercoating Location: Room 107

Client No.: A-012 Client Description: White Sink Undercoat Facility:

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

None Detected None Detected 10

Lab No.: 6371106 **Analyst Observation:** White Vinyl Sheet Flooring **Location:** Room 108

Client No.: A-013 Client Description: Vinyl Sheet Flooring White With Blue Facility:

And Grey

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

None Detected 10 Cellulose 80

10 Fibrous Glass

Lab No.: 6371107 Analyst Observation: Green Vinyl Sheet Flooring Location: Room 102

Analyst Observation. Green vinys sheet Probling Location. Room 10

Client No.: A-014 Client Description: Vinyl Sheet Flooring Green And White Facility:

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

None Detected None Detected 100

Lab No.: 6371107(L2) Analyst Observation: Yellow Mastic Location: Room 102

Client No.: A-014 Client Description: Vinyl Sheet Flooring Green And White 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

Date Analyzed: 10/31/2017

Dated: 10/31/2017 4:41:26

Analyst:

Signature:

Tiffany Lowe

Approved By:

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16820 107 Ave Report No.: 550359 - PLM

Edmonton AB T5P 4C3 Project: City of Saskatoon - Transit Shop

> 1667963 Project No.:

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6371108 Analyst Observation: Lt Grev Mastic **Location:** Mezzanine

Client No.: A-015 **Client Description:** Lt 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.:** 6371109 **Location:** Room 110

Client No.: A-016 Client Description: Drywall Joint Compound **Facility:**

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

None Detected None Detected

Lab No.: 6371109(L2) Analyst Observation: Yellow Mastic Location: Room 110

Client No.: A-016 Client Description: Drywall Joint Compound **Facility:**

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

None Detected None Detected

Lab No.: 6371110 **Analyst Observation:** White Caulk Location: Room 111

Client No.: A-017 **Client Description:** White Caulking **Facility:**

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

None Detected None Detected

Analyst Observation: White Vinyl Sheet Flooring Location: Room 109 Lab No.: 6371111

Client Description: Vinyl Sheet Flooring - White With Grey **Facility:** Client No.: A-018

And Beige Spots

Percent Asbestos: Percent Non-Asbestos Fibrous Material:

Percent Non-Fibrous Material:

None Detected 20 Cellulose 5 Fibrous Glass

Lab No.: 6371112 **Analyst Observation:** White Caulk **Location:** Refurb Bay

Client No.: A-019 **Client Description:** White Window On Duct **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:

10/31/2017 Date Analyzed:

Signature: Tiffany Lowe Analyst:

Dated: 10/31/2017 4:41:26 Page 4 of 10 Approved By:

Frank E. Ehrenfeld, III Laboratory Director



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CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd Report Date: 10/31/2017

16820 107 Ave Report No.: 550359 - PLM

Edmonton AB T5P 4C3 Project: City of Saskatoon - Transit Shop

Project No.: 1667963

PLM BULK SAMPLE ANALYSIS SUMMARY

 Lab No.: 6371113
 Analyst Observation: White Sheetrock/Joint Compound
 Location: Machine Shop

Client No.: A-020 Composite Facility:

Client Description: Drywall Joint Compound

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

None Detected 3 Cellulose 96

1 Fibrous Glass

Lab No.: 6371114 Analyst Observation: Grey Plaster Location: Room 110

Client No.: A-021 Client Description: Concrete Skim Coat Facility:

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

None Detected None Detected 100

Lab No.: 6371115 Analyst Observation: Grey Plaster Location: Room 110

Client No.: A-022 Client Description: Concrete Skim Coat 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.: 6371116 Analyst Observation: Red Plaster Location: Room 111

Client No.: A-023 Client Description: Concrete Skim Coat Facility:

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

None Detected None Detected 100

Lab No.: 6371117 Analyst Observation: Dk Grey Mastic Location: Mezzanine

Client No.: A-024 Client Description: Dark Grey Duct Mastic Facility:

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

None Detected None Detected 100

Client No.: A-025 Client Description: 12"x12" White WIth Beige Smears 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

Date Analyzed: 10/31/2017

Signature:

Analyst: Tiffany Lowe

Dated: 10/31/2017 4:41:26

Approved By:

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16820 107 Ave Report No.: 550359 - PLM

Edmonton AB T5P 4C3 Project: City of Saskatoon - Transit Shop

> 1667963 Project No.:

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6371118(L2) Analyst Observation: Black Mastic Location: Room 105B

Client Description: 12"x12" White WIth Beige Smears Client No.: A-025 **Facility:**

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

None Detected None Detected

Analyst Observation: White Joint Compound **Lab No.:** 6371119 **Location:** Room 112

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

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

None Detected None Detected

Lab No.: 6371120 **Analyst Observation:** Tan Floor Tile; 12x12 Location: Room 104

Client Description: 12"x12" Tan Smears **Facility:** Client No.: A-027

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

None Detected None Detected 100

Lab No.: 6371120(L2) **Analyst Observation:** Black Mastic Location: Room 104

Client No.: A-027 Client Description: 12"x12" Tan Smears **Facility:**

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

None Detected None Detected

Analyst Observation: Dk Grey Mortar Location: Exterior Lab No.: 6371121

Client Description: Brick Mortar Client No.: A-028 **Facility:**

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

None Detected 100 None Detected

Lab No.: 6371121(L2) **Analyst Observation:** Grey Mortar Location: Exterior

Client No.: A-028 Client Description: Brick Mortar **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:

Dated: 10/31/2017 4:41:27

10/31/2017 Date Analyzed:

Signature: Tiffany Lowe Analyst:

Frank E. Ehrenfeld, III Laboratory Director

Approved By:

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16820 107 Ave Report No.: 550359 - PLM

Edmonton AB T5P 4C3 Project: City of Saskatoon - Transit Shop

Project No.: 1667963

PLM BULK SAMPLE ANALYSIS SUMMARY

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Lab No.: 6371122 Analyst Observation: Grey Mortar Location: Exterior

Client No.: A-029 Client Description: Brick Mortar Facility:

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

None Detected None Detected 100

Lab No.: 6371123 Analyst Observation: Grey Mortar Location: Exterior

Client No.: A-030 Client Description: Brick Mortar Facility:

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

None Detected None Detected 100

Lab No.: 6371124 Analyst Observation: Grey Caulk Location: Exterior

Client No.: A-031 Client Description: Grey Building Caulking Facility:

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

None Detected None Detected 10

Lab No.: 6371125 Analyst Observation: Grey Caulk Location: Exterior

Client No.: A-032 Client Description: Grey Window Caulking Facility:

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

None Detected None Detected 100

Lab No.: 6371126 Analyst Observation: Brown Caulk Location: Exterior

Client No.: A-033 Client Description: Brown Window Caulking Facility:

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

None Detected None Detected 100

Lab No.: 6371127 Analyst Observation: Black Caulk Location: Exterior

Client No.: A-034 Client Description: Black Window Glazing 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

Date Analyzed: 10/31/2017

Dated: 10/31/2017 4:41:27

Signature:

Analyst: Tiffany Lowe

Approved By:

Frank E. Ehrenfeld, III Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd Report Date: 10/31/2017

16820 107 Ave Report No.: 550359 - PLM

Edmonton AB T5P 4C3 Project: City of Saskatoon - Transit Shop

Project No.: 1667963

Client: GOL572

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

Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd Report Date: 10/31/2017

16820 107 Ave Report No.: 550359 - PLM

Edmonton AB T5P 4C3 Project: City of Saskatoon - Transit Shop

Client: GOL572 Project No.: 1667963

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.

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

Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd

16820 107 Ave

Edmonton AB T5P 4C3

Client: GOL572

Report Date: 10/31/2017

Report No.: 550359 - PLM

Project: City of Saskatoon - Transit 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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^{**}Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).



APPENDIX B

Site Photographs





Photograph 1: Asbestos-Containing Black Window Caulking.





APPENDIX C

Transit Body Shop Room by Room Spreadsheet



Appendix C ACM Inventory Transit Body Shop

	1			1			1		A.L		1						T	1					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 M	Throughout	Throughout	Door	Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect doors were observed at the Site.																
Included M	101	Meeting Room	Walls	Walls	Drywall	High	No	Yes	No	Good		Bulk	V.S. A-002, A-003. A- 004, A-006, A-020, A- 026	19-Oct-17													
Included M	101	Meeting Room	Floor	Floor	12" x 12" Vinyl Floor Tiles	High	No	Yes	No	Good	Tan smears. Date coded to a time period	Bulk	V.S. A-027	19-Oct-17													
Included M	101	Meeting Room	Ceiling	Ceiling	2' x 4' Ceiling Tiles	High	No	No	No	Good	where asbestos use was not widespread.																
Included M Included M		Meeting Room Meeting Room	Ceiling Windows	Ceiling Space Rubber	Fibreglass Rubber Gaskets	High High	No No	No No	No No	Good Good	No mastic observed.																
Included M	101	Meeting Room	Mechanical	Duct Work	Duct Work	High	No	No	No	Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints.																
Included M Included M		Entry/Hallway Entry/Hallway	Walls Floor	Walls Floor	Drywall Vinyl Sheet Flooring	High High	No No	Yes Yes	No No	Good Good	1	Bulk Bulk	A-002 A-014	19-Oct-17 19-Oct-17													
Included M		Entry/Hallway	Ceiling		2' x 4' Ceiling Tiles	High	No	No	No	Good	Date coded to a time period where asbestos use was not	Buik	7.011	10 00.11													
Included M		Entry/Hallway	Ceiling	Ceiling Space	_	High		No	No	Good	widespread.																
Included M		Entry/Hallway	Windows		Black Caulking	High	No		No	Good	On window panes. Fibreglass wrapped (no visible	Bulk	A-001	19-Oct-17	Chrysotile	Caulking	5.6	No	No	N/A	Annually	5	High	Manage in place.	15 ft.	Photograph 1	
Included M	102	Entry/Hallway	Mechanical	Duct Work	Duct Work	High	No	No	No	Good	mastic) or bare with foil wrapped joints.																
Included M	103	Reception/Dispatch	Walls	Walls	Drywall	High	No	Yes	No	Good		Bulk	V.S. A-002, A-003. A- 004, A-006, A-020, A- 026														
Included M		Reception/Dispatch	Floor	Floor	Vinyl Sheet Flooring	High	No	Yes	No	Good	Green and white. Date coded to a time period	Bulk	V.S. A-014	19-Oct-17													
Included M	103	Reception/Dispatch	Ceiling	Ceiling	2' x 4' Ceiling Tiles	High	No	No	No	Good	where asbestos use was not widespread.																
Included M	103	Reception/Dispatch	Ceiling	Ceiling Space	Fibreglass	High	No	No	No	Good	Fibreglass wrapped (no visible																
Included M	103	Reception/Dispatch	Mechanical	Duct Work	Duct Work	High	No	No	No	Good	mastic) or bare with foil wrapped joints.																
Included M	104	Supervisor Office	Walls	Walls	Drywall	High	No	Yes	No	Good		Bulk	V.S. A-002, A-003. A- 004, A-006, A-020, A- 026	19-Oct-17													
Included M	104	Supervisor Office	Floor	Floor	12" x 12" Vinyl Floor Tiles	High	No	Yes	No	Good	Tan smears. Date coded to a time period	Bulk	A-027	19-Oct-17													
Included M		Supervisor Office	Ceiling		2' x 4' Ceiling Tiles	High	No	No	No	Good	where asbestos use was not widespread.																
Included M Included M		Supervisor Office Supervisor Office	Ceiling Windows	Ceiling Space Rubber	Rubber Gaskets	High High	No No	No No	No No	Good Good	No mastic observed.																
Included M Included M		Office Office	Walls Floor	Walls Floor	Drywall 12" x 12" Vinyl Floor Tiles	High High	No No	Yes Yes	No No	Good	Brown smears.	Bulk Bulk	A-003 V.S. A-005	19-Oct-17 19-Oct-17													
Included M	105A	Office	Ceiling		2' x 4' Ceiling Tiles	High	No	No	No	Good	Date coded to a time period where asbestos use was not																
Included M			Ceiling	Ceiling Space		High	No		No	Good	widespread.																
Included M		Office	Mechanical	Duct Work	Duct Work	High	No	No	No	Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped																
Included M		Office	Walls	Walls	Drywall	High	No	Yes	No	Good	joints.	Bulk	A-004	19-Oct-17													
Included M Included M	105B 105B	Office Office	Floor Floor	Floor Floor	12" x 12" Vinyl Floor Tiles 12" x 12" Vinyl Floor Tiles	High High	No No	Yes Yes	No No	Good Good	Brown smears. White with beige smears.	Bulk Bulk	A-005 A-025	19-Oct-17 19-Oct-17													
Included M	105B	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	105B	Office	Ceiling	Ceiling Space	Wood	High	No	No	No	Good	Fibreglass wrapped (no visible																
Included M	105B	Office	Mechanical	Duct Work	Duct Work	High	No	No	No	Good	mastic) or bare with foil wrapped																
Included M	106	Supervisor Office Supervisor Office	Walls	Walls Floor	Drywall 12" x 12" Vinyl Floor Tiles	High High			No No	Good		Bulk	A-006 A-007	19-Oct-17													
included ivi	100	Supervisor Office	FIOOI	FIOOI	12 X 12 VIIIyi Floor Tiles	nigii	INU	res	NO	Good	Grey with brown sinears.	DUIK	V.S. A-002, A-003. A-	19-Oct-17													
Included M	106	Supervisor Office	Ceiling	Ceiling	Drywall	High	No	Yes	No	Good		Bulk	004, A-006, A-020, A- 026	19-Oct-17													
Included M Included M		Supervisor Office Supervisor Office	Ceiling Windows	Ceiling Caulking	Stipple Grey Caulking	High High	No No	Yes Yes	No No	Good Good		Bulk Bulk	A-008 A-011	19-Oct-17 19-Oct-17													
Included M		Kitchen	Walls		Drywall	High	No	Yes	No	Good		Bulk	V.S. A-002, A-003. A- 004, A-006, A-020, A-														
Included M	107	Kitchen	Floor	Floor	12" x 12" Vinvl Floor Tiles	High	No	Yes	No	Good	Grey with brown smears.	Bulk	026 V.S. A-007	10 Oct 17													
included ivi	107	Kitaleli		FIOOI	12 X 12 VIIIyi Floor Flies	nigii	INO	res	NO	Good	Grey with brown smears.	Duik	V.S. A-007 V.S. A-002, A-003. A-	19-Oct-17													
Included M	107	Kitchen	Ceiling	Ceiling	Drywall	High	No	Yes	No	Good		Bulk	004, A-006, A-020, A- 026	19-Oct-17													
Included M Included M		Kitchen Kitchen	Ceiling Miscellaneous	Ceiling Sink	Stipple White Undercoat	High High	No No	Yes Yes	No No	Good		Bulk Bulk	V.S. A-008, A-009, A- 010 A-012	19-Oct-17													
													V.S. A-002, A-003. A-														
Included M					Drywall	High	No	Yes	No	Good			004, A-006, A-020, A- 026														
Included M	108	Washroom	Floor	Floor	Vinyl Sheet Flooring	High	No	Yes	No	Good	White with blue and grey.	Bulk	A-013 V.S. A-002, A-003. A-	19-Oct-17													
Included M	108	Washroom	Ceiling	Ceiling	Drywall	High	No	Yes	No	Good		Bulk	V.S. A-002, A-003. A- 004, A-006, A-020, A- 026	19-Oct-17													
Included M	109	Washroom	Walls	Walls	Drywall	High	No	Yes	No	Good		Bulk	V.S. A-002, A-003. A- 004, A-006, A-020, A- 026	19-Oct-17													
Included M	109	Washroom	Floor	Floor	Vinyl Sheet Flooring	High	No	Yes	No	Good	White with grey and beige.	Bulk	A-018	19-Oct-17													
	109	Washroom	Ceiling	Ceiling	Drawall			Yes	No				V.S. A-002, A-003. A- 004, A-006, A-020, A-	10-0-+ 17													
Included M	109	vvaSIIIOUIII	Celling	Celling	Drywall	High	No	res	No	Good		DUIK	026	19-UCI-17													

Appendix C ACM Inventory Transit Body Shop

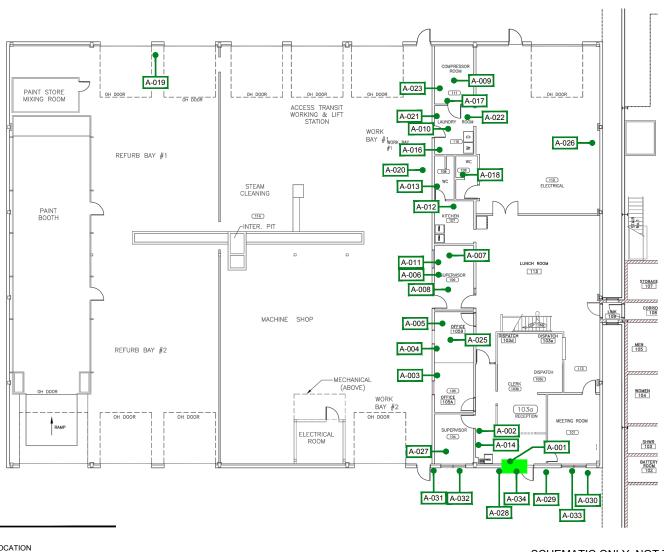
			_	•	•														
	M 109		0 "	0 11	0. 4.0 % 7%					0 1	Date coded to a time period								
Included	M 109	Washroom	Ceiling	Ceiling	2' x 4' Ceiling Tiles	High	No	No	No	Good	where asbestos use was not widespread								
	14 400	14/	0 "	0 11: 0						0 1	widespread.								
Included	M 109 M 110	Washroom	Ceiling Walls	Ceiling Space Walls	Wood Drywall	High	No	No Yes	No No	Good Good		Bulk	A-016 19	9-Oct-17					
		Laundry Room	Floor	Floor	Concrete		No No	Yes	No	Good	Skim coat		A-021, A-022						
included	IVI 110	Lauriury Room	FIOOI	FIOOI	Concrete	High	INO	res	INU	Good	Skilli Coat.	Duik	, ,	9-001-17					
													V.S. A-002, A-003. A-						
Included	M 110	Laundry Room	Ceiling	Ceiling	Drywall	High	No	Yes	No	Good		Bulk	004, A-006, A-020, A- 19	9-Oct-17					
													026						
Included	M 110	Laundry Room	Ceiling	Coiling	Stipple	High	No	Yes	No	Good		Bulk	A-010 19	9-Oct-17					
included	IVI 110	Lauriury Room	Celling	Ceiling	Supple	High	INO	res	INU	Good		Duik	71010	9-001-17					
													V.S. A-002, A-003. A-						
Included	M 111	Compressor Room	Walls	Walls	Drywall	High	No	Yes	No	Good		Bulk	004, A-006, A-020, A- 19	9-Oct-17					
					· 1	_							026						
Included	M 111	Compressor Room	Floor	Floor	Concrete	High	No	Yes	No	Good	Skim coat.	Bulk	A-023 19	9-Oct-17					
included	IVI III	Compressor Room	FIUUI	FIOOI	Concrete	nigii	INO	162	INU	Good	Skiiii Coat.	Duik		9-001-17	+				
													V.S. A-002, A-003. A-						
Included	M 111	Compressor Room	Ceiling	Ceiling	Drywall	High	No	Yes	No	Good		Bulk	004, A-006, A-020, A- 19	9-Oct-17					
													026						
Included	M 444	Compressor Room	0-:::	Ceiling	CHI-	High	No	Yes	No	Good		Bulk	A-009 19	9-Oct-17	+				
Included	M 111	Compressor Room	Ceiling Miscellaneous	Caulking	Stipple White Caulking	High		Yes	No	Good		Bulk		9-Oct-17	+				
Included	M 112	Electrical Room	Walls	Walls	Drywall	High		Yes	No	Good		Bulk		9-Oct-17	+				
Included		Electrical Room	Floor	Floor	Concrete	High	No	No.	No	Good		Bulk	A-020 13	9=001=17					
Included		Electrical Room	Ceiling	Ceiling Space		High	No	No	No	Good									
iliciadea	IVI 112	Liectrical (Cont	Celling	Celling Space	i ibregiass	riigii	INO	140	140	Good									
													V.S. A-002, A-003. A-						
Included	M 113	Lunch Room	Walls	Walls	Drywall	High	No	Yes	No	Good		Bulk	004, A-006, A-020, A- 19	9-Oct-17					
													026						
Included	M 113	Lunch Room	Floor	Floor	12" x 12" Vinvl Floor Tiles	High	No	Yes	No	Good	Brown smears.	Bulk	V.S. A-005	9-Oct-17					
Included		Lunch Room	Ceiling		Fibreglass	High	No	No	No	Good	Diowii silicuis.	Duik	V.G. 74-000	7-000-17					
Illoladea	110	Edilori (Colii	Ociling	Ocining Opacc	i ibregiass	riigii	140	140	140	Occu									
																	Inspect and sample		
	113	Lunch Room	Mechanical	Duct Work	Red Duct Mastic	Low	Yes	No	Potential	Good	Inaccessible due to height.						if scheduled for		
																	removal.		
Included	M N/A	Machine Shop	Walls	Walls	Metal	High	No	No	No	Good									
	M N/A		Walls	Walls	Drywall	High	No	Yes	No	Good		Bulk	A-020 19	9-Oct-17					
Included		Machine Shop	Floor	Floor	Concrete	High	No	No	No	Good		Built	71 020	7 000 17					
	M N/A	Machine Shop	Ceiling	Ceiling	Fibreglass	High		No	No	Good									
		Machine Shop	Mechanical	Duct Work	Dark Grey Duct Mastic	High	No	Yes	No	Good	Uninsulated ducting.	Bulk	V.S. A-024 19	9-Oct-17					
Included			Miscellaneous	Caulking	White Caulking	Hiah	No	Yes	No	Good	On ducting.	Bulk	V.S. A-019 19	9-Oct-17 I					
	M N/A	Machine Shop	Miscellaneous Walls	Caulking Walls	White Caulking Metal	High High	No No	Yes No	No No	Good	On ducting.	Bulk	V.S. A-019 19	9-Oct-17					
Included	M N/A M N/A	Machine Shop Refurb Bay	Walls	Walls	Metal	High	No	No	No	Good	On ducting.	Bulk	V.S. A-019 19	9-Oct-17					
Included Included	M N/A M N/A M N/A	Machine Shop Refurb Bay Refurb Bay	Walls Floor	Walls Floor	Metal Concrete	High High	No No	No No	No No	Good Good	On ducting.	Bulk	V.S. A-019 19	9-Oct-17					
Included Included	M N/A M N/A	Machine Shop Refurb Bay	Walls	Walls	Metal	High	No No	No	No	Good		Bulk	V.S. A-019 19	9-Oct-17					
Included Included Included	M N/A M N/A M N/A M N/A	Machine Shop Refurb Bay Refurb Bay Refurb Bay	Walls Floor Ceiling	Walls Floor Ceiling	Metal Concrete Fibreglass	High High High	No No No	No No No	No No No	Good Good Good	Fibreglass wrapped (no visible		V.S. A-019 19	9-Oct-17					
Included Included	M N/A M N/A M N/A	Machine Shop Refurb Bay Refurb Bay	Walls Floor	Walls Floor	Metal Concrete	High High	No No	No No	No No	Good Good			V.S. A-019 19	9-Oct-17					
Included Included Included Included	M N/A M N/A M N/A M N/A	Machine Shop Refurb Bay Refurb Bay Refurb Bay Refurb Bay	Walls Floor Ceiling	Walls Floor Ceiling	Metal Concrete Fibreglass	High High High High	No No No	No No No	No No No	Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped			9-Oct-17					
Included Included Included Included	M N/A	Machine Shop Refurb Bay Refurb Bay Refurb Bay Refurb Bay	Walls Floor Ceiling Mechanical	Walls Floor Ceiling Duct Work	Metal Concrete Fibreglass Duct Work	High High High High	No No No No	No No No	No No No No	Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints.								
Included Included Included Included Included Included Included Included Included	M N/A	Machine Shop Refurb Bay Refurb Bay Refurb Bay Refurb Bay Refurb Bay	Walls Floor Ceiling Mechanical Miscellaneous	Walls Floor Ceiling Duct Work Caulking	Metal Concrete Fibreglass Duct Work White Caulking	High High High High High High	No No No	No No No No Yes	No No No	Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints.								
Included Included Included Included Included Included Included Included Included	M N/A	Machine Shop Refurb Bay	Walls Floor Ceiling Mechanical Miscellaneous Walls	Walls Floor Ceiling Duct Work Caulking Walls	Metal Concrete Fibreglass Duct Work White Caulking Wood	High High High High High High	No No No No No No No No	No No No No Yes	No No No No No	Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foll wrapped joints. On ducting.								
Included Included Included Included Included Included Included Included Included	M N/A	Machine Shop Refurb Bay Electrical Room Electrical Room	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor	Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete	High High High High High High High High	No No No No No No No No	No No No No Yes No No	No No No No No No No	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting.								
Included	M N/A	Machine Shop Refurb Bay Refurb Bay Refurb Bay Refurb Bay Refurb Bay Refurb Bay Electrical Room Electrical Room	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling	Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling Electrical	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete	High High High High High High High High	No No No No No No No	No	No No No No No No No No	Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting.						Inspect and sample		
Included Included Included Included Included Included Included Included Included	M N/A	Machine Shop Refurb Bay Electrical Room Electrical Room	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor	Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling Electrical Panels and	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck	High High High High High High High High	No No No No No No No No	No No No No Yes No No	No No No No No No No	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation.						if scheduled for		
Included	M N/A	Machine Shop Refurb Bay Refurb Bay Refurb Bay Refurb Bay Refurb Bay Refurb Bay Electrical Room Electrical Room	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling	Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling Electrical	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and	High High High High High High High High	No No No No No No No	No	No No No No No No No No	Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety								
Included	M N/A	Machine Shop Refurb Bay Refurb Bay Refurb Bay Refurb Bay Refurb Bay Refurb Bay Electrical Room Electrical Room	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling	Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling Electrical Panels and	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and	High High High High High High High High	No No No No No No No	No	No No No No No No No No	Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety	Bulk	A-019 11				if scheduled for		
Included Inc	M N/A	Machine Shop Refurb Bay	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical	Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling Electrical Panels and Components	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components	High High High High High High High High	No N	No N	No No No No No No No Potential	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety	Bulk	A-019 15 V.S. A-002, A-003, A-	9-Oct-17			if scheduled for		
Included	M N/A	Machine Shop Refurb Bay	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling	Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling Electrical Panels and	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and	High High High High High High High High	No No No No No No No	No	No No No No No No No No	Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety	Bulk	A-019 11 V.S. A-002, A-003. A- 004, A-006, A-020, A- 11	9-Oct-17			if scheduled for		
Included	M N/A	Machine Shop Refurb Bay Electrical Room Electrical Room Electrical Room	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical	Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling Electrical Panels and Components Walls	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall	High High High High High High High High	No N	No No No No No No Yes No No No Yes Yes	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety	Bulk	A-019 15 V.S. A-002, A-003, A-	9-Oct-17			if scheduled for		
Included	M N/A	Machine Shop Refurb Bay Refurb Ba	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical	Walls Floor Caulking Walls Floor Ceiling Caulking Walls Floor Ceiling Electrical Panels and Components Walls Floor	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood	High High High High High High High High	No N	No N	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety	Bulk	A-019 11 V.S. A-002, A-003. A- 004, A-006, A-020, A- 11	9-Oct-17			if scheduled for		
Included	M N/A	Machine Shop Refurb Bay Refurb Ba	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical Walls Floor Ceiling	Walls Floor Caulking Duct Work Caulking Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood Fibreglass	High High High High High High High High	No N	No N	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety concerns.	Bulk	V.S. A-002, A-003, A-004, A-006, A-020, A-026	9-Oct-17			if scheduled for		
Included	M N/A M Mezzanine M Mezzanine M Mezzanine	Machine Shop Refurb Bay Electrical Room Electrical Room Electrical Room Electrical Room Electrical Room Mezzanine Mezzanine Mezzanine	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical Walls Floor Ceiling Eloor Ceiling Floor Ceiling	Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Duct Work	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood Fibreglass Light Grey Duct Mastic	High High High High High High High High	No N	No N	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety concerns.	Bulk Bulk Bulk	V.S. A-002, A-003, A- 004, A-006, A-020, A- 026 A-015	9-Oct-17			if scheduled for		
Included	M N/A	Machine Shop Refurb Bay Electrical Room Electrical Room Electrical Room Electrical Room Electrical Room Mezzanine Mezzanine Mezzanine	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical Walls Floor Ceiling	Walls Floor Caulking Duct Work Caulking Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood Fibreglass	High High High High High High High High	No N	No N	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety concerns. Uninsulated ducting. Uninsulated ducting.	Bulk	V.S. A-002, A-003, A- 004, A-006, A-020, A- 026 A-015	9-Oct-17			if scheduled for		
Included	M N/A M Mezzanine M Mezzanine M Mezzanine	Machine Shop Refurb Bay Refurb Ba	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical Walls Floor Ceiling Mechanical	Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Duct Work Duct Work	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood Fibreglass Light Grey Duct Mastic Dark Grey Duct Mastic	High High High High High High High High	No N	No	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety concerns. Uninsulated ducting. Uninsulated ducting. Fibreglass wrapped (no visible	Bulk Bulk Bulk	V.S. A-002, A-003, A- 004, A-006, A-020, A- 026 A-015	9-Oct-17			if scheduled for		
Included	M N/A M Mezzanine M Mezzanine M Mezzanine	Machine Shop Refurb Bay Refurb Ba	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical Walls Floor Ceiling Eloor Ceiling Floor Ceiling	Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Duct Work	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood Fibreglass Light Grey Duct Mastic	High High High High High High High High	No N	No N	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety concerns. Uninsulated ducting, Uninsulated ducting, Fibreglass wrapped (no visible mastic) or bare with foil wrapped	Bulk Bulk Bulk	V.S. A-002, A-003, A- 004, A-006, A-020, A- 026 A-015	9-Oct-17			if scheduled for		
Included	M N/A M Mezzanine M Mezzanine M Mezzanine	Machine Shop Refurb Bay Refurb Ba	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical Walls Floor Ceiling Mechanical	Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Duct Work Duct Work	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood Fibreglass Light Grey Duct Mastic Dark Grey Duct Mastic	High High High High High High High High	No N	No	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety concerns. Uninsulated ducting. Uninsulated ducting. Fibreglass wrapped (no visible	Bulk Bulk Bulk	V.S. A-002, A-003, A- 004, A-006, A-020, A- 026 A-015	9-Oct-17			if scheduled for		
Included	M N/A M Mezzanine M Mezzanine M Mezzanine	Machine Shop Refurb Bay Refurb Ba	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical Walls Floor Ceiling Mechanical	Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Duct Work Duct Work Duct Work	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood Fibreglass Light Grey Duct Mastic Dark Grey Duct Mastic Duct Work	High High High High High High High High	No N	No	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety concerns. Uninsulated ducting. Uninsulated ducting. Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints.	Bulk Bulk Bulk	V.S. A-002, A-003, A- 004, A-006, A-020, A- 026 A-015	9-Oct-17			if scheduled for removal.		
Included	M N/A	Machine Shop Refurb Bay Refurb Ba	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical Walls Floor Ceiling Mechanical Mechanical Mechanical	Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Duct Work Duct Work Duct Work	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood Fibreglass Light Grey Duct Mastic Dark Grey Duct Mastic Duct Work Electrical Panels and	High High High High High High High High	No N	No	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety concerns. Uninsulated ducting. Uninsulated ducting. Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. Not sampled due to safety	Bulk Bulk Bulk	V.S. A-002, A-003, A- 004, A-006, A-020, A- 026 A-015	9-Oct-17			if scheduled for removal.		
Included	M N/A M Mezzanine M Mezzanine M Mezzanine	Machine Shop Refurb Bay Refurb Ba	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical Walls Floor Ceiling Mechanical	Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Lectrical Panels and Components Walls Floor Ceiling Duct Work Duct Work Duct Work Electrical Panels and	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood Fibreglass Light Grey Duct Mastic Dark Grey Duct Mastic Duct Work	High High High High High High High High	No N	No	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety concerns. Uninsulated ducting. Uninsulated ducting. Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints.	Bulk Bulk Bulk	V.S. A-002, A-003, A- 004, A-006, A-020, A- 026 A-015	9-Oct-17			if scheduled for removal.		
Included	M N/A	Machine Shop Refurb Bay Refurb Ba	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical Walls Floor Ceiling Mechanical Mechanical Mechanical	Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Duct Work Duct Work Duct Work	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood Fibreglass Light Grey Duct Mastic Dark Grey Duct Mastic Duct Work Electrical Panels and	High High High High High High High High	No N	No	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety concerns. Uninsulated ducting. Uninsulated ducting. Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. Not sampled due to safety	Bulk Bulk Bulk	V.S. A-002, A-003, A- 004, A-006, A-020, A- 026 A-015	9-Oct-17			if scheduled for removal.		
Included	M	Machine Shop Refurb Bay Refurb Ba	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical Walls Floor Ceiling Mechanical Mechanical Mechanical	Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Lectrical Panels and Components Walls Floor Ceiling Duct Work Duct Work Duct Work Electrical Panels and	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood Fibreglass Light Grey Duct Mastic Dark Grey Duct Mastic Duct Work Electrical Panels and	High High High High High High High High	No N	No	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety concerns. Uninsulated ducting. Uninsulated ducting. Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. Not sampled due to safety concerns.	Bulk Bulk Bulk	V.S. A-002, A-003, A-004, A-006, A-020, A-026 A-015 15 A-024 15	9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17			if scheduled for removal.		
Included	M	Machine Shop Refurb Bay Refurb Ba	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical Walls Floor Ceiling Electrical Walls Floor Ceiling Walls Floor Ceiling Hechanical Mechanical Mechanical Mechanical Mechanical Walls	Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Duct Work Duct Work Duct Work Buct Work Duct Work Walls Electrical Panels and Components Walls	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood Fibreglass Light Grey Duct Mastic Dark Grey Duct Mastic Duct Work Electrical Panels and Components	High High High High High High High High	No N	No	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety concerns. Uninsulated ducting. Uninsulated ducting. Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. Not sampled due to safety	Bulk Bulk Bulk	V.S. A-002, A-003, A- 004, A-006, A-020, A- 026 A-015	9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17			if scheduled for removal.		
Included	M	Machine Shop Refurb Bay Refurb Ba	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical Walls Floor Ceiling Electrical Walls Floor Ceiling Electrical	Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Duct Work Duct Work Duct Work Duct Work Duct Work Duct Work Walls Electrical Panels and Components	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood Fibreglass Light Grey Duct Mastic Dark Grey Duct Mastic Duct Work Electrical Panels and Components	High High High High High High High High	No N	No	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety concerns. Uninsulated ducting. Uninsulated ducting. Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. Not sampled due to safety concerns. Brick mortar sampled.	Bulk Bulk Bulk Bulk	V.S. A-002, A-003. A- 004, A-006, A-020, A- 026 A-015 11 A-024 11 A-028, A-029, A-030 11	9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17			if scheduled for removal.		
Included	M	Machine Shop Refurb Bay Refurb Ba	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical Walls Floor Ceiling Electrical Walls Floor Ceiling Mechanical Mechanical Mechanical Mechanical Walls Walls Walls Walls Walls Walls	Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Duct Work Duct Work Duct Work Duct Work Duct Work Walls Electrical Panels and Components Walls Components Walls Ceiling Ceiling Ceiling Duct Work Duct Work Duct Work Duct Work Ceiling Coulking Coulking	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood Fibreglass Light Grey Duct Mastic Dark Grey Duct Mastic Duct Work Electrical Panels and Components Light Grey Duct Mastic Dark Grey Duct Mastic Duct Work	High High High High High High High High	No N	No	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety concerns. Uninsulated ducting. Uninsulated ducting. Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. Not sampled due to safety concerns. Brick mortar sampled. On window panes.	Bulk Bulk Bulk Bulk Bulk	A-019 19 V.S. A-002, A-003, A- 004, A-006, A-020, A- 026 A-015 19 A-024 19 A-028, A-029, A-030 19	9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17			if scheduled for removal.		
Included	M	Machine Shop Refurb Bay Rezanine Mezzanine	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical Walls Floor Ceiling Electrical Walls Floor Ceiling Mechanical Mechanical Mechanical Mechanical Walls Windows Windows Windows	Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Duct Work Duct Work Duct Work Duct Work Walls Electrical Panels and Components Walls Caulking Caulking Caulking	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood Fibreglass Light Grey Duct Mastic Dark Grey Duct Mastic Duct Work Electrical Panels and Components Electrical Components Biack Grey Duct Mastic Duct Work	High High High High High High High High	No N	No	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety concerns. Uninsulated ducting. Uninsulated ducting. Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. Not sampled due to safety concerns. Brick mortar sampled. On window panes. On window frames.	Bulk Bulk Bulk Bulk	A-019 19 V.S. A-002, A-003, A- 004, A-006, A-020, A- 026 A-015 19 A-024 19 A-028, A-029, A-030 19 A-032 19	9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17			if scheduled for removal.		
Included	M	Machine Shop Refurb Bay Refurb Ba	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical Walls Floor Ceiling Mechanical Mechanical Mechanical Mechanical Mechanical Walls Windows Windows Miscellaneous	Walls Floor Caulking Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Duct Work Duct Work Duct Work Buct Work Duct Work Caulking Caulking Caulking Caulking Caulking Caulking Caulking	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood Fibreglass Light Grey Duct Mastic Dark Grey Duct Mastic Duct Work Electrical Panels and Components Dirk Grey Coulking Brick Metal Black Caulking Grey Caulking Brown Caulking	High High High High High High High High	No N	No	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety concerns. Uninsulated ducting. Uninsulated ducting. Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. Not sampled due to safety concerns. Brick mortar sampled. On window frames. On window frames. Building caulking.	Bulk Bulk Bulk Bulk Bulk Bulk Bulk Bulk	A-019 11 V.S. A-002, A-003, A- 004, A-006, A-020, A- 026 A-015 11 A-024 11 A-028, A-029, A-030 15 A-034 11 A-032 11 A-033 11	9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17			if scheduled for removal.		
Included	M	Machine Shop Refurb Bay Refurb Ba	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical Walls Floor Ceiling Electrical Walls Floor Ceiling Mechanical Mechanical Mechanical Mechanical Walls Windows Windows Windows	Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Duct Work Duct Work Duct Work Duct Work Walls Electrical Panels and Components Walls Caulking Caulking Caulking	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood Fibreglass Light Grey Duct Mastic Dark Grey Duct Mastic Duct Work Electrical Panels and Components Electrical Components Biack Grey Duct Mastic Duct Work	High High High High High High High High	No N	No	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety concerns. Uninsulated ducting. Uninsulated ducting. Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. Not sampled due to safety concerns. Brick mortar sampled. On window frames. On window frames. On window grames. Uniding caulking. Building caulking.	Bulk Bulk Bulk Bulk	A-019 11 V.S. A-002, A-003, A- 004, A-006, A-020, A- 026 A-015 11 A-024 11 A-028, A-029, A-030 15 A-034 11 A-032 11 A-033 11	9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17			if scheduled for removal.		
Included	M	Machine Shop Refurb Bay Refurb Ba	Walls Floor Ceiling Mechanical Miscellaneous Walls Floor Ceiling Electrical Walls Floor Ceiling Mechanical Mechanical Mechanical Mechanical Mechanical Walls Windows Windows Miscellaneous	Walls Floor Caulking Walls Floor Ceiling Duct Work Caulking Walls Floor Ceiling Electrical Panels and Components Walls Floor Ceiling Duct Work Duct Work Duct Work Buct Work Duct Work Caulking Caulking Caulking Caulking Caulking Caulking Caulking	Metal Concrete Fibreglass Duct Work White Caulking Wood Concrete Metal Q-Deck Electrical Panels and Components Drywall Wood Fibreglass Light Grey Duct Mastic Dark Grey Duct Mastic Duct Work Electrical Panels and Components Brick Metal Black Caulking Grey Caulking Brown Caulking Grey Caulking Grey Caulking Grey Caulking	High High High High High High High High	No N	No	No N	Good Good Good Good Good Good Good Good	Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. On ducting. No spray-applied insulation. Not sampled due to safety concerns. Uninsulated ducting. Uninsulated ducting. Fibreglass wrapped (no visible mastic) or bare with foil wrapped joints. Not sampled due to safety concerns. Brick mortar sampled. On window frames. On window frames. Building caulking.	Bulk Bulk Bulk Bulk Bulk Bulk Bulk Bulk	A-019 11 V.S. A-002, A-003, A- 004, A-006, A-020, A- 026 A-015 11 A-024 11 A-028, A-029, A-030 15 A-034 11 A-032 11 A-033 11	9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17 9-Oct-17			if scheduled for removal.		



APPENDIX D

Floor Plans





LEGEND



ASBESTOS SAMPLE LOCATION

ASBESTOS - CONTAINING WINDOW CAULKING

NOTE(S)

1. ASBESTOS IS A CARCINOGEN. DO NOT BREATHE ASBESTOS DUST.

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
TRANSIT BODY SHOP

422 46 STREET EAST

TITLE

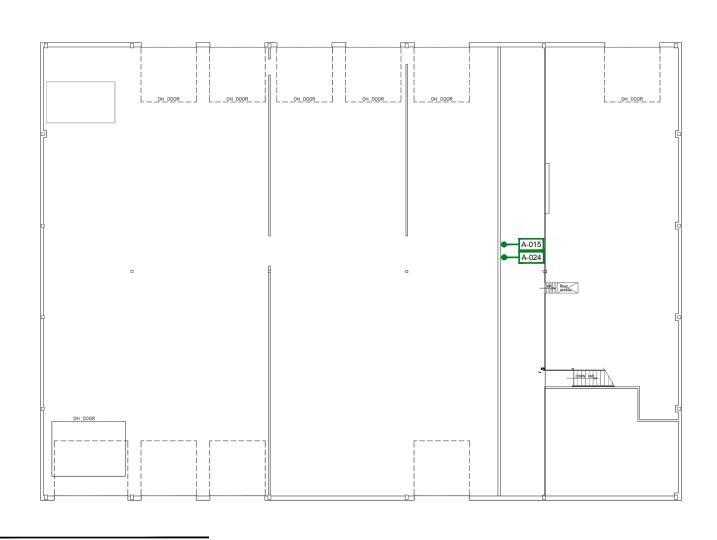
MAIN FLOOR

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

REFERENCE(S)

PLAN OBTAINED FROM INFRASTRUCTURE SERVICES DEPARTMENT CITY OF SASKATOON. DATED: 04/29/2008

DOES NOT MATCH WHAT IS SHOWN. THE







ASBESTOS SAMPLE LOCATION

ASBESTOS - CONTAINING WINDOW CAULKING

NOTE(S)

1. ASBESTOS IS A CARCINOGEN. DO NOT BREATHE ASBESTOS DUST.

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
TRANSIT BODY SHOP
422 46 STREET EAST

ITLE

MEZZANINE FLOOR

PROJECT NO.	CONTROL	REV.	FIGURE
1667963	1000-HM-0002	0	2

REFERENCE(S)

PLAN OBTAINED FROM INFRASTRUCTURE SERVICES DEPARTMENT CITY OF SASKATOON. DATED: 04/29/2008

25 mm IF THIS MEASU

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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