



July 12, 2017

## CITY OF SASKATOON

# Asbestos-Containing Building Materials Assessment Report - Lawson Heights Civic Centre and Rusty MacDonald Library



### 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.

REPORT





# ASBESTOS-CONTAINING BUILDING MATERIALS ASSESSMENT REPORT - LAWSON HEIGHTS CIVIC CENTRE AND RUSTY MACDONALD LIBRARY

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# ASBESTOS-CONTAINING BUILDING MATERIALS ASSESSMENT REPORT - LAWSON HEIGHTS CIVIC CENTRE AND RUSTY MACDONALD LIBRARY

## 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 Lawson Heights Civic Centre and Rusty MacDonald Library (the Site) located at 225 Primrose Drive in Saskatoon, Saskatchewan. This assessment report details our findings, conclusions and recommendations for the Site. A walkthrough of the Site was conducted on February 22, 2017 and the assessment was conducted on June 2 and 3, 2017 by Kody Henderson, OHS Project Manager. Asbestos-containing building materials were identified within the Lawson Heights Civic Centre and Rusty MacDonald Library 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.



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### 3.0 RESULTS AND DISCUSSION

The Lawson Heights Civic Centre and Rusty MacDonald Library were constructed in 1988 and consist of numerous change rooms, office spaces, as well as a swimming pool area, auditorium, and library. The Lawson Heights Civic Centre and Rusty MacDonald Library consist of three floors; a lower floor, main floor, and second floor. During the assessment, the pool area, auditorium, and all associated offices and change rooms on the main floor were treated as one functional space, the library area and associated offices were treated as a second functional space, the lower level as a third functional space, and the second floor as a fourth 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 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 is 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 seventy-two (72) samples of building materials were collected and tested for asbestos content during the assessment of the Lawson Heights Civic Centre and Rusty MacDonald Library. One (1) of the samples was found to contain asbestos.

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

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

- Gold Sink Undercoat.

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

#### *Gold Sink Undercoat*

One (1) sample of gold sink undercoat was collected during the assessment. The sample collected was found to contain 2.7% Chrysotile asbestos. Asbestos-containing gold sink undercoat (see Photograph 1 in Appendix B) was observed in the following location:

- Room 105 (approximately 1 sink);
- Room 106 (approximately 1 sink); and
- Room 115 (approximately 1 sink).



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### 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 a non-suspect materials:

- Concrete scratch coat;
- Brown vinyl sheet flooring with white and dark brown flecks;
- Pipe-fitting insulation;
- Red/brown duct mastic;
- Drywall joint compound;
- Brown door caulking;
- Beige mosaic vinyl sheet flooring;
- Grey window frame caulking;
- Grey and blue speckled vinyl sheet flooring;
- 2'x4' Textured ceiling tile;
- Black window caulking;
- 2'x2' Ceiling tile with a square pattern;
- Grey window caulking;
- Red firestop;
- Stucco;
- Brick mortar;
- Red/brown building caulking;
- Grey building caulking;
- The drain lines throughout the site were not observed to have suspect packing;
- The duct work throughout the site was observed to be uninsulated or insulated with fibreglass insulation;
- The duct connector fabric throughout the site is not suspected to contain asbestos due to the vintage of construction;
- The 2'x4' ceiling tile with circular pattered fissures and the 2'x4' ceiling tile with small pinholes and small divots were date coded to a time period in which asbestos use was not widespread; and
- The boiler exhaust was observed to be insulated with fibreglass.



## **4.0 EXCLUDED AREAS AND MATERIALS**

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

- During the assessment, approximately four floor locations were assessed for floor levelling compound. Floor levelling compound was not encountered at the time of the assessment. If floor levelling compound is encountered during renovation or demolition activities, additional sampling should be conducted to evaluate the presence or absence of asbestos.
- 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.
- Golder was unable to access Room 202A during the assessment as the room was locked and the Site Contact did not have keys. If work activities are scheduled within this area, further sampling may be required. If building materials within Room 104 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 gold sink undercoat 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.



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### **Gold Sink Undercoat**

If scheduled for impact, asbestos-containing gold sink undercoat should be abated following low-risk abatement work procedures as outlined in the *Saskatchewan Asbestos Abatement Manual* (2017). Alternatively, as the gold sink undercoat 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), it 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 June 2 and 3, 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.





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### 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](mailto:kody_henderson@golder.com). Thank you for the opportunity to be of service. We look forward to working with you again in the future.





## ASBESTOS-CONTAINING BUILDING MATERIALS ASSESSMENT REPORT - LAWSON HEIGHTS CIVIC CENTRE AND RUSTY MACDONALD LIBRARY

### Report Signature Page

#### GOLDER ASSOCIATES LTD.

Prepared by:

Reviewed by:

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Associate, OHS Project Director

KH/AG/ba

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# **APPENDIX A**

## **Laboratory Certificate of Analysis Report**

## CERTIFICATE OF ANALYSIS

**Client:** Golder Associates Ltd  
16820 107 Ave  
Edmonton AB T5P 4C3

**Report Date:** 6/15/2017  
**Report No.:** 538138 - PLM  
**Project:** Asbestos Surveys – City of Saskatoon  
**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6258597 <b>Client No.:</b> A-001	<b>Analyst Observation:</b> Grey Cementitious <b>Client Description:</b> Concrete Scratch Coat	<b>Location:</b> Stairwell Adjacent Corridor B05 <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

<b>Lab No.:</b> 6258598 <b>Client No.:</b> A-002	<b>Analyst Observation:</b> Grey Cementitious <b>Client Description:</b> Concrete Scratch Coat	<b>Location:</b> Corridor B05 <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> Trace Cellulose	<u>Percent Non-Fibrous Material:</u> 100

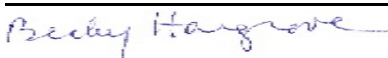
<b>Lab No.:</b> 6258599 <b>Client No.:</b> A-003	<b>Analyst Observation:</b> Lt Tan/White Vinyl Sheet Flooring <b>Client Description:</b> Brown Vinyl Sheet Flooring With White And Dark Brown Flecks	<b>Location:</b> Corridor B05 <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

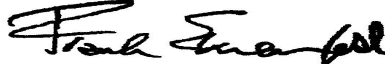
<b>Lab No.:</b> 6258600 <b>Client No.:</b> A-004	<b>Analyst Observation:</b> Grey Insulation <b>Client Description:</b> Pipe Fitting Insulation	<b>Location:</b> Room B04 <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 35 Fibrous Glass Trace Cellulose	<u>Percent Non-Fibrous Material:</u> 65

<b>Lab No.:</b> 6258601 <b>Client No.:</b> A-005	<b>Analyst Observation:</b> Grey Insulation <b>Client Description:</b> Pipe Fitting Insulation	<b>Location:</b> Room B04 <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 35 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 65

<b>Lab No.:</b> 6258602 <b>Client No.:</b> A-006	<b>Analyst Observation:</b> Grey Insulation <b>Client Description:</b> Pipe Fitting Insulation	<b>Location:</b> Room B04 <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 35 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 65

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

**Date Received:** 6/7/2017  
**Date Analyzed:** 06/15/2017  
**Signature:**   
**Analyst:** Rebecca Hargrove

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Golder Associates Ltd  
16820 107 Ave  
Edmonton AB T5P 4C3

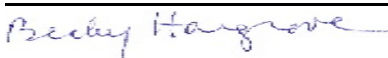
**Report Date:** 6/15/2017  
**Report No.:** 538138 - PLM  
**Project:** Asbestos Surveys – City of Saskatoon  
**Project No.:** 1667963

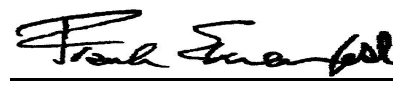
**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6258603 <b>Client No.:</b> A-007 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Brown Mastic <b>Client Description:</b> Red/Brown Duct Mastic <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Room B04 <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6258604 <b>Client No.:</b> A-008 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Insulation <b>Client Description:</b> Pipe-Fitting Insulation <u>Percent Non-Asbestos Fibrous Material:</u> 40 Fibrous Glass Trace Cellulose	<b>Location:</b> Corridor B03 <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 60
<b>Lab No.:</b> 6258605 <b>Client No.:</b> A-009 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Insulation <b>Client Description:</b> Pipe-Fitting Insulation <u>Percent Non-Asbestos Fibrous Material:</u> 40 Fibrous Glass	<b>Location:</b> Room B01 <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 60
<b>Lab No.:</b> 6258606 <b>Client No.:</b> A-010 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Off-White Joint Compound <b>Client Description:</b> Drywall Joint Compound <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Corridor 154 <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6258607 <b>Client No.:</b> A-011 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Brown Caulk <b>Client Description:</b> Brown Door Caulking <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Room 155 <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6258608 <b>Client No.:</b> A-012 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> Drywall Joint Compound <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Room 165 <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100

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

**Date Received:** 6/7/2017  
**Date Analyzed:** 06/15/2017  
**Signature:**   
**Analyst:** Rebecca Hargrove

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

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**Project:** Asbestos Surveys – City of Saskatoon  
**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6258609  
**Client No.:** A-013

**Analyst Observation:** Tan/Brown Vinyl Sheet Flooring  
**Client Description:** Beige Mosaic Vinyl Sheet Flooring

**Location:** Room 165  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
10 Synthetic

Percent Non-Fibrous Material:  
90

**Lab No.:** 6258609(L2)  
**Client No.:** A-013

**Analyst Observation:** Tan Mastic  
**Client Description:** Beige Mosaic Vinyl Sheet Flooring

**Location:** Room 165  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258610  
**Client No.:** A-014

**Analyst Observation:** Grey Caulk  
**Client Description:** Grey Window Frame Caulking

**Location:** Room 163  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258611  
**Client No.:** A-015

**Analyst Observation:** Grey Cementitious  
**Client Description:** Concrete Scratch Coat

**Location:** Room 159  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258612  
**Client No.:** A-016

**Analyst Observation:** Grey/White Cementitious  
**Client Description:** Concrete Scratch Coat

**Location:** Room 160  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258613  
**Client No.:** A-017

**Analyst Observation:** Grey Cementitious  
**Client Description:** Concrete Scratch Coat

**Location:** Room 150  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

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

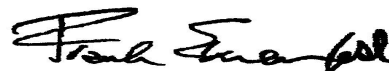
**Date Received:** 6/7/2017

**Date Analyzed:** 06/15/2017

**Signature:**

**Analyst:** Rebecca Hargrove

**Approved By:**



Frank E. Ehrenfeld, III  
Laboratory Director

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**Report Date:** 6/15/2017  
**Report No.:** 538138 - PLM  
**Project:** Asbestos Surveys – City of Saskatoon  
**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6258614	<b>Analyst Observation:</b> Grey Cementitious	<b>Location:</b> Room 147
<b>Client No.:</b> A-018	<b>Client Description:</b> Concrete Scratch Coat	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6258615	<b>Analyst Observation:</b> Grey Cementitious	<b>Location:</b> Room 141
<b>Client No.:</b> A-019	<b>Client Description:</b> Concrete Scratch Coat	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

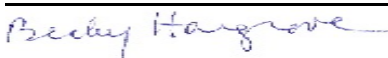
<b>Lab No.:</b> 6258616	<b>Analyst Observation:</b> Off-White Joint Compound	<b>Location:</b> Room 138
<b>Client No.:</b> A-020	<b>Client Description:</b> Drywall Joint Compound	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

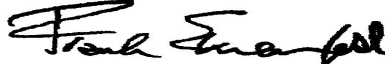
<b>Lab No.:</b> 6258617	<b>Analyst Observation:</b> Grey/Blue Vinyl Sheet Flooring	<b>Location:</b> Room 139
<b>Client No.:</b> A-021	<b>Client Description:</b> Grey And Blue Speckled Vinyl Sheet Flooring	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6258617(L2)	<b>Analyst Observation:</b> Lt Tan Mastic	<b>Location:</b> Room 139
<b>Client No.:</b> A-021	<b>Client Description:</b> Grey And Blue Speckled Vinyl Sheet Flooring	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6258617(L3)	<b>Analyst Observation:</b> Grey Leveling Compound	<b>Location:</b> Room 139
<b>Client No.:</b> A-021	<b>Client Description:</b> Grey And Blue Speckled Vinyl Sheet Flooring	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	Trace Cellulose	100

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

**Date Received:** 6/7/2017  
**Date Analyzed:** 06/15/2017  
**Signature:**   
**Analyst:** Rebecca Hargrove

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Golder Associates Ltd  
16820 107 Ave  
Edmonton AB T5P 4C3

**Report Date:** 6/15/2017  
**Report No.:** 538138 - PLM  
**Project:** Asbestos Surveys – City of Saskatoon  
**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6258618  
**Client No.:** A-022

Percent Asbestos:  
*None Detected*

**Analyst Observation:** Tan/White Ceiling Tile  
**Client Description:** 2"x4" Textured Ceiling Tile  
Percent Non-Asbestos Fibrous Material:  
50 Cellulose  
30 Fibrous Glass

**Location:** Room 139  
**Facility:**  
Percent Non-Fibrous Material:  
20

**Lab No.:** 6258619  
**Client No.:** A-023

Percent Asbestos:  
*None Detected*

**Analyst Observation:** Tan/White Ceiling Tile  
**Client Description:** 2"x4" Textured Ceiling Tile  
Percent Non-Asbestos Fibrous Material:  
50 Cellulose  
30 Fibrous Glass

**Location:** Room 140  
**Facility:**  
Percent Non-Fibrous Material:  
20

**Lab No.:** 6258620  
**Client No.:** A-024

Percent Asbestos:  
*None Detected*

**Analyst Observation:** Tan/White Ceiling Tile  
**Client Description:** 2"x4" Textured Ceiling Tile  
Percent Non-Asbestos Fibrous Material:  
50 Cellulose  
30 Fibrous Glass

**Location:** Room 140  
**Facility:**  
Percent Non-Fibrous Material:  
20

**Lab No.:** 6258621  
**Client No.:** A-025

Percent Asbestos:  
*None Detected*

**Analyst Observation:** White Joint Compound  
**Client Description:** Drywall Joint Compound  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Corridor 161  
**Facility:**  
Percent Non-Fibrous Material:  
100

**Lab No.:** 6258622  
**Client No.:** A-026

Percent Asbestos:  
*None Detected*

**Analyst Observation:** White Joint Compound  
**Client Description:** Drywall Joint Compound  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Room 131A  
**Facility:**  
Percent Non-Fibrous Material:  
100

**Lab No.:** 6258623  
**Client No.:** A-027

Percent Asbestos:  
*None Detected*

**Analyst Observation:** Off-White Joint Compound  
**Client Description:** Drywall Joint Compound  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Room 132  
**Facility:**  
Percent Non-Fibrous Material:  
100

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

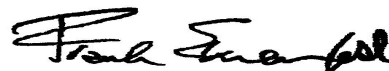
**Date Received:** 6/7/2017

**Date Analyzed:** 06/15/2017

**Signature:**

**Analyst:** Rebecca Hargrove

**Approved By:**



Frank E. Ehrenfeld, III  
Laboratory Director



## CERTIFICATE OF ANALYSIS

**Client:** Golder Associates Ltd  
16820 107 Ave  
Edmonton AB T5P 4C3

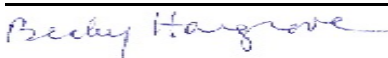
**Report Date:** 6/15/2017  
**Report No.:** 538138 - PLM  
**Project:** Asbestos Surveys – City of Saskatoon  
**Project No.:** 1667963

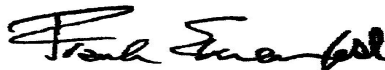
**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6258624 <b>Client No.:</b> A-028	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> Drywall Joint Compound	<b>Location:</b> Room 130 A/B/C/D <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6258625 <b>Client No.:</b> A-029	<b>Analyst Observation:</b> Grey/White Ceiling Tile <b>Client Description:</b> 2'x4 Textured Ceiling Tile	<b>Location:</b> Room 130 A/B/C/D <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 50 Cellulose 35 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 15
<b>Lab No.:</b> 6258626 <b>Client No.:</b> A-030	<b>Analyst Observation:</b> Grey/White Ceiling Tile <b>Client Description:</b> 2'x4 Textured Ceiling Tile	<b>Location:</b> Room 130 A/B/C/D <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 50 Cellulose 30 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 20
<b>Lab No.:</b> 6258627 <b>Client No.:</b> A-031	<b>Analyst Observation:</b> Grey Putty <b>Client Description:</b> Black Window Caulking	<b>Location:</b> Room 130 A/B/C/D <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	<u>Percent Non-Fibrous Material:</u> 90
<b>Lab No.:</b> 6258628 <b>Client No.:</b> A-032	<b>Analyst Observation:</b> Grey Insulation <b>Client Description:</b> Pipe-Fitting Insulation	<b>Location:</b> Room 167/168 <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> 35 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 65
<b>Lab No.:</b> 6258629 <b>Client No.:</b> A-033	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> Drywall Joint Compound	<b>Location:</b> Room 103 <b>Facility:</b>
<u>Percent Asbestos:</u> <i>None Detected</i>	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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

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**Signature:**   
**Analyst:** Rebecca Hargrove

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director

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**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6258630  
**Client No.:** A-034

**Analyst Observation:** Off-White Joint Compound  
**Client Description:** Drywall Joint Compound

**Location:** Room 103  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258631  
**Client No.:** A-035

**Analyst Observation:** Grey/White Ceiling Tile  
**Client Description:** 2'x2 Ceiling Tile With A Square Pattern

**Location:** Room 103  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
50 Cellulose  
35 Fibrous Glass

Percent Non-Fibrous Material:  
15

**Lab No.:** 6258632  
**Client No.:** A-036

**Analyst Observation:** Grey/White Ceiling Tile  
**Client Description:** 2'x2 Ceiling Tile With A Square Pattern

**Location:** Room 103  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
50 Cellulose  
35 Fibrous Glass

Percent Non-Fibrous Material:  
15

**Lab No.:** 6258633  
**Client No.:** A-037

**Analyst Observation:** Grey/White Ceiling Tile  
**Client Description:** 2'x2 Ceiling Tile With A Square Pattern

**Location:** Room 103  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
50 Cellulose  
35 Fibrous Glass

Percent Non-Fibrous Material:  
15

**Lab No.:** 6258634  
**Client No.:** A-038

**Analyst Observation:** White Joint Compound  
**Client Description:** Drywall Joint Compound

**Location:** Room 104  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

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

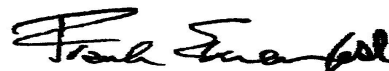
**Date Received:** 6/7/2017

**Date Analyzed:** 06/15/2017

**Signature:**

**Analyst:** Rebecca Hargrove

**Approved By:**



Frank E. Ehrenfeld, III  
Laboratory Director

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Edmonton AB T5P 4C3

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**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6258635  
**Client No.:** A-039

**Analyst Observation:** Brown Vinyl Sheet Flooring  
**Client Description:** Beige Mosaic Vinyl Sheet Flooring  
Percent Non-Asbestos Fibrous Material:  
15 Cellulose  
5 Synthetic

**Location:** Children's Washroom  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Fibrous Material:  
80

**Lab No.:** 6258635(L2)  
**Client No.:** A-039

**Analyst Observation:** Tan Mastic  
**Client Description:** Beige Mosaic Vinyl Sheet Flooring  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Children's Washroom  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258636  
**Client No.:** A-040

**Analyst Observation:** Grey/White Ceiling Tile  
**Client Description:** 2'x4' Textured Ceiling Tile  
Percent Non-Asbestos Fibrous Material:  
45 Fibrous Glass  
40 Cellulose

**Location:** Children's Washroom  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Fibrous Material:  
80

**Lab No.:** 6258637  
**Client No.:** A-041

**Analyst Observation:** Grey/White Ceiling Tile  
**Client Description:** 2'x4' Textured Ceiling Tile  
Percent Non-Asbestos Fibrous Material:  
50 Cellulose  
30 Fibrous Glass

**Location:** Room 105  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Fibrous Material:  
20

**Lab No.:** 6258638  
**Client No.:** A-042

**Analyst Observation:** Black/Gold Insulation  
**Client Description:** Gold Sink Undercoat  
Percent Non-Asbestos Fibrous Material:  
None Detected

**Location:** Room 105  
**Facility:**

Percent Asbestos:  
*PC 2.7 Chrysotile*

Percent Non-Fibrous Material:  
97.3

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

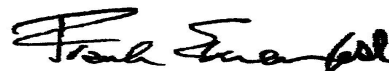
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**Signature:**

**Analyst:** Rebecca Hargrove

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Edmonton AB T5P 4C3

**Report Date:** 6/15/2017  
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**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6258639 <b>Client No.:</b> A-043 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey/White Ceiling Tile <b>Client Description:</b> 2'x4' Textured Ceiling Tile <u>Percent Non-Asbestos Fibrous Material:</u> 45 Cellulose 40 Fibrous Glass	<b>Location:</b> Room 109 <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 15
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<b>Lab No.:</b> 6258640 <b>Client No.:</b> A-044 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Grey Putty <b>Client Description:</b> Grey Window Caulking <u>Percent Non-Asbestos Fibrous Material:</u> 10 Cellulose	<b>Location:</b> Room 103 <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 90
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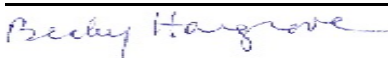
<b>Lab No.:</b> 6258641 <b>Client No.:</b> A-045 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> Drywall Joint Compound <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Room 108 <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
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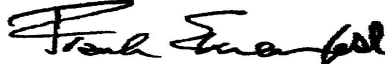
<b>Lab No.:</b> 6258642 <b>Client No.:</b> A-046 <u>Percent Asbestos:</u> <i>Sample Not Analyzed</i> Not Analyzed, Insufficient Sample	<b>Analyst Observation:</b> Sample Not Analyzed <b>Client Description:</b> Drywall Joint Compound <u>Percent Non-Asbestos Fibrous Material:</u> Sample Not Analyzed	<b>Location:</b> Room 111 <b>Facility:</b> <u>Percent Non-Fibrous Material:</u>
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<b>Lab No.:</b> 6258643 <b>Client No.:</b> A-047 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> Off-White Joint Compound <b>Client Description:</b> Drywall Joint Compound <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Room 114 <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
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<b>Lab No.:</b> 6258643(L2) <b>Client No.:</b> A-047 <u>Percent Asbestos:</u> <i>None Detected</i>	<b>Analyst Observation:</b> White Joint Compound <b>Client Description:</b> Drywall Joint Compound <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<b>Location:</b> Room 114 <b>Facility:</b> <u>Percent Non-Fibrous Material:</u> 100
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Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

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**Analyst:** Rebecca Hargrove

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Laboratory Director

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16820 107 Ave  
Edmonton AB T5P 4C3

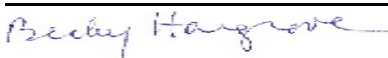
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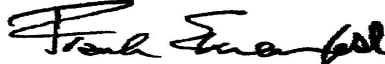
**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6258644 <b>Client No.:</b> A-048	<b>Analyst Observation:</b> Off-White/White Joint Compound <b>Client Description:</b> Drywall Joint Compound	<b>Location:</b> Room 114 <b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6258645 <b>Client No.:</b> A-049	<b>Analyst Observation:</b> Brown Mastic <b>Client Description:</b> Red/Brown Duct Mastic	<b>Location:</b> Room 109 <b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6258646 <b>Client No.:</b> A-050	<b>Analyst Observation:</b> Grey Insulation <b>Client Description:</b> Pipe-Fitting Insulation	<b>Location:</b> Room 201 <b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> 40 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 60
<b>Lab No.:</b> 6258647 <b>Client No.:</b> A-051	<b>Analyst Observation:</b> Grey Insulation <b>Client Description:</b> Pipe-Fitting Insulation	<b>Location:</b> Room 201 <b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> 40 Fibrous Glass	<u>Percent Non-Fibrous Material:</u> 60
<b>Lab No.:</b> 6258648 <b>Client No.:</b> A-052	<b>Analyst Observation:</b> Red/Brown Caulk <b>Client Description:</b> Red Firestop	<b>Location:</b> Room 201 <b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100
<b>Lab No.:</b> 6258649 <b>Client No.:</b> A-053	<b>Analyst Observation:</b> White Insulation <b>Client Description:</b> Drywall Joint Compound	<b>Location:</b> Room 202B <b>Facility:</b>
<u>Percent Asbestos:</u> None Detected	<u>Percent Non-Asbestos Fibrous Material:</u> None Detected	<u>Percent Non-Fibrous Material:</u> 100

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**Analyst:** Rebecca Hargrove

**Approved By:**   
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Laboratory Director

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**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

<b>Lab No.:</b> 6258650	<b>Analyst Observation:</b> Sample Not Analyzed	<b>Location:</b> Room 202B
<b>Client No.:</b> A-054	<b>Client Description:</b> Drywall Joint Compound	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>Sample Not Analyzed</i>	Sample Not Analyzed	
<u>Not Analyzed, Insufficient Sample</u>		

<b>Lab No.:</b> 6258651	<b>Analyst Observation:</b> White Joint Compound	<b>Location:</b> Room 202B
<b>Client No.:</b> A-055	<b>Client Description:</b> Drywall Joint Compound	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

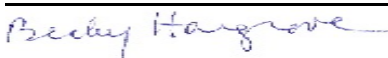
<b>Lab No.:</b> 6258652	<b>Analyst Observation:</b> Grey Insulation	<b>Location:</b> Room 202B
<b>Client No.:</b> A-056	<b>Client Description:</b> Pipe-Fitting Insulation	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	35 Fibrous Glass Trace Cellulose	65

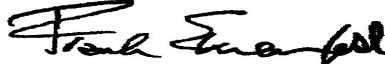
<b>Lab No.:</b> 6258653	<b>Analyst Observation:</b> Tan/Grey Stucco	<b>Location:</b> Exterior
<b>Client No.:</b> A-057	<b>Client Description:</b> Stucco	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	Trace Fibrous Glass	100

<b>Lab No.:</b> 6258654	<b>Analyst Observation:</b> Grey Stucco	<b>Location:</b> Exterior
<b>Client No.:</b> A-058	<b>Client Description:</b> Stucco	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

<b>Lab No.:</b> 6258655	<b>Analyst Observation:</b> Grey Stucco	<b>Location:</b> Exterior
<b>Client No.:</b> A-059	<b>Client Description:</b> Stucco	<b>Facility:</b>
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
<i>None Detected</i>	None Detected	100

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**Analyst:** Rebecca Hargrove

**Approved By:**   
Frank E. Ehrenfeld, III  
Laboratory Director



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16820 107 Ave  
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**Report Date:** 6/15/2017  
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**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6258656  
**Client No.:** A-060

**Analyst Observation:** Grey Stucco  
**Client Description:** Stucco

**Location:** Exterior  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258657  
**Client No.:** A-061

**Analyst Observation:** Grey Stucco  
**Client Description:** Stucco

**Location:** Exterior  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258658  
**Client No.:** A-062

**Analyst Observation:** Grey Stucco  
**Client Description:** Stucco

**Location:** Exterior  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
Trace Cellulose

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258659  
**Client No.:** A-063

**Analyst Observation:** Grey Stucco  
**Client Description:** Stucco

**Location:** Exterior  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258660  
**Client No.:** A-064

**Analyst Observation:** Red/Brown Mortar  
**Client Description:** Brick Mortar

**Location:** Exterior  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258661  
**Client No.:** A-065

**Analyst Observation:** Red/Brown Mortar  
**Client Description:** Brick Mortar

**Location:** Exterior  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

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

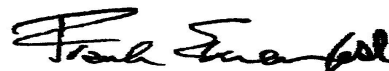
**Date Received:** 6/7/2017

**Date Analyzed:** 06/15/2017

**Signature:**

**Analyst:** Rebecca Hargrove

**Approved By:**



Frank E. Ehrenfeld, III  
Laboratory Director



## CERTIFICATE OF ANALYSIS

**Client:** Golder Associates Ltd  
16820 107 Ave  
Edmonton AB T5P 4C3

**Report Date:** 6/15/2017  
**Report No.:** 538138 - PLM  
**Project:** Asbestos Surveys – City of Saskatoon  
**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6258662  
**Client No.:** A-066

**Analyst Observation:** Red/Brown Mortar  
**Client Description:** Brick Mortar

**Location:** Exterior  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258663  
**Client No.:** A-067

**Analyst Observation:** Red/Brown Mortar  
**Client Description:** Brick Mortar

**Location:** Exterior  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258664  
**Client No.:** A-068

**Analyst Observation:** Red/Brown Mortar  
**Client Description:** Brick Mortar

**Location:** Exterior  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258665  
**Client No.:** A-069

**Analyst Observation:** Red/Brown Mortar  
**Client Description:** Brick Mortar

**Location:** Exterior  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
Trace Cellulose

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258666  
**Client No.:** A-070

**Analyst Observation:** Red/Brown Mortar  
**Client Description:** Brick Mortar

**Location:** Exterior  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
Trace Cellulose

Percent Non-Fibrous Material:  
100

**Lab No.:** 6258667  
**Client No.:** A-071

**Analyst Observation:** Tan Caulk  
**Client Description:** Red/Brown Building Caulking

**Location:** Exterior  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

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

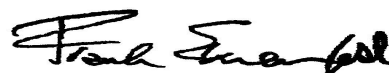
**Date Received:** 6/7/2017

**Date Analyzed:** 06/15/2017

**Signature:**

**Analyst:** Rebecca Hargrove

**Approved By:**



Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Golder Associates Ltd  
16820 107 Ave  
Edmonton AB T5P 4C3

**Report Date:** 6/15/2017  
**Report No.:** 538138 - PLM  
**Project:** Asbestos Surveys – City of Saskatoon  
**Project No.:** 1667963

**Client:** GOL572

### PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6258668  
**Client No.:** A-072

**Analyst Observation:** Tan Caulk  
**Client Description:** Grey Building Caulking

**Location:** Exterior  
**Facility:**

Percent Asbestos:  
*None Detected*

Percent Non-Asbestos Fibrous Material:  
None Detected

Percent Non-Fibrous Material:  
100

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

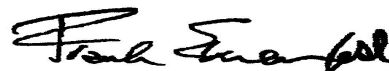
**Date Received:** 6/7/2017

**Date Analyzed:** 06/15/2017

**Signature:**

**Analyst:** Rodney Redman

**Approved By:**



Frank E. Ehrenfeld, III  
Laboratory Director

## CERTIFICATE OF ANALYSIS

**Client:** Golder Associates Ltd  
16820 107 Ave  
Edmonton AB T5P 4C3

**Report Date:** 6/15/2017  
**Report No.:** 538138 - PLM  
**Project:** Asbestos Surveys – City of Saskatoon  
**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](http://www.iATL.com) and in 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)>

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

## CERTIFICATE OF ANALYSIS

**Client:** Golder Associates Ltd  
16820 107 Ave  
Edmonton AB T5P 4C3

**Report Date:** 6/15/2017  
**Report No.:** 538138 - PLM  
**Project:** Asbestos Surveys – City of Saskatoon  
**Project No.:** 1667963

**Client:** GOL572

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](mailto: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 gangue, 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](http://www.atsdr.cdc.gov), United States Geological Survey (USGS) [www.minerals.usgs.gov/minerals/](http://www.minerals.usgs.gov/minerals/), US EPA [www.epa.gov/asbestos](http://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  
**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.

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



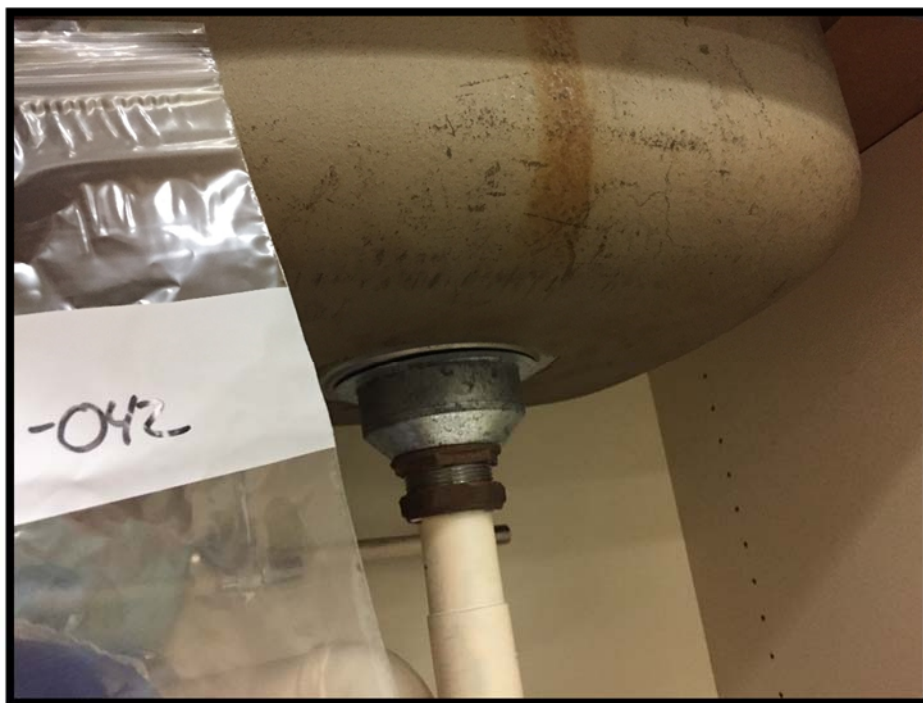
# **APPENDIX B**

## **Site Photographs**



## APPENDIX B

### Site Photographs



**Photograph 1: Asbestos-Containing Gold Sink Undercoat.**

\\golder\gal\edmonton\active\2016\3 proj\1667963 cityofsaskatoon\_asbsurveys\_saskatoon\07 reports\04 - lawson heights cc and rml\appendix b - site photographs.docx



# **APPENDIX C**

## **Room by Room Spreadsheet**



Appendix C  
Lawson Heights Civic Centre and Rusty MacDonald Library  
ACM Inventory

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	All	All	Throughout	Doors	Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect doors.																
Included	All	All	Throughout	Mechanical	Duct Work	Duct Connector Fabric	High	No	No	No	Good	Non-suspect fabric.																
Included	All	All	Throughout	Ceiling	Ceiling Deck	Concrete	Low	No	No	No	Good	The ceiling deck throughout the Site was observed to be bare.																
Included	B	B01	Mechanical Room	Walls	Walls	Concrete	High	No	No	No	Good																	
Included	B	B01	Mechanical Room	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	B	B01	Mechanical Room	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	B	B01	Mechanical Room	Mechanical	Duct Work	Red/Brown Duct Mastic	High	No	Yes	No	Good			VS A-007														
Included	B	B01	Mechanical Room	Mechanical	Piping	Pipe-Fitting Insulation	High	No	Yes	No	Good		Bulk	A-009	2-Jun-17													
Included	B	B01 HW	Mechanical Room	Walls	Walls	Concrete	High	No	No	No	Good																	
Included	B	B01 HW	Mechanical Room	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	B	B01 HW	Mechanical Room	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	B	B01 HW	Mechanical Room	Mechanical	Duct Work	Red/Brown Duct Mastic	High	No	Yes	No	Good			VS A-007														
Included	B	B02	Mechanical Room	Walls	Walls	Concrete	High	No	No	No	Good																	
Included	B	B02	Mechanical Room	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	B	B02	Mechanical Room	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	B	B02	Mechanical Room	Mechanical	Piping	Pipe-Fitting Insulation	High	No	No	No	Good			VS A-009														
Included	B	B03	Halfway	Walls	Walls	Concrete	High	No	No	No	Good																	
Included	B	B03	Halfway	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	B	B03	Halfway	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	B	B03	Halfway	Mechanical	Piping	Drain Lines	High	No	No	No	Good	PVC drain lines.																
Included	B	B03	Mechanical Room	Mechanical	Piping	Pipe-Fitting Insulation	High	No	Yes	No	Good		Bulk	A-008	2-Jun-17													
Included	B	B03	Mechanical Room	Mechanical	Duct Work	Red/Brown Duct Mastic	High	No	Yes	No	Good			VS A-007														
Included	B	B04	Mechanical Room	Walls	Walls	Concrete	High	No	No	No	Good																	
Included	B	B04	Mechanical Room	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	B	B04	Mechanical Room	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	B	B04	Mechanical Room	Mechanical	Duct Work	Red/Brown Duct Mastic	High	No	Yes	No	Good		Bulk	A-007	2-Jun-17													
Included	B	B04	Mechanical Room	Mechanical	Piping	Drain Lines	High	No	No	No	Good	PVC drain lines.																
Included	B	B04	Mechanical Room	Mechanical	Piping	Pipe-Fitting Insulation	High	No	Yes	No	Good		Bulk	A-004, A-006, and A-006	2-Jun-17													
Included	B	B04	Mechanical Room	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.							No	No		Annually		Low	Inspect and sample if scheduled for removal.			
Included	B	B05	Halfway	Walls	Walls	Concrete	High	No	No	No	Good																	
Included	B	B05	Halfway	Walls	Walls	Concrete Scratch Coat	High	No	Yes	No	Good		Bulk	A-002	2-Jun-17													
Included	B	B05	Halfway	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	B	B05	Halfway	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	B	B05	Halfway	Mechanical	Piping	Drain Lines	High	No	No	No	Good	PVC drain lines.																
Included	B	B05	Halfway	Supplies	Supplies	Loose Roll of Brown Vinyl Sheet Flooring with White and Dark Brown Flecks	High	No	Yes	No	Good		Bulk	A-003	2-Jun-17													
Included	B	B05	Halfway	Supplies	Supplies	Loose Roll of Beige Mosaic Vinyl Sheet Flooring	High	No	No	No	Good	Historically found to not contain asbestos.																
Included	B	B06	Halfway	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.							No	No		Annually		Low	Inspect and sample if scheduled for removal.			
Included	B	B05 SW	Stairwell	Walls	Walls	Concrete	High	No	No	No	Good																	
Included	B	B05 SW	Stairwell	Walls	Walls	Concrete Scratch Coat	High	No	Yes	No	Good		Bulk	A-001	2-Jun-17													
Included	B	B05 SW	Stairwell	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	B	B05 SW	Stairwell	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	M	101	Vestibule	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-010														
Included	M	101	Vestibule	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	M	101	Vestibule	Ceiling	Ceiling	Drywall Joint Compound	High	No	No	No	Good			VS A-010														
Included	M	101	Vestibule	Windows	Windows	Brown Window Frame Caulking	High	No	Yes	No	Good			VS A-011														
Included	M	102	Lobby	Walls	Walls	Block Wall	High	No	No	No	Good																	
Included	M	102	Lobby	Walls	Walls	Concrete Scratch Coat	High	No	Yes	No	Good			VS A-001														
Included	M	102	Lobby	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	M	102	Lobby	Ceiling	Ceiling	2'x2' Ceiling Tile with Small Pinholes and Small Divots	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	102	Lobby	Windows	Windows	Brown Window Frame Caulking	High	No	Yes	No	Good			VS A-011														
Included	M	103	Library	Walls	Walls	Block Wall	High	No	No	No	Good																	
Included	M	103	Library	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good		Bulk	A-035, A-036, and A-037	2-Jun-17													
Included	M	103	Library	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	103	Library	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	M	103	Library	Ceiling	Ceiling	2'x2' Ceiling Tile with Small Pinholes and Small Divots	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	103	Library	Ceiling	Ceiling	2'x4' Textured Ceiling Tile	High	No	Yes	No	Good			VS A-022														
Included	M	103	Library	Ceiling	Ceiling	2'x2' Ceiling Tile with a Square Pattern	High	No	Yes	No	Good		Bulk	A-038	2-Jun-17													
Included	M	103	Library	Windows	Windows	Grey Window Caulking	High	No	Yes	No	Good		Bulk	A-044	2-Jun-17													
Included	M	103	Library	Mechanical	Piping	Pipe Insulation	High	No	No	No	Good	Fibreglass insulation.																
Included	M	103	Library	Mechanical	Duct Work	Duct Insulation	High	No	No	No	Good	Fibreglass insulation.																
Included	M	104	Story Room	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good		Bulk	A-033 and A-034	2-Jun-17													
Included	M	104	Story Room	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	104	Story Room	Ceiling	Ceiling	2'x4' Textured Ceiling Tile	High	No	Yes	No	Good			VS A-022														
Included	M	Child WR	Washroom	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-010														
Included	M	Child WR	Washroom	Floor	Floor	Beige Mosaic Vinyl Sheet Flooring	High	No	Yes	No	Good		Bulk	A-039	2-Jun-17													
Included	M	Child WR	Washroom	Ceiling	Ceiling	2'x4' Textured Ceiling Tile	High	No	Yes	No	Good		Bulk	A-040	2-Jun-17													
Included	M	105	Activity Room	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-010														
Included	M	105	Activity Room	Floor	Floor	Beige Mosaic Vinyl Sheet Flooring	High	No	Yes	No	Good			VS A-039														
Included	M	105	Activity Room	Ceiling	Ceiling	2'x4' Textured Ceiling Tile	High	No	Yes	No	Good		Bulk	A-041	2-Jun-17													
Included	M	105	Activity Room	Plumbing	Sink	Gold Sink Undercoat	High	Yes	Yes	Yes	Good		Bulk	A-042	2-Jun-17	Chrysotile	Sink Undercoat	2.70%	No	No	No	Annually	5	Moderate	Manage in place.	1 Sink	Photograph 1	Door Jamb
Included	M	106	Staff Room	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-010														
Included	M	106	Staff Room	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	106	Staff Room	Ceiling	Ceiling	2'x4' Textured Ceiling Tile	High	No	Yes	No	Good			VS A-022														
Included	M	106	Staff Room	Plumbing	Sink	Gold Sink Undercoat	High	Yes	Yes	Yes	Good			VS A-042		Chrysotile	Sink Undercoat	2.70%	No	No	No	Annually	5	Moderate	Manage in place.	1 Sink	Photograph 1	Door Jamb
Included	M	107	Washroom	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-010														
Included	M	107	Washroom	Floor	Floor	Beige Mosaic Vinyl Sheet Flooring	High	No	Yes	No	Good			VS A-039														
Included	M	107	Washroom	Ceiling	Ceiling	2'x4' Textured Ceiling Tile	High	No	Yes	No	Good			VS A-022														
Included	M	108	Washroom	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good		Bulk	A-045	2-Jun-17													
Included	M	108	Washroom	Floor	Floor	Beige Mosaic Vinyl Sheet Flooring	High	No	Yes	No	Good			VS A-039														
Included	M	108	Washroom	Ceiling	Ceiling	2'x4' Textured Ceiling Tile	High	No	Yes	No	Good			VS A-022	</													

Appendix C  
Lawson Heights Civic Centre and Rusty MacDonald Library  
ACM Inventory

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	115	Classroom	Ceiling	Ceiling	2'x4' Ceiling Tile with Circular Patterned Fissures	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	115	Classroom	Plumbing	Sink	Gold Sink Undercoat	High	Yes	Yes	Yes	Good			VS A-042		Chrysotile	Sink Undercoat	2.70%	No	No	No	Annually	5	Moderate	Manage in place.	1 Sink	Photograph 1	Door Jamb
Included	M	116	Coats	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-010														
Included	M	116	Coats	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	116	Coats	Ceiling	Ceiling	2'x4' Ceiling Tile with Circular Patterned Fissures	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	117	Projector Room	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-010														
Included	M	117	Projector Room	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	117	Projector Room	Ceiling	Ceiling	2'x4' Ceiling Tile with Circular Patterned Fissures	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	118	Auditorium	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-010														
Included	M	118	Auditorium	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	118	Auditorium	Ceiling	Ceiling	2'x4' Ceiling Tile with Circular Patterned Fissures	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	119	Storage Room	Walls	Walls	Block Wall	High	No	No	No	Good																	
Included	M	119	Storage Room	Floor	Floor	Beige Mosaic Vinyl Sheet Flooring	High	No	Yes	No	Good			VS A-039														
Included	M	119	Storage Room	Ceiling	Ceiling	2'x4' Ceiling Tile with Circular Patterned Fissures	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	120	Custodian Office	Walls	Walls	Block Wall	High	No	No	No	Good																	
Included	M	120	Custodian Office	Floor	Floor	Beige Mosaic Vinyl Sheet Flooring	High	No	Yes	No	Good			VS A-039														
Included	M	120	Custodian Office	Ceiling	Ceiling	2'x4' Ceiling Tile with Circular Patterned Fissures	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	120	Custodian Office	Mechanical	Piping	Pipe-Fitting Insulation	High	No	Yes	No	Good			VS A-009														
Included	M	121	Hallway	Walls	Walls	Block Wall	High	No	No	No	Good																	
Included	M	121	Hallway	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	M	121	Hallway	Ceiling	Ceiling	Concrete Scratch Coat	High	No	Yes	No	Good			VS A-001														
Included	M	122	Washroom	Walls	Walls	Block Wall	High	No	No	No	Good																	
Included	M	122	Washroom	Walls	Walls	Ceramic Tile	High	No	No	No	Good																	
Included	M	122	Washroom	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	M	122	Washroom	Ceiling	Ceiling	Concrete Scratch Coat	High	No	Yes	No	Good			VS A-001														
Included	M	123	Washroom	Walls	Walls	Block Wall	High	No	No	No	Good																	
Included	M	123	Washroom	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	M	123	Washroom	Ceiling	Ceiling	Concrete Scratch Coat	High	No	Yes	No	Good			VS A-001														
Included	M	124	Vestibule	Walls	Walls	Block Wall	High	No	No	No	Good																	
Included	M	124	Vestibule	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	M	124	Vestibule	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good			VS A-010														
Included	M	124	Vestibule	Windows	Windows	Brown Window Frame Caulking	High	No	Yes	No	Good			VS A-011														
Included	M	125	Lobby	Walls	Walls	Block Wall	High	No	No	No	Good																	
Included	M	125	Lobby	Walls	Walls	Concrete Scratch Coat	High	No	Yes	No	Good			VS A-001														
Included	M	125	Lobby	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	M	125	Lobby	Ceiling	Ceiling	Metal	High	No	No	No	Good																	
Included	M	125	Lobby	Windows	Windows	Brown Window Frame Caulking	High	No	Yes	No	Good			VS A-011														
Included	M	125	Lobby	Ceiling	Soundproofing	Fibreglass Panels at Heights	High	No	No	No	Good	Suspected fibreglass insulation panels at heights.																
Included	M	125	Lobby	Mechanical	Piping	Pipe-Fitting Insulation	High	No	Yes	No	Good			VS A-009														
Included	M	125	Lobby	Mechanical	Duct Work	Bare Duct Work	High	No	No	No	Good	Uninsulated duct work.																
Included	M	126	Vestibule	Walls	Walls	Block Wall	High	No	No	No	Good																	
Included	M	126	Vestibule	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	M	126	Vestibule	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good			VS A-010														
Included	M	126	Vestibule	Windows	Windows	Brown Window Frame Caulking	High	No	Yes	No	Good			VS A-011														
Included	M	128	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-010														
Included	M	128	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	128	Office	Ceiling	Ceiling	2'x4' Ceiling Tile with Circular Patterned Fissures	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	129	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			VS A-010														
Included	M	129	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	129	Office	Ceiling	Ceiling	2'x4' Ceiling Tile with Circular Patterned Fissures	High	No	No	No	Good	Date coded to a time period in which asbestos use was not widespread.																
Included	M	130 A/B/C/D	Office	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good			Bulk														
Included	M	130 A/B/C/D	Office	Walls	Walls	Block Wall	High	No	No	No	Good																	
Included	M	130 A/B/C/D	Office	Floor	Floor	Carpet	High	No	No	No	Good																	
Included	M	130 A/B/C/D	Office	Ceiling	Ceiling	2'x4' Textured Ceiling Tile	High	No	Yes	No	Good			Bulk	A-029 and A-030	2-Jun-17												
Included	M	130 A/B/C/D	Office	Windows	Windows	Black Window Caulking	High	No	Yes	No	Good			Bulk	A-031	2-Jun-17												
Included	M	131	Waiting Area	Walls	Walls	Block Wall	High	No	No	No	Good																	
Included	M	131	Waiting Area	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	M	131	Waiting Area	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good			VS A-010														
Included	M	131	Waiting Area	Doors	Doors	Brown Door Frame Caulking	High	No	Yes	No	Good			VS A-011														
Included	M	131A	Janitor Room	Walls	Walls	Block Wall	High	No	No	No	Good																	
Included	M	131A	Janitor Room	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	M	131A	Janitor Room	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good			Bulk	A-026	2-Jun-17												
Included	M	131A	Janitor Room	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.							No	No		Annually		Low	Inspect and sample if scheduled for removal.			
Included	M	132	Janitor Room	Walls	Walls	Block Wall	High	No	No	No	Good																	
Included	M	132	Janitor Room	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	M	132	Janitor Room	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good			Bulk	A-027	2-Jun-17												
Included	M	132	Janitor Room	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.							No	No		Annually		Low	Inspect and sample if scheduled for removal.			
Included	M	133	Janitor Room	Walls	Walls	Block Wall	High	No	No	No	Good																	
Included	M	133	Janitor Room	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	M	133	Janitor Room	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good			VS A-010														
Included	M	134	Concession	Walls	Walls	Block Wall	High	No	No	No	Good																	
Included	M	134	Concession	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	M	134	Concession	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good			VS A-010														
Included	M	134	Concession	Doors	Doors	Brown Door Frame Caulking	High	No	Yes	No	Good			VS A-011														
Included	M	135	Dining Area	Walls	Walls	Concrete Scratch Coat	High	No	No	No	Good			VS A-001														
Included	M	135	Dining Area	Floor	Floor	Ceramic Tile	High	No	No	No	Good																	
Included	M	135	Dining Area	Ceiling	Ceiling	Metal	High	No	No	No	Good																	
Included	M	135	Dining Area	Mechanical	Duct Work	Bare Duct Work	High	No	No	No	Good																	
Included	M	136	Seating Area	Walls	Walls	Concrete Scratch Coat	High	No	No	No	Good			VS A-001														
Included	M	136	Seating Area	Walls	Walls	Block Wall	High	No	No	No	Good																	
Included	M	136	Seating Area	Floor	Floor	Ceramic Tile	High																					

**Appendix C**  
**Lawson Heights Civic Centre and Rusty MacDonald Library**  
**ACM Inventory**

Included/Excluded	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	139	Office	Floor	Floor	Grey and Blue Speckled Vinyl Sheet Flooring	High	No	Yes	No	Good		Bulk	A-021	2-Jun-17												
Included	M	139	Office	Ceiling	Ceiling	2x4 Textured Ceiling Tile	High	No	Yes	No	Good	Bulk	A-022	2-Jun-17													
Included	M	140	Office	Walls	Walls	Drywall Joint Compound	High	No	No	No	Good		VS A-010														
Included	M	140	Office	Floor	Floor	Grey and Blue Speckled Vinyl Sheet Flooring	High	No	Yes	No	Good		VS A-021														
Included	M	140	Office	Ceiling	Ceiling	2x4 Textured Ceiling Tile	High	No	Yes	No	Good	Bulk	A-023 and A-024	2-Jun-17													
Included	M	141	Hallway	Walls	Walls	Block Wall	High	No	No	No	Good																
Included	M	141	Hallway	Walls	Walls	Concrete Scratch Coat	High	No	Yes	No	Good		VS A-001														
Included	M	141	Hallway	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included	M	141	Hallway	Ceiling	Ceiling	Concrete Scratch Coat	High	No	Yes	No	Good	Bulk	A-019	2-Jun-17													
Included	M	142	Washroom	Walls	Walls	Ceramic Tile	High	No	No	No	Good																
Included	M	142	Washroom	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included	M	142	Washroom	Ceiling	Ceiling	Concrete Scratch Coat	High	No	Yes	No	Good		VS A-001														
Included	M	143	Change Room	Walls	Walls	Plastic Panels	High	No	No	No	Good																
Included	M	143	Change Room	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included	M	143	Change Room	Ceiling	Ceiling	Plastic Panels	High	No	No	No	Good																
Included	M	144	Change Room	Walls	Walls	Plastic Panels	High	No	No	No	Good																
Included	M	144	Change Room	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included	M	144	Change Room	Ceiling	Ceiling	Plastic Panels	High	No	No	No	Good																
Included	M	145	Change Room	Walls	Walls	Plastic Panels	High	No	No	No	Good																
Included	M	145	Change Room	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included	M	145	Change Room	Ceiling	Ceiling	Plastic Panels	High	No	No	No	Good																
Included	M	146	Shower	Walls	Walls	Ceramic Tile	High	No	No	No	Good																
Included	M	146	Shower	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included	M	146	Shower	Ceiling	Ceiling	Concrete Scratch Coat	High	No	Yes	No	Good		VS A-001														
Included	M	147	Locker Room	Walls	Walls	Block Wall	High	No	No	No	Good																
Included	M	147	Locker Room	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included	M	147	Locker Room	Ceiling	Ceiling	Concrete Scratch Coat	High	No	Yes	No	Good	Bulk	A-018	2-Jun-17													
Included	M	148	Dry Off Area	Walls	Walls	Block Wall	High	No	No	No	Good																
Included	M	148	Dry Off Area	Walls	Walls	Ceramic Tile	High	No	No	No	Good																
Included	M	148	Dry Off Area	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included	M	148	Dry Off Area	Ceiling	Ceiling	Concrete Scratch Coat	High	No	Yes	No	Good		VS A-001														
Included	M	149	Washroom	Walls	Walls	Block Wall	High	No	No	No	Good																
Included	M	149	Washroom	Walls	Walls	Ceramic Tile	High	No	No	No	Good																
Included	M	149	Washroom	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included	M	149	Washroom	Ceiling	Ceiling	Concrete Scratch Coat	High	No	Yes	No	Good		VS A-001														
Included	M	150	Washroom	Walls	Walls	Block Wall	High	No	No	No	Good																
Included	M	150	Washroom	Walls	Walls	Ceramic Tile	High	No	No	No	Good																
Included	M	150	Washroom	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included	M	150	Washroom	Ceiling	Ceiling	Concrete Scratch Coat	High	No	Yes	No	Good	Bulk	A-017	2-Jun-17													
Included	M	151	Dry Off Area	Walls	Walls	Ceramic Tile	High	No	No	No	Good																
Included	M	151	Dry Off Area	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included	M	151	Dry Off Area	Ceiling	Ceiling	Concrete Scratch Coat	High	No	Yes	No	Good		VS A-001														
Included	M	152	Shower	Walls	Walls	Ceramic Tile	High	No	No	No	Good																
Included	M	152	Shower	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included	M	152	Shower	Ceiling	Ceiling	Concrete Scratch Coat	High	No	Yes	No	Good		VS A-001														
Included	M	153	Locker Room	Walls	Walls	Block Wall	High	No	No	No	Good																
Included	M	153	Locker Room	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included	M	153	Locker Room	Ceiling	Ceiling	Concrete Scratch Coat	High	No	Yes	No	Good		VS A-001														
Included	M	154	Hallway	Walls	Walls	Block Wall	High	No	No	No	Good																
Included	M	154	Hallway	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included	M	154	Hallway	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good	Bulk	A-010	2-Jun-17													
Included	M	154	Hallway	Ceiling	Ceiling	Concrete	High	No	No	No	Good																
Included	M	154	Hallway	Mechanical	Duct Work	Red/Brown Duct Mastic	High	No	Yes	No	Good		VS A-007														
Included	M	155	Fitness Room	Walls	Walls	Block Wall	High	No	No	No	Good																
Included	M	155	Fitness Room	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good		VS A-010														
Included	M	155	Fitness Room	Floor	Floor	Beige Rubber	High	No	No	No	Good																
											Non-suspect flooring. Date caded to a time period in which asbestos use was not widespread.																
Included	M	155	Fitness Room	Ceiling	Ceiling	2x4 Ceiling Tile with Circular Patterned Fissures	High	No	No	No	Good																
Included	M	155	Fitness Room	Doors	Doors	Brown Door Frame Caulking	High	No	Yes	No	Good	Bulk	A-011	2-Jun-17													
Included	M	155	Fitness Room	Mechanical	Duct Work	Red/Brown Duct Mastic	High	No	Yes	No	Good		VS A-007														
Included	M	155	Fitness Room	Windows	Windows	Rubber Window Caulking	High	No	No	No	Good																
Included	M	156	Sauna	Walls	Walls	Wood	High	No	No	No	Good																
Included	M	156	Sauna	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included	M	156	Sauna	Ceiling	Ceiling	Wood	High	No	Yes	No	Good																
Included	M	156	Sauna	Windows	Windows	Rubber Window Caulking	High	No	No	No	Good																
Included	M	157	Storage Room	Walls	Walls	Block Wall	High	No	No	No	Good																
Included	M	157	Storage Room	Floor	Floor	Beige Mosaic Vinyl Sheet Flooring	High	No	Yes	No	Good		VS A-039														
Included	M	157	Storage Room	Ceiling	Ceiling	Metall	High	No	Yes	No	Good																
Included	M	157	Storage Room	Mechanical	Piping	Pipe Insulation	High	No	No	No	Good																
Included	M	157	Storage Room	Mechanical	Duct Work	Duct Insulation	High	No	No	No	Good																
Included	M	158	Chlorine Room	Walls	Walls	Block Wall	High	No	No	No	Good																
Included	M	158	Chlorine Room	Floor	Floor	Concrete	High	No	No	No	Good																
Included	M	158	Chlorine Room	Ceiling	Ceiling	Drywall Joint Compound	High	No	Yes	No	Good		VS A-010														
Included	M	158	Chlorine Room	Duct Work	Duct Work	Red/Brown Duct Mastic	High	No	Yes	No	Good		VS A-007														
Included	M	159	Indoor Playground	Walls	Walls	Concrete Scratch Coat	High	No	Yes	No	Good	Bulk	A-015	2-Jun-17													
Included	M	159	Indoor Playground	Floor	Floor	Rubber	High	No	No	No	Good																
Included	M	159	Indoor Playground	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included	M	159	Indoor Playground	Ceiling	Ceiling	Metal	High	No	Yes	No	Good																
Included	M	159	Indoor Playground	Mechanical	Duct Work	Bare Duct Work	High	No	No	No	Good																
Included	M	160	Pool	Walls	Walls	Concrete Scratch Coat	High	No	Yes	No	Good	Bulk	A-016	2-Jun-17													
Included	M	160	Pool	Floor	Floor	Ceramic Tile	High	No	No	No	Good																
Included	M	160	Pool	Ceiling	Ceiling	Metal	High	No	No	No	Good																
Included	M	160	Pool	Ceiling	Soundproofing	Fibreglass Panels at Heights		No	No	No	Good																
Included	M	161	Hallway	W																							

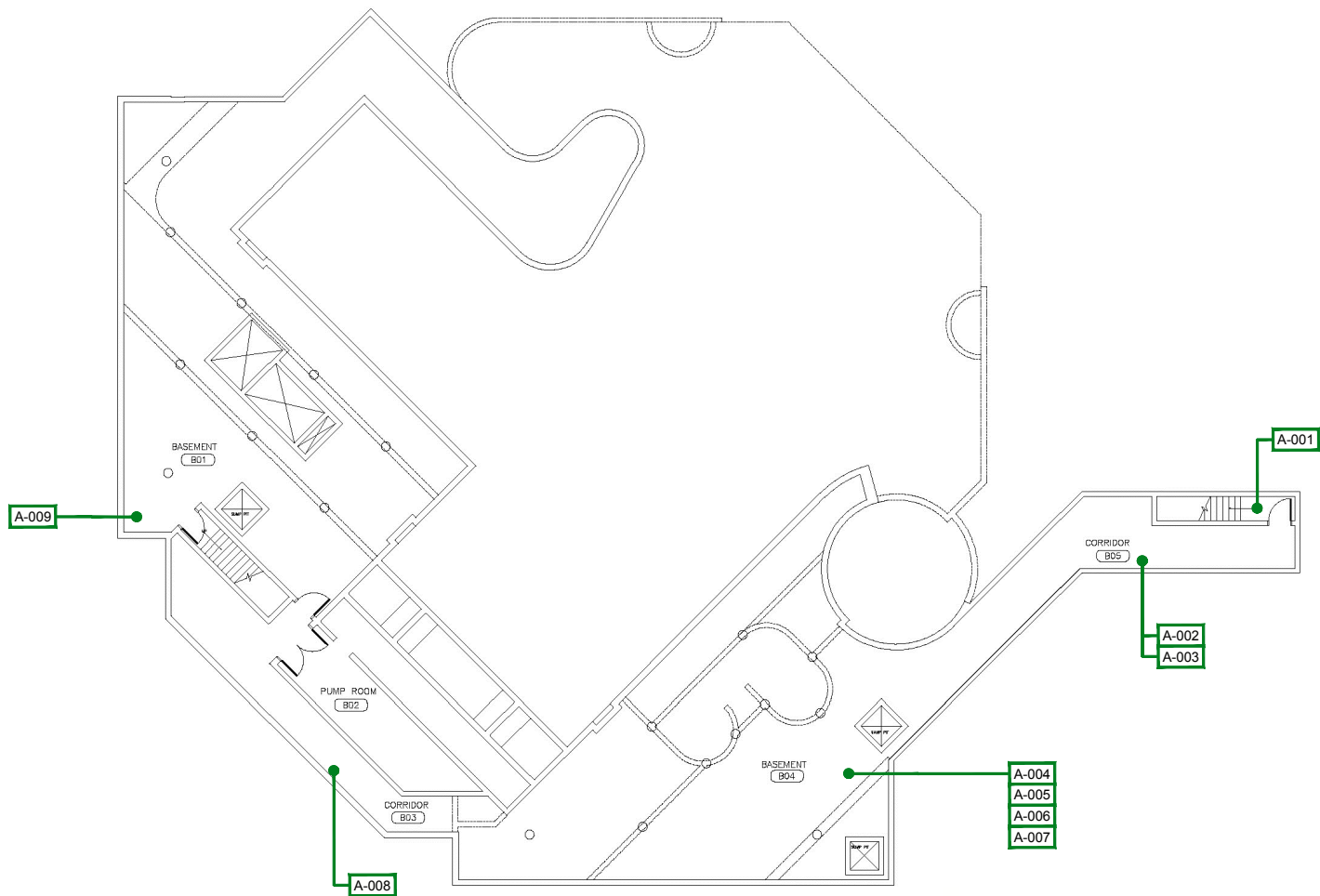
Appendix C  
Lawson Heights Civic Centre and Rusty MacDonald Library  
ACM Inventory

Included/Ex- cluded	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	170	Change Room	Walls	Walls	Block Wall	High	No	No	No	Good	Non-suspect flooring.																	
Included	M	170	Change Room	Floor	Floor	Concrete	High	No	No	No	Good																		
Included	M	170	Change Room	Ceiling	Ceiling	Metal	High	No	No	No	Good																		
Included	M	170	Change Room	Mechanical	Piping	Pipe-Fitting Insulation	High	No	Yes	No	Good				VS A-009														
Included	M	170	Change Room	Mechanical	Duct Work	Bare Duct Work	High	No	No	No	Good																		
Included	M	170	Change Room	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.							No	No		Annually		Low	Inspect and sample if scheduled for removal.				
Included	S	201	Mechanical Room	Walls	Walls	Block Wall	High	No	No	No	Good																		
Included	S	201	Mechanical Room	Floor	Floor	Concrete	High	No	No	No	Good																		
Included	S	201	Mechanical Room	Ceiling	Ceiling	Metal	High	No	No	No	Good																		
Included	S	201	Mechanical Room	Mechanical	Piping	Pipe-Fitting Insulation	High	No	Yes	No	Good		Bulk	A-050 and A-051	2-Jun-17														
Included	S	201	Mechanical Room	Mechanical	Duct Work	Bare Duct Work and Fibreglass Insulation	High	No	No	No	Good	Non-suspect duct insulation.																	
Included	S	201	Mechanical Room	Mechanical	Firestop	Red Firestop	High	No	Yes	No	Good		Bulk	A-052	2-Jun-17														
Included	S	201	Mechanical Room	Mechanical	Duct Work	Red/Brown Duct Mastic	High	No	Yes	No	Good	Painted white.		VS A-007															
Included	S	201	Mechanical Room	Electrical	Electrical Panels and Components	Electrical Panels and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.							No	No		Annually		Low	Inspect and sample if scheduled for removal.				
Included	S	201	Mechanical Room	Mechanical	Boilers and Components	Boilers and Components	High	Yes	No	Potential	Good	Not sampled due to safety concerns.							No	No		Annually		Low	Inspect and sample if scheduled for removal.				
Included	S	202B	Mechanical Room	Walls	Walls	Block Wall	High	No	No	No	Good																		
Included	S	202B	Mechanical Room	Walls	Walls	Drywall Joint Compound	High	No	Yes	No	Good		Bulk	A-053, A-054, and A-055	2-Jun-17														
Included	S	202B	Mechanical Room	Floor	Floor	Concrete	High	No	No	No	Good																		
Included	S	202B	Mechanical Room	Ceiling	Ceiling	Metal	High	No	No	No	Good																		
Included	S	202B	Mechanical Room	Mechanical	Piping	Pipe-Fitting Insulation	High	No	Yes	No	Good		Bulk	A-056	2-Jun-17														
Included	S	202B	Mechanical Room	Mechanical	Duct Work	Bare Duct Work and Fibreglass Insulation	High	No	No	No	Good	Non-suspect duct insulation.																	
Included	S	202B	Mechanical Room	Mechanical	Duct Work	Red/Brown Duct Mastic	High	No	Yes	No	Good	Painted white.		VS A-007															
Included	E	Exterior	Exterior	Walls	Walls	Stucco	High	No	Yes	No	Good		Bulk	A-057, A-058, A-059, A-060, A-061, A-062, and A-063	2-Jun-17														
Included	E	Exterior	Exterior	Walls	Walls	Brick Mortar	High	No	Yes	No	Good		Bulk	A-064, A-065, A-066, A-067, A-068, A-069, and A-070	2-Jun-17														
Included	E	Exterior	Exterior	Walls	Walls	Red/Brown Building Caulking	High	No	Yes	No	Good		Bulk	A-071	2-Jun-17														
Included	E	Exterior	Exterior	Walls	Walls	Grey Building Caulking	High	No	Yes	No	Good		Bulk	A-072	2-Jun-17														
Excluded	M	202A	Office	Entire Room	Entire Room							Access was not provided.																	
Excluded		Exterior	Roof	Exterior Roof	Exterior Roof							Not assessed due to scope of work.																	



# **APPENDIX D**

## **Floor Plans**



SCHEMATIC ONLY, NOT TO SCALE

NOTE(S)

1. ASBESTOS IS A CARCINOGEN. DO NOT BREATHE ASBESTOS DUST.
2. SAMPLES A-057 TO A-072 WERE COLLECTED ALONG THE EXTERIOR OF THE BUILDING.

REFERENCE(S)

PLAN OBTAINED FROM INFRASTRUCTURE SERVICES DEPARTMENT CITY OF SASKATOON. DATED: JULY 11, 2003.

CLIENT  
CITY OF SASKATOON

CONSULTANT



YYYY-MM-DD 2017-07-11

DESIGNED KH

PREPARED YAW

REVIEWED KH

APPROVED AG

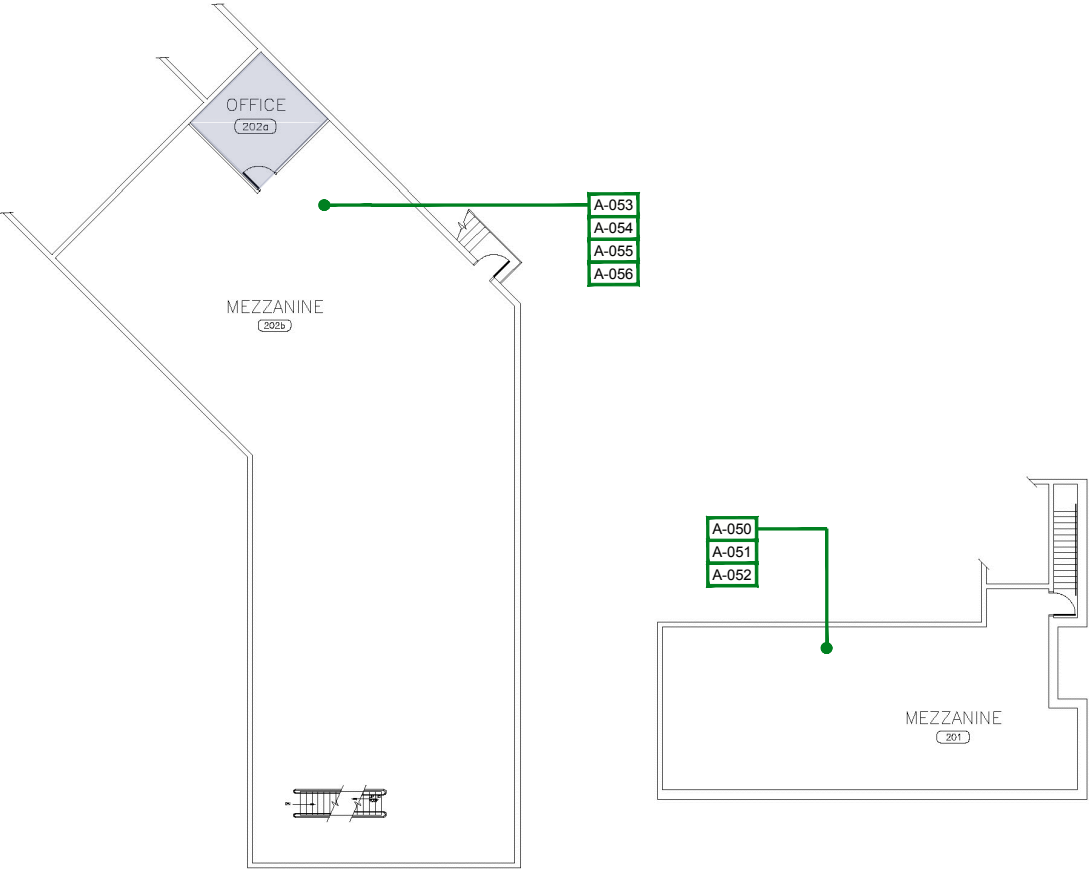
PROJECT  
ASBESTOS ASSESSMENT  
LAWSON HEIGHT CIVIC CENTRE AND RUSTY MacDONALD LIBRARY  
225 PRIMROSE DRIVE

TITLE  
**LOWER FLOOR**

PROJECT NO.	CONTROL	REV.	FIGURE
1667963	1000-HM-0002	0	1

FIGURE  
2






**NOTE(S)**

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

2. SAMPLES A-057 TO A-072 WERE COLLECTED ALONG THE EXTERIOR OF THE BUILDING.

**LEGEND**

 NO ACCESS

**REFERENCE(S)**

PLAN OBTAINED FROM INFRASTRUCTURE SERVICES DEPARTMENT CITY OF SASKATOON. DATED: 09/07/1999.

**CLIENT**

CITY OF SASKATOON

**CONSULTANT**



YYYY-MM-DD	2017-07-11
DESIGNED	KH
PREPARED	YAW
REVIEWED	KH
APPROVED	AG

SCHEMATIC ONLY, NOT TO SCALE

**PROJECT**

ASBESTOS ASSESSMENT  
LAWSON HEIGHT CIVIC CENTRE AND RUSTY MacDONALD LIBRARY  
225 PRIMROSE DRIVE

**TITLE**

SECOND FLOOR

PROJECT NO.	CONTROL	REV.	FIGURE
1667963	1000-HM-0004	0	3

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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# Bersch Consulting Ltd.

August 28, 2019

City of Saskatoon  
3130 Laurier Drive  
Saskatoon, SK  
S7L 5J7

**ATTENTION: Brent Anderson**

**SUBJECT: Bulk Sample Analysis Report**


Please find attached the laboratory results for the bulk samples collected on August 20, 2019 from the Lawson Civic Centre in Saskatoon, Saskatchewan. The samples were analyzed for the identification of asbestos. Asbestos **was not** detected within any of the samples.

The results for the samples submitted were obtained by examination in accordance with the current USEPA 600/R-93/116 Method for the analysis of asbestos in building materials using polarized light microscopy and dispersion staining techniques. The detection limit of this method is listed as less than 1% by volume.

This test report relates only to the materials sent for examination and any use or extension of the information by the client of these results is the responsibility of the client.

If any questions arise on the results of the attached information, please contact our office. Thank you for this opportunity of service.

Sincerely,



Tyneal Knackstedt  
Bersch Consulting Ltd.  
B67BLH20I-Lawson Civic Centre

## Bulk Sample Analysis Report

August 28, 2019

Project Number: B67.19

Client: City of Saskatoon

Contact: Brent Anderson

Location: Lawson Civic Centre

File Number: B67BAH20I

Sample Number	Sample Date	Sample Material	Sample Location and Information	Asbestos	%	Analyst
1a	2019/08/20	Grey/Black roof shingle	Roof surface beneath air units	No asbestos detected		EMSL/WB
1b	2019/08/20	Black roof membrane	Roof surface beneath air units	No asbestos detected		EMSL/WB
2	2019/08/20	Grey caulking	Between conduit and curb	No asbestos detected		EMSL/WB
3	2019/08/20	Beige caulking	Between air unit and curb	No asbestos detected		EMSL/WB

**Note:** The results for the samples submitted were obtained by examination in accordance with the current USEPA 600/R-93/116 Method for the analysis of asbestos in building materials using polarized light microscopy and dispersion staining techniques. The detection limit of this method is listed as less than 1% by volume.

## Site Photos

**Photo ID**

B67BLH20I - 001

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**Sample Number**

B67BAH20I – 1a

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**Description**

Grey/Black Roof Shingle.  
Roof Surface Beneath Air Units.

---

**Photo ID**

B67BLH20I – 002

---

**Sample Number**

B67BAH20I – 1b

---

**Description**

Black Roof Membrane.  
Roof Surface Beneath Air Units.

---





**Photo ID**

B67BLH20I – 003

---

**Sample Number**

B67BAH20I – 2

---

**Description**

Grey Caulking.

Between Conduit and Curb.

---

**Photo ID**

B67BLH20I – 004

---

**Sample Number**

B67BAH20I – 3

---

**Description**

Beige Caulking.

Between Air Unit and Curb.

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