



July 14, 2017

CITY OF SASKATOON

Asbestos-Containing Building Materials Assessment Report - Kiwanis Memorial Park Shed



REPORT

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.





Table of Contents

1.0 INTRODUCTION.....	1
2.0 SCOPE OF WORK	1
2.1 Asbestos-Containing Materials	1
3.0 RESULTS AND DISCUSSION	2
3.1 Asbestos-Containing Materials	2
4.0 EXCLUDED AREAS AND MATERIALS	2
5.0 CONCLUSIONS AND RECOMMENDATIONS.....	2
5.1 Asbestos-Containing Materials	2
6.0 SURVEY LIMITATIONS.....	3
7.0 CLOSURE.....	3

APPENDICES

APPENDIX A

Kiwanis Memorial Park Shed – ACM Inventory

APPENDIX B

Floor Plan



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 Kiwanis Memorial Park Shed (the Site) located at 501 Spadina Crescent in Saskatoon, Saskatchewan. This assessment report details our findings, conclusions and recommendations for the Site. A walkthrough of the Site was conducted on June 5, 2017 and the assessment was conducted on June 10, 2017 by Kody Henderson, OHS Project Manager. Asbestos-containing building materials were not identified within the Kiwanis Memorial Park Shed during the assessment. Further information is provided in Section 3.0.

2.0 SCOPE OF WORK

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

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

2.1 Asbestos-Containing Materials

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

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

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

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



3.0 RESULTS AND DISCUSSION

The Kiwanis Memorial Park Shed consists of one open storage area and was constructed in 1965. During the assessment, the entire space was treated as one functional space.

- 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 A.
- A floor plan is provided in Appendix B.
- Please refer to Sections 4.0 and 6.0 of this report for a summary of the limitations encountered.

3.1 Asbestos-Containing Materials

During the assessment, no suspect asbestos-containing materials were observed. The Shed was observed to be constructed of concrete walls, ceiling, and flooring. Potential asbestos-containing components may be located within the electrical panels on Site.

4.0 EXCLUDED AREAS AND MATERIALS

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

- The electrical panels and associated components were not inspected by Golder during the assessment. If the panels are to be removed or impacted by future renovation or demolition activities, additional investigation and sampling of suspect materials may be required.

5.0 CONCLUSIONS AND RECOMMENDATIONS

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

5.1 Asbestos-Containing Materials

No suspect asbestos-containing materials were observed within the Kiwanis Memorial Park Shed.

If suspect asbestos-containing building materials are encountered during renovation or demolition activities, sampling should be undertaken to evaluate asbestos content.



6.0 SURVEY LIMITATIONS

This report is based on data and information collected by Golder during the assessment conducted on June 10, 2017 and is based solely on site conditions encountered at the time of the assessment. Any use of this document or the findings, conclusions or recommendations provided in this report by any person other than the City of Saskatoon is at the sole risk of such user.

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

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

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

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

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

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

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

7.0 CLOSURE

We trust the information presented in this report meets your requirements. If you have any questions please contact Kody Henderson at (780) 483-3499 or email at kody_henderson@golder.com. Thank you for the opportunity to be of service. We look forward to working with you again in the future.



Report Signature Page

GOLDER ASSOCIATES LTD.

Prepared by:

Reviewed by:

Handwritten signature of Kody Henderson in black ink.

Kody Henderson, Dipl. Env. Sci., CRSP
OHS Project Manager

Handwritten signature of Andrew Grant in black ink.

Andrew Grant, B.Sc., P.Eng., EP, CRSP
Associate, OHS Project Director

KH/AG/ba

Golder, Golder Associates and the GA globe design are trademarks of Golder Associates Corporation.

\\golder\ga\ledmonton\active\2016\3 proj\1667963 cityofsaskatoon_asbsurveys_saskatoon\07 reports\17 - kiwanis park shed\city of saskatoon - kiwanis park shed - asbestos building material assessment report.docx



APPENDIX A

Kiwanis Memorial Park Shed – ACM Inventory

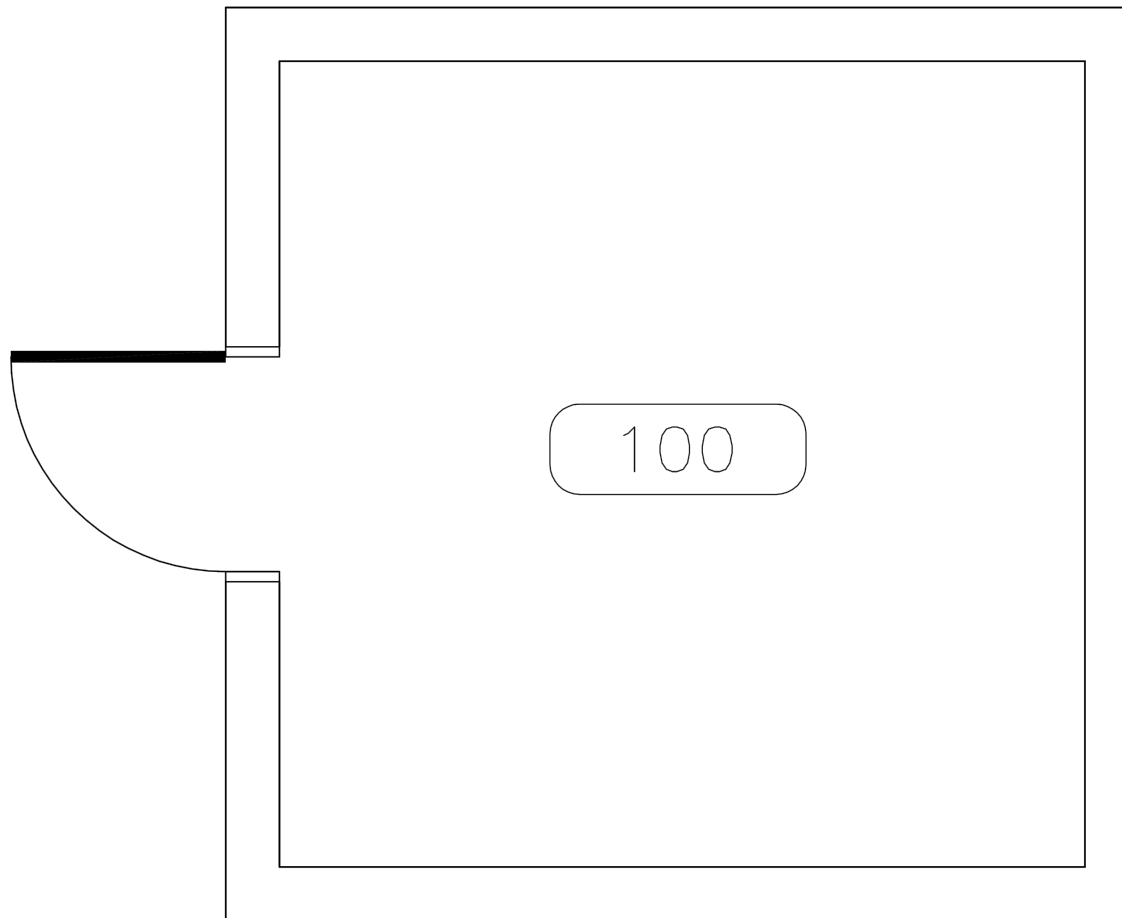
Appendix A
 Kiwanis Memorial Park Shed
 ACM Inventory

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	100	Open Area	Walls	Walls	Concrete	High	No	No	No	Good																	
Included	M	100	Open Area	Floor	Floor	Concrete	High	No	No	No	Good																	
Included	M	100	Open Area	Ceiling	Ceiling	Concrete	High	No	No	No	Good																	
Included	M	100	Open Area	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	E	Exterior	Exterior	Walls	Walls	Concrete	High	No	No	No	Good																	



APPENDIX B

Floor Plan



SCHEMATIC ONLY, NOT TO SCALE

NOTE(S)

1. ASBESTOS IS A CARCINOGEN. DO NOT BREATHE ASBESTOS DUST.
2. ASBESTOS-CONTAINING MATERIALS WERE NOT OBSERVED WITHIN THE SHED AT THE TIME OF THE ASSESSMENT.

CLIENT
 CITY OF SASKATOON

PROJECT
 ASBESTOS ASSESSMENT
 KIWANIS MEMORIAL PARK SHED
 501 SPADINA CRESCENT EAST

CONSULTANT
 YYYY-MM-DD 2017-07-13

TITLE
MAIN FLOOR

REFERENCE(S)
 PLAN OBTAINED FROM INFRASTRUCTURE SERVICES DEPARTMENT CITY OF SASKATOON. DATED: 06/02/2017.



DESIGNED	KH
PREPARED	YW
REVIEWED	KH
APPROVED	AG

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

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.

For more information, visit golder.com

Africa	+ 27 11 254 4800
Asia	+ 86 21 6258 5522
Australasia	+ 61 3 8862 3500
Europe	+ 356 21 42 30 20
North America	+ 1 800 275 3281
South America	+ 56 2 2616 2000

solutions@golder.com
www.golder.com

Golder Associates Ltd.
16820 107 Avenue
Edmonton, Alberta, T5P 4C3
Canada
T: +1 (780) 483 3499

