



**Cosmo Civic Centre  
Saskatoon, SK.**



**Asbestos Survey Report  
March 2015**

**Prepared For: City of Saskatoon Infrastructure Services - Facilities Branch**  
3130 Laurier Drive, Saskatoon, SK.  
Attn: Brent Anderson

**Prepared By: Bersch & Associates Ltd.**  
**Project No. : B67SRL17**

## 1.0 EXECUTIVE SUMMARY

The survey of the Cosmo Civic Centre located at 3130 Laurier Drive in Saskatoon, SK. entailed the inspection of all accessible suspect asbestos-containing materials (ACM) located within the facility. Materials inspected included mechanical insulation, acoustical ceiling material, ceiling tile, duct expansion gasket, fire-stop material, floor coverings and drywall mud compound.

Bulk sample analysis results indicate the presence of “Chrysotile” asbestos within the Cosmo Civic Centre located in Saskatoon, SK. Please refer to **Appendix I for the Bulk Sample Analysis** results. The asbestos material identified as samples #1 & #2 of the bulk sample analysis report during the asbestos registry (May 2013) has been removed. The asbestos material identified as samples #7 & #8 has been removed during the Asbestos Abatement within the 301 Mechanical Room conducted on December 22, 2014.

During a previous area survey throughout the second floor Community Development Office Area, asbestos containing fire damper material was identified within the return air duct above the grille in the suspended ceiling grid. Please refer to **Appendix II for the Bulk Sample Analysis** results of the samples collected on May 31, 2013. The material was removed during the renovation. Upon retrofitting the mechanical air handling system throughout the building, it is our recommendation that additional investigation be carried out to determine whether similar asbestos containing materials are present at the fire dampers.

***Prior to any major renovation/demolition activity, a destructive investigation is recommended to identify any inaccessible ACM that may be physically concealed or isolated in areas such as enclosed wall/ceiling/floor cavities and pipe chases. Additional testing of drywall mud compound is also recommended prior to renovation/demolition activity.***

**The Block Walls** throughout the facility were inspected for Vermiculite content as some forms of Vermiculite do contain asbestos. No Vermiculite was observed during the asbestos inspection activity. Again, a thorough destructive investigation is recommended prior to demolition activity to ensure the absence of vermiculite asbestos material.

## 2.0 INTRODUCTION

Bersch & Associates Ltd. was retained by the City of Saskatoon to conduct an Asbestos Survey and Hazard Assessment of the Cosmo Civic Centre located in Saskatoon, SK. The survey entailed the inspection of all accessible areas of the facility; including crawlspaces, ceiling spaces, pipe chases and attics. The purpose of the survey was to locate, identify and assess the condition of all Asbestos Containing Materials (ACM) located throughout the facility.

Dustin Fraess and Jared Leier of Bersch & Associates Ltd. completed the survey in January of 2015. As a result, no accessible asbestos containing materials were identified throughout the Cosmo Civic Centre. A review of this report shall be conducted with all trades that are entering the facility to perform maintenance or renovation activity. This will ensure they are informed of the potential presence of asbestos-containing materials that were classified as inaccessible during this survey. Furthermore, will prevent an uncontrolled disturbance and/or possible exposure to asbestos.

## 3.0 METHODOLOGY

Bersch & Associates Ltd. began conducting the survey of the Cosmo Civic Centre in Saskatoon, SK in December of 2014. The primary documents for guidance and criteria in this survey were the Province of Saskatchewan “Occupational Health and Safety Act and Regulations, 1996”, Province of Saskatchewan “Managing Asbestos”, and the U.S. Environmental Protection Agency “Guidance for Controlling Asbestos Containing Materials in Buildings”. The USEPA document identifies factors associated with the “condition” and the “potential for disturbance or erosion” of asbestos containing materials (ACM). These factors help to determine potential for exposure to ACM and were used to make a qualitative evaluation of the material. It should be noted that **no accessible** Asbestos Containing Materials were identified within the facility post abatement of the mechanical room completed on December 22, 2014. In the event that renovations are scheduled, destructive sampling is recommended to determine the presence or absence of asbestos material throughout the areas referred to as inaccessible during this survey.

In total, thirty-three (33) bulk samples of suspect asbestos-containing materials were collected throughout the Cosmo Civic Centre as part of the asbestos registry and complete survey. Chrysotile asbestos was identified in four (4) of the samples collected. The three samples found within Mechanical Room 301 and one sample located in the adjacent corridor 300 have been abated. Refer to Appendix I for a copy of the Bulk Sample Analysis Report. All bulk samples collected were analyzed by Bersch & Associates Ltd. laboratory 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 <1% by volume.

## 4.0 RECOMMENDATIONS:

No accessible asbestos-containing materials remain within the Cosmo Civic Centre. **Prior to any major renovation/demolition activity, a destructive investigation is recommended to identify any inaccessible ACM that may be physically concealed or isolated in areas such as enclosed wall/ceiling/floor cavities and pipe chases/ducting.**

## 5.0 ASBESTOS ABATEMENT DISCUSSION

Although no accessible asbestos was identified within the facility, the following is provided for informational purposes.

Asbestos is a known carcinogen and is listed in the Province of Saskatchewan under the Occupational Health and Safety Appendix, Part V as a Hazardous Chemical Substance and any release of asbestos fibres into the atmosphere creates a potential health hazard. Although the mechanism and epidemiology of asbestos carcinogenesis is not yet well defined, accumulating evidence suggests the significance of exposure at even very low fibre concentrations and hence human exposure should be kept to a minimum. It should be noted however that asbestos is a natural mineral and a measurable background concentration can be detected in any location sampled (inside buildings, outside buildings, urban, rural, etc.). The recommendations of the report are therefore intended to keep the potential exposure to an absolute minimum with the knowledge that a zero exposure is not possible.

Asbestos containing materials have been used in a wide variety of applications. Of particular concern, is the group of so called friable products. A friable product is one that can be crumbled or reduced to powder or smaller fragments by hand pressure. Publications from the U.S.E.P.A. as early as 1977 have indicated the potential hazard of asbestos exposure in buildings containing these friable products. The two main uses of friable asbestos products are as spray insulation (thermal, acoustic or fireproofing) on deck and/or beams or as thermal insulation on piping or mechanical equipment. A large amount of non-friable asbestos-containing materials have also been used in building construction such as asbestos cement board and asbestos containing vinyl flooring.

The mere presence of a friable asbestos containing material does not imply that there is an actual presence of elevated airborne fibre. As numerous studies have indicated, elevated asbestos fibre levels are generally found when settled dust or the actual asbestos containing material itself is disturbed by maintenance, renovation, inadvertent contact or vibration. The factors considered in the Environmental Protection Agency (USEPA) exposure assessment (condition of material, water damage, activity, movement, exposed surface area, accessibility, friability and presence in an air stream) often give some indication of the likelihood of fibre release but are not in any way definitive in determining whether a hazard exists or not. That is, even if the most friable product exists in a building, elevated fibre levels will not likely occur unless there is some disturbance by physical contact, vibration or an air stream.



There are four possible approaches to control exposure to airborne asbestos once a friable material is identified in a building. These methods briefly are as follows:

- A) **Removal** - Asbestos material is removed and disposed of by burial and replaced by non-asbestos materials.
- B) **Encapsulation** - Asbestos material is coated with a bridging or penetrating sealant.
- C) **Enclosure** - Asbestos containing materials are separated from the building environment by barriers such as suspended ceilings or cladding materials.
- D) **Deferred Action or Management and Custodial Control** - The Province of Saskatchewan Human Resources, Labor and Employment Branch under the Occupational health and Safety Regulations publish a document outlining “The Management of Asbestos”. In the guide for compliance, an action plan is outlined for management of the asbestos materials identified and in summary is:
  - 1. Identification, which has been accomplished by this report.
  - 2. Development of Written Handling Procedures for maintenance personnel or often arrangements are made for a qualified contractor to conduct the necessary removal or spot maintenance prior to the regular staff conducting maintenance.
  - 3. Asbestos Abatement Awareness and Process Training if the regular maintenance personnel are required to conduct asbestos related activities.
  - 4. Inspection on regular basis is conducted to determine the ongoing condition of the material. Sask. Occupational Health & Safety Regulations require an “annual” inspection of all “friable” asbestos materials by a competent person.

## 6.0 REFERENCES

- .1 Province of Saskatchewan "The Occupational Health and Safety Act and The Occupational Health and Safety Regulations" Office Consolidation, December 1996.
- .2 Province of Saskatchewan Human Resources, Labor, and Employment "The Management of Asbestos" January, 1991.
- .3 USEPA, 1985. U.S. Environmental Protection Agency, "Guidance for Controlling Asbestos-Containing Materials in Buildings". Washington, DC: Office of Toxic Substances, USEPA.
- .4 Midwest Centre for Occupational Health & Safety St. Paul's, Minnesota – Asbestos Training For Inspectors & Management Planners
- .5 McCrone Research Institute Course Hayward California " Asbestos Identification"
- .6 Environment Management and Protection Act, Saskatchewan Environment, October 2002
- .7 Hazardous Substances and waste Dangerous Goods Regulations, Saskatchewan Environment, April 1989

**APPENDIX I**

**BULK SAMPLE ANALYSIS REPORT 2014**

***BERSCH & ASSOCIATES LTD.***

December 17, 2014

City Of Saskatoon  
Infrastructure Services Department  
3130 Laurier Drive  
Saskatoon, Sk.  
S7L 5J7

**ATTENTION: Brent Anderson**

**SUBJECT: Bulk Sample Analysis Report**

Please find attached the laboratory results for the bulk analysis of the samples collected throughout the Cosmo Civic Centre located at 3130 Laurier Drive in Saskatoon, SK. The samples were analyzed in our laboratory for the identification of asbestos.

The results for the bulk samples 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 me at 306 222 7477. Thank you for this opportunity of service!

Sincerely,

Brad Berschiminsky  
Bersch & Associates Ltd.  
File: B67BLL17

**Bersch & Associates Ltd.**

B67BAL17

Box 3568

Humboldt, Sask. S0K 2A0

**BULK SAMPLE ANALYSIS REPORT****PROJECT NO. B67.15****CLIENT: City of Saskatoon****Infrastructure Services - Facilities Branch****Contact: Brent Anderson****Location: Cosmo Civic Center - 3130 Laurier Drive, Saskatoon, SK.**

NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
1	23-May-13	301 Mechanical Room - Small Pipeline Fitting On Overhead HWHR Line 1 To Left Of Entry Adjacent Circ. Pump #8	Chrysotile	75	WB
2	23-May-13	301 Mechanical Room - Boiler Breeching On Boiler #1 Exhaust	Chrysotile	70	WB
3	23-May-13	113 & 101 - Acoustical Insulation On The Ceiling	None Detected		WB
4	23-May-13	112 - 1' x 1' Floor Tile, Beige With Brown Streak	None Detected		WB
5	23-May-13	157 - Wall Board On South Wall	None Detected		WB
6	23-May-13	139 - 2' x 4' Suspended Ceiling Tile	None Detected		WB
7	17-Dec-14	301 - Small Pipeline Fitting Adjacent Desk And Humidifier CC-08-004	Chrysotile	70	WB

**Bersch & Associates Ltd.**

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**BULK SAMPLE ANALYSIS REPORT****PROJECT NO. B67.15****CLIENT: City of Saskatoon****Infrastructure Services - Facilities Branch****Contact: Brent Anderson****Location: Cosmo Civic Center - 3130 Laurier Drive, Saskatoon, SK.**

NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
8	17-Dec-14	300 - Debris On Stairs	Chrysotile	60	WB
9	17-Dec-14	301 - Fire-Stop At Electrical Floor Penetrations Adjacent The South Wall In The Southeast Corner	None Detected		WB
10	17-Dec-14	301 - Duct Expansion Gasket On Gym Exhaust #5	None Detected		WB
11	17-Dec-14	301 - Fresh Air Duct Insulation Adjacent East Wall	None Detected		WB
12	17-Dec-14	108 - Medium Pipeline Fitting In Southwest Corner Adjacent Red Tank	None Detected		WB
13	17-Dec-14	108 - Pipeline Fitting On Small Line In Southeast Corner Adjacent Heater	None Detected		WB
14	17-Dec-14	108 - Fire-Stop Material At Pipe Penetrations In Southeast Corner	None Detected		WB

**Bersch & Associates Ltd.**

B67BAL17

Box 3568  
Humboldt, Sask. S0K 2A0**BULK SAMPLE ANALYSIS REPORT****PROJECT NO. B67.15****CLIENT: City of Saskatoon****Infrastructure Services - Facilities Branch****Contact: Brent Anderson****Location: Cosmo Civic Center - 3130 Laurier Drive, Saskatoon, SK.**

NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
15	17-Dec-14	108 - Lineal Pipe Insulation Adjacent Blue Electrical Box Along The East Wall	None Detected		WB
16	17-Dec-14	110 - Large Pipeline Fitting In Southeast Corner Along East Wall	None Detected		WB
17	17-Dec-14	110 - Small Pipeline Fitting In Southeast Corner Along East Wall	None Detected		WB
18	17-Dec-14	110 - Small Pipeline Fitting In Southwest Corner Adjacent Unit Heater	None Detected		WB
19	17-Dec-14	106 - Small HWHS Pipeline Fitting Adjacent Unit Heater	None Detected		WB
20	17-Dec-14	106 - Small HWHR Pipeline Fitting Adjacent Unit Heater	None Detected		WB
21	17-Dec-14	125 - 1' x 4' Hockey Flooring	None Detected		WB

**Bersch & Associates Ltd.**

B67BAL17

Box 3568  
Humboldt, Sask. S0K 2A0**BULK SAMPLE ANALYSIS REPORT****PROJECT NO. B67.15****CLIENT: City of Saskatoon****Infrastructure Services - Facilities Branch****Contact: Brent Anderson****Location: Cosmo Civic Center - 3130 Laurier Drive, Saskatoon, SK.**

NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
22	18-Dec-14	133 - Fireproofing	None Detected		WB
23	18-Dec-14	101 - Textured Parging On Beam Painted Purple	None Detected		WB
24	18-Dec-14	121 - 2' x 4' Ceiling Tile With Pin Holes And Gashes	None Detected		WB
25	18-Dec-14	123 - 1' x 1' Floor Tile Brown With White And Brown Spec	None Detected		WB
26	18-Dec-14	150 - 1' x 1' Floor Tile 3-Toned Maroon	None Detected		WB
27	18-Dec-14	112 - Small Pipeline Fitting Above Entry Door	None Detected		WB
28	18-Dec-14	112 - Small Pipeline Fitting Above Entry Door	None Detected		WB



**Bersch & Associates Ltd.**

B67BAL17

Box 3568  
Humboldt, Sask. S0K 2A0**BULK SAMPLE ANALYSIS REPORT****PROJECT NO. B67.15****CLIENT: City of Saskatoon****Infrastructure Services - Facilities Branch****Contact: Brent Anderson****Location: Cosmo Civic Center - 3130 Laurier Drive, Saskatoon, SK.**

<b>NO.</b>	<b>DATE</b>	<b>SAMPLE INFORMATION</b>	<b>ASBESTOS</b>	<b>%</b>	<b>ANALYST</b>
29	18-Dec-14	135 - 1' x 1' Floor Tile Cream With Black Spec	None Detected		WB
30	18-Dec-14	135 - Second Layer Of Floor Tile	None Detected		WB
31	18-Dec-14	139 - Fireproofing On Beam In Southwest Corner	None Detected		WB
32	18-Dec-14	139 - Drywall Mud Compound Above Ceiling Tile In Centre Of Room	None Detected		WB
33	18-Dec-14	209 - 2' x 4' Ceiling Tile With Pin Holes	None Detected		WB

**APPENDIX II**

**BULK SAMPLE ANALYSIS REPORT 2013**

***BERSCH & ASSOCIATES LTD.***

June 14, 2013

City of Saskatoon  
Facilities Branch  
1101 Ave P North  
Saskatoon, SK.  
S7L 7K6

**ATTENTION: Dale Hrynuik**

SUBJECT: Bulk Material Identification Report

Please find attached our laboratory's results for the bulk samples collected throughout the Community Development Office Area within the Cosmo Civic Center. The samples were forwarded to our Laboratory for the identification of asbestos. Asbestos was detected within the sample of the retractable fire damper inside the return air duct above the grilles in the ceiling grid.

The dampers may remain in place as long as they remain in good condition. The condition of the fire dampers should be verified when the renovation is scheduled for the 2<sup>nd</sup> floor. It is an opportune time as the ceiling tile and grilles will be removed.

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 material 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 me at 306 222-7477. Thank you for this opportunity of service!

Sincerely,

Brad Berschiminsky  
Bersch & Associates Ltd.  
File: B67BLE31

**Bersch & Associates Ltd.**

B67BAE31

Box 3568

Humboldt, Sask. S0K 2A0

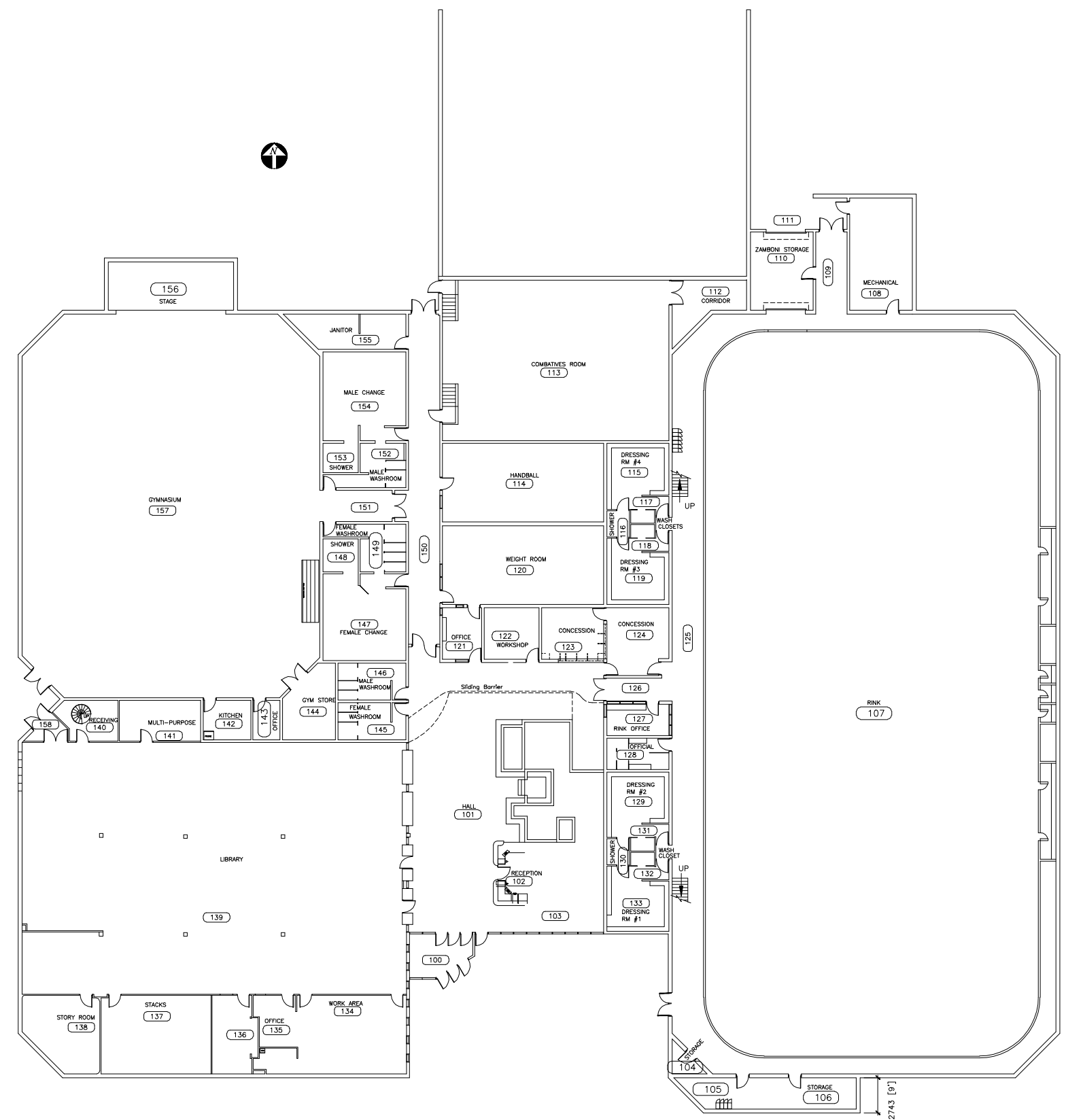
**BULK SAMPLE ANALYSIS REPORT****PROJECT NO. B67.13****CLIENT: CITY OF SASKATOON****LOCATION: COSMO CIVIC CENTER - 2ND FLOOR****COMMUNITY DEVELOPMENT OFFICE AREA****CONTACT: Dale Hrynuik**

NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
1	31-May-2013	Rear corridor within the office area - 2' X 4' ceiling tile with a pinhole pattern.	None detected		WB
2	31-May-2013	Rear corridor within the office area - 1' X 1' light green / dark green & white streak floor tile beneath carpet.	None detected		WB
3	31-May-2013	1st Office to the west of reception area - ceiling tile with a pinhole pattern surrounding the supply air vent within the ceiling grid.	None detected		WB
4	31-May-2013	1st Office to the west of reception area - dust and debris within the ceiling space adjacent the windows.	None detected		WB
5	31-May-2013	1st Office to the west of reception area - fire damper within the return air duct above the grille in the ceiling grid in the southeast corner adj. the window.	Chrysotile	75	WB
6	31-May-2013	Main corridor within the office area - 2' X 4' ceiling tile with a pinhole pattern at the exit sign between the offices west of the reception area.	None detected		WB

**APPENDIX III**

**FLOOR PLANS**

- GENERAL NOTES:
1. All dimensions are in millimetres.
  2. Drawings are not to be scaled.
  3. All drawings to be read in conjunction with the specifications, unless otherwise noted.
  4. Verify site conditions and location of all utilities prior to the start of construction.
  5. Report all discrepancies to the Consultant.
  6. If in doubt, ask.



REV	ISSUED FOR	DATE

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REQUESTED BY:

SCALE:	DATE:
1:400	

SHEET NAME: Asbuilt

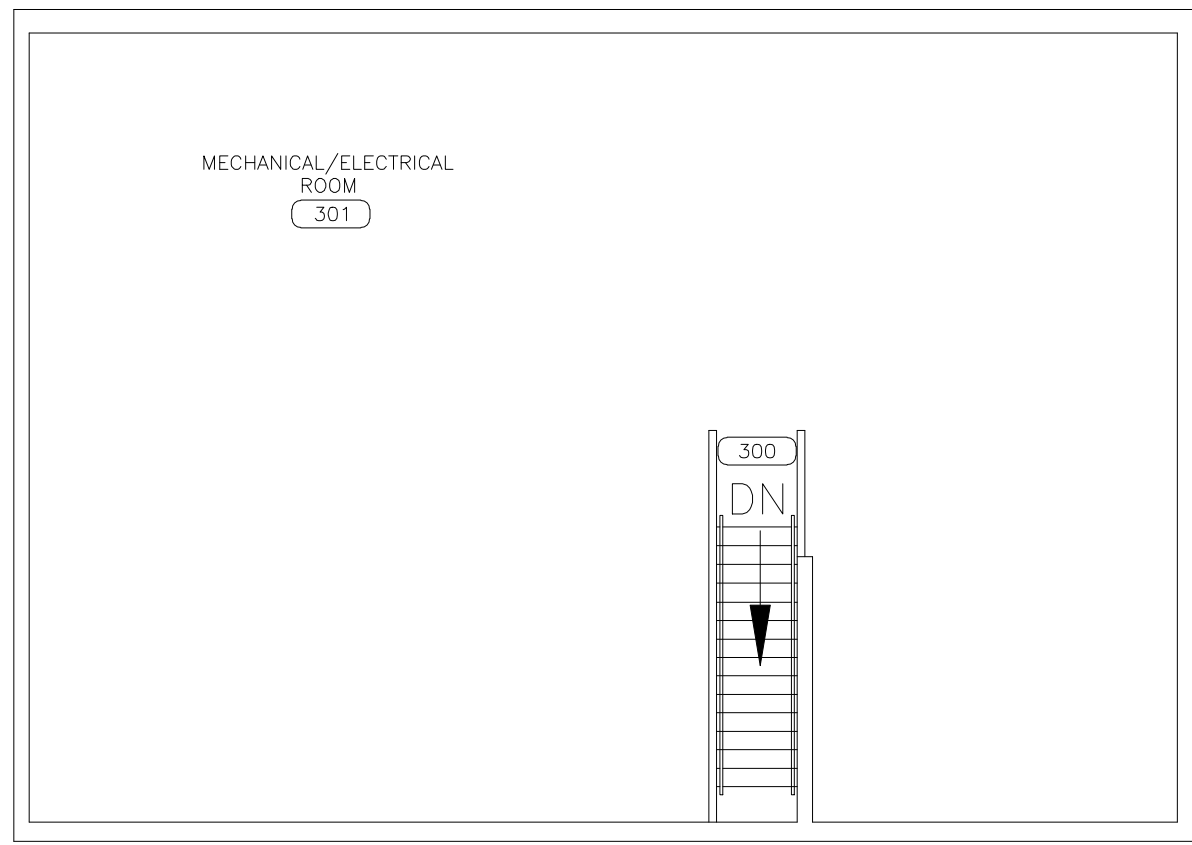
**Main Floor  
Partial Base Plan**

PROJECT TITLE  
**616  
Cosmo Civic  
Centre**

PROJECT NO.	SHEET

REV. NO. 

- GENERAL NOTES:
1. All dimensions are in millimetres
  2. Drawings are not to be scaled.
  3. All drawings to be read in conjunction with the specifications, unless otherwise noted.
  4. Verify site conditions and location of all utilities prior to the start of construction.
  5. Report all discrepancies to the Consultant.
  6. If in doubt, ask.



REV	ISSUED FOR	DATE


DESIGNED BY:	DRAWN BY:	CHECKED BY:	REQUESTED BY:
		dt	RH

SCALE:	DATE:
1:100	18/06/2001

SHEET NAME: Asbuilt

**Mezzanine Floor  
Base Plan**

PROJECT TITLE:  
**616  
Cosmo  
Mech. Mezz.**

PROJECT NO.	SHEET
	REV. NO. 



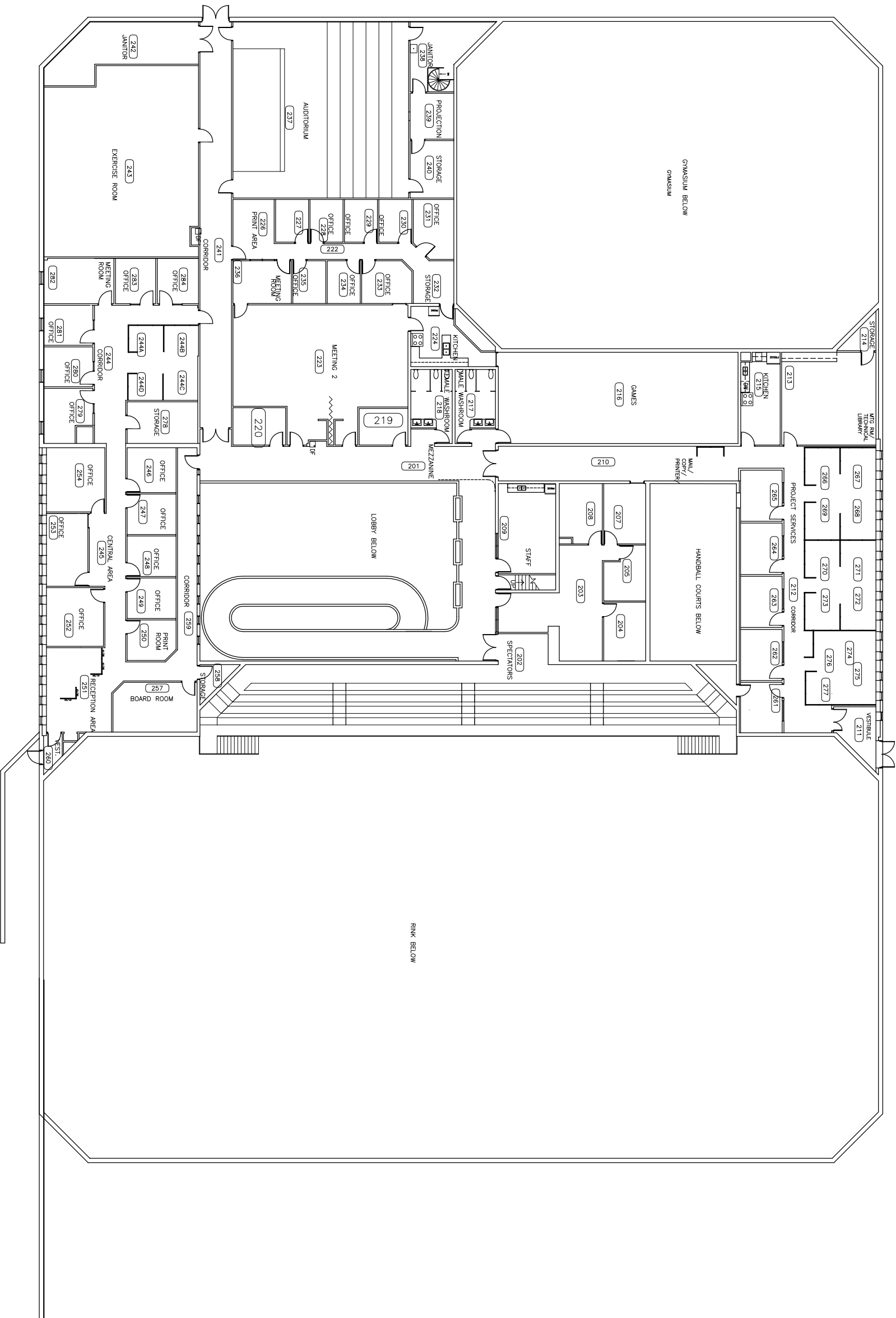
# City of Saskatoon

Infrastructure Services  
Department

Facilities Branch  
306-975-3300

NOTE:  
THESE DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. THE CITY HAS TAKEN STEPS TO VERIFY THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION BUT SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED AS A RESULT OF ERRONEOUS INFORMATION PROVIDED BY OTHERS THAT WAS NOT ABLE TO BE VISUALLY CONFIRMED.

- GENERAL NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES
  2. DRAWINGS ARE NOT TO BE SCALED.
  3. ALL DRAWINGS TO BE READ IN CON-JUNCTION WITH THE SPECIFICATIONS UNLESS OTHERWISE NOTED.
  4. VERIFY SITE CONDITIONS, DIMENSIONS AND LOCATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.
  5. REPORT ALL DISCREPANCIES TO THE CONSULTANT.



REV	ISSUED FOR	DATE

DESIGNED BY:	MSB	CHECKED BY:		REQUESTED BY:	
SCALE:	1:300	DATE:	29/01/2012		
SHEET NAME:	Second Floor Base Plan				
SHEET NAME:	Asbuilt				

PROJECT TITLE  
**616 Cosmo Civic Centre**

PROJECT NO.	SHEET
REV. NO.	



July 17, 2020

**Client:** City of Saskatoon  
3130 Laurier Drive  
Saskatoon, SK  
S7L 5J7

**Attention:** Dean Buchholz

**File Number:** B67PRG13J

**Subject: Pre-Renovation Assessment – Cosmo Civic Centre – South Ramp Replacement**

Brad Berschiminsky and Blake Berschiminsky of Bersch Consulting Ltd. conducted site visits on both June 10, 2020, and July 13, 2020 to the Cosmo Civic Centre located at 3130 Laurier Drive, Saskatoon, Saskatchewan. The purpose of the visits was to investigate and collect bulk samples to determine the presence/absence of asbestos for the Pre-Renovation Assessment. In total, thirteen (13) bulk samples were collected and analyzed for the identification of asbestos. Asbestos was detected within seven of the samples.

The results for the bulk samples collected 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. Please reference to **Appendix I** for the **Bulk Sample Analysis Results**.

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.

## Site Observations and Information

The Cosmo Civic Centre located at 3130 Laurier Drive, Saskatoon, Saskatchewan was surveyed with the intent of identifying all asbestos-containing materials (ACMs) within the ramp on the South side of the building prior to any renovations.

- a) One (1) composite sample of tar from the parking backing on the ramp from the inside of the lower guardrail and the lower wall of the building was collected and tested positive for asbestos.
- b) Two (2) samples of the thru-wall flashing – 1 from the base of the Southwest angled wall and 1 from the base of the Guardrail wall facing the landscape area, were collected and tested positive for asbestos.
- c) Four (4) samples of the tar - waterproofing coating from behind brick wall and the building cladding in various locations were collected and tested positive for asbestos.
- d) All other samples collected – asphalt, tar wall membrane, parking (both sides of guardrail), and brick mortar – were identified as non-ACM.

Based on the site investigation and bulk sample results there is asbestos concerns regarding the renovation of the Cosmo Civic Centre – South Ramp located at 3130 Laurier Drive, Saskatoon, Saskatchewan. As per the Occupational Health & Safety Regulations the tar layer, thru-wall flashing and waterproofing coating itemized above will require abatement.

Please reference to **Appendix I** for the **Bulk Sample Analysis Results**, **Appendix II** for the **Site Photos** and **Appendix III** for the **Floor Plan**.

If any questions arise on the results of the attached information, please contact our office at 306.978.6665 or my cell 306.222.7477. Thank you for this opportunity of service!

Sincerely,



Brad Berschiminsky  
Bersch Consulting Ltd.  
B67PRG13J – Cosmo Civic Centre – South Ramp

# Appendix I

## Bulk Sample Analysis Results

## Bulk Sample Analysis Report

July 15, 2020

Project Number: B67.20

Client: City of Saskatoon

Contact: Dean Buchholz

Location: Cosmo Civic Centre

File Number: B67BAG13J

Sample Number	Sample Date	Sample Material	Sample Location and Information	Asbestos	%	Analyst
1	2020/06/10	Asphalt	South Ramp Surface Composite Sample	No Asbestos Detected		EMSL/WB
2	2020/06/10	Tar Wall Membrane	South Ramp on the Exterior of the Guardrail Wall on the Lower Portion of the Retaining Wall Adjacent the Fiber Optic Pull Box	No Asbestos Detected		EMSL/WB
3a	2020/06/10	Tar	Composite Sample along the South Ramp on the Lower Wall of the Building and the Inside of the Guardrail Wall Attached to the Parging and Mesh Layer on the Surface of the Styrofoam Insulation	Chrysotile	10%	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.

Sample Number	Sample Date	Sample Material	Sample Location and Information	Asbestos	%	Analyst
3b	2020/06/10	Parging	Composite Sample along the South Ramp on the Lower Wall of the Building and the Inside of the Guardrail Wall on the Surface of the Styrofoam Insulation	No Asbestos Detected		EMSL/WB
4	2020/06/10	Parging	South Ramp on the Exterior of the Guardrail Wall Adjacent the Fiber Optic Pull Box	No Asbestos Detected		EMSL/WB
5	2020/06/10	Mortar	South Ramp Composite Sample Between the Bricks	No Asbestos Detected		EMSL/WB
6	2020/06/17	Tar – Waterproofing	South Ramp Under Asphalt/Dirt/Styrofoam	No Asbestos Detected		EMSL/WB
7	2020/06/22	Flashing Membrane	Southwest Angled Wall Thru-Wall Flashing on the Angle at the Base of the Brick Below the Hose Bib	Chrysotile	2%	EMSL/WB
8	2020/06/22	Parging	Southwest Angled Wall Below the Hose Bib	No Asbestos Detected		EMSL/WB
9	2020/07/13	Tar – Waterproofing	Guardrail - North Wall Surface Waterproofing on Concrete Surface Behind Brick	Chrysotile	10%	EMSL/WB
10	2020/07/13	Flashing Membrane	Guardrail Wall Thru-Wall Flashing on the Step Angle at the Base of the Brick on the South Side of the Wall	Chrysotile	5%	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.

Sample Number	Sample Date	Sample Material	Sample Location and Information	Asbestos	%	Analyst
11	2020/07/13	Tar / Membrane Waterproofing	Guardrail - South Wall Surface Rubberized (EPDM) Waterproofing and Tar Coating on Concrete Behind Brick	Chrysotile	2%	EMSL/WB
12	2020/07/13	Tar - Waterproofing	Southwest Angled Wall Waterproofing on Concrete Surface Behind Brick	Chrysotile	10%	EMSL/WB
13	2020/07/13	Tar – Waterproofing	Centre of South Building Wall along Ramp Waterproofing on Surfaces Behind Cladding	Chrysotile	10%	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.

# Appendix II

## Site Photos



**Photo ID**

B67PRG13J - 001

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**Sample ID**

B67BAG13J - 1

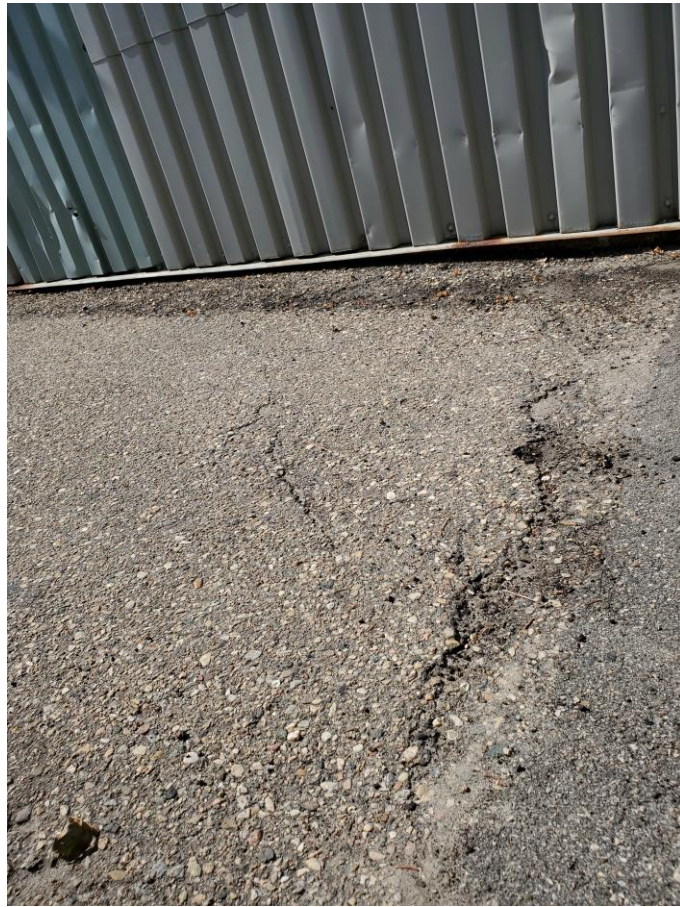
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**Description**

Ramp on South Side of the Building – Composite Sample.

Non-asbestos asphalt.

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**Photo ID**

B67PRG13J - 002

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**Sample ID**

B67BAG13J - 2

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**Description**

Ramp on South Side of the Building. Portion of Retaining Wall Adjacent the Fiber Optic Pull Box.

Non-asbestos tar wall membrane.

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**Photo ID**

B67PRG13J - 003

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**Sample ID**

B67BAG13J – 3a/3b

---

**Description**

Ramp on South Side of the Building. Lower Inside Guardrail Wall Facing the Asphalt.

Asbestos containing tar.

Non-asbestos parging.

---



**Photo ID**

B67PRG13J - 004

---

**Sample ID**

B67BAG13J - 4

---

**Description**

Ramp on South Side of the Building, Lower Guardrail Wall Adjacent the Fiber Optic Pull Box.

Non-asbestos parging.

---





**Photo ID**

B67PRG13J – 005

---

**Sample ID**

B67BAG13J - 5

---

**Description**

Ramp on South Side of the Building.

Non-asbestos brick mortar.

---



**Photo ID**

B67PRG13J – 006

---

**Sample ID**

B67BAG13J - 6

---

**Description**

Ramp on South Side of the Building. Material below the Asphalt/Dirt/Styrofoam.

Non-asbestos tar waterproofing.

---





**Photo ID**

B67PRG13J – 007

---

**Sample ID**

B67BAG13J - 7

---

**Description**

Southwest Angled Wall Thru-wall Flashing at the base of the brick on the angle.

Asbestos containing flashing membrane.

---



**Photo ID**

B67PRG13J – 008

---

**Sample ID**

B67BAG13J - 8

---

**Description**

Lower Southwest Angled Wall below the Hose Bib.

Non-asbestos parging.

---





**Photo ID**

B67PRG13J – 009

---

**Sample ID**

B67BAG13J - 9

---

**Description**

Guardrail north wall surface behind brick.

Asbestos containing waterproofing.

---



**Photo ID**

B67PRG13J – 010

---

**Sample ID**

B67BAG13J - 10

---

**Description**

Guardrail wall on the south side of the wall. Thru-wall Flashing at the base of the brick on the step angle.

Asbestos containing.

---



**Photo ID**

B67PRG13J – 011

---

**Sample ID**

B67BAG13J - 11

---

**Description**

Guardrail south wall surface  
behind the brick. EPDM  
waterproofing and tar coating.

Asbestos containing.

---



**Photo ID**

B67PRG13J – 012

---

**Sample ID**

B67BAG13J - 12

---

**Description**

Southwest angled wall surface  
behind brick.

Asbestos containing  
waterproofing.

---





**Photo ID**

B67PRG13J – 013

---

**Sample ID**

B67BAG13J - 13

---

**Description**

South building wall surfaces  
behind cladding.

Asbestos containing  
waterproofing.

---



## **Appendix III**

### Floor Plan







## Pre- Renovation Assessment

April 10, 2018

**Client: City of Saskatoon**  
**Facilities and Fleet Management**  
**3130 Laurier Drive**  
**Saskatoon, Sk**  
**S7L 5J7**

**Attention: Richard Rothenburger**

**File Number: B67PRD06H- Cosmo Civic Center**

**Project: Cosmo Civic Center –3130 Laurier Dr, Saskatoon– Sharps Bin Replacement**

Evan Westad of Bersch Consulting Ltd. conducted a site visit on April 6, 2018, to the Cosmo Civic Center located at 3130 Laurier Dr, Saskatoon, Saskatchewan. The purpose of the visit was to investigate and collect bulk samples to determine the presence/absence of asbestos. No suspect materials were identified, and no samples were collected.

### Site Observations and Information

The scope of this investigation included cinderblock walls within six (6) washrooms/ changerooms in the Cosmo Civic Center. The rooms included Rm. 145 women's washroom, Rm. 146 men's washroom, Rm. 147 women's changeroom, Rm. 152 men's changeroom, Rm. 217 men's washroom and Rm. 218 women's changeroom. One (1) hole was cored within each wall in the approximate location the new sharps bins will be installed. No vermiculite was identified in any of the examined locations and no bulk samples were collected. Please see **APPENDIX I** for site photos.

Based on observations during the site visit there is no asbestos concern regarding the replacement of sharps bins in any of the investigated locations.

If any questions arise on the results of the attached information, please contact Evan Westad at (306) 978-6665. Thank you for this opportunity of service.

Sincerely,



Evan Westad  
Bersch Consulting Ltd.  
File No.: B67PRD06H – Cosmo Civic Center

# **Appendix I**

## Site Photos



Photo 1- Rm. 152 Men's Changeroom



Photo 2- Rm. 146 Men's Washroom





Photo 3- Rm. 145 women's washroom



Photo 4- Rm. 147 women's changeroom





Photo 5- Rm. 217 men's washroom



Photo 6- Rm. 218 women's washroom



# BERSCH CONSULTING LTD.

January 25, 2018

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

**ATTENTION: Audrey Van Dijk**

**SUBJECT: Bulk Sample Analysis Report – Carlyle King Library (Cosmo Civic Center)**

Please find attached the laboratory results for the bulk samples collected on January 22, 2018 from the Carlyle King Library and Cosmo Civic Center located at 3130 Laurier Drive Saskatoon, Saskatchewan. The samples were collected from the display case of the Carlyle King Library and Cosmo Civic Center. The samples were analyzed for the identification of asbestos. Asbestos **was** detected within 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, B.S.A., M.SEM.  
Bersch Consulting Ltd.  
B67BLA22H- Carlyle King Library & Cosmo Civic Center

***Bersch Consulting Ltd.***

244-2002 Quebec Avenue  
Saskatoon, SK S7K 1W4

B67BAA22H

**BULK SAMPLE ANALYSIS REPORT**

**PROJECT NO: B67.18**  
**CLIENT: CITY OF SASKATOON**  
**CONTACT: AUDREY VAN DIJK**  
**LOCATION: CARLYLE KING LIBRARY / COSMO CIVIC CENTER**

<b>NO.</b>	<b>DATE</b>	<b>SAMPLE INFORMATION</b>	<b>ASBESTOS</b>	<b>%</b>	<b>ANALYST</b>
1	22-Jan-18	Display Case - Window Caulking	Chrysotile	7%	EMSL
2	22-Jan-18	Display Case - Drywall Mud Compound	No Asbestos Detected		EMSL

# BERSCH CONSULTING LTD.

September 13, 2017

City of Saskatoon  
Facilities & Fleet Division  
1101 Avenue P North  
Saskatoon, SK  
S7L 7K6

**ATTENTION: Chad Thompson / Hazel Fernandez**

**SUBJECT: Pre-Renovation Assessment – Gymnasium Exterior Wall**


Tyneal Knackstedt of Bersch Consulting Ltd. conducted a Pre-Renovation Assessment on September 11, 2017, to investigate the exterior block wall of the gymnasium of the Cosmo Civic Center. The Cosmo Civic Center is located at 3130 Laurier Drive, Saskatoon, SK. The exterior block wall was drilled into to check for vermiculite insulation. No vermiculite insulation was identified but the block wall cavity was filled with an insulation. One (1) sample of the insulation was collected and analyzed for the identification of asbestos. Asbestos **was not** detected in the sample.

The results for the bulk samples 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, B.S.A, M.SEM.  
Bersch Consulting Ltd.  
B67BLI11G – PRA - Cosmo

***Bersch Consulting Ltd.***

244-2002 Quebec Avenue  
Saskatoon, SK S7K 1W4

B67BAI11G

**BULK SAMPLE ANALYSIS REPORT**

**PROJECT NO:** B67.17  
**CLIENT:** CITY OF SASKATOON  
**CONTACT:** CHAD THOMPSON / HAZEL FERNANDEZ  
**LOCATION:** COSMO CIVIC CENTER

NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
1	11-Sep-17	Gymnasium Exterior Block Wall - Wall Fill Insulation	No Asbestos Detected		EMSL

***Bersch & Associates Ltd.***

B67BAA09

Box 3568

Humboldt, Sask. S0K 2A0

**BULK SAMPLE ANALYSIS REPORT**

**PROJECT NO. B67.15**

**CLIENT: City of Saskatoon**

**Infrastructure Services - Facilities Branch**

**Contact: Brent Anderson**

**Location: Cosmo Civic Center - 3130 Laurier Drive, Saskatoon, SK.**

NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
1	9-Jan-15	204 Office - Lineal pipeline insulation laying on top of ceiling tile	None Detected		WB

***BERSCH & ASSOCIATES LTD.***

August 23<sup>rd</sup>, 2016

City of Saskatoon  
Infrastructure Services Department  
Cosmo Civic Centre  
3130 Laurier Drive  
Saskatoon, Sk  
S7L 5J7

**ATTENTION: Karen Sinclair**

**SUBJECT: Bulk Sample Analysis Report – Cosmo Civic Centre**

Please find attached the laboratory results for the bulk sample collected from the Cosmo Civic Centre on August 18<sup>th</sup>, 2016 located at 3130 Laurier Drive, Saskatoon, SK. The sample was analyzed for the identification of asbestos. Asbestos **was not** detected in the sample.

The results for the sample 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 306 222 7477. Thank you for this opportunity of service!

Sincerely,



Brad Berschiminsky  
Bersch & Associates Ltd.

File: B67BLH18F – Cosmo Civic Centre

***Bersch & Associates Ltd.***

B67BAH18F

Box 3568  
Humboldt, Sask. S0K 2A0

**BULK SAMPLE ANALYSIS REPORT**

**PROJECT NO: B67.16**

**CLIENT: CITY OF SASKATOON  
INFRASTRUCTURE SERVICES DEPARTMENT**

**CONTACT: KAREN SINCLAIR**

**LOCATION: COSMO CIVIC CENTRE, 3130 LAURIER DRIVE, SASKATOON, SK**

NO.	DATE	SAMPLE INFORMATION	ASBESTOS	%	ANALYST
1	18-Aug-16	Office 205 - Drywall Mud Compound	No Asbestos Detected		WB

***BERSCH & ASSOCIATES LTD.***

October 14<sup>th</sup>, 2016

City of Saskatoon  
Infrastructure Services Department  
Cosmo Civic Centre  
3130 Laurier Drive  
Saskatoon, Sk  
S7L 5J7

**ATTENTION: Natalie Scott**

**SUBJECT: Bulk Sample Analysis Report – Cosmo Civic Centre**

Please find attached the laboratory results for the bulk samples collected from the Cosmo Civic Centre on October 6<sup>th</sup>, 2016 located at 3130 Laurier Drive, Saskatoon, SK. The samples were analyzed for the identification of asbestos. Asbestos **was** detected in 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 306 222 7477. Thank you for this opportunity of service!

Sincerely,



Brad Berschiminsky  
Bersch & Associates Ltd.

File: B67BLJ06F – Cosmo Civic Centre



**Bersch & Associates Ltd.**

B67BAJ06F

Box 3568

Humboldt, Sask. S0K 2A0

**BULK SAMPLE ANALYSIS REPORT****PROJECT NO: B67.16****CLIENT: CITY OF SASKATOON  
INFRASTRUCTURE SERVICES DEPARTMENT****CONTACT: NATALIE SCOTT****LOCATION: COSMO CIVIC CENTRE, 3130 LAURIER DRIVE, SASKATOON, SK**

<b>NO.</b>	<b>DATE</b>	<b>SAMPLE INFORMATION</b>	<b>ASBESTOS</b>	<b>%</b>	<b>ANALYST</b>
1	6-Oct-16	152 & 149 - Fire-Stop at Pipe Penetration Within Ceiling Space Compilation	No Asbestos Detected		WB
2	6-Oct-16	217 & 218 - Tar on Lineal Pipe Insulation Compilation	Chrysotile	8%	WB
3	6-Oct-16	217 & 218 - Lineal Pipe Insulation Within Ceiling Space	No Asbestos Detected		WB
4	6-Oct-16	217 & 218 - Silver Duct Insulation Within Ceiling Space	No Asbestos Detected		WB
5	6-Oct-16	217 & 218 - Ceiling Drywall Mud Compound Compilation	Chrysotile	2%	WB
6	6-Oct-16	217 & 218 - Concrete Speckle Flooring Compilation	No Asbestos Detected		WB
7	6-Oct-16	217 & 218 - Wall Drywall Mud Compound Compilation	Chrysotile	2%	WB

**Bersch & Associates Ltd.**

B67BAJ06F

Box 3568

Humboldt, Sask. S0K 2A0

**BULK SAMPLE ANALYSIS REPORT****PROJECT NO: B67.16****CLIENT: CITY OF SASKATOON  
INFRASTRUCTURE SERVICES DEPARTMENT****CONTACT: NATALIE SCOTT****LOCATION: COSMO CIVIC CENTRE, 3130 LAURIER DRIVE, SASKATOON, SK**

<b>NO.</b>	<b>DATE</b>	<b>SAMPLE INFORMATION</b>	<b>ASBESTOS</b>	<b>%</b>	<b>ANALYST</b>
8	6-Oct-16	217 & 218 - Sink Caulking Compilation	No Asbestos Detected		WB
9	6-Oct-16	152, 149, 146 & 145 - Concrete Speckle Flooring Compilation	No Asbestos Detected		WB
10	6-Oct-16	152 & 149 - Ceiling Drywall Mud Compound Compilation	No Asbestos Detected		WB
11	6-Oct-16	152 & 149 - Lineal Pipe Insulation Within Ceiling Space	No Asbestos Detected		WB
12	6-Oct-16	152 & 149 - Sink Caulking Compilation	No Asbestos Detected		WB
13	6-Oct-16	145 & 146 - Wall Drywall Mud Compound Compilation	No Asbestos Detected		WB
14	6-Oct-16	145 & 146 - Sink Caulking Compilation	No Asbestos Detected		WB

**Bersch & Associates Ltd.**

B67BAJ06F

Box 3568

Humboldt, Sask. S0K 2A0

**BULK SAMPLE ANALYSIS REPORT****PROJECT NO: B67.16****CLIENT: CITY OF SASKATOON  
INFRASTRUCTURE SERVICES DEPARTMENT****CONTACT: NATALIE SCOTT****LOCATION: COSMO CIVIC CENTRE, 3130 LAURIER DRIVE, SASKATOON, SK**

<b>NO.</b>	<b>DATE</b>	<b>SAMPLE INFORMATION</b>	<b>ASBESTOS</b>	<b>%</b>	<b>ANALYST</b>
15	6-Oct-16	145 & 146 - Ceiling Drywall Mud Compilation	No Asbestos Detected		WB
16	6-Oct-16	149 - Caulking Within Ceiling Space Adj. Entry to Gym	No Asbestos Detected		WB
17	6-Oct-16	146 - Insulation Within Ceiling Space	No Asbestos Detected		WB
18	6-Oct-16	146 & 145 - Tar on Lineal Pipe Insulation	Chrysotile	7%	WB
19	6-Oct-16	146 & 145 - Lineal Pipe Insulation Within Ceiling Space	No Asbestos Detected		WB

***BERSCH CONSULTING LTD.***

February 15<sup>th</sup>, 2017

City of Saskatoon  
Facilities and Fleet Management  
3130 Laurier Drive  
Saskatoon, Sk.  
S7L 5J7

**ATTENTION: Richard Rothenburger**

**SUBJECT: Asbestos Site Investigation – Cosmo Civic Centre Renovation Project.**

Mitch Webber of Bersch & Associates Ltd. conducted a site visit on February 9<sup>th</sup>, 2017 to investigate and collect bulk samples of material to confirm the presence/absence of asbestos content. The facility is located at 3130 Laurier Drive, Saskatoon, SK. Three (3) samples were collected and analyzed for the identification of asbestos. Asbestos **was** detected in one of the samples. Based on the bulk sampling and site investigation, there does appear to be an asbestos concern that would reflect on the renovations proposed for the area.

The results for the bulk samples 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.

Meeting rooms A & B consist of block wall portions, vinyl floor covering and two layers of drywall and an open ceiling space above the ceiling tiles. The front layer is covered in a vinyl covering. These two layers of drywall appear to be screwed together. The Theatre area consists of Vinyl covered drywall wall and carpet flooring. The block wall in the main level building operator office was drilled into. This resulted in an empty cavity. No block wall insulation was found.

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 at 306.978.6665. Thank you for this opportunity of service!

Sincerely,



Brad Berschiminsky  
Bersch Consulting Ltd.  
File: B67BLB09G – Cosmo Civic Centre

**Bersch Consulting Ltd.**

B67BAB09G

244-2002 Quebec Avenue  
Saskatoon, SK S7K 1W4**BULK SAMPLE ANALYSIS REPORT****PROJECT NO: B67.17**  
**CLIENT: CITY OF SASKATOON**  
**CONTACT: RICHARD ROTHENBURGER**  
**LOCATION: COSMO CIVIC CENTRE**

<b>NO.</b>	<b>DATE</b>	<b>SAMPLE INFORMATION</b>	<b>ASBESTOS</b>	<b>%</b>	<b>ANALYST</b>
1	9-Feb-17	Meeting Room A & B - Drywall Mud Compound Adj. Entry to Room Above Ceiling Tile - Beige	No Asbestos Detected		WB
2a	9-Feb-17	2nd Level Corridor Adj. Theatre Corridor Entry at Corner - Drywall Mud Compound #1 - White	No Asbestos Detected		WB
2b	9-Feb-17	2nd Level Corridor Adj. Theatre Corridor Entry at Corner - Drywall Mud Compound #2 - Beige	Chrysotile	2%	WB
3	9-Feb-17	Theatre - Projector Screen Wall - Drywall Mud Compound at Old Microphone Plug- in. - Beige	No Asbestos Detected		WB

# BERSCH CONSULTING LTD.

May 3<sup>rd</sup>, 2017

City of Saskatoon  
Facilities and Fleet Management  
3130 Laurier Drive  
Saskatoon, Sk  
S7L 5J7

**ATTENTION: Bruce Kleiter / Derek Nase**

**SUBJECT: PRA – Room 133, Dressing Room #1 – Fan Unit Replacement**

Mitch Webber of Bersch Consulting Ltd. conducted a Pre-Renovation Assessment on May 1, 2017 to collect bulk samples of suspect asbestos containing materials. The facility is located at 3130 Laurier Drive in Saskatoon, SK. Nine (9) samples were collected and analyzed for the identification of asbestos. Asbestos was detected in one of the samples.

The tar coating identified on the lineal pipe insulation within the ceiling space was identified as containing asbestos. In the event this material requires removal as part of the Fan Unit Replacement Project, it will be removed as an asbestos process.

The results for the bulk samples 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 306 222 7477. Thank you for this opportunity of service!

Sincerely,



Mitch Webber  
Bersch Consulting Ltd.  
B67BLE01G – Cosmo Civic Center

244-2002 Quebec Avenue  
Saskatoon, SK S7K 1W4**BULK SAMPLE ANALYSIS REPORT****PROJECT NO: B67.17**  
**CLIENT: CITY OF SASKATOON**  
**CONTACT: BRUCE KLEITER / DEREK NASE**  
**LOCATION: 3130 LAURIER DRIVE, SASKATOON, SK.**

<b>NO.</b>	<b>DATE</b>	<b>SAMPLE INFORMATION</b>	<b>ASBESTOS</b>	<b>%</b>	<b>ANALYST</b>
1	1-May-17	133 - Drywall Mud Compound Above Enclosed Ceiling - Access Hatch	No Asbestos Detected		WB
2	1-May-17	133 - Concrete Skim on Support Beam Above Enclosed Ceiling - Access Hatch	No Asbestos Detected		WB
3	1-May-17	133 - Black Debris/Soot From Ledge of Fan Unit Above Enclosed Ceiling - Access Hatch	No Asbestos Detected		WB
4	1-May-17	133 - Expansion Gasket on Fan Unit at Block Wall Penetration Above Enclosed Ceiling - Access Hatch	No Asbestos Detected		WB
5	1-May-17	133 - Caulking Above Enclosed Ceiling - Access Hatch	No Asbestos Detected		WB
6	1-May-17	133 - Dust Above Enclosed Ceiling Space Adj. Fan Unit - Access Hatch	No Asbestos Detected		WB
7	1-May-17	133 - Tar on Lineal Pipe Insulation Above Suspended Ceiling - Access Hatch	Chrysotile	4%	WB

**Bersch Consulting Ltd.**

B67BAE01G

244-2002 Quebec Avenue  
Saskatoon, SK S7K 1W4**BULK SAMPLE ANALYSIS REPORT****PROJECT NO: B67.17**  
**CLIENT: CITY OF SASKATOON**  
**CONTACT: BRUCE KLEITER / DEREK NASE**  
**LOCATION: 3130 LAURIER DRIVE, SASKATOON, SK.**

<b>NO.</b>	<b>DATE</b>	<b>SAMPLE INFORMATION</b>	<b>ASBESTOS</b>	<b>%</b>	<b>ANALYST</b>
8	1-May-17	133 - Door Seal Above Enclosed Ceiling - Access Hatch Adj. Fountain	No Asbestos Detected		WB
9	1-May-17	133 - Lineal Pipe Insulation Above Enclosed Ceiling Space - Access Hatch	No Asbestos Detected		WB



# **BERSCH**

## **CONSULTING LTD.**

### **PRE-RENOVATION ASSESSMENT**

**June 26, 2017**

**CLIENT: City of Saskatoon  
3130 Laurier Drive  
Saskatoon, SK  
S7L 5J7**

**ATTENTION: Natalie Scott**

**PROJECT: Cosmo Civic Center – 3130 Laurier Dr – Room 219**

**FILE NUMBER: B67BLF20G**

---

Evan Westad of Bersch Consulting Ltd. conducted a site visit on June 20, 2017 to the Cosmo Civic Center located at 3130 Laurier Dr, Saskatoon, Saskatchewan. The purpose of the visit was to investigate and collect bulk samples to determine the presence/absence of asbestos in room 219. Two (2) bulk samples were collected and analyzed for the identification of asbestos. Asbestos **was not** detected within the samples.

The results for the bulk samples 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. Please reference Appendix I for the bulk analysis results.

#### **SITE OBSERVATION AND INFORMATION:**

- 1) The block wall present in the on the North wall of the room was drilled into, for the purpose of checking for vermiculite insulation. No insulation was found within the test hole.
- 2) The 1' x 1' vinyl floor tile present in the room, described as cream/maroon with black specs, was checked against the registry on file for the building. This pattern of tile has been tested and been found to contain **no asbestos**.

Cosmo Civic Centre – Room 219 - PRA

- 3) The drywall mud samples that were taken from various areas within the room were tested and found to contain **no asbestos**. Drilling into the walls will not pose an asbestos concern.
- 4) A check above the ceiling tiles into the ceiling space (for the purpose of drilling for vermiculite) revealed a large unattached piece of ductwork resting directly on a ceiling tile at the west side of the space. This should be removed as it does pose a falling hazard.

If any questions arise on the results of the attached information our office at 306.978.6665. Thank you for this opportunity of service.

Sincerely,



Evan Westad  
Bersch Consulting Ltd.  
B67PRF20G – Cosmo Civic Center

**APPENDIX I**  
**BULK SAMPLE ANALYSIS**

**Bersch Consulting Ltd.**244-2002 Quebec Avenue  
Saskatoon, SK S7K 1W4

B67BAF20G

**BULK SAMPLE ANALYSIS REPORT****PROJECT NO: B67.17**  
**CLIENT: CITY OF SASKATOON**  
**CONTACT: NATALIE SCOTT**  
**LOCATION: COSMO CIVIC CENTER**

<b>NO.</b>	<b>DATE</b>	<b>SAMPLE INFORMATION</b>	<b>ASBESTOS</b>	<b>%</b>	<b>ANALYST</b>
1	20-Jun-17	Room 219 - Drywall Mud Compound	No Asbestos Detected		EMSL
2a	20-Jun-17	Room 219 - Floor Tile - Maroon w/ Black Spec	No Asbestos Detected		EMSL
2b	20-Jun-17	Room 219 - Floor Tile - Maroon w/ Black Spec - Mastic	No Asbestos Detected		EMSL

# **BERSCH**

## **CONSULTING LTD.**

July 11, 2017

City of Saskatoon  
Facilities and Fleet Management  
3130 Laurier Drive  
Saskatoon, Sk  
S7L 5J7

**ATTENTION: Natalie Scott**

**SUBJECT: PRA – 2<sup>nd</sup> Floor Project Services – Sample Board Project**

Mitch Webber of Bersch Consulting Ltd. conducted a Pre-Renovation Assessment on July 6, 2017, to investigate collect bulk samples of suspect asbestos containing materials. The facility is located at 3130 Laurier Drive in Saskatoon, SK. Two (2) samples were collected and analyzed for the identification of asbestos. Asbestos **was not** detected in the samples.

The Drywall Mud Compound was taken from two locations:

- 1 – New Wall Adj. Copier
- 2 – Original Wall Adj. Conference Room & Fire Extinguisher.

The block walls were also drilled into to check for vermiculite insulation. No vermiculite was found. The areas tested were:

- 1 – Lunch Room block wall behind the entry door (x1)
- 2 – Front Entry corridor – Both sides of Corridor (x2)
  - Behind Chair & Sanitizer Station
  - Adj. Chair and Sanitizer Station beside filing cabinet
  -

The results for the bulk samples 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,

A handwritten signature in blue ink, appearing to read "Mitch Webber", with a long horizontal line extending to the right.

Mitch Webber  
Bersch Consulting Ltd.  
B67BLG06G – Cosmo Civic Center

**Bersch Consulting Ltd.**

B67BAG06G

244-2002 Quebec Avenue  
Saskatoon, SK S7K 1W4**BULK SAMPLE ANALYSIS REPORT****PROJECT NO: B67.17****CLIENT: CITY OF SASKATOON****CONTACT: NATALIE SCOTT****LOCATION: 3130 LAURIER DRIVE, SASKATOON, SK.**

<b>NO.</b>	<b>DATE</b>	<b>SAMPLE INFORMATION</b>	<b>ASBESTOS</b>	<b>%</b>	<b>ANALYST</b>
1	6-Jul-17	2nd Floor - Project Services - Drywall Mud Compound Adj. Copier on New Wall	No Asbestos Detected		EMSL
2	6-Jul-17	2nd Floor - Project Services - Drywall Mud Compound on Original Wall	No Asbestos Detected		EMSL