May 31, 2017

### **CITY OF SASKATOON**

# Asbestos-Containing Building Materials Assessment Report -Lions Arena



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 - LIONS ARENA

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#### ASBESTOS-CONTAINING BUILDING MATERIALS ASSESSMENT REPORT - LIONS ARENA

### **1.0 INTRODUCTION**

Golder Associates Ltd. (Golder) was retained by the City of Saskatoon (the Client) to conduct an asbestoscontaining building materials assessment of the Lions Arena (the Site) located at 2205 McEown Avenue 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 April 18, 2017 by Kody Henderson, OHS Project Manager. Asbestos-containing building materials were identified within the Lions Arena 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 Lions Arena was constructed in 1968 and consists of numerous change rooms, offices spaces, and a rink on the main floor and mechanical rooms within the basement as well as a 2009/2010 addition consisting of Rooms 114 to 121. Also located along the side of the Site on the main floor is a mechanical room and garage/zamboni room. During the assessment, Rooms 114 to 121 were treated as one functional space, the remaining main floor change rooms, offices, and rink as a second functional space, the mechanical room and garage/zamboni room as a third functional space, and the basement mechanical rooms 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.
- A floor plan outlining the sample locations and locations of identified asbestos-containing materials is provided in Appendix D.
- Please refer to Sections 4.0 and 7.0 of this report for a summary of the limitations encountered.

### 3.1 Asbestos-Containing Materials

A total of thirty-seven (37) samples of building materials were collected and tested for asbestos content during the assessment of the Lions Arena. Six (6) of the samples were found to contain asbestos.

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

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

- Drywall Joint Compound (select rooms only); and
- Vermiculite Insulation (select block walls only).

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

#### **Drywall Joint Compound**

Eight (8) samples of drywall joint compound were collected during the assessment. Three of the samples collected within the second functional space were found to contain 1.8% to 2.1% Chrysotile asbestos. Asbestos-containing drywall joint compound (see Photograph 1 in Appendix B) was observed in the following locations:

- Room 107 (approximately 120 ft<sup>2</sup>);
- Room 108 (approximately 210 ft<sup>2</sup>);
- Room 109 (approximately 210 ft<sup>2</sup>); and
- Room 110 (approximately 120 ft<sup>2</sup>).

The additional drywall joint compound samples were collected from the third functional space. All drywall joint compound samples collected within the third functional space were found to not contain asbestos. Drywall joint compound was not observed in the remaining functional spaces.



#### ASBESTOS-CONTAINING BUILDING MATERIALS ASSESSMENT REPORT - LIONS ARENA

#### Vermiculite Insulation

Three (3) samples of vermiculite were collected during the assessment. All three of the samples collected within the second functional space were found to contain 1.2% to 1.5% Actinolite asbestos. Asbestos-containing vermiculite (see Photograph 2 in Appendix B) was confirmed in the following locations:

- Room 104 (approximately 120 ft<sup>2</sup>);
- Room 112A (approximately 60 ft<sup>2</sup>); and
- Room 113 (approximately 120 ft<sup>2</sup>).

During the assessment, Golder cored into approximately 13 locations to evaluate for the presence of absence of vermiculite. The vermiculite insulation was observed to be located sporadically throughout the Site along exterior and interior walls. It is assumed that the vermiculite insulation is located around the perimeter walls of Rooms 113 to 101 based upon where the vermiculite insulation was observed, however this was not confirmed within each room. Please refer to the floor plan provided in Appendix D for the anticipated locations of the vermiculite. Further investigation activities may be required to confirm the exact locations of the vermiculite.

Based upon the assumption that the vermiculite is located in the perimeter walls of the Rooms 113 to 101, Golder has provided approximate quantities within each room below.

- Room 101 (approximately 750 ft<sup>2</sup>) (assumed);
- Room 102 (approximately 265 ft<sup>2</sup>) (assumed);
- Room 103 (approximately 265 ft<sup>2</sup>) (assumed);
- Room 104 (approximately 120 ft<sup>2</sup>) (confirmed);
- Room 106 (approximately 120 ft<sup>2</sup>) (assumed);
- Room 107 (approximately 250 ft<sup>2</sup>) (assumed);
- Room 108 (approximately 100 ft<sup>2</sup>) (assumed);
- Room 110 (approximately 350 ft<sup>2</sup>) (assumed);
- Room 111 (approximately 200 ft<sup>2</sup>) (assumed);
- Room 111A (approximately 60 ft<sup>2</sup>) (assumed);
- Room 112 (approximately 200 ft<sup>2</sup>) (assumed);
- Room 112A (approximately 60 ft<sup>2</sup>) (confirmed); and
- Room 113 (approximately 625 ft<sup>2</sup>) (exterior wall confirmed, interior perimeter walls assumed).



#### ASBESTOS-CONTAINING BUILDING MATERIALS ASSESSMENT REPORT - LIONS ARENA

#### 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:

- Drywall joint compound (excluding the second functional space);
- White firestop;
- Loose grey vinyl sheet flooring with black and white specks;
- Red firestop;
- Grey duct mastic;
- Black wall mastic;
- 1'x2' Black floor tile;
- White duct mastic;
- White plastic panel caulking;
- White pipe caulking;
- White door caulking;
- Black and grey vinyl sheet flooring;
- Grey floor levelling compound;
- Grey vinyl sheet flooring with white and black specks;
- Black floor mastic;
- Brown floor putty;
- Black bleacher seating;
- Exterior white penetration caulking;
- Exterior green building caulking;
- Exterior grey firestop;
- Exterior white window caulking;
- The drain lines throughout the site were not observed to have suspect packing and were observed to be insulated with fibreglass in select locations;
- The duct work throughout the site was observed to be uninsulated or insulated with fibreglass insulation;
- The piping throughout the site was observed to be insulated with fibreglass and had PVC fittings; and
- The mechanical insulation within Room 122 was observed to be a black Styrofoam-like insulation and is not suspected of containing asbestos.



### 4.0 EXCLUDED AREAS AND MATERIALS

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

- Floor levelling compound was encountered and sampled at the time of the assessment. If additional floor levelling compound is encountered during 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.
- The duct connector fabric throughout the site was not sampled as causing damage to the fabric could potential release fibres in the air distribution system. If the duct connector fabric is scheduled for impact, further sampling may be required.
- Golder was unable to access Room 102 during the assessment. If work activities are scheduled within this area, further sampling may be required. If building materials within Room 102 are to be removed or impacted by future renovation or demolition activities, additional investigation and sampling of suspect materials may be required.
- Golder assessed the exterior metal cladding for potential asbestos-containing materials where possible. Due to the potential to affect the building envelope, the metal cladding was not impacted or removed to assess below. If the metal cladding is 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 drywall joint compound of Rooms 107 to 110 and vermiculite block wall cavity insulation within select locations of the 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.





#### ASBESTOS-CONTAINING BUILDING MATERIALS ASSESSMENT REPORT - LIONS ARENA

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.

#### **Drywall Joint Compound**

If scheduled for impact, asbestos-containing grey firestop should be abated following low-risk abatement work procedures as outlined in the *Saskatchewan Asbestos Abatement Manual* (2017). Alternatively, as the drywall joint compound 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.

#### Vermiculite Insulation

If scheduled for impact, asbestos-containing vermiculite insulation should be abated following high-risk abatement work procedures as outlined in the *Saskatchewan Asbestos Abatement Manual* (2017). Alternatively, as the vermiculite insulation is enclosed within block wall, 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 April 18, 2017 and is based solely on site conditions encountered at the time of the assessment. Any use of this document or the findings, conclusions or recommendations provided in this report by any person other than the City of Saskatoon is at the sole risk of such user.

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

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

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

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





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

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

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

### 7.0 CLOSURE

We trust the information presented in this report meets your requirements. If you have any questions please contact Kody Henderson at (780) 483-3499 or email at <u>kody\_henderson@golder.com</u>. 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:

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helm

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

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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:5/1/2017Report No.:534882 - PLMProject:Asbestos Surveys - City of Saskatoon (Lions Arena)Project No.:1667963

Client: GOL572

#### PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6213931	Analyst Observation: White Caulk	Location: Room B3
Client No.: A-001	Client Description: White Firestop	Facility:
Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	<u>Percent Non-Fibrous Material:</u>
None Detected	None Detected	100
Lab No.: 6213932 Client No.: A-002	Analyst Observation: Grey Floor Tile Client Description: Loose Grey VSF with Black and White Specks	Facility:
<u>Percent Asbestos:</u>	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100
Lab No.: 6213933	Analyst Observation: Red/Black Caulk	Location: Room B2
Client No.: A-003	Client Description: Red Firestop	Facility:
<u>Percent Asbestos:</u>	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100
Lab No.: 6213934	Analyst Observation: Grey Mastic	Location: Room B2
Client No.: A-004	Client Description: Grey Duct Mastic	Facility:
<u>Percent Asbestos:</u>	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100
Lab No.: 6213935	Analyst Observation: Black Mastic	Location: Room B2
Client No.: A-005	Client Description: Black Wall Mastic	Facility:
<u>Percent Asbestos:</u>	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	25 Cellulose	75
Lab No.: 6213936	Analyst Observation: Black Floor Tile	Location: Room 114
Client No.: A-006	Client Description: 1'X2' Black Floor Tile	Facility:
<u>Percent Asbestos:</u>	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Date Received:	4/24/2017	Approved By:
Date Analyzed:	05/01/2017	Approved By: Frank Engenfall
	1 all	Frank E. Ehrenfeld, III
Signature:	UU	Laboratory Director
Analyst:	Randy Caran	



# CERTIFICATE OF ANALYSIS

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

Report Date:5/1/2017Report No.:534882 - PLMProject:Asbestos Surveys - City of Saskatoon (Lions Arena)Project No.:1667963

Client: GOL572

#### PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6213937 Client No.: A-007	Analyst Observation: White/Grey Mastic Client Description: White Duct Mastic	Location: Room 114 Facility:
Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100
Lab No.: 6213938	Analyst Observation: White Caulk	Location: Room 114B
Client No.: A-008	Client Description: White Firestop	Facility:
Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	1 Fibrous Glass	99
Lab No.: 6213939	Analyst Observation: White Joint Compound	Location: Room 124
Client No.: A-009	Client Description: Drywall Joint Compound	Facility:
Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100
Lab No.: 6213940	Analyst Observation: White Joint Compound	Location: Room 124
Client No.: A-010	Client Description: Drywall Joint Compound	Facility:
Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100
Lab No.: 6213941	Analyst Observation: White Joint Compound	Location: Room 124
Client No.: A-011	Client Description: Drywall Joint Compound	Facility:
<u>Percent Asbestos:</u>	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100
Lab No.: 6213942	Analyst Observation: White Joint Compound	Location: Room 124
Client No.: A-012	Client Description: Drywall Joint Compound	Facility:
Percent Asbestos:	<u>Percent Non-Asbestos Fibrous Material:</u>	Percent Non-Fibrous Material:
None Detected	None Detected	100

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

Date Received:	4/24/2017
Date Analyzed:	05/01/2017
Signature:	1 al
Analyst:	Randy Caran

**Approved By:** 

a Ena fol

Frank E. Ehrenfeld, III Laboratory Director



# CERTIFICATE OF ANALYSIS

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

Report Date:5/1/2017Report No.:534882 - PLMProject:Asbestos Surveys - City of Saskatoon (Lions Arena)Project No.:1667963

Client: GOL572

#### PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6213943 Client No.: A-013	Analyst Observation: White Joint Compound Client Description: Drywall Joint Compound	Location: Room 124 Facility:
Percent Asbestos: None Detected	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 6213944 Client No.: A-014	Analyst Observation: White Caulk Client Description: White Plastic Panel Caulking	Location: Room 124 Facility:
<u>Percent Asbestos:</u> None Detected	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 6213945 Client No.: A-015	Analyst Observation: Grey Mastic Client Description: Grey Duct Mastic	Location: Room 124 Facility:
<u>Percent Asbestos:</u> None Detected	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 6213946 Client No.: A-016	Analyst Observation: White Caulk Client Description: White Pipe Caulking	Location: Room 122 Facility:
Client No.: A-016 Percent Asbestos:	Client Description: White Pipe Caulking <u>Percent Non-Asbestos Fibrous Material:</u> None Detected  Analyst Observation: Off-White Joint Compound	Facility: Percent Non-Fibrous Material:
Client No.: A-016 Percent Asbestos: None Detected Lab No.: 6213947	Client Description: White Pipe Caulking <u>Percent Non-Asbestos Fibrous Material:</u> None Detected Analyst Observation: Off-White Joint	Facility:         Percent Non-Fibrous Material:         100         Location: Room 109         Facility:         Percent Non-Fibrous Material:         97.9
Client No.: A-016 Percent Asbestos: None Detected Lab No.: 6213947 Client No.: A-017 Percent Asbestos:	Client Description: White Pipe Caulking <u>Percent Non-Asbestos Fibrous Material:</u> None Detected Analyst Observation: Off-White Joint Compound Client Description: Drywall Joint Compound Percent Non-Asbestos Fibrous Material:	Facility: <u>Percent Non-Fibrous Material:</u> 100 Location: Room 109 Facility: <u>Percent Non-Fibrous Material:</u>

Date Received:	4/24/2017	Approved By:
Date Analyzed:	05/01/2017	Approved By: Frank Engenfall
		Frank E. Ehrenfeld, III
Signature:	$\mathcal{U}\mathcal{U}$	Laboratory Director
Analyst:	Randy Caran	·····, ····



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Report Date:5/1/2017Report No.:534882 - PLMProject:Asbestos Surveys - City of Saskatoon (Lions Arena)Project No.:1667963

Client: GOL572

#### PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6213949	Analyst Observation: White Caulk	Location: Room 108
Client No.: A-019	Client Description: White Door Caulking	Facility:
<u>Percent Asbestos:</u>	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100
Lab No.: 6213950	Analyst Observation: White Caulk	Location: Room 107
Client No.: A-020	Client Description: White Pipe Caulking	Facility:
<u>Percent Asbestos:</u>	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100
Lab No.: 6213951	Analyst Observation: Grey Mastic	Location: Room 107
Client No.: A-021	Client Description: Grey Duct Mastic	Facility:
<u>Percent Asbestos:</u>	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100
Lab No.: 6213952 Client No.: A-022	Analyst Observation: Grey Vinyl Sheet Flooring Client Description: Black and Grey Vinyl Sheet Flooring	Location: Room 109 Facility:
<u>Percent Asbestos:</u>	<u>Percent Non-Asbestos Fibrous Material:</u>	Percent Non-Fibrous Material:
None Detected	5 Cellulose	95
Lab No.: 6213952(L2) Client No.: A-022	Analyst Observation: Yellow Mastic Client Description: Black and Grey Vinyl Sheet Flooring	Location: Room 109 Facility:
<u>Percent Asbestos:</u>	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Date Received:	4/24/2017	Approved By:
Date Analyzed:	05/01/2017	Approved By: Frank English
	12AC	Frank E. Ehrenfeld, III
Signature:	VC	Laboratory Director
Analyst:	Randy Caran	



# CERTIFICATE OF ANALYSIS

Client:	Golder Associates Ltd								
Chent.	16820 107 A								
	Edmonton	AB	T5P 4C3						

Report Date:5/1/2017Report No.:534882 - PLMProject:Asbestos Surveys - City of Saskatoon (Lions Arena)

1667963

Client: GOL572

#### PLM BULK SAMPLE ANALYSIS SUMMARY

Project No.:

Lab No.: 6213953 Client No.: A-023	Analyst Observation: Grey Leveling Compound Client Description: Grey Floor Leveling	Location: Room 109 Facility:
<u>Percent Asbestos:</u> None Detected	Compound <u>Percent Non-Asbestos Fibrous Material:</u> None Detected	Percent Non-Fibrous Material: 100
Lab No.: 6213954	Analyst Observation: White/Grey Mastic	Location: Room 113
Client No.: A-024	Client Description: White Duct Mastic	Facility:
<u>Percent Asbestos:</u>	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100
Lab No.: 6213955	Analyst Observation: Black Floor Tile	Location: Room 112
Client No.: A-025	Client Description: 1'X2' Black Floor Tile	Facility:
<u>Percent Asbestos:</u>	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100
Lab No.: 6213956 Client No.: A-026	Analyst Observation: Grey Vinyl Sheet Flooring Client Description: Grey VSF with White and Black Specks	Location: Room 101 Facility:
<u>Percent Asbestos:</u>	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100
Lab No.: 6213956(L2) Client No.: A-026	<b>Analyst Observation:</b> White Mastic <b>Client Description:</b> Grey VSF with White and Black Specks	Location: Room 101 Facility:
<u>Percent Asbestos:</u>	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Date Received:	4/24/2017	Approved By:
Date Analyzed:	05/01/2017	Approved By: Frank English
	1 de la companya de l	Frank E. Ehrenfeld, III
Signature:	$\mathcal{U}\mathcal{U}$	Laboratory Director
Analyst:	Randy Caran	



# CERTIFICATE OF ANALYSIS

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	Edmonton	AB	T5P 4C3						

Report Date:5/1/2017Report No.:534882 - PLMProject:Asbestos Surveys - City of Saskatoon (Lions Arena)Project No.:1667963

Client: GOL572

#### PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6213957	Analyst Observation: White Joint Compound	Location: Room 110
Client No.: A-027	Client Description: Drywall Joint Compound	Facility:
Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
PC 1.8 Chrysotile	None Detected	98.2
Lab No.: 6213958	Analyst Observation: Black Mastic	Location: Rink
Client No.: A-028	Client Description: Black Floor Mastic	Facility:
Percent Asbestos:	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
None Detected	None Detected	100
Lab No.: 6213959	Analyst Observation: Grey Putty	Location: Rink
Client No.: A-029	Client Description: Brown Floor Putty	Facility:
Percent Asbestos:	<u>Percent Non-Asbestos Fibrous Material:</u>	<u>Percent Non-Fibrous Material:</u>
None Detected	None Detected	100
Lab No.: 6213960	Analyst Observation: Black Floor Tile	Location: Rink
Client No.: A-030	Client Description: Black Bleacher Vinyl	Facility:
Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100
Lab No.: 6213961 Client No.: A-031 Percent Asbestos: PC 1.2 Actinolite This sample contains vermiculite mineral and Recommendations for Vermiculite Analysis.	Analyst Observation: Grey Vermiculite Client Description: Vermiculite <u>Percent Non-Asbestos Fibrous Material:</u> None Detected may be a candidate for additional analytical procedures (EPA 600/R-04/004)	Location: Room 113 Facility: <u>Percent Non-Fibrous Material:</u> 98.8 5. Please see the sections following your report titled
Lab No.: 6213962 Client No.: A-032 Percent Asbestos: PC 1.2 Actinolite	Analyst Observation: Brown/Grey Vermiculite Client Description: Vermiculite <u>Percent Non-Asbestos Fibrous Material:</u> None Detected may be a candidate for additional analytical procedures	Facility: <u>Percent Non-Fibrous Material:</u> 98.8

Date Received:	4/24/2017	Approved By: Frank Engenful
Date Analyzed:	05/01/2017	Joh thanfal
	12AC	Frank E. Ehrenfeld, III
Signature:	VC	Laboratory Director
Analyst:	Randy Caran	int inty the



# CERTIFICATE OF ANALYSIS

Client:	Golder Asso	Ltd	
Client:	16820 107 A	Ave	
	Edmonton	AB	T5P 4C3

Report Date:5/1/2017Report No.:534882 - PLMProject:Asbestos Surveys - City of Saskatoon (Lions Arena)Project No.:1667963

Client: GOL572

#### PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 6213963	Analyst Observation: Grey Vermiculite	Location: Room 104
Client No.: A-033	Client Description: Vermiculite	Facility:
Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
PC 1.5 Actinolite	None Detected	98.5
This sample contains vermiculite mineral a Recommendations for Vermiculite Analysi	and may be a candidate for additional analytical procedures s. (EPA 600/R-04/004)	s. Please see the sections following your report titled
Lab No.: 6213964	Analyst Observation: White Caulk	Location: Exterior
Client No.: A-034	Client Description: White Penetration Caulking	Facility:
Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100
Lab No.: 6213965	Analyst Observation: Blue/White Caulk	Location: Exterior
Client No.: A-035	Client Description: Green Building Caulking	Facility:
Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100
Lab No.: 6213966	Analyst Observation: Grey Caulk	Location: Exterior
Client No.: A-036	Client Description: Grey Firestop	Facility:
Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100
Lab No.: 6213967	Analyst Observation: Grey/White Caulk	Location: Exterior
Client No.: A-037	Client Description: White Building Caulk	Facility:
Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

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

Date Received:	4/24/2017
Date Analyzed:	05/01/2017
Signature:	1 et
Analyst:	Randy Caran

**Approved By:** 

a Ena 6st

Frank E. Ehrenfeld, III Laboratory Director



## CERTIFICATE OF ANALYSIS

Client: Golder Associates Ltd

16820 107 Ave Edmonton AB T5P 4C3

Client: GOL572

Report Date:5/1/2017Report No.:534882 - PLMProject:Asbestos Surveys - City of Saskatoon (Lions<br/>Arena)Project No.:1667963

### Appendix to Analytical Report

**Customer Contact: Analysis:** US EPA 600, R93-116

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

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

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

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and 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	<b>Report Date:</b>	5/1/2017
	16820 107 Ave	Report No.:	534882 - PLM
	Edmonton AB T5P 4C3	Project:	Asbestos Surveys - City of Saskatoon (Lions Arena)
Client:	GOL 572	Project No.:	1667963

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

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

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

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

1) Note: No mastic provided for analysis.

- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.

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

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

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

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

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

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

1)Analytical Step/Method: Initial Screening by PLM, EPA 600R-93/116 Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.

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

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

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

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







Photograph 1: Asbestos-Containing Drywall Joint Compound.



#### Photograph 2: Asbestos-Containing Vermiculite Insulation.

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# **APPENDIX C**

Room by Room Spreadsheet



Image: Part of the sector of the s	Included/Ex Floor Room #								Asbestos Containing			Sample	5	Sample /	Asbestos						Potential for	Recommended			
11 12 12 13 13 14 <t< th=""><th>cluded Ar</th><th></th><th></th><th></th><th></th><th></th><th></th><th>Sampled?</th><th>Material?</th><th></th><th>Field Notes</th><th></th><th></th><th></th><th></th><th>% of asbestos</th><th>Friable S</th><th>Sprayed-on</th><th>Maintenance</th><th>Inspection</th><th></th><th></th><th>Quantity</th><th>Photograph ID</th><th>Labelling Type</th></t<>	cluded Ar							Sampled?	Material?		Field Notes					% of asbestos	Friable S	Sprayed-on	Maintenance	Inspection			Quantity	Photograph ID	Labelling Type
N         N        N         N         N         N         N         N         N         N         N         N         N        N        N        N         N         N         N         N         N         N        N         N         N         N       N        N       N       N	Included B B3 Me	echanical Room			Concrete		No	No	No	Good															
	Included B B3 Me	echanical Room	Ceiling Ceil	iling	Concrete	High	No	No	No	Good															
M         M												a													
	Included B B3 Me	echanical Room				High N/A	Yes N/A	No N/A	Potential	Good	requirement.						Potential	No		Annually	Low	removal.	1		
N         N									11/0		Bare or insulated with fibreglass	s													
N         N        N         N         N         N	Included B B3 Me	echanical Room	Mechanical Pipi	ing	Metal Pipes	High	No	No	No	Good		c													
	Included B B3 Me	echanical Room			Drain Lines	High	No	No	No	Good	suspect packing observed.														
			Electrical Cor	mponents																					
	Included B B3 Me Included B B3 Me	echanical Room							No No	Good															
10         10        10        10         10 <td>Included B B2 Me</td> <td>echanical Room</td> <td>Walls Inte</td> <td>erior Walls</td> <td>Concrete Walls</td> <td>High</td> <td>No</td> <td>No</td> <td>No</td> <td>Good</td> <td></td> <td></td> <td>1.005 44</td> <td></td>	Included B B2 Me	echanical Room	Walls Inte	erior Walls	Concrete Walls	High	No	No	No	Good			1.005 44												
10         10        10        10         10 <td>Included B B2 Me Included B B2 Me</td> <td>echanical Room lechanical Room</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Bulk</td> <td>A-005 18</td> <td>8-Apr-17</td> <td></td>	Included B B2 Me Included B B2 Me	echanical Room lechanical Room										Bulk	A-005 18	8-Apr-17											
N         N        N        N        N        N         N      <	Included B B2 Me	echanical Room	Ceiling Ceil	iling	Concrete	High	No	No	No	Good															
	Included B B2 Me	echanical Room	Doors Sus	spect Fire Door	Suspect Fire Door	High	Yes	No	Potential	Good		a					Potential	No		Annually	Low	if scheduled for removal.	1		
Matrix         Matrix        Matrix        Matrix <td>Included B B2 Me</td> <td>echanical Room</td> <td>Ceiling Space Ceil</td> <td>ling Space</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td></td>	Included B B2 Me	echanical Room	Ceiling Space Ceil	ling Space	N/A	N/A	N/A	N/A	N/A	N/A															
Alt         Alt <td>Included B B2 Me</td> <td>echanical Room</td> <td>Mechanical Pipi</td> <td>ing</td> <td>Metal Pipes</td> <td>High</td> <td>No</td> <td>No</td> <td>No</td> <td>Good</td> <td>and PVC fittings.</td> <td></td>	Included B B2 Me	echanical Room	Mechanical Pipi	ing	Metal Pipes	High	No	No	No	Good	and PVC fittings.														
10       10 <th< td=""><td>Included B B2 Me</td><td>echanical Room</td><td>Mechanical Pipi</td><td>ing</td><td>Drain Lines</td><td>High</td><td>No</td><td>No</td><td>No</td><td>Good</td><td></td><td>۲</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Included B B2 Me	echanical Room	Mechanical Pipi	ing	Drain Lines	High	No	No	No	Good		۲													
N M M M M M M M M M M M M M M M M M M M							Nc	Vee	No	Good			A-00/ 44	8-Apr-17											
			Elec	ctrical Panels and							Not sampled due to safety	Duik	10 10	5 npi=1/											
1         1         0											concerns.	Bulk	A-003 18	8-Apr-17											
M M M M M M M M M M M M M M M M M M M	Included B B2 Me	echanical Room	Miscellaneous Fire	estop	White Firestop	High	No	Yes	No	Good															
Main     V     N	Included B B1 Me	echanical Room			Concrete	High	No	No	No	Good															
				<u> </u>	Concrete	Hiah					No ceiling space present														
Name         Name        Name        Name         N											Bare or insulated with fibreglass	8													
N         N			wechanical Pipi	ing		Ť			No	Good		c l													
N         N        N        N        N         N </td <td>Included B B1 Me</td> <td>echanical Room</td> <td>Mechanical Pipi</td> <td>ing</td> <td>Drain Lines</td> <td>High</td> <td>No</td> <td>No</td> <td>No</td> <td>Good</td> <td></td>	Included B B1 Me	echanical Room	Mechanical Pipi	ing	Drain Lines	High	No	No	No	Good															
No.         No.        No.         No.         No. <td></td>																									
Name			Walls Inte	erior Walls							Owners at a day has be set ad in														
Cond         Cond        Cond        Cond        C		566)	Walls Wal	enor and Perimeter	Vermiculite	High			Yes				10/1000		Actinolite Vermiculite	1.2% to 1.5%	Yes	No	No	Annually	5 Moderate	Manage in place.	750 ft <sup>2</sup>	Photograph 2	Door Jamb
Name         Name <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Bulk</td><td>A-026 18</td><td>8-Apr-17</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>												Bulk	A-026 18	8-Apr-17											
Na         Na        Na        Na <t< td=""><td>Included M 101 Lo</td><td>obby</td><td>Ceiling Space Ceil</td><td>iling Space</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td>N/A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Included M 101 Lo	obby	Ceiling Space Ceil	iling Space	N/A	N/A	N/A	N/A	N/A	N/A															
NA         NA        NA        NA        NA		орру							NO	Good															
Image         No         No       No        No        No<	Included M 101 Lo	obby	Mechanical Duc	ct Work	White Duct Mastic	High	No	Yes	No	Good															
bit         bit </td <td>Included M 103 Ad</td> <td>dmission</td> <td></td> <td></td> <td>Block Wall</td> <td>High</td> <td>No</td> <td>No</td> <td>No</td> <td>Good</td> <td>observed to be hollow.</td> <td></td>	Included M 103 Ad	dmission			Block Wall	High	No	No	No	Good	observed to be hollow.														
bit         bit <td>Included M 103 Ad</td> <td>dmission</td> <td>Walls Wal</td> <td>erior and Perimeter</td> <td>Vermiculite</td> <td>High</td> <td>Yes</td> <td>Yes</td> <td>Yes</td> <td>Good</td> <td></td> <td></td> <td>VS-A-033</td> <td></td> <td>Actinolite Vermiculite</td> <td>1.2% to 1.5%</td> <td>Yes</td> <td>No</td> <td>No</td> <td>Annually</td> <td>5 Moderate</td> <td>Manage in place.</td> <td>265 ft<sup>2</sup></td> <td>Photograph 2</td> <td>Door Jamb</td>	Included M 103 Ad	dmission	Walls Wal	erior and Perimeter	Vermiculite	High	Yes	Yes	Yes	Good			VS-A-033		Actinolite Vermiculite	1.2% to 1.5%	Yes	No	No	Annually	5 Moderate	Manage in place.	265 ft <sup>2</sup>	Photograph 2	Door Jamb
N         N		dmission dmission																							
bit         b					orey vinyi cricer reeining with vinke	r iigii	110	100	110	0000															
NB         NB        NB        NB        NB	Included M 103 Ad	dmission	Ceiling Ceil	iling	2'x4' Ceiling Tile with Small Pinholes	High	No	No	No	Good															
N         N        N        N        N         N <t< td=""><td></td><td></td><td>Ceiling Space Ceil</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Non-suspect dear</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>			Ceiling Space Ceil								Non-suspect dear														
1         1											Bare or insulated with fibreglass	s													
N         N		dmission	Mechanical Pipi	ing	Metal Pipes	High	No	No	No	Good															
No.         No. <td>Included M 103 Ad</td> <td>dmission</td> <td>Mechanical Duo</td> <td>ct Work</td> <td>Grey Duct Mastic</td> <td>High</td> <td>No</td> <td>Yes</td> <td>No</td> <td>Good</td> <td>suspect insulation.</td> <td></td> <td>_</td> <td></td> <td></td> <td></td>	Included M 103 Ad	dmission	Mechanical Duo	ct Work	Grey Duct Mastic	High	No	Yes	No	Good	suspect insulation.											_			
Mather Ma	Included M 104 Wa	/ashroom	Walls Inte	erior Walls	Block Wall	High	No	No	No	Good	101 was observed to be solid.														
bit         bit <td>Included M 104 Wa</td> <td>/ashroom</td> <td>Walls Exte</td> <td>erior Wall</td> <td></td>	Included M 104 Wa	/ashroom	Walls Exte	erior Wall																					
ndim         N        N         N         N	Included M 104 Wa				Vermiculite	High	Yes	Yes	Yes	Good			A-033 18	8-Apr-17	Actinolite Vermiculite	1.2% to 1.5%	Yes	No	No	Annually	5 Moderate	Manage in place	120 ft <sup>2</sup>	Photograph 2	Door Jamb
N         N						High	No	Yes		Good			A-033 18	8-Apr-17	Actinolite Vermiculite	1.2% to 1.5%	Yes	No	No	Annually	5 Moderate	Manage in place.	120 ft <sup>2</sup>	Photograph 2	Door Jamb
indication         Normal         Normal        Normal         Normal		/ashroom /ashroom	Ceiling Ceil Ceiling Space Ceil	iling iling Space	Metal Deck N/A	High High N/A	No No N/A	Yes No N/A	No N/A	Good Good N/A	along the exterior.		A-033 18	8-Apr-17	Actinolite Vermiculite	1.2% to 1.5%	Yes	No	No	Annually	5 Moderate	Manage in place.	120 ft <sup>2</sup>	Photograph 2	Door Jamb
Image: state		/ashroom /ashroom	Ceiling Ceil Ceiling Space Ceil	iling iling Space	Metal Deck N/A	High High N/A	No No N/A	Yes No N/A	No N/A	Good Good N/A	along the exterior. No ceiling space present Non-suspect door.		A-033 18	8-Apr-17	Actinolite Vermiculite	1.2% to 1.5%	Yes	No	No	Annually	5 Moderate	Manage in place.	120 ft <sup>2</sup>	Photograph 2	Door Jamb
Indiate         No         No        No        No	Included M 104 Wa Included M 104 Wa	/ashroom /ashroom /ashroom /ashroom	Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc	iling ling Space gular Door ct Work	Metal Deck N/A Non Suspect Door White Duct Mastic	High High N/A High High	No No N/A No No	Yes No N/A No Yes	No N/A No No	Good Good N/A Good Good	along the exterior. No ceiling space present Non-suspect door. Duct work not insulated with		A-033 18	8-Apr-17	Actinolite Vermiculite	1.2% to 1.5%	Yes	No	No	Annually	5 Moderate	Manage in place.	120 ft <sup>2</sup>	Photograph 2	Door Jamb
include         M         No         No <th< td=""><td>Included M 104 Wa Included M 104 Wa Included M 105 Wa Included M 105 Wa</td><td>/ashroom /ashroom /ashroom /ashroom /ashroom /ashroom</td><td>Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Floor Floo</td><td>iling Space gular Door ct Work erior Walls or</td><td>Metal Deck NA Non Suspect Door White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White</td><td>High High N/A High High High</td><td>No N/A No No No No</td><td>Yes No N/A No Yes No Yes</td><td>No N/A No No No</td><td>Good Good N/A Good Good Good Good</td><td>along the exterior. No ceiling space present Non-suspect door. Duct work not insulated with</td><td></td><td>A-033 18</td><td>8-Apr-17</td><td>Actinolite Vermiculite</td><td>1.2% to 1.5%</td><td>Yes</td><td>No</td><td>No</td><td>Annually</td><td>5 Moderate</td><td>Manage in place.</td><td>120 ft<sup>2</sup></td><td>Photograph 2</td><td>Door Jamb</td></th<>	Included M 104 Wa Included M 104 Wa Included M 105 Wa Included M 105 Wa	/ashroom /ashroom /ashroom /ashroom /ashroom /ashroom	Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Floor Floo	iling Space gular Door ct Work erior Walls or	Metal Deck NA Non Suspect Door White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White	High High N/A High High High	No N/A No No No No	Yes No N/A No Yes No Yes	No N/A No No No	Good Good N/A Good Good Good Good	along the exterior. No ceiling space present Non-suspect door. Duct work not insulated with		A-033 18	8-Apr-17	Actinolite Vermiculite	1.2% to 1.5%	Yes	No	No	Annually	5 Moderate	Manage in place.	120 ft <sup>2</sup>	Photograph 2	Door Jamb
Indicate         Name         Name        Name         Name        <	Included         M         104         Wa           Included         M         104         Wa           Included         M         105         Wa           Included         M         105         Wa           Included         M         105         Wa           Included         M         105         Wa	/ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom	Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Floor Floc Ceiling Ceil	iling ling Space gular Door ct Work erior Walls or ling	Metal Deck NVA Non Suspect Door White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck	High High N/A High High High High High	No N/A No No No No No	Yes No N/A No Yes No Yes No	No N/A No No No No	Good Good N/A Good Good Good Good Good	along the exterior. No ceiling space present Non-suspect door. Duct work not insulated with suspect insulation.		A-033 18	8-Apr-17	Actinolite Vermiçulite	1.2% to 1.5%	Yes	No	No	Annually	5 Moderate	Manage in place.	120 H <sup>2</sup>	Photograph 2	Door Jamb
netword         N         100         Warknow         Methanica         Durut Wark         Winde Durut Maste         Methanica         Vern         Methanica         Methanica         Methanica         Durut Wark         Winde Durut Maste         Methanica         Methanici         Methanica         Met	Included         M         104         Wa           Included         M         104         Wa           Included         M         105         Wa	/ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom	Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Floor Floo Ceiling Ceil	lling lling Space gular Door ct Work erior Walls or lling lling Space	Metal Deck N/A Non Suspect Door White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck N/A	High High N/A High High High High High High N/A	No N/A No No No No No No No	Yes No N/A No Yes No Yes No N/A	No N/A No No No No N/A	Good Good N/A Good Good Good Good N/A	along the exterior. No ceiling space present Non-suspect door. Duct work not insulated with suspect insulation. No ceiling space present Non-suspect door.	Bulk	A-033 18	8-Apr-17	Actinolite Vermiculite	1.2% to 1.5%	Yes	No	No	Annualiy	5 Moderate	Manage in place.	120 ft <sup>2</sup>	Photograph 2	Door Jamb
model         model <th< td=""><td>Included         M         104         Wa           Included         M         104         Wa           Included         M         105         Wa</td><td>/ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom</td><td>Ceiling Ceil Ceiling Space Ceil Doors Reç Mechanical Duc Walls Inte Floor Floo Ceiling Ceil Ceiling Ceil Doors Reç</td><td>ling Space gular Door et Work erior Walls or ling Space gular Door</td><td>Metal Deck NA Non Suspect Door White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck NA Non Suspect Door</td><td>High High N/A High High High High N/A High</td><td>No N/A No No No No No N/A No</td><td>Yes No N/A No Yes No Yes No N/A No</td><td>No N/A No No No N/A No</td><td>Good Good N/A Good Good Good Good N/A Good</td><td>along the exterior. No ceiling space present Non-suspect door. Duct work not insulated with suspect insulation. No ceiling space present Non-suspect door. Bare or insulated with fibreglass.</td><td>Bulk</td><td>A-033 18</td><td>8-Apr-17</td><td>Actinolite Vermiculite</td><td>1.2% to 1.5%</td><td>Yes /</td><td>No</td><td>No</td><td>Annually</td><td>5 Moderate</td><td>Manage in place.</td><td>120 ft<sup>2</sup></td><td>Photograph 2</td><td>Door Jamb</td></th<>	Included         M         104         Wa           Included         M         104         Wa           Included         M         105         Wa	/ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom	Ceiling Ceil Ceiling Space Ceil Doors Reç Mechanical Duc Walls Inte Floor Floo Ceiling Ceil Ceiling Ceil Doors Reç	ling Space gular Door et Work erior Walls or ling Space gular Door	Metal Deck NA Non Suspect Door White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck NA Non Suspect Door	High High N/A High High High High N/A High	No N/A No No No No No N/A No	Yes No N/A No Yes No Yes No N/A No	No N/A No No No N/A No	Good Good N/A Good Good Good Good N/A Good	along the exterior. No ceiling space present Non-suspect door. Duct work not insulated with suspect insulation. No ceiling space present Non-suspect door. Bare or insulated with fibreglass.	Bulk	A-033 18	8-Apr-17	Actinolite Vermiculite	1.2% to 1.5%	Yes /	No	No	Annually	5 Moderate	Manage in place.	120 ft <sup>2</sup>	Photograph 2	Door Jamb
Include         M         100         Wathow         Wathow        Wathow        Wathow	Included         M         104         Wa           Included         M         104         Wa           Included         M         105         Wa	fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom	Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Floor Floo Ceiling Space Ceil Doors Reg Mechanical Pip	ling ling Space gular Door ct Work or or ling space gular Door ing	Metal Deck NA Non Suspect Door White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck NA Non Suspect Door Metal Pipes	High High N/A High High High High High High High High	No No No No No No No No No No	Yes No N/A No Yes No N/A No No	No N/A No No No No N/A No No	Good Good N/A Good Good Good Good N/A Good Good	along the exterior. No ceiling space present Non-suspect door. Duct work not insulated with suspect insulation. No ceiling space present Non-suspect door. Bare or insulated with fibreglass and PVC fittings. Duct work not insulated with	Bulk	A-033 18	8-Apr-17	Actinolite Vermiculite	1.2% to 1.5%	Yes /	No	No	Annually	5 Moderate	Manage in place.	120 ft <sup>2</sup>	Photograph 2	Door Jamb
included M M Mais Walks Vermioulite Holing Vermioulite <	Included         M         104         Wa           Included         M         104         Wa           Included         M         105         Wa	fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom	Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Floor Floo Ceiling Ceil Ceiling Space Ceil Ceiling Space Ceil Mechanical Pipi Mechanical Duc	lling gpace gular Door ct Work erior Walls or lling gular Door ing ct Work	Metal Deck NVA Non Suspect Door White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck NVA Non Suspect Door Metal Pipes White Duct Mastic	High High N/A High High High High High High High High	No N/A No No No No N/A No No No	Yes No N/A No Yes No N/A No Yes Yes	No N/A No No No No No No No No	Good Good N/A Good Good Good N/A Good Good Good	along the exterior. No ceiling space present Non-suspect door. Duct work not insulated with suspect insulation. No ceiling space present Non-suspect door. Bare or insulated with fibreglass and PVC fittings. Duct work not insulated with suspect insulation. Block wall shared with Room	Bulk	A-033 18	8-Apr-17	Actinolite Vermiculite	1.2% to 1.5%	Yes /	No	No	Annually 7	5 Moderate	Manage in place.	120 ft <sup>2</sup>	Photograph 2	Door Jamb
Included       M       106       Washnoom       Ceiling       Neil Deck       High       No	Included         M         104         Wa           Included         M         104         Wa           Included         M         105         Wa	fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom	Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Floor Floo Ceiling Space Ceil Doors Reg Mechanical Pipi Mechanical Duc Walls Inte	ling gpace gular Door et Work erior Walls or ling g gular Door ing ct Work erior Walls	Metal Deck NVA Non Suspect Door White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck NVA Non Suspect Door Metal Pipes White Duct Mastic	High High N/A High High High High High High High High	No N/A No No No No N/A No No No	Yes No N/A No Yes No N/A No Yes Yes	No N/A No No No No No No No No	Good Good N/A Good Good Good N/A Good Good Good	along the exterior.  No ceiling space present Non-suspect door.  Duct work not insulated with suspect insulation.  No ceiling space present Non-suspect door. Bare or insulated with fibreglass: and PVC fittings. Duct work not insulated with suspect insulation. Block wall shared with Room 111 observed to be solid.	Bulk Participation (Constraint)		8-Apr-17	Actinolite Vermiculite	1.2% to 1.5%	Yes /	No	No	Annually 7	5 Moderate	Manage in place.			Door Jamb
Included M 106 Washroom Celling Space Metal Deck High No <t< td=""><td>Included         M         104         Wa           Included         M         104         Wa           Included         M         105         Wa           Included         M         106         Wa           Included         M         106         Wa</td><td>fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom</td><td>Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Floor Floo Ceiling Space Ceil Ceiling Space Ceil Doors Reg Mechanical Pipi Mechanical Duc Walls Inte Ext</td><td>ling gyac gylar Door et Work erior Walls or ling gylar Door ing ct Work erior and Perimeter lis</td><td>Metal Deck NA Non Suspect Door White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck NA Non Suspect Door Metal Pipes White Duct Mastic Block Wall Vermiculite</td><td>High High N/A High High High High High High High High</td><td>No N/A No No No No No No No No Yes</td><td>Yes No N/A No Yes No No No Yes No Yes</td><td>No N/A No No No No No No Yes</td><td>Good Good N/A Good Good Good Good Good Good Good Goo</td><td>along the exterior. No ceiling space present Non-suspect door. Duct work not insulated with suspect insulated with suspect insulated with Non-suspect door. Bare or insulated with fibreglas: and PVC fittings. Duct work not insulated with suspect insulation. Block wail shared with Room 111 observed to be solid. Suspected to be located in</td><td>Bulk Participation (Constraint) (Constraint)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Included         M         104         Wa           Included         M         104         Wa           Included         M         105         Wa           Included         M         106         Wa           Included         M         106         Wa	fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom	Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Floor Floo Ceiling Space Ceil Ceiling Space Ceil Doors Reg Mechanical Pipi Mechanical Duc Walls Inte Ext	ling gyac gylar Door et Work erior Walls or ling gylar Door ing ct Work erior and Perimeter lis	Metal Deck NA Non Suspect Door White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck NA Non Suspect Door Metal Pipes White Duct Mastic Block Wall Vermiculite	High High N/A High High High High High High High High	No N/A No No No No No No No No Yes	Yes No N/A No Yes No No No Yes No Yes	No N/A No No No No No No Yes	Good Good N/A Good Good Good Good Good Good Good Goo	along the exterior. No ceiling space present Non-suspect door. Duct work not insulated with suspect insulated with suspect insulated with Non-suspect door. Bare or insulated with fibreglas: and PVC fittings. Duct work not insulated with suspect insulation. Block wail shared with Room 111 observed to be solid. Suspected to be located in	Bulk Participation (Constraint)													
Included       M       106       Wahroom       Ceiling Space	Included         M         104         Wa           Included         M         104         Wa           Included         M         105         Wa           Included         M         106         Wa           Included         M         106         Wa	fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom	Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Floor Floo Ceiling Space Ceil Ceiling Space Ceil Doors Reg Mechanical Pipi Mechanical Duc Walls Inte Ext	ling gyac gylar Door et Work erior Walls or ling gylar Door ing ct Work erior and Perimeter lis	Metal Deck NA Non Suspect Door White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck NA Non Suspect Door Metal Pipes White Duct Mastic Block Wall Vermiculite	High High N/A High High High High High High High High	No N/A No No No No No No No No Yes	Yes No N/A No Yes No No No Yes No Yes	No N/A No No No No No No Yes	Good Good N/A Good Good Good Good Good Good Good Goo	along the exterior.  No ceiling space present Non-suspect door. Duct work not insulated with suspect insulation.  No ceiling space present Non-suspect door. Bare or insulated with fibreglas: and PVC fittings. Duct work not insulated with suspect insulated with suspect insulated with Suspect insulated.  Suspected to be located in exterior and perimeter walls.  Date coded to a time period in	Bulk         -           -         -													
Included       M       106       Washroom       Mechanical       Piping       Drain Lines       High       No	Included         M         104         Wa           Included         M         104         Wa           Included         M         105         Wa           Included         M         106         Wa           Included         M         106         Wa           Included         M         106         Wa           Included         M         106         Wa	fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom	Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Floor Floo Ceiling Space Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Walls Inte Walls Wall Floor Floo	ling guar Door et Work erior Walls or jing gular Door ing ct Work erior and Perimeter lis erior and Perimeter or	Metal Deck NA Non Suspect Door White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck NA Non Suspect Door Metal Pipes White Duct Mastic Block Wall Vermiculite Grey Vinyl Sheet Flooring with White	High High N/A High High High High High High High High	No No NyA No No No No No No No No Yes No	Yes No N/A No Yes No Yes No No Yes No Yes Yes	No N/A No No No No No No No No No No	Good Good NIA Good Good Good Good Good Good Good Goo	along the exterior.  No ceiling space present Non-suspect door.  Duct work not insulated with suspect insulation.  No ceiling space present Non-suspect door. Bare or insulated with fibreglass and PVC fittings. Duct work not insulated with Suspect insulation. Block wail shared with Room 11 observed to be solid. Suspected to be located in exterior and perimeter walls. Date coded to a time period in which abselso use was not	Bulk         -           -         -													
Included       M<	Included         M         104         Wa           Included         M         104         Wa           Included         M         105         Wa           Included         M         106         Wa	fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom	Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Floor Floo Ceiling Space Ceil Ceiling Space Ceil Mechanical Duc Walls Inte Extra Space Ceil Mechanical Duc Walls Inte Extra Space Ceil Floor Floo Ceiling Ceil Ceiling Ceil	ling guar Door et Work erior Walls or ling gular Door ing ct Work erior and Perimeter lis or ling gular Door ing erior and Perimeter lis or	Metal Deck VA Non Suspect Door White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck VA Non Suspect Door White Duct Mastic Block Wall Vermiculite Grey Vinyl Sheet Flooring with White Metal Deck NA	High High N/A High High High High High High High High	No	Yes No N/A No No Yes No Yes No Yes Yes No Yes	No N/A No No No No No No No <u>Yes</u> No No	Good Good N/A Good Good Good Good Good Good Good Goo	along the exterior.  No ceiling space present Non-suspect door.  Duct work not insulated with suspect insulation.  Non-suspect door. Bare or insulated with fireglas: and PVC fittings. Duct work not insulated with Suspect insulated with Suspect insulated with Suspect insulated with Could and the or	Bulk         -           -         -													
Included       M<	Included         M         104         Wa           Included         M         104         Wa           Included         M         105         Wa           Included         M         106         Wa	fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom	Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Floor Floo Ceiling Space Ceil Ceiling Space Ceil Mechanical Duc Walls Inte Extra Space Ceil Mechanical Duc Walls Inte Extra Space Ceil Floor Floo Ceiling Ceil Ceiling Ceil	ling guar Door et Work erior Walls or ling gular Door ing ct Work erior and Perimeter lis or ling gular Door ing erior and Perimeter lis or	Metal Deck VA Non Suspect Door White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck VA Non Suspect Door White Duct Mastic Block Wall Vermiculite Grey Vinyl Sheet Flooring with White Metal Deck NA	High High N/A High High High High High High High High	No	Yes No N/A No No Yes No Yes No Yes Yes No Yes	No N/A No No No No No No No <u>Yes</u> No No	Good Good N/A Good Good Good Good Good Good Good Goo	along the exterior. No ceiling space present Non-suspect door. Duct work not insulated with suspect insulated with suspect insulated with Non-suspect door. Bare or insulated with fibreglas: and PVC fittings. Duct work not insulated with suspect insulation. Block wall shared with Room 111 observed to be solid. Suspected to be located in exterior and perimeter walls. Date coded to a time period in which asbesios use was not widespread. No ceiling space present Non-suspect door.	Bulk Pulk													
included M 107 Office Walls Interior Walls Block Wall Interior Walls Block Wall Metrior Walls Block Wall Wetrior Walls Block Wetrior Wet	Included         M         104         Wa           Included         M         104         Wa           Included         M         105         Wa           Included         M         106         Wa	lashroom (ashroom (ashroom (ashroom (ashroom (ashroom (ashroom (ashroom (ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom	Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Floor Floo Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Walls Inte Walls Inte Walls Wal Floor Floo Ceiling Ceil Ceiling Ceil Ceiling Ceil Ceiling Ceil Ceiling Ceil Ceiling Ceil Ceiling Ceil Ceiling Ceil	ling gaac jular Door et Work error Walls or ling Space gular Door erior and Perimeter lls or erior and Perimeter lls or ling Space gular Door	Metal Deck VA Non Suspect Door Vhite Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck VA Non Suspect Door White Duct Mastic Block Wall Vermiculite Grey Vinyl Sheet Flooring with White Metal Deck NA Non Suspect Door	High High N/A High High High High High High High High	No	Yes No N/A No Yes No No Yes Yes Yes Yes No No No No No No No No No No No No	No           N/A           No           N/A           No	Good Good NNA Good Good Good Good Good Good Good Goo	along the exterior.  No ceiling space present Non-suspect door.  Duct work not insulated with suspect insulation.  No ceiling space present Non-suspect door. Bare or insulated with fibreglass and PVC fittings. Duct work not insulated with suspect insulation. Block wail shared with Room 11 observed to be solid. Suspected to be located in exterior and perimeter walls. Date coded to a time period in which absetso use was not widespread. No ceiling space present Non-suspect door. Drain lines not insulated and no suspect packing observed.	Bulk         -           -         -													
Included M 107 Office Walls Exterior Walls Interior Walls Drywall Walls M terior Walls M terior Walls Drywall Walls Drywall Walls Dr	Included         M         104         Wa           Included         M         104         Wa           Included         M         105         Wa           Included         M         106         Wa           Included         M<	fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom fashroom	Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Floor Floo Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Extit Walls Inte Extit Walls Ceiling Ceil Ceiling Ceil Ceiling Ceil Ceiling Ceil Ceiling Ceil Ceiling Ceil Ceiling Ceil Ceiling Ceil Doors Reg Mechanical Duc	lling gace jular Door ct Work erior Walls or gular Door gular Door erior walls erior walls erior walls erior walls erior and Perimeter its or lling gular Door ing	Metal Deck VA Non Suspect Door White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck VA Non Suspect Door White Duct Mastic Block Wall Vermiculite Grey Vinyl Sheet Flooring with White Metal Deck NA Non Suspect Door Drain Lines White Duct Mastic	High High N/A N/A High High High High High High High High	No	Yes           No           N/A           N/A           No           Yes           No           No           No           Yes           No           Yes	No N/A No No No No No No No <u>Yes</u> No No No No No No	Good Good N/A Good Good Good Good Good Good Good Goo	along the exterior.  No ceiling space present Non-suspect door. Duct work not insulated with suspect insulation.  No ceiling space present Non-suspect door. Bare or insulated with fibreglas: and PVC fittings. Duct work not insulated with suspect insulation. Block wall shared with Room 111 observed to be solid. Suspected to be located in exterior and perimeter walls.  Date coded to a time period in which asbestos use was not widespread. Non-suspect door. Drain lines not insulated and nc suspect packing observed. Duct work not insulated and nc suspect packing observed. Duct work not insulated with	Bulk         -           -         -													
Included in the formation of the state of th	Included         M         104         Wa           Included         M         104         Wa           Included         M         105         Wa           Included         M         106         Wa           Included         M<	lashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom	Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Floor Floo Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Walls Inte Walls Inte Ceiling Ceil Ceiling Ceil	Iling gaac uling Space gular Door ct Work or iling Space gular Door ing erior Walls erior walls erior and Perimeter Iling erior and Perimeter iling ling Space gular Door ing ct Work sistop	Metal Deck NA Non Suspect Door White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck NA Non Suspect Door Metal Pipes White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck NA Non Suspect Door Drain Lines White Duct Mastic White Duct Mast	High High N/A N/A High High High High High High High High	No           No           N/A           No	Yes           No           N/A           No           Yes           No           Yes           No           No           Yes           No           Yes           No           Yes           Yes           No           Yes           Yes	No           N/A           No           No	Good Good NNA Good Good Good Good Good Good Good Goo	along the exterior.  No ceiling space present Non-suspect door. Duct work not insulated with suspect insulation.  No ceiling space present Non-suspect door. Bare or insulated with fibreglas: and PVC fittings. Duct work not insulated with suspect insulation. Block wall shared with Room 111 observed to be solid. Suspected to be located in exterior and perimeter walls.  Date coded to a time period in which asbestos use was not widespread. Non-suspect door. Drain lines not insulated and nc suspect packing observed. Duct work not insulated and nc suspect packing observed. Duct work not insulated with	Bulk         -           -         -													
	Included         M         104         Wa           Included         M         104         Wa           Included         M         105         Wa           Included         M         106         Wa           Included         M<	lashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom /ashroom	Ceiling Ceil Ceiling Space Ceil Doors Reg Mechanical Duc Walls Inte Floor Floo Ceiling Ceil Doors Reg Mechanical Duc Walls Inte Walls Inte Walls Inte Walls Ceiling Space Ceil Floor Floo Ceiling Space Ceil Doors Reg Mechanical Duc Ceiling Space Ceil Ceiling Space Ceil Ceiling Space Ceil Ceiling Space Ceil Mechanical Duc Mechanical Duc Mechanical Duc Mechanical Duc Mechanical Duc Mechanical Duc	lling gyac gylar Door st Work arior Walls or lling gyac gylar Door ing st Work arior Walls erior and Perimeter lling arior Walls erior and Perimeter lling gylar Door ing st Work stop st Work	Metal Deck VA Non Suspect Door Vhite Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck VA Non Suspect Door Metal Pipes White Duct Mastic Block Wall Vermiculite Grey Vinyl Sheet Flooring with White Metal Deck NA Non Suspect Door Drain Lines White Duct Mastic White Firestop Block Wall	High High High High High High High High	No	Yes No/ N/A No Yes No No No Yes Yes Yes Yes No No Yes No No Yes No No Yes No	No           N/A           No	Good Good N/A Good Good Good Good Good Good Good Goo	along the exterior.  No ceiling space present Non-suspect door. Duct work not insulated with suspect insulation.  Non-suspect door.  Non-suspect door. Bare or insulated with fibreglas: and PVC fittings. Duct work not insulated with fibreglas: and PVC fittings. Duct work not insulated with Room 111 observed to be solid. Suspected to be located in exterior and perimeter walls.  Date coded to a time period in which asbesios use was not widespread. No ceiling space present Non-suspect door. Drain lines not insulated with suspect not insulated with or widespread. Duct work not insulated with suspect and perimeter walls.  Date coded to a time period in which asbesios use was not Suspect door.  Drain lines not insulated with suspect	Bulk         -           -         -	VS-A-033		Actinolite Actinolite	1.2% to 1.5%	Yes	No	No	Annually	5 Moderate	Manage in place.	120 ft <sup>2</sup>	Photograph 2	Door Jamb
	Included         M         104         Wa           Included         M         104         Wa           Included         M         105         Wa           Included         M         106         Wa           Included         M         107         Off           Included         M	lashroom /ashroom	Ceiling     Ceil       Ceiling Space     Ceil       Doors     Reg       Mechanical     Duc       Walls     Inte       Floor     Floo       Ceiling     Ceil       Doors     Reg       Mechanical     Duc       Doors     Reg       Mechanical     Pipi       Mechanical     Duc       Walls     Inte       Walls     Walls       Floor     Floo       Ceiling     Ceil       Ceiling     Ceil       Ceiling     Ceil       Ceiling     Ceil       Mechanical     Pipi       Mascellaneous     Fire       Walls     Inte       Walls     Ext	ling gaac gular Door et Work erior Walls or gular Door ling gular Door erior Walls erior Walls erior and Perimeter ling gular Door ling stop gular Door erior Work estop erior Walls erior Walls	Metal Deck NA Non Suspect Door White Duct Mastic Block Wall Grey Vinyl Sheet Flooring with White Metal Deck NA Non Suspect Door Metal Pipes White Duct Mastic Block Wall Vermiculite Grey Vinyl Sheet Flooring with White Metal Deck NA Non Suspect Door Drain Lines White Duct Mastic White Flooring with White White Flooring with White White Statestop Block Wall Vermiculite White Comparison Block Wall Vermiculite White Comparison Block Wall White Flooring Block Wall Vermiculite	High High N/A N/A High High High High High High High High	No           No           N/A           No           No	Yes No N/A No Yes No No No Yes Yes No Yes No No No No No No Yes No Yes No	No N/A No No No No No No Yes No No No No No No No No No No No	Good Good NNA Good Good Good Good Good Good Good Goo	along the exterior.  No ceiling space present Non-suspect door. Duct work not insulated with suspect insulation.  Non-suspect door.  Non-suspect door. Bare or insulated with fibreglas: and PVC fittings. Duct work not insulated with fibreglas: and PVC fittings. Duct work not insulated with Room 111 observed to be solid. Suspected to be located in exterior and perimeter walls.  Date coded to a time period in which asbesios use was not widespread. No ceiling space present Non-suspect door. Drain lines not insulated with suspect not insulated with suspect soluted or. Drain lines not insulated with suspect door. Duct work not insulated with suspect subalted and Suspect to be located in Suspect soluted with suspect subalted	Bulk         -           -         -	VS-A-033		Actinolite Vermiculite Actinolite Vermiculite	1.2% to 1.5%	Yes	No	No	Annually	5 Moderate	Manage in place.	120 ft <sup>2</sup>	Photograph 2	Door Jamb

			1					Date coded to a time period in								-	Г				
Included M 107 Office	Ceiling Ceiling	2'x4' Ceiling Tile with Small Pinholes	s High	No	No	No	Good	which asbestos use was not widespread.													
Included M 107 Office	Ceiling Space Ceiling Space	Metal Deck	High	No	No	No	Good														
Included M 107 Office	Doors Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door. Drain lines not insulated and nc						<u> </u>							
Included M 107 Office	Mechanical Piping	Drain Lines	High	No	No	No	Good	suspect packing observed.								_					
Included M 107 Office	Mechanical Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.													
Included M 107 Office	Mechanical Duct Work	Grey Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.	Bulk A-0	21 18-Apr-17											
Included M 107 Office	Miscellaneous Firestop	White Firestop	High	No	Yes	No	Good		Bulk A-C												
Included M 108 Vestibule	Walls Interior Walls	Block Wall	High	No	No	No	Good	Suspected to be located in													
Included M 108 Vestibule	Walls Exterior Wall	Vermiculite	High	Yes	Yes	Yes	Good	exterior and perimeter walls.	VS-A		Actinolite	Vermiculite	1.2% to 1.5%	Yes N		Annually	5 Moderate	Manage in place.		Photograph 2	Door Jamb
Included M 108 Vestibule	Walls Interior Walls Floor Floor	Drywall Walls Black and Grey Vinyl Sheet Flooring	High g High	Yes No	Yes Yes	Yes No	Good Good		Bulk A-0	18 18-Apr-17	Chrysotile	Drywall Joint Compound	1.8% to 2.1%	Yes N	o No	Annually	5 High	Manage in place.	210 ft <sup>-</sup>	Photograph 1	Door Jamb
								Date coded to a time period in which asbestos use was not													
Included M 108 Vestibule	Ceiling Ceiling	2'x4' Ceiling Tile with Small Pinholes		No	No	No	Good	widespread.													
Included M 108 Vestibule Included M 108 Vestibule	Ceiling Space Ceiling Space Doors Regular Door	Metal Deck Non Suspect Door	High High	No	No No	No No	Good Good	Non-suspect door.								-					
								Bare or insulated with fibreglass													
Included M 108 Vestibule	Mechanical Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings. Duct work not insulated with								-		-	+ +		
Included M 108 Vestibule	Mechanical Duct Work	Grey Duct Mastic	High	No	Yes	No	Good	suspect insulation.		10 10 1 17											
Included M 108 Vestibule Included M 109 Washroom	Miscellaneous Door Caulking Walls Interior Walls	White Door Caulking Block Wall	High High	No No	Yes No	No No	Good Good		Bulk A-0	19 18-Apr-17											
Included M 109 Washroom	Walls Interior Walls	Drywall Walls	High	Yes	Yes	Yes	Good		Bulk A-0			Drywall Joint Compound	1.8% to 2.1%	Yes N	o No	Annually	5 High	Manage in place.	210 ft <sup>2</sup>	Photograph 1	Door Jamb
Included M 109 Washroom Included M 109 Washroom	Floor Floor Floor Floor	Black and Grey Vinyl Sheet Flooring Grey Floor Levelling Compound	g High High	No No	Yes Yes	No No	Good Good		Bulk A-0 Bulk A-0												
			Ň					Date coded to a time period in													
Included M 109 Washroom	Ceiling Ceiling	2'x4' Ceiling Tile with Small Pinholes	s High	No	No	No	Good	which asbestos use was not widespread.													
Included M 109 Washroom Included M 109 Washroom	Ceiling Space Ceiling Space Doors Regular Door	Metal Deck Non Suspect Door	High High	No No	No No	No No	Good Good	Non-suspect door.													
								Drain lines not insulated and nc						1							
Included M 109 Washroom	Mechanical Piping	Drain Lines	High	No	No	No	Good	suspect packing observed. Bare or insulated with fibreglass													
Included M 109 Washroom	Mechanical Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.													
Included M 110 Office	Walls Interior Walls	Block Wall	High	No	No	No	Good	Suspected to be located in												Distance	
Included M 110 Office	Walls Exterior Wall	Vermiculite	High	Yes	Yes	Yes	Good	exterior and perimeter walls.	VS-A	000	Actinolite	Vermiculite	1.2% to 1.5%	Yes N		Annually	5 Moderate	Manage in place.	350 ft <sup>2</sup>	Photograph 2	Door Jamb
Included M 110 Office	Walls Interior Walls Floor Floor	Drywall Walls Black and Grey Vinyl Sheet Flooring	High g High	Yes No	Yes Yes	Yes No	Good Good		Bulk A-0	27 18-Apr-17	Chrysotile	Drywall Joint Compound	1.8% to 2.1%	Yes N	o No	Annually	5 High	Manage in place.	120 ft <sup>-</sup>	Photograph 1	Door Jamb
			~ ~					Date coded to a time period in						1							
Included M 110 Office	Ceiling Ceiling	2'x4' Ceiling Tile with Small Pinholes	s High	No	No	No	Good	which asbestos use was not widespread.													
Included M 110 Office	Ceiling Space Ceiling Space Doors Regular Door	Metal Deck Non Suspect Door	High	No No	No No	No No	Good Good	Non-suspect door.													
			High					Duct work not insulated with													
Included M 110 Office	Mechanical Duct Work	Grey Duct Mastic	High	No	Yes	No	Good	suspect insulation. Drain lines not insulated and nc						<u> </u>		_					
Included M 110 Office	Mechanical Piping	Drain Lines	High	No	No	No	Good	suspect packing observed.													
Included M 110 Office	Mechanical Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.													
Included M 111 Change Room	Walls Interior Walls	Block Wall	High	No	No	No	Good	, , , , , , , , , , , , , , , , , , ,													
Included M 111 Change Room	Walls Perimeter Wall	Vermiculite	High	Yes	Yes	Yes	Good	Suspected to be located in exterior and perimeter walls.	VS-A	-033	Actinolite	Vermiculite	1.2% to 1.5%	Yes N	o No	Annually	5 Moderate	Manage in place.	200 ft <sup>2</sup>	Photograph 2	Door Jamb
Included M 111 Change Room	Floor Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good														
Included M 111 Change Room Included M 111 Change Room	Ceiling Ceiling Ceiling Space Ceiling Space	Metal Deck N/A	High N/A	No N/A	No N/A	No N/A	Good N/A	No ceiling space present						<u> </u>		-					
Included M 111 Change Room	Doors Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door.													
Included M 111 Change Room	Mechanical Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.													
Included M 111 Change Room	Mechanical Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.													
Included M 111A Washroom	Walls Interior Walls	Block Wall	High	No	No	No	Good	suspect insulation.													
Included M 111A Washroom	Walls Perimeter Wall	Vermiculite	High	Yes	Yes	Yes	Good	Suspected to be located in exterior and perimeter walls.	VS-A	-033	Actinolite	Vermiculite	1.2% to 1.5%	Yes N	o No	Annually	5 Moderate	Manage in place.	60 ft <sup>2</sup>	Photograph 2	Door Jamb
Included M 111A Washroom	Floor Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good														
Included M 111A Washroom Included M 111A Washroom	Ceiling Ceiling Ceiling Space Ceiling Space	Metal Deck N/A	High N/A	No N/A	No N/A	No N/A	Good N/A	No ceiling space present								-		-	+ +		
Included M 111A Washroom	Doors Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door.													
Included M 111A Washroom	Mechanical Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.													
Included M 111A Washroom	Mechanical Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.													
Included M 111B Shower	Walls Interior Walls	Ceramic Tile (Layer 1)	High	No	No	No	Good	suspect insulation.													
Included         M         111B         Shower           Included         M         111B         Shower	Walls Interior Walls Floor Floor	Block Wall (Layer 2) Ceramic Tile	High High	No No	No No	No No	Good Good												<u>                                     </u>		
Included M 111B Shower	Ceiling Ceiling	Metal Deck	High	No	No	No	Good	N													
Included M 111B Shower	Ceiling Space Ceiling Space	N/A	N/A	N/A	N/A	N/A	N/A	No ceiling space present Bare or insulated with fibreglass											+ +		
Included M 111B Shower	Mechanical Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.						<u> </u>							
Included M 111B Shower	Mechanical Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.													
Included M 111B Shower Included M 112 Change Room	Miscellaneous Firestop Walls Interior Walls	White Firestop Block Wall	High High	No No	Yes No	No No	Good Good														
								Suspected to be located in												Photograph 2	
Included M 112 Change Room Included M 112 Change Room	Walls Perimeter Wall Floor Floor	Vermiculite 1'x2' Black Floor Tile	High High	Yes No	Yes Yes	Yes No	Good Good	exterior and perimeter walls.	VS-A Bulk A-0		Actinolite	Vermiculite	1.2% to 1.5%	Yes N	o No	Annually	5 Moderate	Manage in place.	200 ft <sup>2</sup>	. notograph 2	Door Jamb
Included M 112 Change Room	Ceiling Ceiling	Metal Deck	High	No	No	No	Good			10/10/11/											
Included M 112 Change Room Included M 112 Change Room	Ceiling Space Ceiling Space Doors Regular Door	N/A Non Suspect Door	N/A High	N/A No	N/A No	N/A No	N/A Good	No ceiling space present Non-suspect door.											+ +		
								Bare or insulated with fibreglass													
Included M 112 Change Room	Mechanical Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings. Duct work not insulated with											+ +		
Included M 112 Change Room	Mechanical Duct Work	White Duct Mastic Block Wall	High	No	Yes	No	Good	suspect insulation.													
Included M 112A Washroom	Walls Interior Walls		High	No	No	No	Good	Vermiculite located in block wall												Photograph 0	
Included M 112A Washroom Included M 112A Washroom	Walls Perimeter Wall Floor Floor	Vermiculite 1'x2' Black Floor Tile	High High	Yes No	Yes Ves	Yes No	Good Good	shared with the Rink.	Bulk A-C	32 18-Apr-17	Actinolite	Vermiculite	1.2% to 1.5%	Yes N	o No	Annually	5 Moderate	Manage in place.	60 ft <sup>2</sup>	Photograph 2	Door Jamb
Included M 112A Washroom	Ceiling Ceiling	Metal Deck	High High	No	Yes No	No	Good														
Included M 112A Washroom Included M 112A Washroom	Ceiling Space Ceiling Space Doors Regular Door	N/A Non Suspect Door	N/A High	N/A No	N/A No	N/A No	N/A Good	No ceiling space present Non-suspect door.													
								Bare or insulated with fibreglass													
			High	No	No	No	Good	and PVC fittings.													
Included M 112A Washroom	Mechanical Piping	Metal Pipes	riigii					Duct work not instituted with													
Included M 112A Washroom	Mechanical Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.													
			High High	No No No	Yes No No	No No	Good Good Good														
Included M 112A Washroom Included M 112B Shower	Mechanical Duct Work Walls Interior Walls	White Duct Mastic Ceramic Tile (Layer 1)	High	No	No No	No	Good														

Included Included		12B Shower 12B Shower	Ceiling Ceiling Space	Ceiling	Metal Deck N/A	High N/A	No N/A	No N/A	No N/A	Good N/A	No ceiling space present					-		-				<b>└──</b>	
included			Centry Space	Celling Space		19/75	IN/A	IN/A	N/A	11/7	Bare or insulated with fibreglass					1					1		
Included	M 11	2B Shower	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.												
Included	M 11	2B Shower	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with												
		12B Shower	Miscellaneous		White Firestop	High	No		No	Good	suspect insulation.												
											Wall shared with 114 was												
Included	M 1	13 Mechanical Room	Walls	Interior Walls	Block Wall	High	No	No	No	Good	observed to be hollow.												
				Exterior and Perimeter	r						Vermiculite located in block wall along the exterior and perimeter	r -										Photog	raph 2
Included		13 Mechanical Room	Walls	Walls	Vermiculite	High	Yes	Yes	Yes	Good	walls.	Bulk	A-031 18-	Apr-17 Actino	te Vermiculite	1.2% to 1.5%	Yes No	No	Annually 5	Moderate	Manage in place.	625 ft <sup>2</sup>	Door Jamb
		13 Mechanical Room		Floor	Concrete	High		No		Good													
		13 Mechanical Room 13 Mechanical Room	Ceiling Ceiling Space	Ceiling Ceiling Space	Metal Deck	High N/A	No N/A		No N/A	Good N/A	No ceiling space present												
		13 Mechanical Room	Doors	Regular Door	Non Suspect Door	High		No	No	Good	Non-suspect door.												
				<b>B</b> <sup>1</sup>						<u> </u>	Bare or insulated with fibreglass	5											
Included	M 1	13 Mechanical Room	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.			_									
											Not sampled as sampling could										Inspect and sample		
											cause fibre dispersal throughout	d in the second s									if scheduled for		
Included	M 1	13 Mechanical Room	Mechanical	Duct Work	Duct Connector Fabric	High	Yes	No	Potential	Good	the air handling system. Duct work not insulated with						No No		Annually	Low	removal.		
Included	M 1	13 Mechanical Room	Mechanical	Duct Work	Grey Duct Mastic	High	No	Yes	No	Good	suspect insulation.												
					,	Ť					Duct work not insulated with					1	1				1		
Included	M 1	13 Mechanical Room	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation.	Bulk	A-024 18-	Apr-17									
											Block wall shared with Room												
											115 was observed to be solid.												
In all side of		14 Ohanna Daam	14/-11-	1-4	Dia ale Mall	L li e le	Nie	N -	Nie	0	Block wall shared with Room												
Included Included	M 1	14 Change Room 14 Change Room	Walls Floor	Interior Walls Floor	Block Wall 1'x2' Black Floor Tile	High High	No No	No Yes	No No	Good Good	113 was observed to be hollow.	Bulk	A-006 18-	Apr-17									
Included	M 1	14 Change Room	Ceiling	Ceiling	Metal Deck	High	No	No	No	Good													
Included	M 1	14 Change Room		Ceiling Space	N/A Non Suspect Deer	N/A High	N/A		N/A N/A	N/A Good	No ceiling space present												
Included	IVI 1	14 Change Room	Doors	Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door. Bare or insulated with fibreglass												
Included	M 1	14 Change Room	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.												
Industry	M 1	14 Change Room	Montrativ	Duct W/!-	White Duct Martin	1.0.2	No	¥	No	Good	Duct work not insulated with	D	A-007 18-	Nor 17									
Included Included		14 Change Room 14A Washroom	Mechanical Walls	Duct Work Interior Walls	White Duct Mastic Block Wall	High High	No	Yes No	No No	Good	suspect insulation.	Bulk	A-UU/ 18-	Apr-17									
Included	M 11	4A Washroom	Floor	Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good													
		4A Washroom 4A Washroom	Ceiling	Ceiling	Metal Deck	High		No N/A	No N/A	Good N/A	No colling apont access												
		I4A Washroom I4A Washroom	Ceiling Space Doors	Ceiling Space Regular Door	N/A Non Suspect Door	N/A High	N/A No	N/A No	N/A No	N/A Good	No ceiling space present Non-suspect door.										1		
			20010	rtogular Bool							Bare or insulated with fibreglass	5											
Included	M 11	4A Washroom	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.												
Included	M 11	4A Washroom	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.												
		4B Shower	Walls	Interior Walls	Ceramic Tile (Layer 1)	High	No		No	Good	Suspect insulation.										1		
		4B Shower	Walls	Interior Walls	Block Wall (Layer 2)	High	No		No	Good													
Included Included	M 11 M 11	4B Shower 4B Shower	Floor Ceiling	Floor Ceiling	Ceramic Tile Metal Deck	High High	No	No No	No No	Good Good		<u> </u>									-		
		4B Shower	Ceiling Space		N/A	N/A		N/A		N/A	No ceiling space present												
											Bare or insulated with fibreglass	s											
Included	M 11	4B Shower	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings. Duct work not insulated with												
Included		4B Shower	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation.												
Included	M 11	4B Shower	Miscellaneous	Firestop	White Firestop	High	No	Yes	No	Good		Bulk	A-008 18-	Apr-17									
Included	M 1	15 Change Room	Walls	Interior Walls	Block Wall	Hiah	No	No	No	Good	Block wall shared with Room 114 was observed to be solid.												
Included	M 1	15 Change Room	Floor	Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good													
Included	M 1	15 Change Room	Ceiling	Ceiling	Metal Deck	High	No	No N/A	No N/A	Good	<b>N 1</b>												
Included	M 1	15 Change Room 15 Change Room	Ceiling Space Doors	Regular Door	N/A Non Suspect Door	N/A High	N/A No		N/A No	N/A Good	No ceiling space present Non-suspect door.												
											Bare or insulated with fibreglass					1	1				1		
Included	M 1	15 Change Room	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.					-		_			-		
Included	M 1	15 Change Room	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.												
Included	M 11	15A Washroom	Walls	Interior Walls	Block Wall	High	No	No	No	Good							1						
		ISA Washroom ISA Washroom	Floor	Floor	1'x2' Black Floor Tile Metal Deck	High	No No	Yes	No No	Good								-					
Included	M 11	ISA Washroom	Ceiling Ceiling Space	Ceiling Ceiling Space	N/A	High N/A		No N/A		Good N/A	No ceiling space present												
		I5A Washroom	Doors	Regular Door	Non Suspect Door	High		No		Good	Non-suspect door.												
Included	M 11	15A Washroom	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.	s											
moldued			moonaniodi			riigit	UNI			0000	Duct work not insulated with												
Included	M 11	15A Washroom	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation.												
Included	M 11	15B Shower 15B Shower	Walls Walls	Interior Walls Interior Walls	Ceramic Tile (Layer 1) Block Wall (Layer 2)	High High		No No		Good Good													
Included	M 11	15B Shower	Floor	Floor	Ceramic Tile	High	No	No	No	Good													
Included	M 11	15B Shower	Ceiling	Ceiling	Metal Deck	High	No	No	No	Good													
Included	M 11	15B Shower	Ceiling Space	Celling Space	N/A	N/A	N/A	N/A	N/A	N/A	No ceiling space present Bare or insulated with fibreglass												
Included	M 11	5B Shower	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.												
In al set of	M 11	15B Shower	Maghania			1.0.2	No	¥	No	- ·	Duct work not insulated with												
Included		15B Shower 16 Change Room	Mechanical Walls	Duct Work Interior Walls	White Duct Mastic Block Wall	High High	No No	Yes No	No No	Good Good	suspect insulation.					+					1		
Included	M 1	16 Change Room	Floor	Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good													
Included	M 1	16 Change Room	Ceiling	Ceiling	Metal Deck	High		No N/A		Good													
Included	M 1	16 Change Room 16 Change Room	Ceiling Space Doors	Ceiling Space Regular Door	N/A Non Suspect Door	N/A High		N/A No		N/A Good													
											Bare or insulated with fibreglass	5											
Included	M 1	16 Change Room	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.					-				_	1		
Included	M 1	16 Change Room	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.												
Included	M 11	16A Washroom	Walls	Interior Walls	Block Wall	High	No	No	No	Good													
		I6A Washroom I6A Washroom	Floor	Floor	1'x2' Black Floor Tile Metal Deck	High	No		No	Good													
		I6A Washroom I6A Washroom	Ceiling Ceiling Space	Ceiling Ceiling Space	Metal Deck N/A	High N/A		No N/A	No N/A	Good N/A	No ceiling space present										1		
Included	M 11	I6A Washroom	Doors	Regular Door	Non Suspect Door	High		No	No	Good	Non-suspect door.												
Included	M 11	I6A Washroom	Mechanical	Pining	Metal Pipes	High	No	No	No	Good	Bare or insulated with fibreglass and PVC fittings.	s											
Included			weenanical	Piping	motai ripes	nign	UNI	UNU	INU	9000	Duct work not insulated with												
Included		16A Washroom	Mechanical	Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation.												
		16B Shower 16B Shower	Walls Walls	Interior Walls Interior Walls	Ceramic Tile (Layer 1) Block Wall (Layer 2)	High High	No	No No	No No	Good Good								_					
	M 11	16B Shower	Floor	Floor	Ceramic Tile	High	No	No	No	Good													
Included		16B Shower	Floor	Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good													
Included Included							No	No	No	Good	1												
Included Included Included	M 11	16B Shower	Ceiling	Ceiling Ceiling Space	Metal Deck N/A	High N/A		N/A	N/A	N/A	No ceiling space present								1			• • •	
Included Included Included Included	M 11 M 11	16B Shower 16B Shower	Ceiling Ceiling Space		N/A	N/A	N/A	N/A		N/A	Bare or insulated with fibreglass	5											
Included Included Included	M 11 M 11	16B Shower	Ceiling					N/A No	N/A No	N/A Good		5											

								Duct work not insulated with									
Included M 116B Shower	Mechanical Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation.									
Included M 116B Shower	Miscellaneous Firestop	White Firestop	High	No	Yes	No	Good	Block wall shared with Room									
Included M 117 Change Room	Walls Interior Walls	Block Wall	High	No	No	No	Good	118 was observed to be solid.									
Included M 117 Change Room	Floor Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good			 					1		
Included M 117 Change Room	Ceiling Ceiling	Metal Deck	High	No	No	No	Good										
Included M 117 Change Room	Ceiling Space Ceiling Space	N/A	N/A	N/A	N/A	N/A	N/A	No ceiling space present									
Included M 117 Change Room	Doors Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door.									
Included M 117 Change Room	Mechanical Piping	Drain Lines	High	No	No	No	Good	Drain lines not insulated and nc suspect packing observed.									
Included M 117 Change Room	Mechanical Piping	Drain Lines	High	INO	NO	INO	Good	Bare or insulated with fibreglass		 	ł _ ł					 	
Included M 117 Change Room	Mechanical Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.									
	Frig							Duct work not insulated with									
Included M 117 Change Room	Mechanical Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation.									
Included M 117 Change Room	Miscellaneous Firestop	White Firestop	High	No	Yes	No	Good										
Included M 117A Washroom	Walls Interior Walls	Block Wall 1'x2' Black Floor Tile	High	No	No	No	Good			 						 	
Included M 117A Washroom Included M 117A Washroom	Floor Floor	1'x2' Black Floor Tile Metal Deck	High	No No	Yes No	No No	Good Good									 -	
Included M 117A Washroom	Ceiling Ceiling Ceiling Space Ceiling Space	N/A	High N/A	N/A	N/A	N/A	N/A	No ceiling space present		 							
Included M 117A Washroom	Doors Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door.		 					1	 -	
								Bare or insulated with fibreglass					i	1			
Included M 117A Washroom	Mechanical Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.									
								Duct work not insulated with									
Included M 117A Washroom	Mechanical Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation.		 						 	
Included M 117B Shower Included M 117B Shower	Walls Interior Walls Walls Interior Walls	Ceramic Tile (Layer 1) Block Wall (Layer 2)	High	No No	No	No No	Good Good									 -	
Included M 117B Shower	Floor Floor	Ceramic Tile	High High	No	No	No	Good										
Included M 117B Shower	Floor Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good										
Included M 117B Shower	Ceiling Ceiling	Metal Deck	High	No	No	No	Good										
Included M 117B Shower	Ceiling Space Ceiling Space	N/A	N/Ă	N/A	N/A	N/A	N/A	No ceiling space present									
				I T				Bare or insulated with fibreglass									
Included M 117B Shower	Mechanical Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.									
Included M 117B Shower	Mechanical Duct Work	White Duct Mastic	High	No	Yes	No	Good	Duct work not insulated with suspect insulation.									
Included M 117B Shower	Miscellaneous Firestop	White Firestop	High	No	Yes	No	Good										
			g	1 1			2000	Block wall shared with Room									
Included M 118 Change Room	Walls Interior Walls	Block Wall	High	No	No	No	Good	117 was observed to be solid.									
Included M 118 Change Room	Floor Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good										
Included M 118 Change Room	Ceiling Ceiling	Metal Deck	High	No	No	No	Good										
Included M 118 Change Room Included M 118 Change Room	Ceiling Space Ceiling Space	N/A Non Support Door	N/A High	N/A	N/A	N/A	N/A	No ceiling space present		 						 	
Included M 118 Change Room	Doors Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door. Drain lines not insulated and nc									
Included M 118 Change Room	Mechanical Piping	Drain Lines	High	No	No	No	Good	suspect packing observed.									
			, in the second s					Bare or insulated with fibreglass									
Included M 118 Change Room	Mechanical Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.									
								Duct work not insulated with									
Included M 118 Change Room	Mechanical Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation.		 						 	
Included M 118 Change Room Included M 118A Washroom	Miscellaneous Firestop Walls Interior Walls	White Firestop Block Wall	High	No No	Yes No	No No	Good			 						 	
Included M 118A Washroom	Floor Floor	1'x2' Black Floor Tile	High High	No	Yes	No	Good										
Included M 118A Washroom	Ceiling Ceiling	Metal Deck	High	No	No	No	Good	1 1									
Included M 118A Washroom	Ceiling Space Ceiling Space	N/A	N/A	N/A	N/A	N/A	N/A	No ceiling space present									
Included M 118A Washroom	Doors Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door.									
Included M 118A Washroom							<u> </u>	Bare or insulated with fibreglass									
Included M 118A Washroom	Mechanical Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings. Duct work not insulated with		 						 	
Included M 118A Washroom	Mechanical Duct Work	White Duct Mastic	High	No	Yes	No	Good	suspect insulation.									
Included M 118B Shower	Walls Interior Walls	Ceramic Tile (Layer 1)	High	No	No	No	Good										
Included M 118B Shower	Walls Interior Walls	Block Wall (Layer 2)	High	No	No	No	Good										
Included M 118B Shower	Floor Floor	Ceramic Tile	High	No	No	No	Good										
Included M 118B Shower	Floor Floor	1'x2' Black Floor Tile	High	No	Yes	No	Good									 	
Included M 118B Shower Included M 118B Shower	Ceiling Ceiling Ceiling Space Ceiling Space	Metal Deck N/A	High N/A	No N/A	No N/A	No N/A	Good N/A	No ceiling space present								 -	
Included IN TISE Shower	Celling Space Celling Space	IVA	11/75	IN/A	IN/A	10/A	IV/A	Bare or insulated with fibreglass									
Included M 118B Shower	Mechanical Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.									
			Č.					Duct work not insulated with									
Included M 118B Shower	Mechanical Duct Work	White Duct Mastic	High		Yes	No	Good	suspect insulation.								1 1	
Included M 118B Shower Included M 119 Storage/Utility Room				No													
Included M 119 Storage/Utility Room	Miscellaneous Firestop	White Firestop	High	No	Yes	No	Good					[					
	m Walls Interior Walls	Block Wall	High High	No No	Yes No	No No	Good Good										
Included M 119 Storage/Utility Room	m Walls Interior Walls m Floor Floor		High High High	No No No	Yes No No	No	Good Good Good										
Included M 119 Storage/Utility Room	m Walls Interior Walls m Floor Floor m Ceiling Ceiling	Block Wall Concrete	High High	No No	Yes No No No	No No No No	Good Good	No ceiling space present									
Included M 119 Storage/Utility Room Included M 119 Storage/Utility Room	m Walls Interior Walls m Floor Floor m Ceiling Ceiling m Ceiling Space Ceiling Space	Block Wall Concrete Metal Deck	High High High High High	No No No	Yes No No No	No No No No	Good Good Good Good	Non-suspect door.									
Included M 119 Storage/Utility.Room Included M 119 Storage/Utility.Room Included M 119 Storage/Utility.Room Included M 119 Storage/Utility.Room	m Walls Interior Walls m Floor Floor m Ceiling Ceiling m Ceiling Space Ceiling Space m Doors Regular Door	Block Wall Concrete Metal Deck N/A Non Suspect Door	Hiğh High High High N/A High	No No No N/A No	Yes No No N/A No	No No No N/A No	Good Good Good N/A Good	Non-suspect door. Bare or insulated with fibreglass									
Included M 119 Storage/Utility Room Included M 119 Storage/Utility Room Included M 119 Storage/Utility Room	m Walls Interior Walls m Floor Floor m Ceiling Ceiling m Ceiling Space Ceiling Space m Doors Regular Door	Block Wall Concrete Metal Deck N/A	High High High High N/A	No No No N/A	Yes No No No N/A	No No No N/A	Good Good Good Good N/A	Non-suspect door. Bare or insulated with fibreglass and PVC fittings.									
Included M 119 Storage/Utility Room Included M 119 Storage/Utility Room Included M 119 Storage/Utility Room Included M 119 Storage/Utility Room Included M 119 Storage/Utility Room	m Walls Interior Walls m Floor Floor m Ceiling Ceiling m Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Piping	Block Wall Concrete Metal Deck N/A Non Suspect Door Metal Pipes	High High High High N/A High High	No No No N/A No No	Yes No No N/A No No	No No No N/A No No	Good Good Good N/A Good Good	Non-suspect door. Bare or insulated with fibreglass and PVC fittings. Duct work not insulated with									
Included M 119 Storage/Utility.Room Included M 119 Storage/Utility.Room	m Walls Interior Walls m Floor Floor m Ceiling Ceiling m Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Piping	Block Wall Concrete Metal Deck N/A Non Suspect Door	Hiğh High High High N/A High	No No No N/A No	Yes No No N/A No No Yes	No No No N/A No	Good Good Good N/A Good	Non-suspect door. Bare or insulated with fibreglass and PVC fittings.									
Included M 119 Storage/Utility.Room Included M 120 Storage.Room Included M 120 Storage.Room	m Walls Interior Walls m Floor Floor m Ceiling Ceiling Space Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor	Block Wall Concrete Metal Deck N/A Non Suspect Door Metal Pipes White Duct Mastic Block Wall Concrete	High High High High N/A High High High High High	No No No N/A No No No No	Yes No No No No No Yes No No	No No No N/A No No No No	Good Good Good N/A Good Good Good Good Good	Non-suspect door. Bare or insulated with fibreglass and PVC fittings. Duct work not insulated with									
Included         M         119         Storage/Utility Room           Included         M         120         Storage/Room           Included         M         120         Storage Room           Included         M         120         Storage Room           Included         M         120         Storage Room	m Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Ceiling Ceiling m Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Ceiling	Block Wall Concrete Metal Deck N/A Non Suspect Door Metal Pipes White Duct Mastic Block Wall Concrete Metal Deck	High High High High High High High High	No	Yes No No No No No Yes No No No	No No No N/A No No No No No	Good Good Good N/A Good Good Good Good Good	Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulation.									
Included M 119 Storage/Utility.Room Included M 120 Storage.Room Included M 120 Storage.Room	m Walls Interior Walls m Floor Floor m Ceiling Ceiling Space Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor	Block Wall Concrete Metal Deck N/A Non Suspect Door Metal Pipes White Duct Mastic Block Wall Concrete	High High High High N/A High High High High High	No No No N/A No No No No	Yes No No No No No Yes No No No	No No No No No No No No No No	Good Good Good N/A Good Good Good Good Good	Non-suspect door. Bare or insulated with fibreglass and PVC fittings. Duct work not insulated with									
Included         M         119         Storage/Utility Room           Included         M         120         Storage/Room           Included         M         120         Storage Room           Included         M         120         Storage Room           Included         M         120         Storage Room	m Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Ceiling Ceiling m Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Ceiling	Block Wall Concrete Metal Deck N/A Non Suspect Door Metal Pipes White Duct Mastic Block Wall Concrete Metal Deck	High High High High High High High High	No	Yes No No No No No Yes No No No	No No No N/A No No No No No	Good Good Good N/A Good Good Good Good Good	Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulation.           No ceiling space present									
Included         M         119         Storage/Utility Room           Included         M         120         Storage/Room           Included         M         120         Storage Room           Included         M         120         Storage Room           Included         M         120         Storage Room	m Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Ceiling Ceiling m Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Ceiling	Block Wall Concrete Metal Deck N/A Non Suspect Door Metal Pipes White Duct Mastic Block Wall Concrete Metal Deck	High High High High High High High High	No	Yes No No No No No Yes No No No	No No No N/A No No No No No	Good Good Good N/A Good Good Good Good Good	Non-suspect door.       Bare or insulated with fibreglass and PVC fittings.       Duct work not insulated with suspect insulation.       No ceiling space present       Block wall observed to be									
Included M 119 Storage/Utility Room Included M 120 Storage Room Included M 120 Storage Room Included M 120 Storage Room Included M 120 Storage Room	m Walls Interior Walls m Floor Floor Floor Ceiling Ceiling Ceiling m Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Ceiling Ceiling Space	Block Wall Concrete Metal Deck N/A Non Suspect Door Metal Pipes White Duct Mastic Block Wall Concrete Metal Deck N/A	High High High High N/A High High High High High N/A	No           No           No           NA           No	Yes No No N/A No No Yes No No No No No	No No No No No No No No No No	Good Good Good Good Good Good Good Good	Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulation.           No ceiling space present           Block wall observed to be hollow adjacent to the entrance.           Block wall made with Room									
Included M 119 Storage/Utility Room Included M 120 Storage Room	m Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Space Ceiling Space Ceiling Space Mechanical Piping Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Space Ceiling Space Walls Interior Walls	Block Wall Concrete Metal Deck N/A Non Suspect Door Metal Pipes White Duct Mastic Block Wall Concrete Metal Deck N/A Block Wall	High High High High High High High High	No           No           No           N/A           No	Yes No No N/A No No Yes No No No No No N/A	No	Good Good N/A Good Good Good Good Good N/A N/A	Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulated with No ceiling space present           No ceiling space present           Block wall observed to be hollow adjacent to the entrance.									
Included M 119 Storage/Utility Room Included M 120 Storage Room	m Walls Interior Walls m Floor Floor Ceiling Ceiling Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Space Walls Interior Walls Interior Walls Floor	Block Wall Concrete Concrete N/A Watal Deck N/A Non Suspect Door Metal Pipes White Duct Mastic Block Wall Concrete Block Wall Concrete Block Wall Concrete	High High High N/A High High High High High High High High	No	Yes No No No No No No No No No N/A No No No No	No	Good Good Good N/A Good Good Good Good Good Good N/A Good Good Good Good	Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulation.           No ceiling space present           Block wall observed to be hollow adjacent to the entrance.           Block wall made with Room									
Included M 119 Storage/Utility Room Included M 120 Storage Room	m Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Space Ceiling Space Ceiling Space Mechanical Piping Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Walls Interior Walls Floor Floor Ceiling	Block Wall Concrete Metal Deck N/A Non Suspect Door Metal Pipes White Duct Mastic Block Wall Concrete Metal Deck N/A Block Wall Concrete Metal Deck Metal Deck	High High High N/A High High High High High High High High	No           No           No           NA           No	Yes No No No No No Yes No No No No No No No No No No	No	Good Good Good N/A Good Good Good Good N/A Good Good Good Good Good Good	Non-suspect door.       Bare or insulated with fibreglass and PVC fittings.       Duct work not insulated with suspect insulation.       No ceiling space present       Block wall observed to be hollow adjacent to the entrance.       Block wall anared with Room 119 was observed to be solid.									
Included M 119 Storage/Utility Room Included M 120 Storage Room	m Walls Interior Walls m Floor Floor m Ceiling Ceiling Ceiling Space m Doors Regular Door m Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Space Eloor Floor Ceiling Space Eloor Ceiling Space Eloor Ceiling Space Eloor Ceiling Space Eloor Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Space Ceiling Space Ceiling Space Eloor Ceiling Space	Block Wall Concrete Metal Deck N/A Non Suspect Door Metal Pipes White Duct Mastic Block Wall Concrete Metal Deck N/A Block Wall Concrete Metal Deck N/A	High High High N/A High High High High High High High High	No	Yes           No           No           No           N/A           No           No           Yes           No	No	Good Good Good N/A Good Good Good Good Good N/A Good Good N/A	Non-suspect door.       Bare or insulated with fibreglass and PVC fittings.       Duct work not insulated with suspect insulation.       No ceiling space present       Block wall observed to be hollow adjacent to the entrance.       Block wall anared with Room 119 was observed to be solid.									
Included M 119 Storage/Utility Room Included M 120 Storage Room Included M 121 Storage Room Included M 121 Alcove Included M 122 Mechanical Room	m Walls Interior Walls m Floor Floor Floor Ceiling Ceiling Caling Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Space Ceiling Space Walls Interior Walls Floor Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Floor Floor Ceiling Ceiling Ceiling Ceiling Floor Floor Ceiling Ceiling Floor Floor Ceiling Ceiling Floor Floor Ceiling Ceiling Floor Ceiling Ceiling Floor Ceiling Ceiling Floor Ceiling Ceiling Floor Ceiling Floor Ceiling Floor Ceiling Floor Ceiling Ceiling Ceiling Ceiling Floor Ceiling Ceiling Ceiling Ceiling Floor Ceiling Ceiling Ceiling Floor Ceiling Ceiling Floor Ceiling Ceiling Floor Ceiling Ceiling Ceiling Floor Ceiling Ceiling Floor Ceiling Ceiling Floor Ceiling Ceiling Floor Ceiling Ceiling Floor Ceiling Floor Ceiling Floor Ceiling Floor Ceiling Floor Ceiling Ceiling Floor Ceiling Ceiling Floor Ceiling Floor Ceiling Ceiling Floor Floor Ceiling Floor Ceiling Floor Floor Ceiling Floor Floor Floor Ceiling Floor	Block Wall Concrete Metal Deck N/A Non Suspect Door Metal Pipes White Duct Mastic Block Wall Concrete Metal Deck N/A Block Wall Concrete Metal Deck Metal Deck	High High High N/A High High High High High High High High	No	Yes           No           No           N/A           No           Yes           No	No	Good Good Good N/A Good Good Good Good N/A Good Good Good Good Good Good	Non-suspect door.       Bare or insulated with fibreglass and PVC fittings.       Duct work not insulated with suspect insulation.       No ceiling space present       Block wall observed to be hollow adjacent to the entrance.       Block wall anared with Room 119 was observed to be solid.									
Included M 119 Storage/Utility Room Included M 120 Storage Room Included M 121 Alcove Included M 121 Alcove Included M 121 Alcove Included M 121 Alcove Included M 122 Mechanical Room Included M 122 Mechanical Room	m Walls Interior Walls m Floor Floor Floor Ceiling Ceiling Ceiling m Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Ceiling Space Valls Interior Walls Floor Floor Ceiling Ceiling Ceiling Ceiling Ceiling Space Walls Interior Walls Valls Interior Valls	Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Concrete         Metal Cadding	High High High High N/A High High High High High High High High	No	Yes No No N/A No No Yes No No No No N/A No No No No No No No No	No	Good Good Good N/A Good Good Good Good N/A Good Good Good Good Good Good Good Goo	Non-suspect door.       Bare or insulated with fibreglass and PVC fittings.       Duct work not insulated with suspect insulation.       No ceiling space present       Block wall observed to be hollow adjacent to the entrance.       Block wall anared with Room 119 was observed to be solid.									
Included         M         119         Storage/Utility Room           Included         M         120         Storage Room           Included         M         121         Alcove           Included         M         121         Alcove           Included         M         121         Alcove           Included         M         122         Mechanical Room           Included         M         122         Mechanical Room           Included         M	m Walls Interior Walls m Floor Floor Floor Ceiling Ceiling Space Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Ceiling Space Walls Interior Walls Floor Ceiling Ceiling Space Walls Interior Walls Interior Walls Floor Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Walls Interior Walls Floor Walls Interior Walls Floor Floor Floor Walls Floor F	Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Wood         Metal Cladding         Concrete	High High High N/A High High High High High High High High	No           No           No           No           NA           No	Yes           No           No           No           N/A           No           Yes           No           No           Yes           No	No	Good Good Good N/A Good Good Good Good N/A Good Good Good N/A Good Good Good Good Good Good Good Goo	Non-suspect door.       Bare or insulated with fibreglass and PVC fittings.       Duct work not insulated with suspect insulation.       No ceiling space present       Block wall observed to be hollow adjacent to the entrance.       Block wall anared with Room 119 was observed to be solid.									
Included M 119 Storage/Utility Room Included M 120 Storage Room Included M 121 Alcove Included M 121 Alcove Included M 121 Alcove Included M 122 Mechanical Room Included M 122 Mechanical Room Included M 122 Mechanical Room Included M 122 Mechanical Room Included M 122 Mechanical Room	m Walls Interior Walls m Floor Floor Ceiling Ceiling Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Ceiling Space Ceiling Ceil	Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Wood         Metal Cladding         Concrete         Metal Deck         N/A         Block Wall         Wood         Metal Cladding         Concrete         Metal Deck         N/A         Block Wall         Wood         Metal Cladding         Concrete         Metal Deck	High High High N/A High High High High High High High High	No	Yes           No           No           No           N/A           No           Yes           No           No           Yes           No	No	Good Good Good N/A Good Good Good Good Good Good Good Goo	Non-suspect door.       Bare or insulated with fibreglass and PVC fittings.       Duct work not insulated with suspect insulation.       No ceiling space present       Block wall observed to be hollow adjacent to the entrance.       Block wall anared with Room 119 was observed to be solid.									
Included         M         119         Storage/Utility Room           Included         M         120         Storage/Utility Room           Included         M         120         Storage Room           Included         M         121         Alcove           Included         M         121         Alcove           Included         M         122         Mechanical Room           Included         M         122         Mechanical Room           Included         M         122         Mechanical Room           Include	m Walls Interior Walls m Floor Floor Floor Ceiling Ceiling Space Ceiling Space Ceiling Space m Doors Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Ceiling Ceiling Space Walls Interior Walls Floor Floor Ceiling Ceiling Space Walls Interior Walls Floor Floor Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Space Valls Interior Walls Floor Floor Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Floor Floor Floor Ceiling Ceilin	Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         NYA         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Wood         Metal Cladding         Concrete         Metal Cladding         Concrete         Metal Deck         Weat         Weat         Metal Cladding         Concrete         Metal Deck         Wood	High High High N/A High High High High High High High High	No	Yes           No           No           No           N/A           No           Yes           No           Yes           No	No	Good Good Good N/A Good Good Good Good Good Good Good Goo	Non-suspect door.       Bare or insulated with fibreglass and PVC fittings.       Duct work not insulated with suspect insulation.       No ceiling space present       Block wall observed to be hollow adjacent to the entrance.       Block wall observed to be solid.       119 was observed to be solid.       No ceiling space present       In the entrance.       Block wall space be solid.       In the entrance.       Block wall space be solid.       In the entrance.       Block wall space be solid.			Image: Constraint of the sector of						
Included         M         119         Storage/Utility Room           Included         M         120         Storage Room           Included         M         121         Alcove           Included         M         121         Alcove           Included         M         121         Alcove           Included         M         122         Mechanical Room           Included         M         122         Mechanical Room           Included         M         122         Mechanical Room           Included	m Walls Interior Walls Floor Floor Ceiling Space Ceiling Space Mechanical Piping Mechanical Piping Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Space Ceiling Space Walls Interior Walls Floor Ceiling Ceiling Ceiling Ceiling Space Walls Interior Walls Floor Floor Ceiling Ceil	Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Wood         Metal Deck         Wood         N/A	High High High N/A High High High High High High High High	No           No	Yes           No           No           No           N/A           No           Yes           No           No	No	Good Good Good N/A Good Good Good Good Good N/A Good Good N/A Good Good Good Good N/A Good Good N/A	Non-suspect door.       Bare or insulated with fibreglass and PVC fittings.       Duct work not insulated with suspect insulated with suspect insulation.       No ceiling space present       Block wall observed to be hollow adjacent to the entrance.       Block wall shared with Room 119 was observed to be solid.       No ceiling space present       No ceiling space present									
Included         M         119         Storage/Utility Room           Included         M         120         Storage/Utility Room           Included         M         120         Storage Room           Included         M         121         Alcove           Included         M         121         Alcove           Included         M         122         Mechanical Room           Included         M         122         Mechanical Room           Included         M         122         Mechanical Room           Include	m Walls Interior Walls Floor Floor Ceiling Space Ceiling Space Mechanical Piping Mechanical Piping Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Space Ceiling Space Walls Interior Walls Floor Ceiling Ceiling Ceiling Ceiling Space Walls Interior Walls Floor Floor Ceiling Ceil	Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         NYA         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Wood         Metal Cladding         Concrete         Metal Cladding         Concrete         Metal Deck         Weat         Weat         Metal Cladding         Concrete         Metal Deck         Wood	High High High N/A High High High High High High High High	No           No	Yes           No           No           No           N/A           No           Yes           No           No	No	Good Good Good N/A Good Good Good Good Good Good Good Goo	Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulated with suspect insulated with suspect insulated.           No ceiling space present           Block wall observed to be hollow adjacent to the entrance.           Block wall shared with Room 119 was observed to be solid.           No ceiling space present									
Included         M         119         Storage/Utility Room           Included         M         120         Storage Room           Included         M         121         Alcove           Included         M         121         Alcove           Included         M         121         Alcove           Included         M         122         Mechanical Room           Included         M         122         Mechanical Room           Included         M         122         Mechanical Room           Included         M </th <th>m Walls Interior Walls m Floor Floor m Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Space Ceiling Ceiling</th> <th>Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Wood         Metal Deck         Wood         N/A         N/A         N/A         Metal Deck         Wood         Metal Deck         Wood         N/A         Non Suspect Door         Metal Pipes</th> <th>High High High N/A High High High High High High High High</th> <th>No           No           No</th> <th>Yes           No           No           No           N/A           No           Yes           No           No</th> <th>No           No           No</th> <th>Good Good Good N/A Good Good Good Good Good Good Good Goo</th> <th>Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulated with suspect insulated with suspect insulation.           No ceiling space present           Block wall observed to be hollow adjacent to the entrance.           Block wall shared with Room 119 was observed to be solid.           No ceiling space present           No ceiling space present           No ceiling space present           No ceiling space present           State of insulated with fibreglass and PVC fittings.</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	m Walls Interior Walls m Floor Floor m Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Space Ceiling	Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Wood         Metal Deck         Wood         N/A         N/A         N/A         Metal Deck         Wood         Metal Deck         Wood         N/A         Non Suspect Door         Metal Pipes	High High High N/A High High High High High High High High	No	Yes           No           No           No           N/A           No           Yes           No	No	Good Good Good N/A Good Good Good Good Good Good Good Goo	Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulated with suspect insulated with suspect insulation.           No ceiling space present           Block wall observed to be hollow adjacent to the entrance.           Block wall shared with Room 119 was observed to be solid.           No ceiling space present           No ceiling space present           No ceiling space present           No ceiling space present           State of insulated with fibreglass and PVC fittings.									
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Included         M         119         Storage/Utility Room           Included         M         120         Storage Room           Included         M         121         Alcove           Included         M         121         Alcove           Included         M         122         Mechanical Room           Included	m Walls Interior Walls m Floor Floor m Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Ceiling Ceiling Space Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Space Ceiling	Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Wood         Metal Deck         Wood         N/A         N/A         N/A         Metal Deck         Wood         Metal Deck         Wood         N/A         Non Suspect Door         Metal Pipes	High High High N/A High High High High High High High High	No	Yes           No           No           No           N/A           No           Yes           No	No	Good Good Good N/A Good Good Good Good Good Good Good Goo	Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulated with suspect insulation.           No ceiling space present           Block wall observed to be hollow adjacent to the entrance.           Block wall shared with Room 119 was observed to be solid.           No ceiling space present           No ceiling space present           No ceiling space present           No ceiling space present           State of the space           Block wall observed to be solid.           State of the space           No ceiling space present           No ceiling space present           State of the space           State of the space									
Included         M         119         Storage/Utility Room           Included         M         120         Storage/Room           Included         M         120         Storage Room           Included         M         121         Alcove           Included         M         121         Alcove           Included         M         122         Mechanical Room           Included         M         122         Mechanical Room           Included         M         122         Mechanical Room           Included	m Walls Interior Walls m Floor Floor Floor Ceiling Ceiling Ceiling m Ceiling Space Ceiling Space m Doors m Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling C	Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         NYA         Block Wall         Concrete         Metal Deck         NYA         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Wood         Metal Cladding         Concrete         Metal Cladding         Concrete         Metal Deck         Wood         N/A         Non Suspect Door         Metal Pipes         White Firestop	High High High High High High High High	No	Yes No No N/A No No No No No No No No No No No No No	No	Good Good Good N/A Good Good Good Good N/A Good Good Good N/A Good Good Good Good Good Good Good Goo	Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulated with suspect insulated with suspect insulated with suspect insulated with suspect insulated with Room           No ceiling space present           Block wall observed to be hollow adjacent to the entrance. Block wall shared with Room           119 was observed to be solid.           No ceiling space present           No suspect door           Bare or insulated with fibreglass and PVC fittings.           Bulk         A-01           Tanks and chillers not insulated	18-Apr-17								
Included         M         119         Storage/Utility Room           Included         M         120         Storage Room           Included         M         121         Alcove           Included         M         121         Alcove           Included         M         122         Mechanical Room           Included <th>m Walls Interior Walls Floor Floor Ceiling Space Ceiling Space Mechanical Piping Valls Interior Walls Floor Floor Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Ceiling Space Valls Interior Walls Floor Ceiling Ceiling Space Valls Interior Walls Floor Ceiling Ceiling Space Valls Interior Walls Floor Floor Ceiling Ceiling Space Ceiling Space Ceiling Space Valls Interior Walls Floor Floor Ceiling Ceiling Ceiling Space Valls Interior Walls Floor Floor Ceiling Ceiling Space Valls Interior Walls Floor Floor Ceiling Ceili</th> <th>Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Concrete         Metal Deck         Wood         Metal Deck         Wood         N/A         Non Suspect Door         Metal Pipes         White Firestop         Tanks and Chiller Insulation</th> <th>High High High N/A High High High High High High High High</th> <th>No           No           No</th> <th>Yes           No           No           No           No           Yes           No           No</th> <th>No           No           No</th> <th>Good Good Good Sood N/A Good Good Good Good Good Good Good Goo</th> <th>Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulated with suspect insulation.           No ceiling space present           Block wall observed to be hollow adjacent to the entrance.           Block wall shared with Room 119 was observed to be solid.           No ceiling space present           No ceiling space present           No ceiling space present           No ceiling space present           State of the space           Block wall observed to be solid.           State of the space           No ceiling space present           No ceiling space present           State of the space           State of the space</th> <th>D16 18-Apr-17</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	m Walls Interior Walls Floor Floor Ceiling Space Ceiling Space Mechanical Piping Valls Interior Walls Floor Floor Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Ceiling Space Valls Interior Walls Floor Ceiling Ceiling Space Valls Interior Walls Floor Ceiling Ceiling Space Valls Interior Walls Floor Floor Ceiling Ceiling Space Ceiling Space Ceiling Space Valls Interior Walls Floor Floor Ceiling Ceiling Ceiling Space Valls Interior Walls Floor Floor Ceiling Ceiling Space Valls Interior Walls Floor Floor Ceiling Ceili	Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Concrete         Metal Deck         Wood         Metal Deck         Wood         N/A         Non Suspect Door         Metal Pipes         White Firestop         Tanks and Chiller Insulation	High High High N/A High High High High High High High High	No	Yes           No           No           No           No           Yes           No           No	No	Good Good Good Sood N/A Good Good Good Good Good Good Good Goo	Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulated with suspect insulation.           No ceiling space present           Block wall observed to be hollow adjacent to the entrance.           Block wall shared with Room 119 was observed to be solid.           No ceiling space present           No ceiling space present           No ceiling space present           No ceiling space present           State of the space           Block wall observed to be solid.           State of the space           No ceiling space present           No ceiling space present           State of the space           State of the space	D16 18-Apr-17								
Included         M         119         Storage/Utility Room           Included         M         120         Storage Room           Included         M         121         Alcove           Included         M         121         Alcove           Included         M         122         Mechanical Room           Included	m Walls Interior Walls m Floor Floor Floor Ceiling Ceiling Ceiling m Ceiling Space Ceiling Space m Doors m Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling C	Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         NYA         Block Wall         Concrete         Metal Deck         NYA         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Wood         Metal Cladding         Concrete         Metal Cladding         Concrete         Metal Deck         Wood         N/A         Non Suspect Door         Metal Pipes         White Firestop	High High High N/A High High High High High High High High	No	Yes           No           No           No           N/A           No           Yes           No           No	No	Good Good Good N/A Good Good Good Good N/A Good Good Good N/A Good Good Good Good Good Good Good Goo	Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulated with suspect insulated with suspect insulated with suspect insulated with suspect insulated with Room           No ceiling space present           Block wall observed to be hollow adjacent to the entrance. Block wall shared with Room           119 was observed to be solid.           No ceiling space present           No suspect door           Bare or insulated with fibreglass and PVC fittings.           Bulk         A-01           Tanks and chillers not insulated	D16 18-Apr-17								
Included M 119 Storage/Utility Room Included M 120 Storage Room Included M 121 Alcove Included M 121 Alcove Included M 121 Alcove Included M 122 Mechanical Room Included M 122 Mechanical Room	m Walls Interior Walls Floor Floor Mechanical Direction Walls Floor Eloor Walls Direction Ceiling Space Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling	Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Concrete         Metal Cladding         Concrete         Metal Cladding         Concrete         Metal Deck         N/A         Nood         N/A         Non Suspect Door         Metal Pipes         White Firestop         Tanks and Chiller Insulation         Block Wall	High High High N/A High High High High High High High High	No           No	Yes           No           No           No           N/A           No           Yes           No           No	No	Good Good Good N/A Good Good Good Good Good Good Good Goo	Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulated with suspect insulation.           No ceiling space present           Block wall observed to be hollow adjacent to the entrance.           Block wall shared with Room 119 was observed to be solid.           No ceiling space present           Stare or insulated with fibreglass and PVC fittings.           Bulk         A-01           Tanks and chillers not insulated with suspect insulation.									
Included M 119 Storage/Utility Room Included M 120 Storage Room Included M 121 Alcove Included M 121 Alcove Included M 122 Mechanical Room Included M 123 Garage Included M 123 Garage Included M 123 Garage	m Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Space Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Space Doors Regular Door Mechanical Pippa Miscellaneous Firestop Walls Interior Walls Valls Interior Walls Valls Interior Walls Valls Interior Valls Valls Valls Interior Valls	Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         NYA         Block Wall         Concrete         Metal Deck         NYA         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Wood         Metal Cladding         Concrete         Metal Cladding         Concrete         Metal Cladding         Concrete         Metal Cladding         Concrete         Metal Pipes         Whood         N/A         Non Suspect Door         Metal Pipes         White Firestop         Tanks and Chiller Insulation         Block Wall         Metal Cladding         Concrete	High High High High High High High High	No           No	Yes           No           No           No           No           Yes           No           Yes           No	No           No	Good Good Good Good N/A Good Good Good Good N/A Good Good N/A Good Sood N/A Good Good N/A Good Good Good Good Sood Sood Sood Sood	Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulated with suspect insulated with suspect insulated with suspect insulated with suspect insulated with Room           Block wall observed to be hollow adjacent to the entrance. Block wall shared with Room           119 was observed to be solid.           No ceiling space present           Block wall observed to door           Bare or insulated with fibreglass and PVC fittings.           Bulk         A-01           Tanks and chillers not insulated with suspect insulation.           Not specifically sampled due to	D16 18-Apr-17								
Included         M         119         Storage/Utility Room           Included         M         120         Storage Room           Included         M         121         Alcove           Included         M         121         Alcove           Included         M         122         Mechanical Room           Included	m Walls Interior Walls m Floor Floor Floor Ceiling Ceiling Space Ceiling Space Ceiling Space m Doors Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor Floor Ceiling Ceiling Ceiling Ceiling Space Valls Interior Walls Floor Floor Ceiling Ceiling Space Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Ceiling Space Valls Interior Walls Valls Interior Walls Valls Interior Walls Valls Interior Walls Floor Floor Ceiling Valls Interior Walls Valls Interior Walls Valls Floor Floor Ceiling Ceili	Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Wood         Metal Cladding         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Firestop         Tanks and Chiller Insulation         Block Wall	High High High High High High High High	No           No	Yes           No           No           No           No           Yes           No           Yes           No	No	Good Good Good Good Sood Good Good Good	Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulated with suspect insulation.           No ceiling space present           Block wall observed to be hollow adjacent to the entrance.           Block wall shared with Room 119 was observed to be solid.           No ceiling space present           Start or insulated with fibreglass and PVC fittings.           Bulk         A-01           Tanks and chillers not insulated with suspect insulation.           Not specifically sampled due to height restriction.	Image: Constraint of the sector of								
Included         M         119         Storage/Utility Room           Included         M         120         Storage Room           Included         M         121         Alcove           Included         M         121         Alcove           Included         M         121         Alcove           Included         M         122         Mechanical Room           Included	m Walls Interior Walls m Floor Floor Floor Ceiling Ceiling Ceiling Space m Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Ceiling Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling C	Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         NYA         Block Wall         Concrete         Metal Deck         NYA         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Wood         Metal Cladding         Concrete         Metal Cladding         Concrete         Metal Cladding         Concrete         Metal Cladding         Concrete         Metal Pipes         Whood         N/A         Non Suspect Door         Metal Pipes         White Firestop         Tanks and Chiller Insulation         Block Wall         Metal Cladding         Concrete	High High High High High High High High	No           No	Yes No No N/A No No Yes No No No No No No No No No No No No No	No           No	Good Good Good Good N/A Good Good Good Good Good Good Good Goo	Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulated with suspect insulation.           No ceiling space present           Block wall observed to be hollow adjacent to the entrance.           Block wall shared with Room 119 was observed to be solid.           No ceiling space present           State of insulated with fibreglass and PVC fittings.           Bulk         A-01           Tanks and chillers not insulated with suspect insulation.           Not specifically sampled due to height restriction.           Not specifically sampled due to height restriction.	Image: state of the s								
Included         M         119         Storage/Utility Room           Included         M         120         Storage Room           Included         M         121         Alcove           Included         M         121         Alcove           Included         M         122         Mechanical Room           Included	m Walls Interior Walls m Floor Floor Floor Ceiling Ceiling Space m Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Ceiling Space Walls Interior Walls Floor Floor Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Ceiling Ceiling Ceiling Walls Interior Walls Floor Floor Ceiling Miscelaneous Firestop Mechanical Tanks and Chiller Walls Floor Floor Ceiling	Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Wood         Metal Cladding         Concrete         Metal Deck         Wood         N/A         Non Suspect Door         Metal Pipes         White Firestop         Tanks and Chiller Insulation         Block Wall         Metal Cladding         Concrete         Drywall Ceiling         N/A	High High High N/A High High High High High High High High	No           No	Yes           No           No           No           No           Yes           No           No	No           No	Good Good Good Good N/A Good Good Good Good N/A Good Good Good Good Good Good Good Goo	Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulated with suspect insulation.           No ceiling space present           Block wall observed to be hollow adjacent to the entrance.           Block wall shared with Room 119 was observed to be solid.           No ceiling space present           State or insulated with fibreglass and PVC fittings.           Bulk         A-01           Tanks and chillers not insulated with suspect insulation.           Not specifically sampled due to height restriction.           Not assessed due to solid ceiling and heights.	D16 18-Apr-17								
Included         M         119         Storage/Utility Room           Included         M         120         Storage/Utility Room           Included         M         120         Storage Room           Included         M         120         Storage Room           Included         M         120         Storage Room           Included         M         121         Alcove           Included         M         121         Alcove           Included         M         121         Alcove           Included         M         122         Mechanical Room           Included	m Walls Interior Walls m Floor Floor Floor Ceiling Ceiling Ceiling Space m Ceiling Space Ceiling Space m Doors Regular Door m Mechanical Piping m Mechanical Duct Work Walls Interior Walls Floor Floor Ceiling Ceiling Ceiling Ceiling Ceiling Space Ceiling Space Walls Interior Walls Floor Floor Ceiling C	Block Wall         Concrete         Metal Deck         N/A         Non Suspect Door         Metal Pipes         White Duct Mastic         Block Wall         Concrete         Metal Deck         NYA         Block Wall         Concrete         Metal Deck         NYA         Block Wall         Concrete         Metal Deck         N/A         Block Wall         Wood         Metal Cladding         Concrete         Metal Cladding         Concrete         Metal Cladding         Concrete         Metal Cladding         Concrete         Metal Pipes         Whood         N/A         Non Suspect Door         Metal Pipes         White Firestop         Tanks and Chiller Insulation         Block Wall         Metal Cladding         Concrete	High High High High High High High High	No           No	Yes           No           No           No           No           Yes           No           No	No           No	Good Good Good Good N/A Good Good Good Good Good Good Good Goo	Non-suspect door.           Bare or insulated with fibreglass and PVC fittings.           Duct work not insulated with suspect insulated with suspect insulation.           No ceiling space present           Block wall observed to be hollow adjacent to the entrance.           Block wall shared with Room 119 was observed to be solid.           No ceiling space present           State or insulated with fibreglass and PVC fittings.           Bulk         A-01           Tanks and chillers not insulated with suspect insulation.           Not specifically sampled due to height restriction.           Not assessed due to solid ceiling and heights.	D16 18-Apr-17								

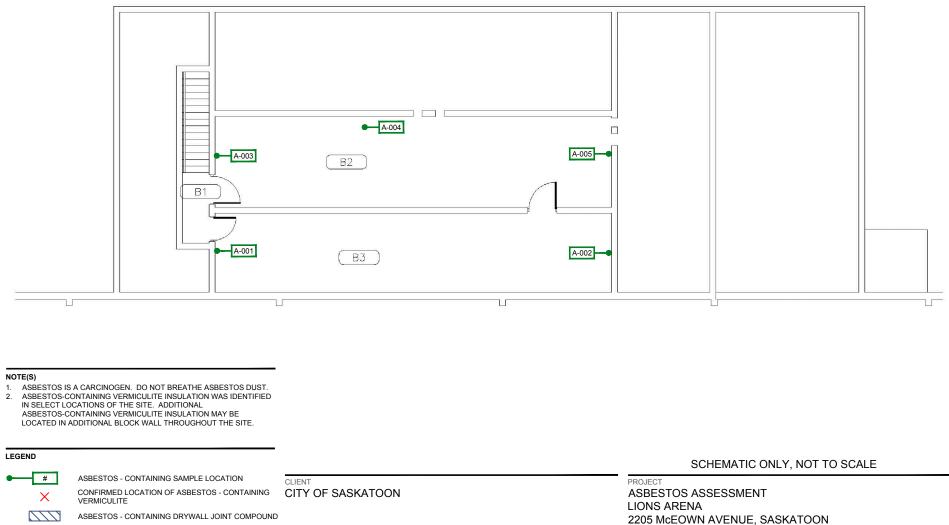
																						Inspect and sample		
					Electrical Panels and							Not sampled due to safety										if scheduled for		
Included		100	Coroan	Electrical	Components	Electrical Panels and Components	High	Ves	No	Potential	Good	concerns.					No	No		Annually	Low	removal.		
Included	M	123	Zamboni Room	Walls	Interior Walls	Block Wall	High	No	No	No	Good	concerns.					INU	INU		Annually	LOW	Ternovai.	 	
Included	IVI	124	Zamboni Room	vvalis	Interior waits	BIOCK Wall	High	INU	INU	INU	Good			A-009;									 	
														A-010;										
														A-011										
														A-012; and										
Included	M			Walls	Interior Walls	Drywall Walls	High	No	Yes	No	Poor		Bulk	A-013	18-Apr-17								 	
Included			Zamboni Room	Walls	Interior Walls	Plastic Panels	High	No	No	No	Good												 	
Included	М	124	Zamboni Room	Floor	Floor	Concrete	High	No	No	No	Good													
												Not specifically sampled due to												
Included	M	124	Zamboni Room	Ceiling	Ceiling	Drywall Ceiling	Low	No	No	No	Good	height restriction.												
												Not assessed due to solid												
Included	M	124	Zamboni Room	Ceiling Space		N/A	N/A	N/A	N/A	N/A	N/A	ceiling and heights.												
Included	М	124	Zamboni Room	Doors	Regular Door	Non Suspect Door	High	No	No	No	Good	Non-suspect door.												
												Bare or insulated with fibreglass												
Included	M	124	Zamboni Room	Mechanical	Piping	Metal Pipes	High	No	No	No	Good	and PVC fittings.												
Included	M	124	Zamboni Room	Mechanical	Duct Work	Grey Duct Mastic	High	No	Yes	No	Good		Bulk	A-015	18-Apr-17									
Included	М	124	Zamboni Room	Miscellaneous	Caulking	White Plastic Panel Caulking	High	No	Yes	No	Good		Bulk	A-014	18-Apr-17									
							Ĭ	1			1	Block wall shared with Room												
Included	м	125	Rink	Walls	Interior Walls	Block Wall	High	No	No	No	Good	119 was observed to be solid.												
Included	M			Walls	Interior Walls	Wood	High	No	No	No	Good				1 1									
Included	M	125		Floor	Floor	Concrete	High	No	No	No	Good									1			 	
Included	M			Floor	Floor	1'x2' Black Floor Tile	High	No	Yes	No	Poor						1 1						 	
Included	M	125		Floor	Floor	Black Floor Mastic	High	No	Yes	No	Good		Bulk	A-028	18-Apr-17					1			 	
Included	M			Floor	Floor	Brown Floor Putty	High	No	Yes	No	Good		Bulk	A-020	18-Apr-17					1			 	
Included	M	125		Floor	Floor	Grey Vinyl Sheet Flooring with White		No	Yes	No	Good		Duik	A-023	10-Api-17					-			 	
Included	M	125		Ceiling	Ceiling	Metal Deck	High	No	No	No	Good												 	
Included	M	125		Ceiling Space		N/A	N/A	N/A	N/A	N/A	N/A	No ceiling space present											 	
Included	IVI	125	RIIR	Celling Space	Celling Space	N/A	IN/A	IN/A	IN/A	IN/A	N/A				<u> </u>		 						 	
Included	м	125	Dist	Mechanical	Disiss	Metal Pipes	High	No	No	No	Const	Bare or insulated with fibreglass and PVC fittings.												
Included	IVI	125	Rink	Mechanical	Piping	Metal Pipes	High	INO	NO	NO	Good	and PVC littings.												
																						Inspect and sample		
		125			Electrical Panels and			Yes	No			Not sampled due to safety					No	No				if scheduled for		
Included	M	120	Rink	Electrical	Components	Electrical Panels and Components	High	100	140	Potential	Good	concerns.					NO	NO		Annually	Low	removal.		
		125		Miscellaneous	e e e e e e e e e e e e e e e e e e e	Black Bleacher Vinyl	High	No	Yes	No	Good		Bulk	A-030	18-Apr-17		 						 	
Included		Exterior		Walls	Exterior Walls	Metal Cladded Walls	High	No	No	No	Good													
Included		Exterior		Walls	Exterior Walls	Block Walls	High	No	No	No	Good													
Included				Miscellaneous	Caulking	White Pipe Penetration Caulking	High	No	Yes	No	Good		Bulk	A-034	18-Apr-17									
Included		Exterior		Miscellaneous		Green Building Caulking	High	No	Yes	No	Good		Bulk	A-035	18-Apr-17									
		Exterior		Miscellaneous		Grey Firestop	High	No	Yes	No	Good		Bulk	A-036	18-Apr-17									
Included	E	Exterior	Exterior	Miscellaneous	Caulking	White Building Caulking	High	No	Yes	No	Good		Bulk	A-037	18-Apr-17									
												Door was locked and access												
												could not be provided.												
												Asbestos-containing vermiculite												
												is suspected to be located in the												
Excluded	M	102	Concession	Entire Room	Entire Room							exterior walls.												
												Access to the entire room was												
												prevented due to materials												
												being stored within the room.												
												Room was assessed from the												
Excluded	м	120	Storage Room	Entire Room	Entire Room							doorway.												
						Ì		1				Not assessed due to												
												accessibility. Located below												
Excluded	м	125	Pipe Chase	Crawlspace	Crawlspace							concrete pads.												
									1			Not assessed due to			1									
Excluded		Exterior	Roof	Exterior Roof	Exterior Roof							accessibility												
2		201101					1		1	1					1				1	1				



# APPENDIX D

Floor Plan





NO ACCESS CONSULTANT
SUSPECTED LOCATION OF ASBESTOS - CONTAINING
VERMICULITE

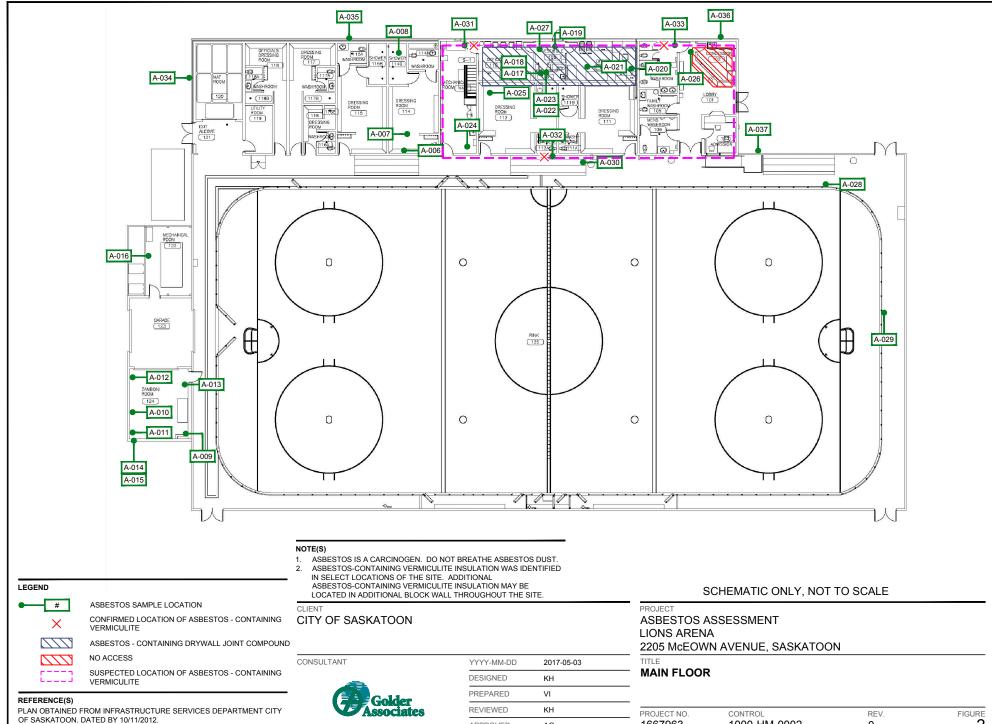
REFERENCE(S)

PLAN OBTAINED FROM INFRASTRUCTURE SERVICES DEPARTMENT CITY OF SASKATOON. DATED BY JUNE 10, 2002.



YYYY-MM-DD	2017-05-03
DESIGNED	КН
PREPARED	VI
REVIEWED	КН
APPROVED	AG

#### ASBESTOS ASSESSMENT LIONS ARENA 2205 MCEOWN AVENUE, SASKATOON TITLE BASEMENT PROJECT NO. CONTROL REV. FIGURE 1667963 1000-HM-0001 0 1



APPROVED

AG

1667963

1000-HM-0002

0

2

Last Edited By: vigosheva Date: 2017-05-03 Time:12:00:02 PM | Printed By: Vigosheva Date: 2017-05-03 Time:3:34:37 PM Path: \lgolder.gds/CALIM/CAD/CityOfSaskatoon/Saskatoon\_Lions Arena!99\_PROJECTS/1667963/02\_PRODUCTION/1000/DWG\ | File Name: 1667963-1000-HM-0002.dwg

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.**

April 9, 2020

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

#### **ATTENTION: Dean Buchholz**

#### SUBJECT: Bulk Sample Analysis Report

Please find attached the laboratory results for the bulk samples collected on April 7 & 8, 2020 from the Lions Arena in Saskatoon, SK. The samples were analyzed for the identification of asbestos. Asbestos <u>was</u> detected within 2 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,

Brad Berschiminsky BERSCH CONSULTING LTD. B67BLD07J lions arena

# **Bersch Consulting Ltd.**

# **Bulk Sample Analysis Report**

April 9, 2020

Project Number: B67.20

**Client: City of Saskatoon** 

**Contact: Dean Buchholz** 

**Location: Lions Arena** 

#### File Number: B67BAD07J lions arena

Sample Number	Sample Date	Sample Material	Sample Location and Information	Asbestos	%	Analyst
1	2020/04/07	Drainpipe	Ice Surface Concrete Slab Southeast Drain.	Amosite	30%	WB/EMSL
2	2020/04/07	Drainpipe	Ice Surface Concrete Slab Southwest Drain.	Amosite	30%	WB/EMSL
3	2020/04/08	Drain Tile	Ice Surface Weeping Tile Below the Slab along the North Side Running East & West.	No Asbestos Detected		WB/EMSL

**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.

1

#### Photo ID

B67BAD07J - 001

#### Sample Number

B67BAD07J – 1

Asbestos Containing

#### Description

Ice Surface

Southeast Drainpipe.





B67BAD07J - 002

#### Sample Number

B67BAD07J – 2

Asbestos Containing

#### Description

Ice Surface

Southwest Drainpipe.



#### Photo ID

B67BAD07J - 003

Sample Number

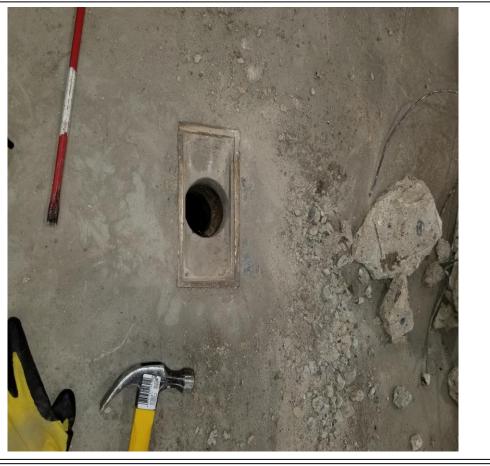
B67BAD07J – 1 & 2

Asbestos Containing

#### Description

Ice Surface

Southwest Drainpipe.





B67PRK13I - 004

#### Sample Number

B67BAD07J – 3

Non Asbestos Containing

#### Description

Ice Surface

Weeping Tile Below the Slab along the North Side Running East & West.

This photo was taken from the sump pit in the basement mechanical room.

