SIOUX LOOKOUT
Hub of the North

The Corporation of the
Municipality of Sioux Lookout
25 Fifth Avenue, P.O. Box 158
Sioux Lookout, Ontario • P8T 1A4
Telephone: (807) 737-2700
Facsimile: (807) 737-3436
www.siouxlookout.ca

Development Services Department

August 26, 2024

Dear Sir/Madam:

Re: Request for Quote – Invasive Asbestos Audit and Designated Substance Survey – Lost Lake Centre and the Hudson Community Centre – RFQ - Q018-2024

The intent of this invasive asbestos audit and designated substance survey is to sample different building materials in each facility to determine if asbestos containing materials (ACM) and designated substances exist. All sampling and work to be completed in accordance with O Reg 278/05. The buildings may be demolished in the future, the findings of this survey will help to estimate the future costs of these demolitions.

The Consultant Shall:

Complete an assessment of each property in order determine if ACM is suspected or present.

Take samples as needed and complete the necessary testing to confirm or deny the presence of ACM.

Determine if the following substances are suspected or present:

- Mold
- Lead
- Mercury
- UFFI (Urea Formaldehyde Insulation)

The Lost Lake Centre is heated by an oil-fired furnace. Please investigate the area around the oil tank and furnace to determine if there is evidence of fuel oil contamination beyond the building envelope.

Provide a final report which list if any ACM or designated substances are found, provide details on the location and amount of the affected material. Provide information about the friability and condition of the affected material. If any designated substances are found, provide details on the location and amount of the affected materials. Include recommendations on properly disposing any designated substances found. Provide a recommendation as to whether or not additional investigations are needed to determine if there is fuel oil contamination.

Complete the work no later than December 20th, 2024.

The Municipality Shall:

Provide the opportunity for the proponent to view the sites during regular business hours during the RFQ phase.

Included with the RFQ are building details and pictures of each facility and a non-invasive asbestos audit for the Lost Lake Centre and Community Hall.

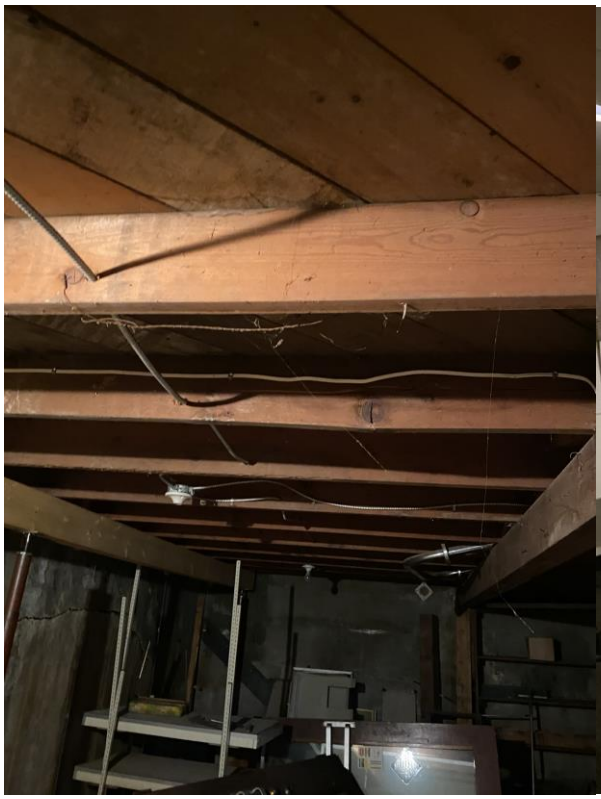
Municipal staff will repair any area damaged or opened up areas resulting from the invasive investigative process.

Please forward your written quote clearly marked "**Quote for Invasive Asbestos Audit"** by **10:00 am local time, _September 17th, 2024** to (email submissions are permitted):

Jody Brinkman, Manager of Development Services
Municipality of Sioux Lookout
PO Box 158, 25 Fifth Avenue, Sioux Lookout ON. P8T 1A4
Fax: 807-737-3436 Phone: 737-2700 ext. 2244 Email: cbo@siouxlookout.ca

21 Second Street, Hudson – Lost Lake Centre:

Original construction date is unknown, approximately 3000sqft wood framed construction with a full basement and concrete foundation.



29 Second Street, Hudson – Community Hall:

The Hudson Community hall was constructed during the 1970's and is approximately 4,000sqft. Slab on grade.


HUDSON COMMUNITY HALL
29

Please contact the undersigned if you have any questions or need clarification on anything. All responses will be forwarded to all firms partaking in the RFQ process.

Thank you for your interest and we look forward to receiving your quote.

Sincerely,
The Corporation of the
Municipality of Sioux Lookout

Jody Brinkman
Manager of Development Services
Development Services Department

Attachments:
Lost Lake Centre – Asbestos Audit
Community Hall – Asbestos Audit

TRUE GRIT ENGINEERING

December 19, 2017 Project No. 17-266-15

VIA EMAIL: (cbo@siouxlookout.ca)

Mr. Jody Brinkman
Manager of Development Services
Municipality of Sioux Lookout
PO Box 158, 25 Fifth Avenue
Sioux Lookout, ON P8T 1A4

Dear Mr. Brinkman:

Re: Asbestos Audit
Community Hall
29 Second Street, Hudson, Ontario

True Grit Engineering (TGE) is pleased to provide to the Municipality of Sioux Lookout the results of a baseline asbestos audit (AA) for the Community Hall located at 29 Second Street in Hudson, Ontario. The AA was requested by Mr. Jody Brinkman, Manager of Development Services for the Municipality of Sioux Lookout, and TGE understands that it was requested in order to meet the requirement under Ontario Regulation 278/05 (O. Reg. 278/05), *Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations,* for an inventory of asbestos-containing materials (ACM) for the building.

Summary

ACM were confirmed to be present in the subject building. None of the identified ACM were observed to be in poor condition or fallen.

TGE provides recommendations for ongoing management of ACM in the subject building.

Background and Methodology

The Community Hall is a single storey, slab on grade, building with a large open concept gymnasium, a kitchen, washrooms and storage rooms. TGE understands that the subject building was constructed in or around 1970.

Asbestos was used widely in building materials prior to 1995. Typical asbestos-containing building materials include, but are not limited to, thermal system insulation (TSI), flooring, plaster, stucco, mud joint compound (MJC) associated with finished drywall and ceiling tiles (CT). Building materials containing asbestos can still be purchased for limited applications (e.g. high temperature or corrosive applications); however, asbestos is not expected to be found in most building materials purchased and installed after 1995.

A site visit to the subject building was completed by Mr. Mike Broere, TGE Air Quality Scientist and Ms. Layla Miller, TGE Engineer-in-Training, on December 7, 2017. The site contact was Mr. Richard Fenelon, Facilities Division Supervisor, Municipality of Sioux Lookout. Since this AA was a baseline audit the inspection was minimally invasive and hidden areas, such as those above or behind solid finished ceilings or walls, were viewed where accessible. Samples were not collected where sample collection would compromise the integrity of the subject building or cause unsightly damage to finished surfaces.

A visual inspection of functional spaces and rooms in the subject building was conducted to identify materials that could contain asbestos. Potential ACM observed during the site investigation were identified as either friable or non-friable. Friable material is defined in O. Reg. 278/05 as a material that when dry, can be crumbled, pulverized or powdered by hand pressure alone or one that exists in a crumbled, pulverized or powdered state. Additionally, the quantity and condition of potential ACM were noted during the site visit.

Building materials suspected of containing asbestos were collected and sampled in accordance with O. Reg. 278/05. Samples were analyzed via Polarized Light Microscopy (PLM) following the U.S. Environmental Protection Agency Test Method EPA/600/R-93/116: *Method for the Determination of Asbestos in Bulk Building Materials*, June 1993. Where samples consisted of more than one distinct layer (i.e. vinyl floor tile, paper-type backing, mastic, etc.), each layer was analyzed and reported separately.

Materials found to contain 0.5% or more asbestos were identified as ACM (as per Ontario Regulation 278/05). The attached summary table contains the results of analysis along with the condition, quantity and friability of identified ACM.

Results

A table of asbestos results, photographs and field notes, including a site plan sketch with sample locations indicated, and a laboratory Certificate of Analysis, are attached. Following is a brief summary of the results of the AA for the subject building:

- Non-friable ACM are present in the Hudson Community Hall.
- Additional ACM may be present in areas of the subject building that were not part of the baseline AA or were hidden from view.
- ACM in poor condition were not observed in the subject building.

Conclusions and Recommendations

Based on the results of the AA for the Hudson Community Hall, TGE presents the following conclusions and associated recommendations (recommendations are shown in italic font):

- ACM are present in the Hudson Community Hall and the requirements described in O. Reg. 278/05 apply to the subject building.
- This report meets the requirement under O. Reg. 278/05 for an inventory of ACM for the subject building.
- *Keep a copy of this report on site.*
- *The building owner should be aware of his responsibilities regarding the identified ACM under O. Reg. 278/05, such as the requirement for regular (i.e. annual) inspections, notification of workers and/or employees and precautions that must be taken when handling or disturbing identified ACM.*
- *ACM in good condition and undisturbed do not have to be removed from a building.*
- *Avoid unnecessary disturbance of ACM. Develop work procedures that will accommodate the presence of ACM.*

- *Provide asbestos awareness training for any employees whose work may involve disturbance of ACM.*
- *Provide a copy of this report to contractors when tendering or completing renovation or demolition work.*
- *If renovations are planned for the subject building then prepare a drawing showing the general location of identified ACM and provide the drawing to contractors when tendering or completing renovation or demolition work.*
- *Any demolition or renovation work involving identified ACM must follow the work procedures outlined in O. Reg. 278/05.*
- *Prior to beginning any renovations, including demolition, complete a fully invasive asbestos audit (AA) for the renovation area. In particular, be aware that the following potential ACM may be present:*
    - *insulating material inside of hollow metal doors;*
    - *sealants or caulking materials around windows, doors or equipment penetrations through walls or the roof;*
    - *insulating material behind or above solid walls and ceilings;*
    - *multiple layers of flooring including flooring that may be present under wooden subfloor material; and*
    - *insulating materials inside pumps, boilers, furnaces, valves, tanks, flanged pipe fittings, motors, transformers, generators or other equipment.*
- *Notify contractors that if, during the course of renovations or demolition, suspected ACM is encountered, all work should cease immediately and the material should be sampled and analyzed to determine whether it contains asbestos.*
- *Asbestos waste must be transported by a Ministry of the Environment and Climate Change (MOECC) - licensed carrier to a licensed landfill willing to accept it.*

Limitations

The information and data contained in this report, including without limitation, the results of any sampling and analyses conducted by TGE pursuant to its Agreement with the client, have been developed or obtained through the exercise of TGE's professional judgment and are set forth to the best of TGE's knowledge, information and belief. Although every effort has been made to confirm that this information is factual, complete and accurate, TGE makes no guarantees or warranties whatsoever, whether expressed or implied, with respect to such information or data.

The information and data presented in this report are based on the purpose and scope of the project and form the basis for any conclusions and recommendations presented herein. Any conclusions and recommendations presented herein do not preclude the existence of environmental concerns other than those that may have been identified.

Work performed by TGE personnel employed sound environmental assessment principles. TGE cannot guarantee the accuracy and reliability of information provided by others or third parties. Therefore, TGE does not claim responsibility for undisclosed environmental concerns or conditions that may result in costs for environmental clean-up and/or remediation. This report is intended for information purposes only.

Closure

We trust this is sufficient for your current requirements. If you have any questions or require further information, please do not hesitate to contact the undersigned at 807.285.9005.

Sincerely,

TRUE GRIT ENGINEERING

Jacquie Elvish, B.Sc., CRSP
Senior Health and Safety Specialist
jelvish@truegriteng.com

JE/LM/MB:ls

Enclosures: Table of Asbestos Results
Photographs
Field Notes (including a site sketch with sample locations)
Laboratory Certificate of Analysis

TRUE GRIT ENGINEERING

Table of Asbestos Results for Hudson Community Centre

1263 Innovation Drive, Thunder Bay, ON, P7B 0A2
Tel: (807) 626-5640 | Fax: (807) 623-5690

www.truegriteng.com

TRUE GRIT ENGINEERING

Table 1. Summary of Asbestos Information Community Hall 29 Second Street, Hudson, ON December 7, 2017					
Material Type[1] *(Sample reference #)*	**Description and Location[2]**	**Asbestos Containing? (Method)[3]**	**Asbestos Content and Friability[4]**	**Condition[4]**	**Estimated Total Qty[4]**
Reported date of construction is in or around 1970.					
Identified Asbestos-Containing Materials (ACM)					
VFT *(HCH – S2)*	**9"x9", pink/grey VFT with white streaks observed in Room 3.**	**YES (LA)**	**1-10% Chrysotile Non-Friable**	**Good to fair**	**19.5 m²**
VFT *(HCH – S6)*	**9"x9", green/grey VFT with streaks observed in Rooms 8 and 9.**	**YES (LA)**	**>75% Chrysotile Non-Friable**	**Good to fair**	**7.61 m²**
O *(HCH – S7)*	**Grey fibrous ceiling boards observed above the CTs in Rooms 4 to 7.**	**YES (LA)**	**25-50% Amosite Non-Friable**	**Good**	**64.3 m²**
Identified Non-ACM					
VFT *(HCH – S1)*	12"x12", grey VFT with white streaks observed in Room 1.	NO (LA)	--	--	--
Mastic *(HCH – S2)*	Mastic under 9"x9" pink/grey VFT with white streaks observed in Room 3.	NO (LA)	--	--	--
VFT *(HCH – S3)*	12"x24", VFT with beige tile pattern observed in Room 4.	NO (LA)	--	--	--
VFT *(HCH – S4)*	12"x12", grey/brown VFT with white streaks and flecks observed in Rooms 5 to 7.	NO (LA)	--	--	--
MJC *(HCH – S5)*	Mud joint compound associated with finished gypsum board walls observed in Rooms 4 to 7.	NO (LA)	--	--	--
Mastic *(HCH – S6)*	Mastic under 9"x9" green/grey VFT with streaks observed in Rooms 8 and 9.	NO (LA)	--	--	--
O *(HCH – S8)*	Black asphalt shingle covering located on the exterior walls of the subject building.	NO (LA)	--	--	--
O	Wood fibre boards observed on the walls and ceilings in Rooms 1 to 3 and 8 to 9.	NO (V)	--	--	--
CT	2'x4' white textured and off-white fiberglass CTs observed in Rooms 4 to 7.	NO (V)	--	--	--
O	Carpet flooring observed in Room 8.	NO (V)	--	--	--
Roofing	Corrugated metal materials observed on the exterior of the subject building.	NO (V)	--	--	--
O	Uninsulated piping and ductwork was observed throughout the building.	NO (V)	--	--	--
Potential ACM					
Insulating materials	*Potential for insulating materials inside hollow metal doors.*	*Possible*	--	--	--

Table 1. Summary of Asbestos Information Community Hall 29 Second Street, Hudson, ON December 7, 2017					
Material Type[1] ***(Sample reference #)***	**Description and Location[2]**	**Asbestos Containing? (Method)[3]**	**Asbestos Content and Friability[4]**	**Condition[4]**	**Estimated Total Qty[4]**
Flooring	*Hidden layers of flooring may be present under carpet, top layers of flooring materials or wooden subfloors.*	*Possible*	--	--	--
Caulking and/or sealants	*Caulking and/or sealants around windows and doors.*	*Possible*	--	--	--
TSI	*Insulating materials may be hidden behind or above solid walls and ceilings. Insulating materials or gaskets may be hidden inside of boilers, furnaces or tanks.*	*Possible*	--	--	--

Notes:

1. TSI = Thermal System Insulation on pipes, fittings and boilers; MJC = Mud Joint Compound associated with finished gypsum board; VFT = Vinyl Floor Tile; CT = Ceiling Tile; VSF = Vinyl Sheet Flooring.
2. Corresponds to room identifier on attached drawings.
3. LA = Samples collected and submitted for laboratory analysis; V = Materials identified by careful visual assessment; R = Reported by site contact to have been installed after 1995.
4. Information only provided for asbestos-containing materials.
5. EA = "Each" individual occurrence of pipe elbows, fittings or other small insulation coverings.
6. **Asbestos-containing material (i.e. 0.5% or more asbestos content) shown in bold font.**
7. *Possible asbestos-containing materials (i.e. materials not sampled in order to maintain the integrity of the building envelope) shown in italics. These materials should be sampled and analyzed for asbestos content prior to any activity that may disturb them (e.g. renovations).*

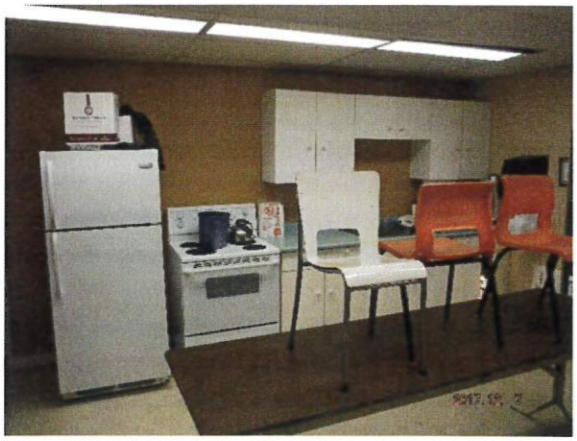
TRUE GRIT ENGINEERING

Photographs

1263 Innovation Drive, Thunder Bay, ON, P7B 0A2
Tel: (807) 626-5640 | Fax: (807) 623-5690

www.truegriteng.com

TRUE GRIT ENGINEERING

COMMUNITY HALL 29 SECOND STREET, HUDSON, ONTARIO	
GENERAL BUILDING PHOTOS	
	
Photo 1: Exterior of Community Hall.	**Photo 2: Exterior of Community Hall.**
	
Photo 3: Main Hall – Room #1.	**Photo 4: Kitchen – Room #4.**

Asbestos-Containing Material	
	
Photo 5: Asbestos-Containing (AC) 9"x9" pink/grey VFT with white streaks (HCH – S2) – Room #3 – Storage room.	**Photo 6: AC 9"x9" green/grey VFT with streaks (HCH – S6) – Room #8 – Raised storage room.**
	
Photo 7: AC grey fibrous ceiling boards above the CTs (HCH – S7) – Room #6 – Mens' washroom.	

OTHER MATERIALS (NON-ACM AND POTENTIAL ACM)	

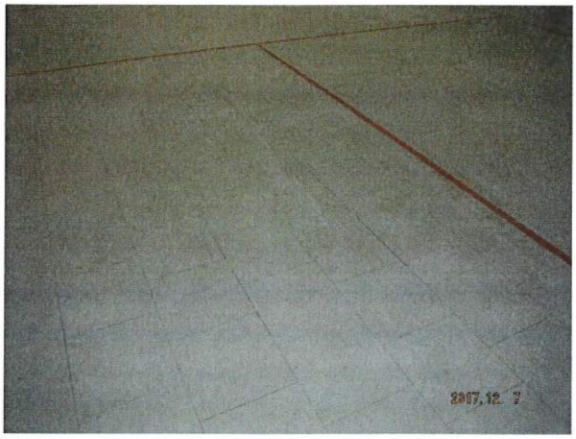
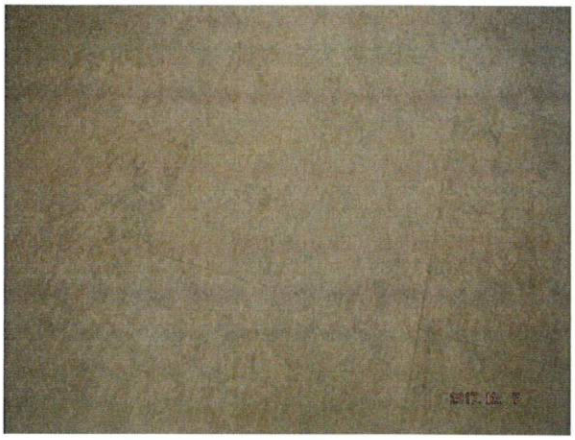
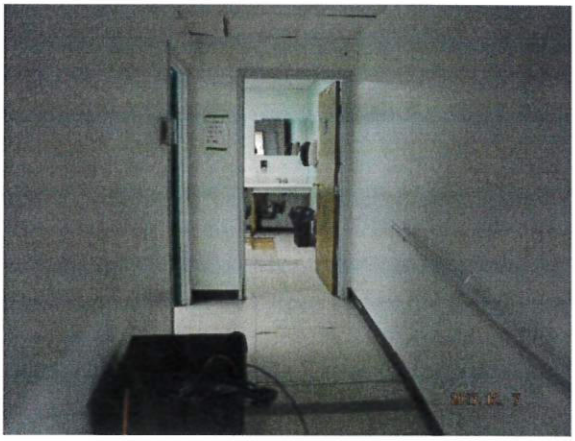

	

Photo 8: Non-Asbestos Containing (Non-ACM) 12"x12" grey VFT with white streaks (HCH – S1) – Room #1 – Main hall.	**Photo 9: Non-ACM 12"x24" VFT with beige tile pattern (HCH – S3) – Room #4 – Kitchen.**
	
Photo 10: Non-ACM 12"x12" grey VFT with white streaks and flecks (HCH – S4) – Room #7 – Women's washroom.	**Photo 11: Non-ACM MJC associated with finished walls and ceilings (HCH – S5) – Room #5 – Hallway.**

OTHER MATERIALS (NON-ACM AND POTENTIAL ACM)

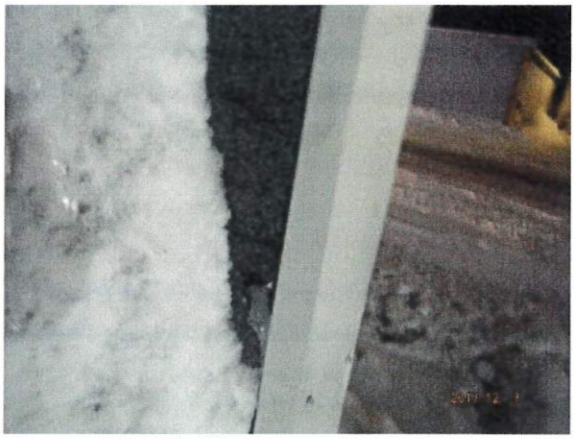


Photo 12: Non-ACM black asphalt shingle covering on the exterior walls (HCH – S8) – Exterior.

Photo 13: Non-ACM wood fibre boards on the walls and ceiling (visual I.D.) – Room #2 – Sports equipment storage room.

Photo 14: Non-ACM 2'x4' white textured and off-white fibreglass CTs (visual I.D.) – Room #4 – Kitchen.

Photo 15: Non-ACM corrugated metal materials on the exterior of the subject building (visual I.D.) – Exterior.

OTHER MATERIALS (NON-ACM AND POTENTIAL ACM)	
	
Photo 16: Uninsulated piping and ductwork observed throughout the building.	**Photo 17: Potential ACM insulating materials inside hollow metal doors – Throughout subject building.**

TRUE GRIT ENGINEERING

Field Notes (including a site sketch with sample locations)

1263 Innovation Drive, Thunder Bay, ON, P7B 0A2
Tel: (807) 626-5640 | Fax: (807) 623-5690

www.truegriteng.com

Master List - Asbestos Samples

TRUE GRIT ENGINEERING

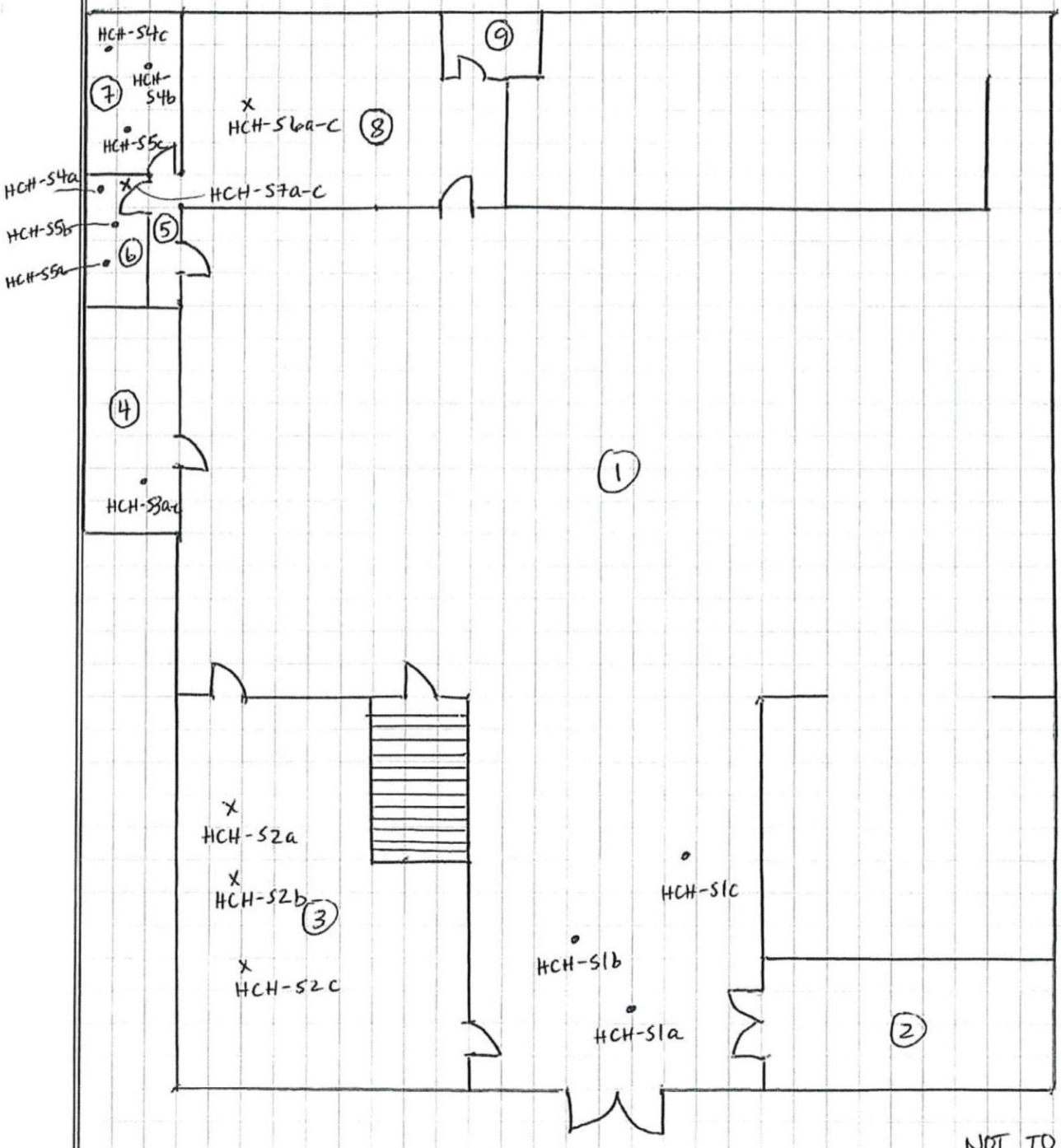
Facility	Community Hall	**Date**	7-Dec-17
Project #	17-266-15		

Sample ID	Description
HCH-S1a-c	12"x12" grey VFT w/ white streaks
HCH-S2a-c	9"x9" VFT, pink/grey w/ white streaks (mastic not ACM)
HCH-S3a-c	12"x24" VFT, beige tile pattern.
HCH-S4a-c	12"x12" VFT (grey/brown) with white streaks + flakes
HCH-S5a-c	MJC
HCH-S6a-c	9"x9" VFT, green/grey w/ streaks. (mastic not ACM)
HCH-S7a-c	ceiling cement (?) boards.
HCH-S8a-c	asphalt/shingle covering

TRUE GRIT ENGINEERING
1263 Innovation Drive,
Thunder Bay, ON P7B 0A2

DATE: Dec. 7, 2017 PROJECT NO. 17 | 36.6 | 1.5
DESIGNED BY: LM/MB CHECKED BY:
PROJECT: Asbestos Audit for 13 municipal Buildings
CLIENT: Municipality of Sioux Lookout

Community Hall, main Floor Plan



NOT TO SCALE

Figure 1. main Floor Sample Locations and General Location of Identified ACM

LEGEND
① Room Number (Assigned by TGE)
• S#a-C Asbestos Sample Location
X S #a-C Asbestos-Containing Sample Location

TRUE GRIT ENGINEERING
1263 Innovation Drive,
Thunder Bay, ON P7B 0A2

DATE: Dec. 7, 2017 PROJECT NO. 17-266-15
DESIGNED BY: L.M./M.B. CHECKED BY:
PROJECT: Asbestos Audit for 13 municipal Buildings
CLIENT: Municipality of Sioux Lookout

Community Hall, Second Floor Plan

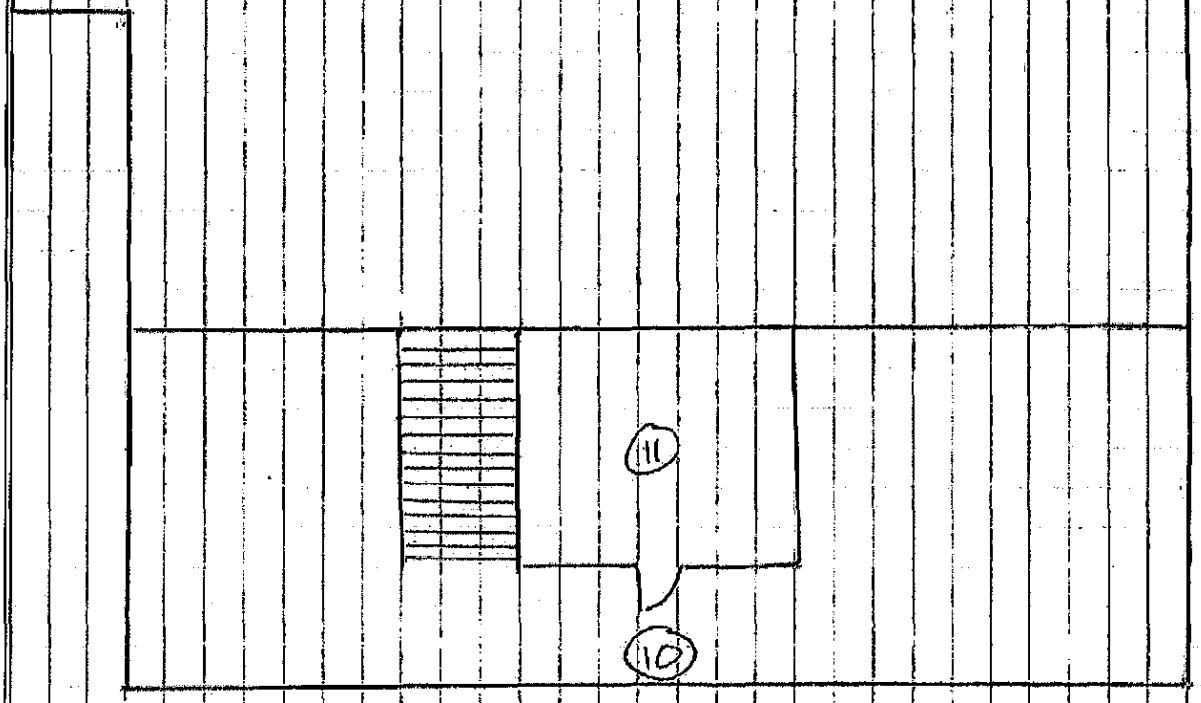


Figure 2. Second Floor Sample Locations

NOT TO SCALE

LEGEND
① Room Number (Assigned by TGE)
•S#a-c Asbestos Sample Location
✖ S#a-c Asbestos-Containing Sample Location

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Community Hall
Building I.D.	29 Second Street, Hudson
Floor	main
Room I.D.	(1) main Hall

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM/MB

Ceiling Height 20' (round)

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MUC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
HC4-5 lab	E				x					12x12, grey			x		x					
	E								x	poured concrete										
	W								x	wood fibreboard (1 wall)										
	W								x	plywood										
	C								x	wood fibre board										
	D								x	bare ducting										
	D								x	2 hollow metal doors										

Notes:

1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MUC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Community Hall
Building I.D.	29 Second Street, Hudson
Floor	main
Room I.D.	(2) South Equip storage

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM/MB

Ceiling Height 7'

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
	F								X	poured concrete										
	W								X	wood fibre board										
	C								X	wood fibre board										

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Community Hall
Building I.D.	29 Second Street, Hudson
Floor	main
Room I.D.	(3) storage

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM / MB

Ceiling Height 7'

Room Dimensions
14'6" x 14'6"
(4.4196m x 4.4196m)

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
	F								X	poured concrete										
HCH-S2a-c	F				X					9x9, grey & pink with white stripe	19.53 m²		X		X	X		H	M	L
	W								X	wood fibre board										
	C								X	wood fibre board										

mastic not acm

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Community Hall
Building I.D.	29 Second Street, Hudson
Floor	main
Room I.D.	④ kitchen

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM/MB

Ceiling Height 7'10"

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
	F								x	wood subfloor										
HCH-S3a-c	F				x					12x24, cream with blue			x		x					
VS HCH-S5	W					x	x						x		x					
	C							x		2x4, white, textured (fibreglass)	all other 10 tiles									
	C							x		2x4, off-white, small bumps (fibreglass)										
		above ceiling tiles (above kitchen + washroom area).																		
		uninsulated duct work																		
		uninsulated piping (domesticated water lines)																		
HCH-S7a-c		ceiling 4x8 sheets of cement (?)									64.3 m²		x		x					
										↳ (191' + 14.833' + 12.333') x (15')										
										= (46.1663') x (15')										
										= 14.0715m x 4.572m										
										= 64.33 m²										

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Community Hall
Building I.D.	29 Second Street, Hudson
Floor	main
Room I.D.	(5) Hallway

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: dec. 7. 2017
Assessor: LM / MB

Ceiling Height 9'10" → 7'

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
	E								X	wood sf.										
VS HCH-54	E				X					12x12, light grey to brown specs			X		X					
VS HCH-55	W					X	X						X		X					
	C							X		2x4 white, textured (fibreglass)										

Notes:

1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Community Hall
Building I.D.	29 Second Street, Hudson
Floor	main
Room I.D.	(6) men's lwr

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM/MB

Ceiling Height

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
	F								X	wood s.f.										
HCH-54a	E				X					12x12 light grey w brown specs			X			X				
HCH-55a,b	W					X	X						X		X					
	C							X		2x4 fibreglass										

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Community Hall
Building I.D.	29 Second Street, Hudson
Floor	main
Room I.D.	(7) Womens WR

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM / MB

Ceiling Height 7'

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
	F								x	wood s.f.										
HCH-54b/c	F				x					12x12, light grey & brown specs	all		x			x				
	F				x					12x12, cream with blue specs	visually		x			x				
	F				v					12x12, brown with grey specs	similar		x			x				
HCH-55c	W					x	x						x			x				
	C							x		2x4, fibreglass										

Notes:

1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for troweled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Community Hall
Building I.D.	29 Second Street, Hudson
Floor	main
Room I.D.	(8) Raised storage

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM/MB

Ceiling Height 7 1

Room Dimensions
10' x 10'
(3.048m x 3.048m)

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]			
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A	
	F								x	wood											
	F								x	carpet (5'x10')											
HA-Sleac	E				x					9"x 9" blue + white (5'x10')	4.65m²		x		x	x		H	m	L	mastic not ACM
	W								x	wood panels											
	W								x	wood fibre board											
	C								x	wood fibre board											

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Community Hall
Building I.D.	29 Second Street, Hudson
Floor	main
Room I.D.	(9) raised small storage

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM/MB

Ceiling Height

Room Dimensions
5'x5'5"
(1.524m x 1.941m)

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]			
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A	
	F								x	wood											
VS HCH-56	F				x					9x9 blue + white	2.96m²	x				x		H	m	L	mastic not acm
	W								x	wood fibre board											
	C								x	wood fibre board											
	O								x	bare ducting											

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Community Hall
Building I.D.	29 Second Street, Hudson
Floor	second
Room I.D.	(10) mezzanine

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM/MB

Ceiling Height

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[2]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
	F								X	wood plank										
	W								X	wood fibre board										
	C								X	wood fibre board										

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Community Hall
Building I.D.	29 Second Street, Hudson
Floor	Second
Room I.D.	(1) Mezz. Storage

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM/MB

Ceiling Height

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
	E								X	wood plank										
	W								X	wood plank										
	W								X	wood plank										

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Community Hall
Building I.D.	29 Second Street, Hudson
Floor	Exterior
Room I.D.	Exterior

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM / MA

Ceiling Height

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[2]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
	F									slab on grade										
	w/ roof								x	corrugated metal dome										
	roof over kitchen → sloped ↓ wk.																			
HC#-58a-c	front/back walls									asphalt/shingle covering	58.76m²									
											(3.759 + 3.302 + 5.79) x 4.572 m									

Notes:

1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF – non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

TRUE GRIT ENGINEERING

Laboratory Certificate of Analysis

1263 Innovation Drive, Thunder Bay, ON, P7B 0A2
Tel: (807) 626-5640 | Fax: (807) 623-5690

www.truegriteng.com

True Grit Engineering
1263 Innovation Drive
Thunder Bay, ON P7B 0A2
T 807.626.5640 F 807.623.5690 www.truegriteng.com

Table 1: Fibre Analysis for samples submitted by TGE on behalf of the Municipality of Sioux Lookout

TGE Reference #: 17-266-15
Client Reference: Hudson Community Hall

Sample #	Sample description	Asbestos Detected	Type of Asbestos	Non-Asbestos Fibres	Percent* (volume)
1	Bulk sample identified as "HCH – S1a, vinyl floor tile (VFT), 12"x12", grey with white streaks. [17-09458]. Grey flooring with attached black mastic.				
Layer 1	Flooring portion.	NO	--	Non-fibrous	
Layer 2	Mastic portion.	NO	--	Non-fibrous	
2	Bulk sample identified as "HCH – S1b, VFT, 12"x12", grey with white streaks. [17-09459]. Grey flooring with attached black mastic.				
Layer 1	Flooring portion.	NO	--	Non-fibrous	
Layer 2	Mastic portion.	NO	--	Non-fibrous	
3	Bulk sample identified as "HCH – S1c, VFT, 12"x12", grey with white streaks. [17-09460]. Grey flooring with attached black mastic.				
Layer 1	Flooring portion.	NO	--	Non-fibrous	
Layer 2	Mastic portion.	NO	--	Non-fibrous	

METHOD: Dispersion Staining with Polarized Light Microscopy (PLM), U.S. Environmental Protection Agency Test Method EPA/600/R-93/116 Method for Determination of Asbestos in Bulk Building Materials, June 1993 as per Ontario Regulation 278/05, November 1, 2005.
Bulk Asbestos Proficiency Analytical Testing (BAPAT) Participating Laboratory: True Grit Engineering (TGE) participates in the American Industrial Hygiene Association (AIHA) BAPAT program, laboratory ID 211465.
NOTES:
* Results reported as percent (by volume) of total particulates observed. Results reported for a sample may not total 100%.
* Ontario Regulation 278/05 defines any material containing 0.5% or more asbestos as an asbestos-containing material.
MMMF (Man-Made Mineral Fibres) may include fibreglass, mineral wool, slag wool, rock wool and ceramic fibres. Synthetic fibres may include; nylon, dacron, orlon, polyester.
Detection Limit of this method is approximately 0.5% (percent volume). The symbol for less than is " <" and the symbol for greater than is ">"
[#####] = TGE sample tracking number

DATE: December 12, 2017

ANALYST: _____
Heather Wilson, B.Sc
Industrial Hygiene Scientist

REVIEWED: _____
Jacquie Elvish, B.Sc., CRSP
Senior Health and Safety Specialist

True Grit Engineering
1263 Innovation Drive
Thunder Bay, ON P7B 0A2
T 807.626.5640 F 807.623.5690 www.truegriteng.com

Table 1: Fibre Analysis for samples submitted by TGE on behalf of the Municipality of Sioux Lookout

TGE Reference #: 17-266-15
Client Reference: Hudson Community Hall

Sample #	Sample description	Asbestos Detected	Type of Asbestos	Non-Asbestos Fibres	Percent* (volume)
4	Bulk sample identified as "HCH – S2a, VFT, 9"x9", pink/grey with streaks. [17-09461]. Grey flooring with attached black mastic.				
Layer 1	Flooring portion.	NO	--	Non-fibrous	
Layer 2	Mastic portion.	NO	--	Non-fibrous	
5	Bulk sample identified as "HCH – S2b, VFT, 9"x9", pink/grey with streaks. [17-09462]. Pink flooring with attached black mastic.				
Layer 1	Flooring portion.	YES	Chrysotile	--	1-10%
Layer 2	Mastic portion.	NO	--	Non-fibrous	
6	Bulk sample identified as "HCH – S2c, VFT, 9"x9", pink/grey with streaks. [17-09463]. Grey flooring with attached black mastic.	Note: Sample not analyzed based on positive results for sample #5.			

METHOD: Dispersion Staining with Polarized Light Microscopy (PLM), U.S. Environmental Protection Agency Test Method EPA/600/R-93/116 Method for Determination of Asbestos in Bulk Building Materials, June 1993 as per Ontario Regulation 278/05, November 1, 2005.
Bulk Asbestos Proficiency Analytical Testing (BAPAT) Participating Laboratory: True Grit Engineering (TGE) participates in the American Industrial Hygiene Association (AIHA) BAPAT program, laboratory ID 211465.
NOTES:
* Results reported as percent (by volume) of total particulates observed. Results reported for a sample may not total 100%.
* Ontario Regulation 278/05 defines any material containing 0.5% or more asbestos as an asbestos-containing material.
MMMF (Man-Made Mineral Fibres) may include fibreglass, mineral wool, slag wool, rock wool and ceramic fibres. Synthetic fibres may include; nylon, dacron, orlon, polyester.
Detection Limit of this method is approximately 0.5% (percent volume). The symbol for less than is " <" and the symbol for greater than is ">"
[#####] = TGE sample tracking number

DATE: December 12, 2017

ANALYST: _____
Heather Wilson, B.Sc
Industrial Hygiene Scientist

REVIEWED: _____
Jacquie Elvish, B.Sc., CRSP
Senior Health and Safety Specialist

True Grit Engineering
1263 Innovation Drive
Thunder Bay, ON P7B 0A2
T 807.626.5640 F 807.623.5690 www.truegriteng.com

Table 1: Fibre Analysis for samples submitted by TGE on behalf of the Municipality of Sioux Lookout

TGE Reference #: 17-266-15
Client Reference: Hudson Community Hall

Sample #	Sample description	Asbestos Detected	Type of Asbestos	Non-Asbestos Fibres	Percent* (volume)
7	Bulk sample identified as "HCH – S3a, VFT, 12"x24", beige tile pattern. [17-09464]. Beige flooring with grey backing.				
Layer 1	Flooring portion.	NO	--	Non-fibrous	
Layer 2	Backing portion.	NO	--	Non-fibrous	
8	Bulk sample identified as "HCH – S3b, VFT, 12"x24", beige tile pattern. [17-09465]. Beige flooring with grey backing.				
Layer 1	Flooring portion.	NO	--	Non-fibrous	
Layer 2	Backing portion.	NO	--	Non-fibrous	
9	Bulk sample identified as "HCH – S3c, VFT, 12"x24", beige tile pattern. [17-09466]. Beige flooring with grey backing.				
Layer 1	Flooring portion.	NO	--	Non-fibrous	
Layer 2	Backing portion.	NO	--	Non-fibrous	

METHOD: Dispersion Staining with Polarized Light Microscopy (PLM), U.S. Environmental Protection Agency Test Method EPA/600/R-93/116 Method for Determination of Asbestos in Bulk Building Materials, June 1993 as per Ontario Regulation 278/05, November 1, 2005.
Bulk Asbestos Proficiency Analytical Testing (BAPAT) Participating Laboratory: True Grit Engineering (TGE) participates in the American Industrial Hygiene Association (AIHA) BAPAT program, laboratory ID 211465.
NOTES:
* Results reported as percent (by volume) of total particulates observed. Results reported for a sample may not total 100%.
* Ontario Regulation 278/05 defines any material containing 0.5% or more asbestos as an asbestos-containing material.
MMMF (Man-Made Mineral Fibres) may include fibreglass, mineral wool, slag wool, rock wool and ceramic fibres. Synthetic fibres may include; nylon, dacron, orlon, polyester.
Detection Limit of this method is approximately 0.5% (percent volume). The symbol for less than is " <" and the symbol for greater than is ">"
[#####] = TGE sample tracking number

DATE: December 12, 2017

ANALYST: _____
Heather Wilson, B.Sc
Industrial Hygiene Scientist

REVIEWED: _____
Jacquie Elvish, B.Sc., CRSP
Senior Health and Safety Specialist

True Grit Engineering
1263 Innovation Drive
Thunder Bay, ON P7B 0A2
T 807.626.5640 F 807.623.5690 www.truegriteng.com

Table 1: Fibre Analysis for samples submitted by TGE on behalf of the Municipality of Sioux Lookout

TGE Reference #: 17-266-15
Client Reference: Hudson Community Hall

Sample #	Sample description	Asbestos Detected	Type of Asbestos	Non-Asbestos Fibres	Percent* (volume)
10	Bulk sample identified as "HCH – S4a, VFT, 12"x12", grey/brown with white streaks. [17-09467]. Beige flooring with attached beige mastic backing.				
Layer 1	Flooring portion.	NO	--	Non-fibrous	
Layer 2	Mastic portion.	NO	--	Non-fibrous	
11	Bulk sample identified as "HCH – S4b, VFT, 12"x12", grey/brown with white streaks. [17-09468]. Beige flooring with attached beige mastic backing.				
Layer 1	Flooring portion.	NO	--	Non-fibrous	
Layer 2	Mastic portion.	NO	--	Non-fibrous	

METHOD: Dispersion Staining with Polarized Light Microscopy (PLM), U.S. Environmental Protection Agency Test Method EPA/600/R-93/116 Method for Determination of Asbestos in Bulk Building Materials, June 1993 as per Ontario Regulation 278/05, November 1, 2005.
Bulk Asbestos Proficiency Analytical Testing (BAPAT) Participating Laboratory: True Grit Engineering (TGE) participates in the American Industrial Hygiene Association (AIHA) BAPAT program, laboratory ID 211465.
NOTES:
* Results reported as percent (by volume) of total particulates observed. Results reported for a sample may not total 100%.
* Ontario Regulation 278/05 defines any material containing 0.5% or more asbestos as an asbestos-containing material.
MMMF (Man-Made Mineral Fibres) may include fibreglass, mineral wool, slag wool, rock wool and ceramic fibres. Synthetic fibres may include; nylon, dacron, orlon, polyester.
Detection Limit of this method is approximately 0.5% (percent volume). The symbol for less than is " <" and the symbol for greater than is ">"
[#####] = TGE sample tracking number

DATE: December 12, 2017

ANALYST: _____
Heather Wilson, B.Sc
Industrial Hygiene Scientist

REVIEWED: _____
Jacquie Elvish, B.Sc., CRSP
Senior Health and Safety Specialist

True Grit Engineering
1263 Innovation Drive
Thunder Bay, ON P7B 0A2
T 807.626.5640 F 807.623.5690 www.truegriteng.com

Table 1: Fibre Analysis for samples submitted by TGE on behalf of the Municipality of Sioux Lookout

TGE Reference #: 17-266-15
Client Reference: Hudson Community Hall

Sample #	Sample description	Asbestos Detected	Type of Asbestos	Non-Asbestos Fibres	Percent* (volume)
12	Bulk sample identified as "HCH – S4c, VFT, 12"x12", grey/brown with white streaks. [17-09469]. Beige flooring with attached beige mastic backing.				
Layer 1	Flooring portion.	NO	--	Non-fibrous	
Layer 2	Mastic portion.	NO	--	Non-fibrous	
13	Bulk sample identified as "HCH – S5a, mud joint compound (MJC)". [17-09470]. Firm, white chalky material.	NO	--	Non-fibrous	
14	Bulk sample identified as "HCH – S5b, mud joint compound (MJC)". [17-09471]. Firm, white chalky material.	NO	--	Non-fibrous	
15	Bulk sample identified as "HCH – S5c, mud joint compound (MJC)". [17-09472]. Firm, white chalky material.	NO	--	Non-fibrous	

METHOD: Dispersion Staining with Polarized Light Microscopy (PLM), U.S. Environmental Protection Agency Test Method EPA/600/R-93/116 Method for Determination of Asbestos in Bulk Building Materials, June 1993 as per Ontario Regulation 278/05, November 1, 2005.
Bulk Asbestos Proficiency Analytical Testing (BAPAT) Participating Laboratory: True Grit Engineering (TGE) participates in the American Industrial Hygiene Association (AIHA) BAPAT program, laboratory ID 211465.
NOTES:
* Results reported as percent (by volume) of total particulates observed. Results reported for a sample may not total 100%.
* Ontario Regulation 278/05 defines any material containing 0.5% or more asbestos as an asbestos-containing material.
MMMF (Man-Made Mineral Fibres) may include fibreglass, mineral wool, slag wool, rock wool and ceramic fibres. Synthetic fibres may include; nylon, dacron, orlon, polyester.
Detection Limit of this method is approximately 0.5% (percent volume). The symbol for less than is " <" and the symbol for greater than is ">"
[######] = TGE sample tracking number

DATE: December 12, 2017

ANALYST: _____
Heather Wilson, B.Sc
Industrial Hygiene Scientist

REVIEWED: _____
Jacquie Elvish, B.Sc., CRSP
Senior Health and Safety Specialist

True Grit Engineering
1263 Innovation Drive
Thunder Bay, ON P7B 0A2
T 807.626.5640 F 807.623.5690 www.truegriteng.com

Table 1: Fibre Analysis for samples submitted by TGE on behalf of the Municipality of Sioux Lookout

TGE Reference #: 17-266-15
Client Reference: Hudson Community Hall

Sample #	Sample description	Asbestos Detected	Type of Asbestos	Non-Asbestos Fibres	Percent* (volume)
16	Bulk sample identified as "HCH – S6a, VFT, 9"x9", green/grey with streaks. [17-09473]. Green flooring with attached black mastic.				
Layer 1	Flooring portion.	NO	--	Non-fibrous	
Layer 2	Mastic portion.	NO	--	Non-fibrous	
17	Bulk sample identified as "HCH – S6b, VFT, 9"x9", green/grey with streaks. [17-09474]. Grey flooring with attached black mastic.				
Layer 1	Flooring portion.	YES	Chrysotile	--	>75%
Layer 2	Mastic portion.	NO	--	Non-fibrous	
18	Bulk sample identified as "HCH – S6c, VFT, 9"x9", green/grey with streaks. [17-09475]. Grey flooring with attached black mastic.	Note: Sample not analyzed based on positive results for Sample #16.			
19	Bulk sample identified as "HCH – S7a, ceiling cement boards". [17-09476]. Grey fibrous materials.	YES	Amosite	--	25-50%

METHOD: Dispersion Staining with Polarized Light Microscopy (PLM), U.S. Environmental Protection Agency Test Method EPA/600/R-93/116 Method for Determination of Asbestos in Bulk Building Materials, June 1993 as per Ontario Regulation 278/05, November 1, 2005.
Bulk Asbestos Proficiency Analytical Testing (BAPAT) Participating Laboratory: True Grit Engineering (TGE) participates in the American Industrial Hygiene Association (AIHA) BAPAT program, laboratory ID 211465.
NOTES:
* Results reported as percent (by volume) of total particulates observed. Results reported for a sample may not total 100%.
* Ontario Regulation 278/05 defines any material containing 0.5% or more asbestos as an asbestos-containing material.
MMMF (Man-Made Mineral Fibres) may include fibreglass, mineral wool, slag wool, rock wool and ceramic fibres. Synthetic fibres may include; nylon, dacron, orlon, polyester.
Detection Limit of this method is approximately 0.5% (percent volume). The symbol for less than is " <" and the symbol for greater than is ">"
[#####] = TGE sample tracking number

DATE: December 12, 2017

ANALYST: Heather Wilson, B.Sc
Industrial Hygiene Scientist

REVIEWED: Jacquie Elvish, B.Sc., CRSP
Senior Health and Safety Specialist

True Grit Engineering
1263 Innovation Drive
Thunder Bay, ON P7B 0A2
T 807.626.5640 F 807.623.5690 www.truegriteng.com

Table 1: Fibre Analysis for samples submitted by TGE on behalf of the Municipality of Sioux Lookout

TGE Reference #: 17-266-15
Client Reference: Hudson Community Hall

Sample #	Sample description	Asbestos Detected	Type of Asbestos	Non-Asbestos Fibres	Percent* (volume)
20	Bulk sample identified as "HCH – S7b, ceiling cement boards". [17-09477]. Grey fibrous materials.	Note: Sample not analyzed based on positive results for sample #19.			
21	Bulk sample identified as "HCH – S7c, ceiling cement boards". [17-09478]. Grey fibrous materials.	Note: Sample not analyzed based on positive results for sample #19.			
22	Bulk sample identified as "HCH – S8a, asphalt/shingle covering". [17-09479]. Black fibrous asphalt material.	NO	--	Cellulose	10-25%
23	Bulk sample identified as "HCH – S8b, asphalt/shingle covering". [17-09480]. Black fibrous asphalt material.	NO	--	Cellulose	10-25%
24	Bulk sample identified as "HCH – S8c, asphalt/shingle covering". [17-09481]. Black fibrous asphalt material.	NO	--	Cellulose	10-25%

METHOD: Dispersion Staining with Polarized Light Microscopy (PLM), U.S. Environmental Protection Agency Test Method EPA/600/R-93/116 Method for Determination of Asbestos in Bulk Building Materials, June 1993 as per Ontario Regulation 278/05, November 1, 2005.
Bulk Asbestos Proficiency Analytical Testing (BAPAT) Participating Laboratory: True Grit Engineering (TGE) participates in the American Industrial Hygiene Association (AIHA) BAPAT program, laboratory ID 211465.
NOTES:
* Results reported as percent (by volume) of total particulates observed. Results reported for a sample may not total 100%.
* Ontario Regulation 278/05 defines any material containing 0.5% or more asbestos as an asbestos-containing material.
MMMF (Man-Made Mineral Fibres) may include fibreglass, mineral wool, slag wool, rock wool and ceramic fibres. Synthetic fibres may include; nylon, dacron, orlon, polyester.
Detection Limit of this method is approximately 0.5% (percent volume). The symbol for less than is " <" and the symbol for greater than is ">"
[#####] = TGE sample tracking number

DATE: December 12, 2017

ANALYST: _____
Heather Wilson, B.Sc
Industrial Hygiene Scientist

REVIEWED: _____
Jacquie Elvish, B.Sc., CRSP
Senior Health and Safety Specialist

True Grit Engineering
1263 Innovation Drive, Thunder Bay, ON P7B 0A2
T 807.626.5640 F 807.623.5690
www.truegriteng.com

Request for Laboratory Services - Chain of Custody

TRUE GRIT ENGINEERING

REPORT TO:		
	Company Name:	Municipality of Sioux Lookout/ TGE
	Contact:	
	Address:	
	Phone #:	Cell#
	Fax #:	
	Email:	
	Send results by:	☐Fax ☐Mail ☐Phone ☐Email

INVOICE TO:		
☑ Same ☐ Other	Company Name	
	Contact:	
	Address:	
	Phone #:	Fax #:
Turn Around Time (available for Asbestos and Mould analysis only)	☑	REGULAR (3-5 DAYS, DEFAULT)
	☐	RUSH (24 - 48 HRS, 50% SURCHARGE) BUSINESS HOURS
	☐	EMERGENCY (<24 HRS OR WEEKEND, 100% SURCHARGE)

TGE Tracking #	Date Collected or Received	Sample Type (Air, Bulk, Dust)	Description (As it will appear on the report)	Analysis Requested					
				Asbestos	Mould	Other (e.g. lead)	Sampling Data (air samples only)		
							Flow Rate (lpm)	Time (minutes)	Volume (litres)
17-09458	07-Dec-17	bulk	HCH - S1a, VFT, 12x12, grey with white streaks non-fibrous	X					
17-09459	07-Dec-17	bulk	HCH - S1b, VFT, 12x12, grey with white streaks	X					
17-09460	07-Dec-17	bulk	HCH - S1c, VFT, 12x12, grey with white streaks	X					
17-09461	07-Dec-17	bulk	HCH - S2a, VFT, 9x9, pink/grey with white streaks non-fibrous	X					
17-09462	07-Dec-17	bulk	HCH - S2b, VFT, 9x9, pink/grey with white streaks VFT= 1-10% Chrys.	X					
17-09463	07-Dec-17	bulk	HCH - S2c, VFT, 9x9, pink/grey with white streaks NOT analyzed	X					
17-09464	07-Dec-17	bulk	HCH - S3a, VFT, 12x24, beige tile pattern non	X					
17-09465	07-Dec-17	bulk	HCH - S3b, VFT, 12x24, beige tile pattern	X					
17-09466	07-Dec-17	bulk	HCH - S3c, VFT, 12x24, beige tile pattern	X					
17-09467	07-Dec-17	bulk	HCH - S4a, VFT, 12x12, grey/brown with white streaks non	X					

Special Instructions:
Samples will be discarded after 7 days.
Please provide a client sample reference (eg. PO #, address, etc.). Hudson Community Hall, pg. 1
Please specify Matrix Code for mould samples only: AN - Allergenco Air; BS - Bulk Sample; TS - Tape Sample; OT - Other Type

Relinquished by: (Please Print)	Date:	Time:	Signature:
L. Miller	09-Dec-17	10:00am	
Accepted by: (Please Print)	Date:		Signature:
TGE Project #: 17-266-15	Date Analyzed: Dec 12, 2017	Time: 4:00	Analyst:

True Grit Engineering
1263 Innovation Drive, Thunder Bay, ON P7B 0A2
T 807.626.5640 F 807.623.5690
www.truegriteng.com

Request for Laboratory Services - Chain of Custody

TRUE GRIT ENGINEERING

REPORT TO:		
	Company Name:	Municipality of Sioux Lookout/ TGE
	Contact:	
	Address:	
	Phone #:	Cell#
	Fax #:	
	Email:	
	Send results by:	☐Fax ☐Mail ☐Phone ☐Email

INVOICE TO:		
☑ Same ☐ Other	Company Name	
	Contact:	
	Address:	
	Phone #:	Fax #:
Turn Around Time (available for Asbestos and Mould analysis only)	☑	REGULAR (3-5 DAYS, DEFAULT)
	☐	RUSH (24 - 48 HRS, 50% SURCHARGE) BUSINESS HOURS
	☐	EMERGENCY (<24 HRS OR WEEKEND, 100% SURCHARGE)

TGE Tracking #	Date Collected or Received	Sample Type (Air, Bulk, Dust)	Description (As it will appear on the report)	Analysis Requested					
				Asbestos	Mould	Other (e.g. lead)	Sampling Data (air samples only)		
							Flow Rate (lpm)	Time (minutes)	Volume (litres)
17-09468	07-Dec-17	bulk	HCH - S4b, VFT, 12x12, grey/brown with white streaks non	X					
17-09469	07-Dec-17	bulk	HCH - S4c, VFT, 12x12, grey/brown with white streaks "	X					
17-09470	07-Dec-17	bulk	HCH - S5a, MJC	X					
17-09471	07-Dec-17	bulk	HCH - S5b, MJC	X					
17-09472	07-Dec-17	bulk	HCH - S5c, MJC	X					
17-09473	07-Dec-17	bulk	HCH - S6a, VFT, 9x9, green/grey with streaks non	X					
17-09474	07-Dec-17	bulk	HCH - S6b, VFT, 9x9, green/grey with streaks +ve Chry 1-10%	X					
17-09475	07-Dec-17	bulk	HCH - S6c, VFT, 9x9, green/grey with streaks "	X					
17-09476	07-Dec-17	bulk	HCH - S7a, ceiling cement boards 25-50% Amos. Lc	X					
17-09477	07-Dec-17	bulk	HCH - S7b, ceiling cement boards	X					

Special Instructions:
Samples will be discarded after 7 days.
Please provide a client sample reference (eg. PO #, address, etc.). Hudson Community Hall, pg. 2
Please specify Matrix Code for mould samples only: AN - Allergenco Air; BS - Bulk Sample; TS - Tape Sample; OT - Other Type

Relinquished by: (Please Print)	Date:	Time:	Signature:
L. Miller	09-Dec-17	10:00am	Layla Miller
Accepted by: (Please Print)	Date:		Signature:
TGE Project #:	**Date Analyzed:**	**Time:**	**Analyst:**
17-2666-15	Dec 12, 2017	4pm	N. L

True Grit Engineering
1263 Innovation Drive, Thunder Bay, ON P7B 0A2
T 807.626.5640 F 807.623.5690
www.truegriteng.com

Request for Laboratory Services - Chain of Custody

TRUE GRIT ENGINEERING

REPORT TO:		
	Company Name:	Municipality of Sioux Lookout/ TGE
	Contact:	
	Address:	
	Phone #:	Cell#
	Fax #:	
	Email:	
	Send results by:	☐ Fax ☐ Mail ☐ Phone ☐ Email

INVOICE TO:		
☑ Same ☐ Other	Company Name	
	Contact:	
	Address:	
	Phone #:	Fax #:
Turn Around Time	☑	REGULAR (3-5 DAYS, DEFAULT)
	☐	RUSH (24 - 48 HRS, 50% SURCHARGE) BUSINESS HOURS
(available for Asbestos and Mould analysis only)	☐	EMERGENCY (<24 HRS OR WEEKEND, 100% SURCHARGE)

TGE Tracking #	Date Collected or Received	Sample Type (Air, Bulk, Dust)	Description (As it will appear on the report)	Analysis Requested					
				Asbestos	Mould	Other (e.g. lead)	Sampling Data (air samples only)		
							Flow Rate (lpm)	Time (minutes)	Volume (litres)
17-09478	07-Dec-17	bulk	HCH - S7c, ceiling cement boards	X					
17-09479	07-Dec-17	bulk	HCH - S8a, asphalt/shingle covering	X					
17-09480	07-Dec-17	bulk	HCH - S8b, asphalt/shingle covering	X					
17-09481	07-Dec-17	bulk	HCH - S8c, asphalt/shingle covering	X					

Special Instructions:
Samples will be discarded after 7 days.
Please provide a client sample reference (eg. PO #, address, etc.).
Please specify Matrix Code for mould samples only: AN - Allergenco Air; BS - Bulk Sample; TS - Tape Sample; OT - Other Type

Hudson Community Hall, pg. 3

Relinquished by: (Please Print)	Date:	Time:	Signature:
L. Miller	09-Dec-17	10:00am	Layla Miller
Accepted by: (Please Print)	Date:		Signature:
TGE Project #: 17-2666-15	Date Analyzed: Dec 12, 2017	Time: 4 pm	Analyst:

TRUE GRIT ENGINEERING

December 19, 2017 Project No. 17-266-15

VIA EMAIL: (cbo@siouxlookout.ca)

Mr. Jody Brinkman
Manager of Development Services
Municipality of Sioux Lookout
PO Box 158, 25 Fifth Avenue
Sioux Lookout, ON P8T 1A4

Dear Mr. Brinkman:

Re: Asbestos Audit
Lost Lake Centre
21 Second Street, Hudson, Ontario

True Grit Engineering (TGE) is pleased to provide to the Municipality of Sioux Lookout the results of a baseline asbestos audit (AA) for the Lost Lake Centre located at 21 Second Street in Hudson, Ontario. The AA was requested by Mr. Jody Brinkman, Manager of Development Services for the Municipality of Sioux Lookout, and TGE understands that it was requested in order to meet the requirement under Ontario Regulation 278/05 (O. Reg. 278/05), *Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations,* for an inventory of asbestos-containing materials (ACM) for the building.

Summary

ACM were not identified in the subject building and the requirements of O. Reg. 278/05 do not apply. TGE provides recommendations for additional, invasive, investigation in the event of planned renovations.

Background and Methodology

The Lost Lake Centre is a single storey structure with a below grade poured concrete basement. The construction date is not known for this building; however, it is possible that the building was constructed prior to 1995.

Asbestos was used widely in building materials prior to 1995. Typical asbestos-containing building materials include, but are not limited to, thermal system insulation (TSI), flooring, plaster, stucco, mud joint compound (MJC) associated with finished drywall and ceiling tiles (CT). Building materials containing asbestos can still be purchased for limited applications (e.g. high temperature or corrosive applications); however, asbestos is not expected to be found in most building materials purchased and installed after 1995.

A site visit to the subject building was completed by Mr. Mike Broere, TGE Air Quality Scientist and Ms. Layla Miller, TGE Engineer-in-Training, on December 7, 2017. The site contact was Mr. Richard Fenelon, Facilities Division Supervisor, Municipality of Sioux Lookout. Since this AA was a baseline audit the inspection was minimally invasive and hidden areas, such as those above or behind solid finished ceilings or walls, were viewed where accessible. Samples were not collected where sample collection would compromise the integrity of the subject building or cause unsightly damage to finished surfaces. Additionally, samples were not collected from locations that were not safely accessible (e.g. working at heights).

1263 Innovation Drive, Thunder Bay, ON, P7B 0A2
Tel: (807) 626-5640 | Fax: (807) 623-5690

www.truegriteng.com

A visual inspection of functional spaces and rooms in the subject building was conducted to identify materials that could contain asbestos. Potential ACM observed during the site investigation were identified as either friable or non-friable. Friable material is defined in O. Reg. 278/05 as a material that when dry, can be crumbled, pulverized or powdered by hand pressure alone or one that exists in a crumbled, pulverized or powdered state. Additionally, the quantity and condition of potential ACM were noted during the site visit.

Building materials suspected of containing asbestos were collected and sampled in accordance with O. Reg. 278/05. Samples were analyzed via Polarized Light Microscopy (PLM) following the U.S. Environmental Protection Agency Test Method EPA/600/R-93/116: *Method for the Determination of Asbestos in Bulk Building Materials*, June 1993. Where samples consisted of more than one distinct layer (i.e. vinyl floor tile, paper-type backing, mastic, etc.), each layer was analyzed and reported separately.

Materials found to contain 0.5% or more asbestos were identified as ACM (as per O. Reg. 278/05). The attached summary table contains the results of analysis along with the condition, quantity and friability of identified ACM.

Results

A table of asbestos results, photographs and field notes, including a site plan sketch with sample locations indicated, and a laboratory Certificate of Analysis, are attached. Following is a brief summary of the results of the AA for the subject building:

- ACM were not identified in the Lost Lake Centre.
- ACM may be present in areas of the subject building that were not safely or reasonably accessible (e.g. roofing materials and the interior of wall cavities and ceiling spaces).

Conclusions and Recommendations

Based on the results of the AA for the Lost Lake Centre, TGE presents the following conclusions and associated recommendations (recommendations are shown in italic font):

- ACM were not identified in the subject building. The requirements of O. Reg. 278/05 do not apply to the subject building; however, the following recommendations are provided to ensure due diligence on the part of the building owner.
- *Keep a copy of this report on site.*
- *Provide a copy of this report to contractors when tendering or completing renovation or demolition work*
- *Prior to beginning any renovations, including demolition, complete a fully invasive AA for the renovation area. In particular, be aware that the following potential ACM may be present:*
    - *insulating material inside of hollow metal doors;*
    - *Insulating materials (e.g. vermiculite) inside attic spaces;*
    - *sealants or caulking materials around windows, doors or equipment penetrations through walls or the roof;*

- *roofing materials and exterior finishes that were not safely accessible;*
- *multiple layers of flooring under carpet, top layers of flooring or wooden subfloors;*
- *insulating material behind or above solid walls and ceilings; and*
- *insulating materials inside pumps, boilers, furnaces, valves, tanks, flanged pipe fittings, motors, transformers, generators or other equipment.*

- *Notify contractors that if, during the course of renovations or demolition, suspected ACM is encountered, all work should cease immediately and the material should be sampled and analyzed to determine whether it contains asbestos.*

Limitations

The information and data contained in this report, including without limitation, the results of any sampling and analyses conducted by TGE pursuant to its Agreement with the client, have been developed or obtained through the exercise of TGE's professional judgment and are set forth to the best of TGE's knowledge, information and belief. Although every effort has been made to confirm that this information is factual, complete and accurate, TGE makes no guarantees or warranties whatsoever, whether expressed or implied, with respect to such information or data.

The information and data presented in this report are based on the purpose and scope of the project and form the basis for any conclusions and recommendations presented herein. Any conclusions and recommendations presented herein do not preclude the existence of environmental concerns other than those that may have been identified.

Work performed by TGE personnel employed sound environmental assessment principles. TGE cannot guarantee the accuracy and reliability of information provided by others or third parties. Therefore, TGE does not claim responsibility for undisclosed environmental concerns or conditions that may result in costs for environmental clean-up and/or remediation. This report is intended for information purposes only.

Closure

We trust this is sufficient for your current requirements. If you have any questions or require further information, please do not hesitate to contact the undersigned at 807.285.9005.

Sincerely,

TRUE GRIT ENGINEERING

Jacquie Elvish, B.Sc., CRSP
Senior Health and Safety Specialist
jelvish@truegriteng.com

JE/LM/MB:ls

Enclosures: Table of Asbestos Results
Photographs
Field Notes (including a site sketch with sample locations)
Laboratory Certificate of Analysis

TRUE GRIT ENGINEERING

Table of Asbestos Results for Lost Lake Centre

1263 Innovation Drive, Thunder Bay, ON, P7B 0A2
Tel: (807) 626-5640 | Fax: (807) 623-5690

www.truegriteng.com

TRUE GRIT ENGINEERING

Table 1. Summary of Asbestos Information Lost Lake Centre 21 Second Street, Hudson, ON December 7, 2017					
Material Type[1] *(Sample reference #)*	**Description and Location[2]**	**Asbestos Containing? (Method)[3]**	**Asbestos Content and Friability[4]**	**Condition[4]**	**Estimated Total Qty[4]**
Reported date of construction is unknown.					
Identified Asbestos-Containing Materials (ACM)					
No ACM were identified in this building.					
Identified Non-ACM					
VSF *(LLC – S1)*	Beige VSF with a marble pattern observed in Rooms 3, 4 and 5 (over wooden sub-floor)	NO (LA)	--	--	--
MJC *(LLC – S2)*	MJC associated with finished gypsum board walls and ceilings observed throughout subject building.	NO (LA)	--	--	--
O *(LLC – S3)*	Stippled ceiling finish observed on ceiling throughout subject building.	NO (LA)	--	--	--
O	Carpet flooring observed throughout subject building (over wooden sub-floor on the main floor and over poured concrete in the basement).	NO (V)	--	--	--
CT	12"x12", wood fibre CTs observed in Rooms 1 and 16.	NO (V)	--	--	--
CT	2'x4', white wood fibre CT observed in Room 18	NO (V)	--	--	-
O	Uninsulated or foam insulated pipes and ductwork observed throughout the subject building.	NO (V)	--	--	--
O	Pink fibreglass insulation observed in the attic.	NO (V)	--	--	--
Potential ACM					
Insulating materials	*Potential for insulating materials inside hollow metal doors.*	*Possible*	--	--	--
Vermiculite	*Possible insulating materials in the attic (e.g. vermiculite) may contain asbestos.*	*Possible*	--	--	--
Sealants/caulking	*Caulking and/or sealants around windows, doors and roof mounted equipment.*	*Possible*	--	--	--
Roofing and exterior siding	*Roofing materials were not safely accessible and these may contain asbestos.*	*Possible*	--	--	--
Multiple Layers of Flooring	*There may be additional layers of flooring under existing flooring or carpets or, in some cases, under wooden subfloors.*				

TRUE GRIT ENGINEERING

Table 1. Summary of Asbestos Information Lost Lake Centre 21 Second Street, Hudson, ON December 7, 2017					
Material Type[1] *(Sample reference #)*	**Description and Location[2]**	**Asbestos Containing? (Method)[3]**	**Asbestos Content and Friability[4]**	**Condition[4]**	**Estimated Total Qty[4]**
TSI	*Insulating materials may be hidden behind or above solid walls and ceilings.* *Insulating materials or gaskets may be hidden inside of boilers, furnaces or tanks.*	*Possible*	--	--	--

Notes:

1. TSI = Thermal System Insulation on pipes, fittings and boilers; MJC = Mud Joint Compound associated with finished gypsum board; VFT = Vinyl Floor Tile; CT = Ceiling Tile; VSF = Vinyl Sheet Flooring.
2. Corresponds to room identifier on attached drawings.
3. LA = Samples collected and submitted for laboratory analysis; V = Materials identified by careful visual assessment; R = Reported by site contact to have been installed after 1995.
4. Information only provided for asbestos-containing materials.
5. EA = "Each" individual occurrence of pipe elbows, fittings or other small insulation coverings.
6. **Asbestos-containing material (i.e. 0.5% or more asbestos content) shown in bold font.**
7. *Possible asbestos-containing materials (i.e. materials not sampled in order to maintain the integrity of the building envelope) shown in italics. These materials should be sampled and analyzed for asbestos content prior to any activity that may disturb them (e.g. renovations).*

TRUE GRIT ENGINEERING

Photographs

1263 Innovation Drive, Thunder Bay, ON, P7B 0A2
Tel: (807) 626-5640 | Fax: (807) 623-5690

www.truegriteng.com

TRUE GRIT ENGINEERING

LOST LAKE CENTRE 21 SECOND STREET, HUDSON, ONTARIO	
GENERAL BUILDING PHOTOS	
	
Photo 1: Exterior of Lost Lake Centre.	**Photo 2: Exterior of Lost Lake Centre.**
	
Photo 3: Main entertaining room – Room #2 – Main floor.	**Photo 4: Main living room – Room #6 – Main floor.**

OTHER MATERIALS (NON-ACM AND POTENTIAL ACM)	

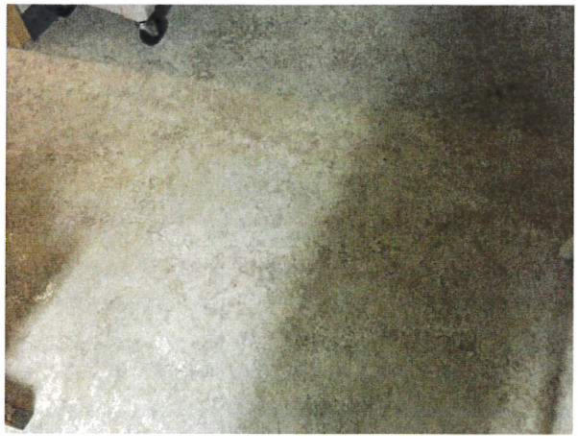



Photo 5: Non-Asbestos Containing (Non-ACM) beige VSF with a marble pattern (LLC – S1) – Room #3 – Main floor kitchen.	**Photo 6: Non-ACM MJC associated with finished gypsum board walls and ceilings (LLC – S2) – Room #3 – Main floor kitchen.**

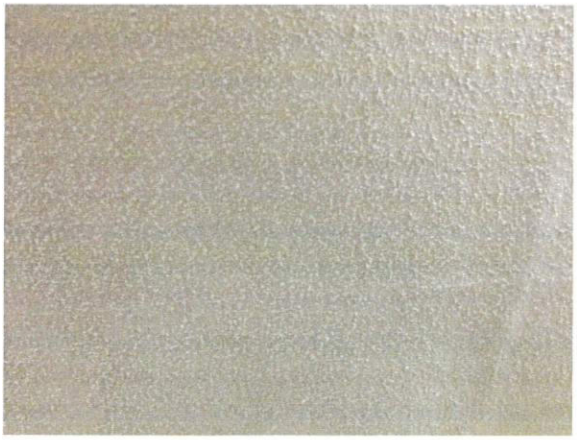



Photo 7: Non-ACM stippled ceiling finish (LLC – S3) – Room #2 – Main floor entertaining room.	**Photo 8: Non-ACM carpet flooring (visual I.D.) – Room #6 – Main floor living room.**

OTHER MATERIALS (NON-ACM AND POTENTIAL ACM)

Photo 9: Non-ACM 12"x12" wood fibre CTs (visual I.D.) – Room #1 – Main floor entrance.

Photo 10: Non-ACM 2'x4' wood fibre CTs (visual I.D.) – Room #18 – Basement rec room.

Photo 11: Non-ACM pink fibreglass insulation observed in the attic.

Photo 12: Non-ACM black foam insulation on piping in basement.

Other Materials (Non-ACM and Potential ACM)	
	
Photo 13: Potential ACM insulation materials inside hollow metal doors – Throughout subject building.	**Photo 14: Potential ACM caulking and/or sealants around windows, doors and roof-mounted equipment – Exterior.**

TRUE GRIT ENGINEERING

Field Notes (including a site sketch with sample locations)

1263 Innovation Drive, Thunder Bay, ON, P7B 0A2
Tel: (807) 626-5640 | Fax: (807) 623-5690

www.truegriteng.com

Master List - Asbestos Samples

TRUE GRIT ENGINEERING

*NO asbestos detected *

Facility	Lost Lake Centre	**Date**	7-dec-17
Project #	17-266-15		

Sample ID	Description
LLC-S1a-e	beige VSF w/ a marble pattern
LLC-S2a-e	MJC
LLC-S3a-e	stippled ceiling.

TRUE GRIT ENGINEERING
1263 Innovation Drive,
Thunder Bay, ON P7B 0A2

DATE: Dec. 7, 2017 PROJECT NO. 17-266-15
DESIGNED BY: LM/MB CHECKED BY: .....
PROJECT: Asbestos Audit for 13 Municipal Buildings
CLIENT: Municipality of Sioux Lookout

Lost Lake Centre, main Floor Plan

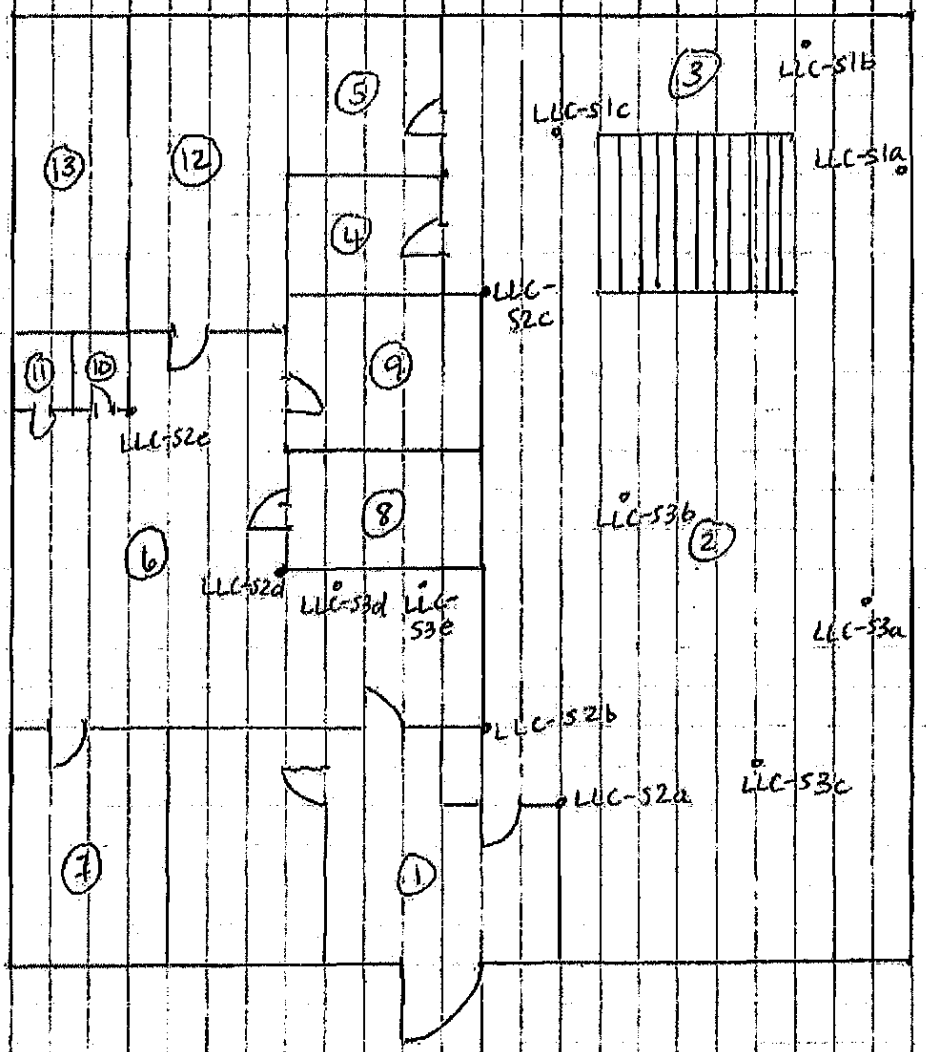


Figure 1. Main Floor Sample Locations

NOT TO SCALE

LEGEND
(1) Room Number (Assigned by TGE)
•S#a-c Asbestos Sample Location
x S#a-c Asbestos-Containing sample Location

SHEET NO.: ..... OF .....

TRUE GRIT ENGINEERING
1263 Innovation Drive,
Thunder Bay, ON P7B 0A2

DATE: Dec. 7, 2017 PROJECT NO 17266/5
DESIGNED BY: LM/MB CHECKED BY: .....
PROJECT: Asbestos Audit for 13 Municipal Buildings

CLIENT: Municipality of Sioux Lookout

Lost Lake Centre, Basement Floor Plan

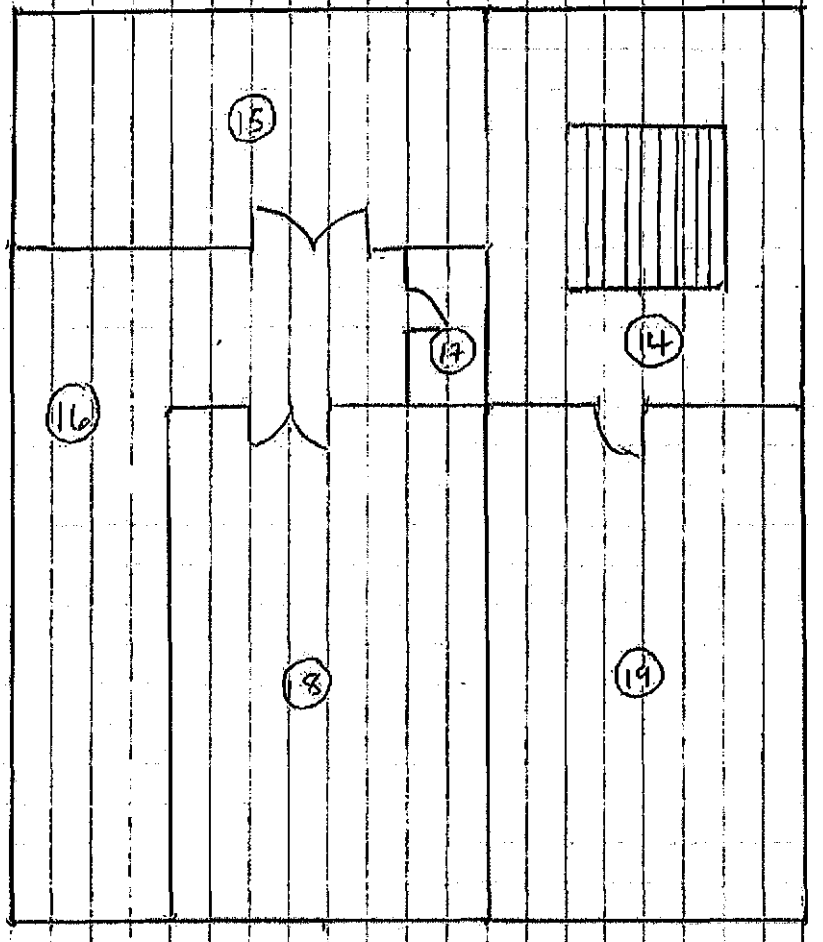


Figure 2. Basement Sample Locations

NOT TO SCALE

LEGEND
(1) Room Number (Assigned by T&E)
•S#a-c Asbestos Sample Location
XS#a-c Asbestos-Containing Sample Location

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Lost Lake Centre
Building I.D.	21 Second Street, Hudson
Floor	main
Room I.D.	① Entrance

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: DEC. 7.2017
Assessor: LM/MB

Ceiling Height 8'

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
	F								X	carpet										
	F								V	wood s.f.										
VS LLC-S2	W					X	X						X		X					
	C							X		textured boards 12"x12" mud fin CT										
	O								X	3 hollow metal doors										

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

* all sampled materials were in good condition throughout *

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Lost Lake Centre
Building I.D.	21 Second Street, Hudson
Floor	main
Room I.D.	(2) open area (tables)

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 8, 2017
Assessor: Lmima

Ceiling Height 9'

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PED[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
	F								x	carpet										
	F								x	wood s.f.										
LC-S2a/b	W					x	x						x		x					
LC-S3a-c	C					x	x			texture coat			x		x					

Notes:

1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Lost Lake Centre
Building I.D.	21 Second Street, Hudson
Floor	main
Room I.D.	(5) kitchen

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec 7, 2017
Assessor: LM/MB

Ceiling Height 9'

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
LC-SLAC	F			X						yellow textured			X		X					
	F								X	wood s.f.										
LC-SZC	W					X	X						X		X					
VS LC-SZ	C					X	X						X		X					
	O								X	1 hollow metal door										

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Lost Lake Centre
Building I.D.	21 Second Street, Hudson
Floor	main
Room I.D.	④ WR

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM / MB

Ceiling Height 8'

Room Dimensions

	LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
	Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
VS	LLC-S1	F			X						yellow textured			X		X					
		E								X	wood sf										
VS	LLC-S2	W					X	X						X		X					
VS	LLC-S2	C					X	X						X		X					

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H – high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Lost Lake Centre
Building I.D.	21 Second Street, Hudson
Floor	main
Room I.D.	(5) Pantry

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM / MB

Ceiling Height 9'

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MUC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
VS LLC-S1	F			X						Yellow text.			X		X					
	F								X	Wood s.f.										
VS LLC-S2	W					X		X					X		X					
VS LLC-S2	C					X		X					X		X					

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Lost Lake Centre
Building I.D.	21 Second Street, Hudson
Floor	main
Room I.D.	(1) living room

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM / MB

Ceiling Height 9'

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
1	F								x	carpet										
	F								x	wood. s.f.										
LK-S2d.e	W					x	x						x		x					
LK-S3d.e	C					x	x			texture coat			x		x					

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Lost Lake Centre
Building I.D.	21 Second Street, Hudson
Floor	main
Room I.D.	(7) Bedroom

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM/MB

Ceiling Height 9'

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
	E								X	carpet										
	E								X	wood S.F										
VS LLC-S2	W					X	X						X		X					
VS LLC-S3	C					X	X			texture coat			X		X					

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Lost Lake Centre
Building I.D.	21 Second Street, Hudson
Floor	main
Room I.D.	(8) closet

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM/MB

Ceiling Height 9'

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
	F								X	carpet										
	F								X	wood S.F										
VS LLC-S2	W					X	X													
VS LLC-S3	C					X	X			texture coat										

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Lost Lake Centre
Building I.D.	21 Second Street, Hudson
Floor	main
Room I.D.	(9) Room

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec 7, 2017
Assessor: LM/MB

Ceiling Height 9'

Room Dimensions

	LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
	Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
		F								X	carpet										
		F								X	wood s.f.										
VS	LLC-S2	W					X	X						X		X					
VS	LLC-S3	C					X	X			texture coat			X		X					

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Lost Lake Centre
Building I.D.	21 Second Street, Hudson
Floor	main
Room I.D.	(1A WR #1

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM / MB

Ceiling Height 8'

Room Dimensions

	LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
	Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
		F								X	carpet										
		F								X	wood sf										
VS	LLC-S2 W						X	X						X		X					
VS	LLC-S2 C						X	X						X		X					

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Lost Lake Centre
Building I.D.	21 Second Street, Hudson
Floor	main
Room I.D.	(11) WR #2

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM / MB

Ceiling Height 8'
Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
	F								X	carpet										
	F								X	wood S.F.										
VS LLC-S2	W					X	X						X		X					
VS LLC-S2	C					X	X						X		X					

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Lost Lake Centre
Building I.D.	21 Second Street, Hudson
Floor	main
Room I.D.	(12) kitchen

Project Information

Project #: 17-266-15
Client: Corporation of the Municipality of Sioux Lookout
Date: Dec. 7, 2017
Assessor: LM/MB

Ceiling Height 9'

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MUC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
	F								X	carpet										
	F								X	wood s.f										
VS LLC-S2	W					X	X						X		X					
VS LLC-S3	C					X	X			texture coat			X		X					
		(13) kitchen Storage																		
	F								X	carpet										
	F								X	wood s.f.										
VS LLC-S2	W					X	X						X		X					
VS LLC-S3	C					X	X			texture coat.			X		X					

Notes:

1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MUC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed:~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Lost Lake Centre
Building I.D.	21 Second Street, Hudson
Floor	basement
Room I.D.	(14) storage.

Project Information

Project #:	17-21ole-15
Client:	Municipality of Sioux Lookout
Date:	Dec. 7, 2017
Assessor:	LM/MB

Ceiling Height

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MUC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
	F								x	P-conc.										
	W								x	Plywood										
	W								x	wood										
	W								x	P-conc.										
	C								x	joists + wood.										
	O								x	unins duct work.										
		(15) storage / mech.																		
	F								x	P-conc.										
	W								x	P-conc.										
	W								x	wood boards										
	C								x	joists + wood										
	O								x	unins piping										
	O								x	unins duct work										
	G								x	fuel oil tank										
	O								x	HWT										
	O								x	furnace										

Notes:
1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Lost Lake Centre
Building I.D.	21 Second street, Hudson
Floor	basement
Room I.D.	(16) storage

Project Information

Project #:	17-2616-16
Client:	Municipality of Sioux Lookout
Date:	Dec. 7, 2017
Assessor:	LM / MB

Ceiling Height

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
	F								X	P-conc.										
	W						X			unfinished GB										
	W								X	wood panel										
	W								X	P-conc.										
	C							X		unfinished GB										
	C								X	12x12 wood fibre										
	C								X	wood joists / boards										
		(17) storage rm																		
	F								X	P-conc.										
	W						X			unfinished										
	W							X		unfinished										
	C								X	wood										
	O								X	Unins duct wk										

Notes:

1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI – thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

HAZARDOUS MATERIALS SURVEY FORM

TRUE GRIT ENGINEERING

Building Information

Facility	Lost Lake Centre
Building I.D.	21 Second Street
Floor	basement
Room I.D.	(18) rec. rm.

Project Information

Project #:	17-2606-15
Client:	municipality of Sioux Lookout
Date:	Dec. 7, 2017 ✓
Assessor:	LM/MB

Ceiling Height

Room Dimensions

LOCATION		TYPE OF MATERIAL[3]								Comments	QTY	FRIABILITY[4]		CONDITION[5]				PFD[6]		
Sample ID[1]	Surface[2]	TSI (Pipe)	TSI (Other)	VSF	VFT	MJC	Drywall	CT	Other			F	NF	E	G	F	P	C	V	A
	F								X	carpet										
	W								X	wood panelling										
	C							X		wood fibre										
	C						X			unfinished above CT.										
	—	—	—		—		—	—		— —										
		(19) storage.																		
	F								X	P-conc.										
	W								X	P-conc.										
	C								X	wood										
		exterior																		
	F									basement – poured concrete.										
	W								X	corrugated metal siding										
	W								X	metal grating										
	roof	cannot view (snow)																		

Notes:

1. S# = sample; VS (S#) = visually similar to sample collected elsewhere.
2. C = ceiling; W = Wall; F = Floor; P = Piping; V = vessel; O = Other
3. TSI = thermal system insulation; VSF = vinyl sheet flooring; VFT = vinyl floor tile; MJC = mud joint compound; CT = ceiling tile
4. F = friable; NF = non-friable
5. E = excellent (no damage); G = good (<10% damage); F = fair (<25% damage); P = poor (>25% damage)
6. C = contact/accessible; V = vibration; A = air erosion. Use H = high; M = moderate; L = low.

NOTE: for trowelled and sprayed products sample as follows: <90 sm = 3 samples; >= 90 and < 450 sm = 5 samples; >= 450 sm = 7 samples

~~Include information on # of fluorescent light fixtures, ballasts checked, lead paint check results, mercury thermostats, smoke detectors observed.~~ N/A

Include information about the type of heating system in place in the building (eg. Forced Air gas, radiant hot water, electric baseboard)

TRUE GRIT ENGINEERING

Laboratory Certificate of Analysis

1263 Innovation Drive, Thunder Bay, ON, P7B 0A2
Tel: (807) 626-5640 | Fax: (807) 623-5690

www.truegriteng.com

True Grit Engineering
1263 Innovation Drive
Thunder Bay, ON P7B 0A2
T 807.626.5640 F 807.623.5690 www.truegriteng.com

Table 1: Fibre Analysis for samples submitted by TGE on behalf of the Municipality of Sioux Lookout

TGE Reference #: 17-266-15
Client Reference: Lost Lake Centre, Hudson

Sample #	Sample description	Asbestos Detected	Type of Asbestos	Non-Asbestos Fibres	Percent* (volume)
1	Bulk sample identified as "LLC – S1a, vinyl sheet flooring (VSF) with marble pattern". [17-09445]. Beige flooring with attached fibrous backing and yellow mastic.				
Layer 1	Flooring portion.	NO	--	Non-fibrous	
Layer 2	Backing portion.	NO	--	MMMF	1-10%
Layer 3	Mastic portion.	NO	--	Non-fibrous	
2	Bulk sample identified as "LLC – S1b, VSF with marble pattern". [17-09446]. Beige flooring with attached fibrous backing and yellow mastic.				
Layer 1	Flooring portion.	NO	--	Non-fibrous	
Layer 2	Backing portion.	NO	--	MMMF	1-10%
Layer 3	Mastic portion.	NO	--	Non-fibrous	

METHOD: Dispersion Staining with Polarized Light Microscopy (PLM), U.S. Environmental Protection Agency Test Method EPA/600/R-93/116 Method for Determination of Asbestos in Bulk Building Materials, June 1993 as per Ontario Regulation 278/05, November 1, 2005.
Bulk Asbestos Proficiency Analytical Testing (BAPAT) Participating Laboratory: True Grit Engineering (TGE) participates in the American Industrial Hygiene Association (AIHA) BAPAT program, laboratory ID 211465.
NOTES:
* Results reported as percent (by volume) of total particulates observed. Results reported for a sample may not total 100%.
* Ontario Regulation 278/05 defines any material containing 0.5% or more asbestos as an asbestos-containing material.
MMMF (Man-Made Mineral Fibres) may include fibreglass, mineral wool, slag wool, rock wool and ceramic fibres. Synthetic fibres may include; nylon, dacron, orlon, polyester.
Detection Limit of this method is approximately 0.5% (percent volume). The symbol for less than is " <" and the symbol for greater than is ">"
[#####] = TGE sample tracking number

DATE: December 12, 2017

ANALYST: _____
Heather Wilson, B.Sc.
Industrial Hygiene Scientist

REVIEWED: _____
Jacquie Elvish, B.Sc., CRSP
Senior Health and Safety Specialist

True Grit Engineering
1263 Innovation Drive
Thunder Bay, ON P7B 0A2
T 807.626.5640 F 807.623.5690 www.truegriteng.com

Table 1: Fibre Analysis for samples submitted by TGE on behalf of the Municipality of Sioux Lookout

TGE Reference #: 17-266-15
Client Reference: Lost Lake Centre, Hudson

Sample #	Sample description	Asbestos Detected	Type of Asbestos	Non-Asbestos Fibres	Percent* (volume)
3	Bulk sample identified as "LLC – S1c, VSF with marble pattern". [17-09447]. Beige flooring with attached fibrous backing and yellow mastic.				
Layer 1	Flooring portion.	NO	--	Non-fibrous	
Layer 2	Backing portion.	NO	--	MMMF	1-10%
Layer 3	Mastic portion.	NO	--	Non-fibrous	
4	Bulk sample identified as "LLC – S2a, mud joint compound (MJC)". [17-09448]. Firm, white chalky material	NO	--	Non-fibrous	
5	Bulk sample identified as "LLC – S2b, MJC". [17-09449]. Firm, white chalky material	NO	--	Non-fibrous	
6	Bulk sample identified as "LLC – S2c, MJC". [17-09450]. Firm, white chalky material	NO	--	Non-fibrous	

METHOD: Dispersion Staining with Polarized Light Microscopy (PLM), U.S. Environmental Protection Agency Test Method EPA/600/R-93/116 Method for Determination of Asbestos in Bulk Building Materials, June 1993 as per Ontario Regulation 278/05, November 1, 2005.
Bulk Asbestos Proficiency Analytical Testing (BAPAT) Participating Laboratory: True Grit Engineering (TGE) participates in the American Industrial Hygiene Association (AIHA) BAPAT program, laboratory ID 211465.
NOTES:
* Results reported as percent (by volume) of total particulates observed. Results reported for a sample may not total 100%.
* Ontario Regulation 278/05 defines any material containing 0.5% or more asbestos as an asbestos-containing material.
MMMF (Man-Made Mineral Fibres) may include fibreglass, mineral wool, slag wool, rock wool and ceramic fibres. Synthetic fibres may include; nylon, dacron, orlon, polyester.
Detection Limit of this method is approximately 0.5% (percent volume). The symbol for less than is " <" and the symbol for greater than is ">"
[#####] = TGE sample tracking number

DATE: December 12, 2017

ANALYST: _____
Heather Wilson, B.Sc.
Industrial Hygiene Scientist

REVIEWED: _____
Jacquie Elvish, B.Sc., CRSP
Senior Health and Safety Specialist

True Grit Engineering
1263 Innovation Drive
Thunder Bay, ON P7B 0A2
T 807.626.5640 F 807.623.5690 www.truegriteng.com

Table 1: Fibre Analysis for samples submitted by TGE on behalf of the Municipality of Sioux Lookout

TGE Reference #: 17-266-15
Client Reference: Lost Lake Centre, Hudson

Sample #	Sample description	Asbestos Detected	Type of Asbestos	Non-Asbestos Fibres	Percent* (volume)
7	Bulk sample identified as "LLC – S2d, MJC". [17-09451]. Firm, white chalky material	NO	--	Non-fibrous	
8	Bulk sample identified as "LLC – S2e, MJC". [17-09452]. Firm, white chalky material	NO	--	Non-fibrous	
9	Bulk sample identified as "LLC – S3a, stippled ceiling". [17-09453]. Firm, white, chalky textured material.	NO	--	Cellulose	1-10%
10	Bulk sample identified as "LLC – S3b, stippled ceiling". [17-09454]. Firm, white, chalky textured material.	NO	--	Cellulose	1-10%

METHOD: Dispersion Staining with Polarized Light Microscopy (PLM), U.S. Environmental Protection Agency Test Method EPA/600/R-93/116 Method for Determination of Asbestos in Bulk Building Materials, June 1993 as per Ontario Regulation 278/05, November 1, 2005.
Bulk Asbestos Proficiency Analytical Testing (BAPAT) Participating Laboratory: True Grit Engineering (TGE) participates in the American Industrial Hygiene Association (AIHA) BAPAT program, laboratory ID 211465.
NOTES:
* Results reported as percent (by volume) of total particulates observed. Results reported for a sample may not total 100%.
* Ontario Regulation 278/05 defines any material containing 0.5% or more asbestos as an asbestos-containing material.
MMMF (Man-Made Mineral Fibres) may include fibreglass, mineral wool, slag wool, rock wool and ceramic fibres. Synthetic fibres may include; nylon, dacron, orlon, polyester.
Detection Limit of this method is approximately 0.5% (percent volume). The symbol for less than is " <" and the symbol for greater than is ">"
[######] = TGE sample tracking number

DATE: December 12, 2017

ANALYST: _____
Heather Wilson, B.Sc.
Industrial Hygiene Scientist

REVIEWED: _____
Jacquie Elvish, B.Sc., CRSP
Senior Health and Safety Specialist

True Grit Engineering
1263 Innovation Drive
Thunder Bay, ON P7B 0A2
T 807.626.5640 F 807.623.5690 www.truegriteng.com

Table 1: Fibre Analysis for samples submitted by TGE on behalf of the Municipality of Sioux Lookout

TGE Reference #: 17-266-15
Client Reference: Lost Lake Centre, Hudson

Sample #	Sample description	Asbestos Detected	Type of Asbestos	Non-Asbestos Fibres	Percent* (volume)
11	Bulk sample identified as "LLC – S3c, stippled ceiling". [17-09455]. Firm, white, chalky textured material.	NO	--	Cellulose	1-10%
12	Bulk sample identified as "LLC – S3d, stippled ceiling". [17-09456]. Firm, white, chalky textured material.	NO	--	Cellulose	1-10%
13	Bulk sample identified as "LLC – S3e, stippled ceiling". [17-09457]. Firm, white, chalky textured material.	NO	--	Cellulose	1-10%

METHOD: Dispersion Staining with Polarized Light Microscopy (PLM), U.S. Environmental Protection Agency Test Method EPA/600/R-93/116 Method for Determination of Asbestos in Bulk Building Materials, June 1993 as per Ontario Regulation 278/05, November 1, 2005.
Bulk Asbestos Proficiency Analytical Testing (BAPAT) Participating Laboratory: True Grit Engineering (TGE) participates in the American Industrial Hygiene Association (AIHA) BAPAT program, laboratory ID 211465.
NOTES:
* Results reported as percent (by volume) of total particulates observed. Results reported for a sample may not total 100%.
* Ontario Regulation 278/05 defines any material containing 0.5% or more asbestos as an asbestos-containing material.
MMMF (Man-Made Mineral Fibres) may include fibreglass, mineral wool, slag wool, rock wool and ceramic fibres. Synthetic fibres may include; nylon, dacron, orlon, polyester.
Detection Limit of this method is approximately 0.5% (percent volume). The symbol for less than is " <" and the symbol for greater than is ">"
[#####] = TGE sample tracking number

DATE: December 12, 2017

ANALYST: _____
Heather Wilson, B.Sc.
Industrial Hygiene Scientist

REVIEWED: _____
Jacquie Elvish, B.Sc., CRSP
Senior Health and Safety Specialist

True Grit Engineering
1263 Innovation Drive, Thunder Bay, ON P7B 0A2
T 807.626.5640 F 807.623.5690
www.truegriteng.com

Request for Laboratory Services - Chain of Custody

TRUE GRIT ENGINEERING

REPORT TO:		
	Company Name:	Municipality of Sioux Lookout/ TGE
	Contact:	
	Address:	
	Phone #:	Cell#
	Fax #:	
	Email:	
	Send results by:	☐Fax ☐Mail ☐Phone ☐Email

INVOICE TO:		
☑ Same ☐ Other	Company Name	
	Contact:	
	Address:	
	Phone #:	Fax #:
Turn Around Time	☑	REGULAR (3-5 DAYS, DEFAULT)
	☐	RUSH (24 - 48 HRS, 50% SURCHARGE) BUSINESS HOURS
(available for Asbestos and Mould analysis only)	☐	EMERGENCY (<24 HRS OR WEEKEND, 100% SURCHARGE)

TGE Tracking #	Date Collected or Received	Sample Type (Air, Bulk, Dust)	Description (As it will appear on the report)	Analysis Requested					
				Asbestos	Mould	Other (e.g. lead)	Sampling Data (air samples only)		
							Flow Rate (lpm)	Time (minutes)	Volume (litres)
17-09445	07-Dec-17	bulk	LLC - S1a, VSF, beige with marble pattern flooring + mastic => non S.b	X					
17-09446	07-Dec-17	bulk	LLC - S1b, VSF, beige with marble pattern backing 1-10% MMMF	X					
17-09447	07-Dec-17	bulk	LLC - S1c, VSF, beige with marble pattern	X					
17-09448	07-Dec-17	bulk	LLC - S2a, MJC non-S.b brous	X					
17-09449	07-Dec-17	bulk	LLC - S2b, MJC	X					
17-09450	07-Dec-17	bulk	LLC - S2c, MJC	X					
17-09451	07-Dec-17	bulk	LLC - S2d, MJC	X					
17-09452	07-Dec-17	bulk	LLC - S2e, MJC	X					
17-09453	07-Dec-17	bulk	LLC - S3a, stippled ceiling 1-10% cellulose	X					
17-09454	07-Dec-17	bulk	LLC - S3b, stippled ceiling	X					

Special Instructions:
Samples will be discarded after 7 days.
Lost Lake Centre, Hudson, pg. 1
Please provide a client sample reference (eg. PO #, address, etc.).
Please specify Matrix Code for mould samples only: AN - Allergenco Air; BS - Bulk Sample; TS - Tape Sample; OT - Other Type

Relinquished by: (Please Print)	Date:	Time:	Signature:
L. Miller	09-Dec-17	10:00am	Layla Miller
Accepted by: (Please Print)	Date:		Signature:
TGE Project #: 17-266-15	**Date Analyzed:** Dec 12/2017	**Time:** 1:45 pm	**Analyst:** AL

True Grit Engineering
1263 Innovation Drive, Thunder Bay, ON P7B 0A2
T 807.626.5640 F 807.623.5690
www.truegriteng.com

Request for Laboratory Services - Chain of Custody

TRUE GRIT ENGINEERING

REPORT TO:		
	Company Name:	Municipality of Sioux Lookout/ TGE
	Contact:	
	Address:	
	Phone #:	Cell#
	Fax #:	
	Email:	
	Send results by:	☐ Fax ☐ Mail ☐ Phone ☐ Email

INVOICE TO:		
☑ Same ☐ Other	Company Name	
	Contact:	
	Address:	
	Phone #:	Fax #:
Turn Around Time (available for Asbestos and Mould analysis only)	☑	REGULAR (3-5 DAYS, DEFAULT)
	☐	RUSH (24 - 48 HRS, 50% SURCHARGE) BUSINESS HOURS
	☐	EMERGENCY (<24 HRS OR WEEKEND, 100% SURCHARGE)

TGE Tracking #	Date Collected or Received	Sample Type (Air, Bulk, Dust)	Description (As it will appear on the report)	Analysis Requested					
				Asbestos	Mould	Other (e.g. lead)	Sampling Data (air samples only)		
							Flow Rate (lpm)	Time (minutes)	Volume (litres)
17-09455	07-Dec-17	bulk	LLC - S3c, stippled ceiling	X					
17-09456	07-Dec-17	bulk	LLC - S3d, stippled ceiling	X					
17-09457	07-Dec-17	bulk	LLC - S3e, stippled ceiling	X					

Special Instructions:
Samples will be discarded after 7 days.
Please provide a client sample reference (eg. PO #, address, etc.).
Please specify Matrix Code for mould samples only: AN - Allergenco Air; BS - Bulk Sample; TS - Tape Sample; OT - Other Type

Lost Lake Centre, Hudson, pg. 2

Relinquished by: (Please Print)	Date:	Time:	Signature:
L. Miller	09-Dec-17	10:00am	Layla Miller
Accepted by: (Please Print)	Date:		Signature:
TGE Project #: 17-2666-15	**Date Analyzed:** Dec 12/17	**Time:** 1:45pm	**Analyst:**