



ECO
Environmental Consulting
Occupational Health

PRE-RENOVATION DESIGNATED SUBSTANCE SURVEY

**TDSB Solar Roofing Project
Givins/Shaw Junior Public School
SAP# 3772
49 Givins Street, Toronto, Ontario**

Submitted to:
Mr. Brad Williams
Toronto District School Board
85 Shorting Road, 2nd Floor
Toronto, ON
M1S 3V3

Presented by:
ECO Management Inc.
75 Courtneypark Drive West, Unit 1
Mississauga, ON
L5W 0E3

**ECO Project No.: 17108
May 30, 2018**

TDSB Solar Roofing Project
Givins/Shaw Junior Public School
49 Givins Street, Toronto, Ontario
ECOH Project No.: 17108

Introduction:

In compliance with Section 30 of the Occupational Health and Safety Act (OHSA), a Designated Substances Survey (DSS) of Givins/Shaw Junior Public School roofing area was performed prior to repair/renovation for the installation of solar panels. There are **nine (9)** roof sections that were covered in this survey. See drawing in Attachment 1.

Assessment:

Table 1 lists the chemical agents that are prescribed as designated substances (Ontario Regulation (O. Reg.) 490/09), whether likely to be present, observed or presumed, its location(s) and samples (if any).

Designated Substance	Sample* Yes/No	Sampled/Assumed	Location** (Roof sections)	Present? Yes/No
Asbestos	Yes	Sampled	B2, C	Yes
			A, A2, C1, D, E, E1, E2	No
Acrylonitrile	No	-	-	No
Arsenic	No	-	-	No
Benzene	No	-	-	No
Coke Oven Emissions	No	-	-	No
Ethylene Oxide	No	-	-	No
Isocyanates	No	-	-	No
Lead	No	Assumed	-	Yes
Mercury	No	-	-	No
Silica	No	Assumed	-	Yes
Vinyl Chloride	No	-	-	No

* See Attachment 1 and 2

** See drawing in Attachment 1

Asbestos: In compliance with O. Reg. 278/05, samples of roofing material from required roof section(s) were collected by the use of a hand auger. These samples were collected by Toronto District School Board (TDSB) personnel in the presence of an ECOH inspector. The sampling locations are identified in Attachment 1.

These samples were sent to an accredited laboratory for analysis. The laboratory was requested to follow the principle of ‘stop positive’. This means that no further analysis if one of the samples of a set of samples (usually three) or if one of the samples of a set of samples from a homogeneous material is found to be positive. Chain of custody and certificate of analysis are provided in Attachment 2.

None of the sampled roofing materials (core samples) were found to contain asbestos above the method detection limit.

Results of asbestos analyses of other sampled materials (caulking) as shown in Attachment 2 indicate the presence of asbestos.

Lead: Although no sources of lead or lead-containing products were observed during this survey, there may be some paints that contain traces of lead and as such for the purpose of this survey all paints are presumed to contain trace amounts of lead. Appropriate precautions are advised while working with painted materials.

Silica: Free crystalline silica in the form of common construction sand is present in all concrete and masonry products and as such it is presumed to be present and due precautions are advised while dealing with such materials.

Conclusions and Recommendations:

Of the **nine (9)** roof sections, **two (2)** sections (**B2 & C**) are judged to be asbestos containing and as such, due precautions must be taken during renovation and repair of the roofs.

Worker Protection:

The extent and type of preventive measures necessary are in part dictated by the requirements prescribed in O. Reg. 278/05. Depending on the materials to be worked on and the type of tools that may be used in this project, ECOH offers the following recommendations:

- Type 1 Asbestos Safety Precautions are required for non-friable ACM using non-powered hand-held tools.
- Types 2 Asbestos Safety Precautions are required for non-friable ACM using power tools attached to a dust collecting device equipped with a HEPA filter.
- Type 3 Asbestos Safety Precautions are required for non-friable ACM using power tools not attached to a dust collecting device.

Any demolition, renovation or maintenance activities involving materials found NOT to contain asbestos, should implement general health and safety precautions including, in part, the use of dust suppression techniques and appropriate respiratory protection.

Waste Disposal:

O. Reg. 347/90 sets out guidance for the disposal of asbestos waste. ACM are not present as a component of sampled roofing materials. As such it is advised that roofing material can be disposed of as non-asbestos waste.

The other ACMs such as caulking, flashing etc. are not likely to form a relatively homogeneous waste, and as such cannot be treated as non-asbestos waste and should be disposed of accordingly.

Statement of Limitations:

Due to the nature of building construction, and on-going building activities, some limitations exist to the thoroughness of a building assessment. The field observations, measurements and analysis are considered sufficient in detail and scope to form a reasonable basis for the findings and conclusions presented in this report. The observations, results and conclusions drawn by ECOH are limited to the specific scope of work for which ECOH was retained, and are based solely on information generated as a result of the specific scope of work authorized by the TDSB. Only those items that are capable of being observed, and are reasonably obvious to ECOH personnel or have been identified to ECOH by other parties, can be reported. ECOH has

**TDSB Solar Roofing Project
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49 Givins Street, Toronto, Ontario
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exercised a degree of thoroughness and competence that is consistent with the profession during the execution of this assessment. ECOH considers the opinions and information as they are presented in this report to be factual at the time of the assessment. The conclusions are limited to the specific locations of where testing and/or observations were completed during the course of the assessment.

It is important to note that work was completed with the utmost care and our extensive expertise in carrying out assessments. ECOH believes that the information collected during the assessment concerning the Work Area is reliable. No other warranties are implied or expressed. ECOH, to the best of its knowledge, believes this report to be accurate, however, ECOH cannot guarantee the completeness or accuracy of information supplied to ECOH by third parties. It should also be noted that any investigation regarding the presence of hazardous materials in the work area is based on interpretation of conditions determined at specific sampling locations, and conditions may vary between sampling locations.

ECOH is an Environmental Consulting Company and as such any results or conclusions presented in this report should not be construed as legal advice. The material in this report reflects ECOH's professional interpretation of information available at the time of report preparation. Any use which a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. ECOH accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report. Should additional information become available that suggests other environmental issues of concern beyond that described in this report, ECOH retains the right to review this information and modify conclusions and recommendations presented in this report accordingly.

ECOH

Environmental Consulting
Occupational Health

Prepared By:



Elliot Dametto, B.Sc.
Environmental Scientist

Reviewed By:



Zafar Iqbal, B.Eng.
Operations Manager

Attachment 1: Drawing

Attachment 2: Laboratory Analysis Reports and Chain of Custody (COC)

Attachment 1:
Drawing

LEGEND

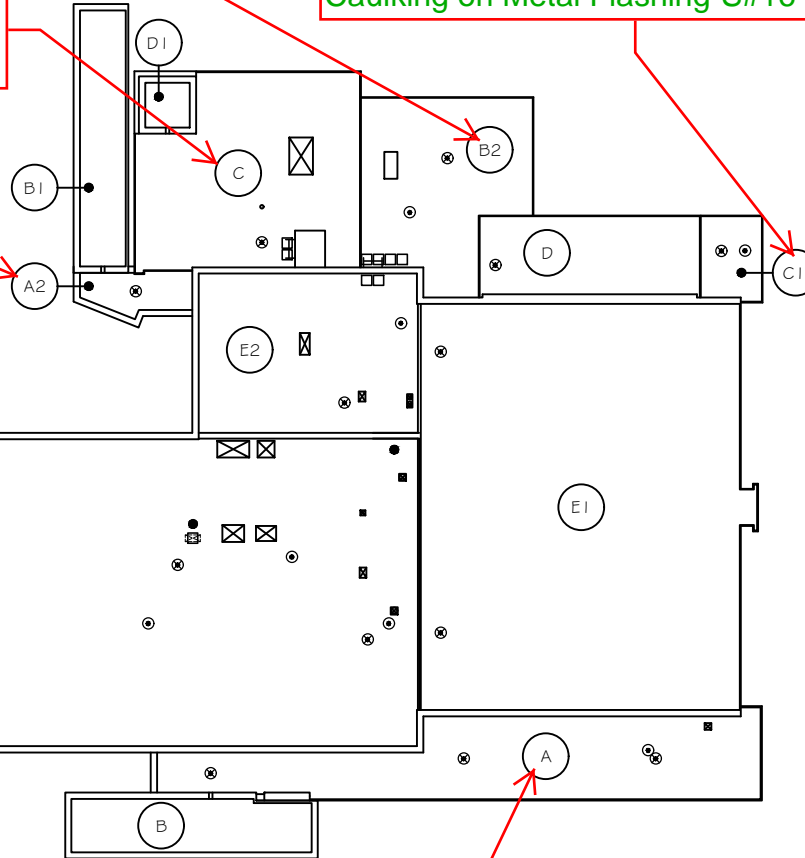
Asbestos Containing Material
Non Asbestos Containing Material

Roofing Materials - S#7 - ND
Caulking on Metal Flashing-S#8-Black-ND
Caulking on Metal Flashing (1LF)-S#9-Grey-3%
Caulking on Metal Flashing-S#10-White-ND

Roofing Materials - S#11 - ND
Caulking on Metal Flashing-S#12-Black-ND
Caulking on Metal Flashing (35LF)-S#13-Grey-5%
Caulking on Skylight-S#14-Clear-ND

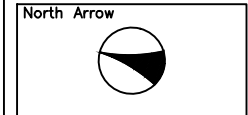
Roofing Materials - S#5 - ND
Caulking on Metal Flashing-S#6-Grey-ND

Roofing Materials - S#15 - ND
Caulking on Metal Flashing-S#16-Black-ND



SYMBOLS

- NEW ROOF DRAIN
- ROOF DRAIN
- PLUMBING STACK
- SLEEVE & COLLAR
- EQUIPMENT CURB
- SUPPORT
- LADDER
- CHEMCURB & RAIN COLLAR
- SLOPE
- MISC. RAISED EQUIP.
- ANTENNA
- SCUPPER
- ROOF HATCH



Facility Services

Toronto District School Board

Technical Services Division
Design & Construction Unit
15 Oakburn Cres. Toronto, Ontario M2N 2T5
t. 416-395-4588 / f. 416-395-9734

Facility
Givins/Shaw Jr P.S.
Address
49 Givins St
M6J 2X5
Toronto, Ont.

Sheet Title
Roof Plan

Facility # 0772	Last Update 17-07-06
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LEGEND
 Non Asbestos Containing Material

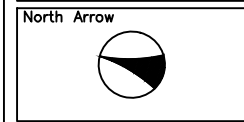
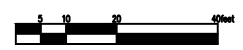
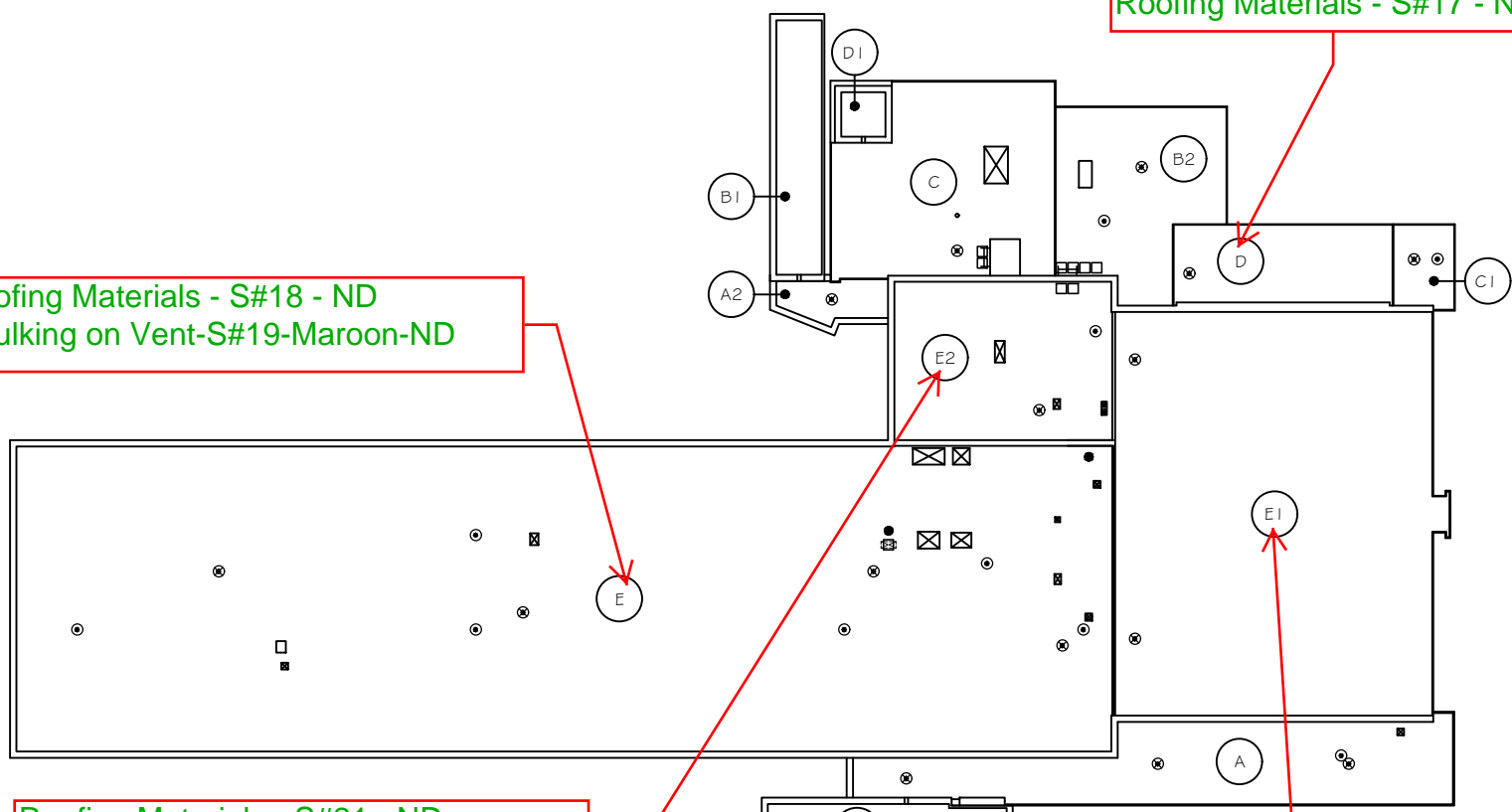
- SYMBOLS
- ⊙ NEW ROOF DRAIN
 - ⊙ ROOF DRAIN
 - ⊙ PLUMBING STACK
 - ⊙ SLEEVE & COLLAR
 - ⊗ EQUIPMENT CURB
 - SUPPORT
 - LADDER
 - CHEMCURB & RAIN COLLAR
 - SLOPE
 - ⌈ MISC. RAISED EQUIP.
 - ▲ ANTENNA
 - ⓪ SCUPPER
 - ROOF HATCH

Roofing Materials - S#17 - ND

Roofing Materials - S#18 - ND
 Caulking on Vent-S#19-Maroon-ND

Roofing Materials - S#21 - ND
 Caulking on Vent-S#22-Purple-ND
 Caulking on Vent-S#23-White-ND

Roofing Materials - S#20 - ND



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 49 Givins St
 M6J 2X5
 Toronto, Ont.

Sheet Title
 Roof Plan

Facility #	Last Update
0772	17-07-06

Attachment 2:

Laboratory Analysis Report and Chain of Custody (COC)

To:

Joey Huynh
 ECOH Management Inc.
 75 Courtneypark Drive West
 Unit 1
 Mississauga, Ontario
 L5W 0E3

EMC LAB REPORT NUMBER: A39869
Job/Project Name: Givins/Shaw JPS – 3772
Analysis Method: Polarized Light Microscopy – EPA 600
Date Received: May 23/18 **Date Analyzed:** May 30/18
Analyst: Chengming Li, *Analyst*
Reviewed By: Fajun Chen, Ph.D., *Laboratory Director*

Job No: 17108
Number of Samples: 69
Date Reported: May 30/18



Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)		
				Asbestos Fibres	Non-asbestos Fibres	Non-fibrous Material
17108-3772-052018-xxxx-01A	A38869-1	Roof core (roof A north)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-01B	A38869-2	Roof core (roof A north)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-01C	A38869-3	Roof core (roof A north)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-02A	A38869-4	White caulking on flashing (roof A north)	White, caulking	ND		100
17108-3772-052018-xxxx-02B	A38869-5	White caulking on flashing (roof A north)	White, caulking	ND		100
17108-3772-052018-xxxx-02C	A38869-6	White caulking on flashing (roof A north)	White, caulking	ND		100
17108-3772-052018-xxxx-03A	A38869-7	Roof core (roof A south)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-03B	A38869-8	Roof core (roof A south)	Black, roofing	ND	25	75

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Client's Job/Project No.: 17108

Analyst: Chengming Li, *Analyst*

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)		
				Asbestos Fibres	Non-asbestos Fibres	Non-fibrous Material
17108-3772-052018-xxxx-03C	A38869-9	Roof core (roof A south)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-04A	A38869-10	Grey caulking on flashing (roof A south)	Grey, caulking	ND		100
17108-3772-052018-xxxx-04B	A38869-11	Grey caulking on flashing (roof A south)	Grey, caulking	ND		100
17108-3772-052018-xxxx-04C	A38869-12	Grey caulking on flashing (roof A south)	Grey, caulking	ND		100
17108-3772-052018-xxxx-05A	A38869-13	Roof core (roof A2)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-05B	A38869-14	Roof core (roof A2)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-05C	A38869-15	Roof core (roof A2)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-06A	A38869-16	Grey caulking on flashing (roof A2)	Grey, caulking	ND		100
17108-3772-052018-xxxx-06B	A38869-17	Grey caulking on flashing (roof A2)	Black, tar material with fibres	ND	15	85
17108-3772-052018-xxxx-	A38869-18	Grey caulking on flashing (roof A2)	Grey, caulking	ND		100

EMC LAB REPORT NUMBER: A39869

Client's Job/Project No.: 17108

Analyst: Chengming Li, *Analyst*

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)		
				Asbestos Fibres	Non-asbestos Fibres	Non-fibrous Material
06C						
17108-3772-052018-xxxx-07A	A38869-19	Roof core (roof B2)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-07B	A38869-20	Roof core (roof B2)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-07C	A38869-21	Roof core (roof B2)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-08A	A38869-22	Black caulking on flashing (roof B2)	Black, caulking	ND		100
17108-3772-052018-xxxx-08B	A38869-23	Black caulking on flashing (roof B2)	Black, caulking	ND		100
17108-3772-052018-xxxx-08C	A38869-24	Black caulking on flashing (roof B2)	Black, caulking	ND		100
17108-3772-052018-xxxx-09A	A38869-25	Grey caulking on flashing (roof B2)	Black, tar material	Chrysotile	3	97
17108-3772-052018-xxxx-09B	A38869-26	Grey caulking on flashing (roof B2)	NA	NA		
17108-3772-052018-xxxx-09C	A38869-27	Grey caulking on flashing (roof B2)	NA	NA		

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Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)		
				Asbestos Fibres	Non-asbestos Fibres	Non-fibrous Material
17108-3772-052018-xxxx-10A	A38869-28	White under black caulking on flashing (roof B2)	White, caulking	ND	2	98
17108-3772-052018-xxxx-10B	A38869-29	White under black caulking on flashing (roof B2)	White, caulking	ND	2	98
17108-3772-052018-xxxx-10C	A38869-30	White under black caulking on flashing (roof B2)	White, caulking	ND	2	98
17108-3772-052018-xxxx-11A	A38869-31	Roof core (roof C)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-11B	A38869-32	Roof core (roof C)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-11C	A38869-33	Roof core (roof C)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-12A	A38869-34	Black caulking on flashing (roof C)	Black, caulking	ND		100
17108-3772-052018-xxxx-12B	A38869-35	Black caulking on flashing (roof C)	Black, caulking	ND		100
17108-3772-052018-xxxx-12C	A38869-36	Black caulking on flashing (roof C)	Black, caulking	ND		100
17108-3772-052018-xxxx-	A38869-37	Grey caulking on flashing (roof C)	Black, tar material	Chrysotile	5	95

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Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)		
				Asbestos Fibres	Non-asbestos Fibres	Non-fibrous Material
13A						
17108-3772-052018-xxxx-13B	A38869-38	Grey caulking on flashing (roof C)	NA	NA		
17108-3772-052018-xxxx-13C	A38869-39	Grey caulking on flashing (roof C)	NA	NA		
17108-3772-052018-xxxx-14A	A38869-40	Clear caulking on skylight (roof C)	2 Phases: a) Colourless, caulking b) Grey, caulking	ND ND		100 100
17108-3772-052018-xxxx-14B	A38869-41	Clear caulking on skylight (roof C)	2 Phases: a) Colourless, caulking b) Grey, caulking	ND ND		100 100
17108-3772-052018-xxxx-14C	A38869-42	Clear caulking on skylight (roof C)	2 Phases: a) Colourless, caulking b) Grey, caulking	ND ND		100 100
17108-3772-052018-xxxx-15A	A38869-43	Roof core (roof C1)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-15B	A38869-44	Roof core (roof C1)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-15C	A38869-45	Roof core (roof C1)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-	A38869-46	Black caulking on flashing (roof C1)	Black, caulking	ND		100

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Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)		
				Asbestos Fibres	Non-asbestos Fibres	Non-fibrous Material
16A						
17108-3772-052018-xxxx-16B	A38869-47	Black caulking on flashing (roof C1)	Black, caulking	ND		100
17108-3772-052018-xxxx-16C	A38869-48	Black caulking on flashing (roof C1)	Black, caulking	ND		100
17108-3772-052018-xxxx-17A	A38869-49	Roof core (roof D)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-17B	A38869-50	Roof core (roof D)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-17C	A38869-51	Roof core (roof D)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-18A	A38869-52	Roof core (roof E)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-18B	A38869-53	Roof core (roof E)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-18C	A38869-54	Roof core (roof E)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-19A	A38869-55	Maroon caulking on vent (roof E)	Red, caulking	ND		100

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Analyst: Chengming Li, *Analyst*

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)		
				Asbestos Fibres	Non-asbestos Fibres	Non-fibrous Material
17108-3772-052018-xxxx-19B	A38869-56	Maroon caulking on vent (roof E)	Red, caulking	ND		100
17108-3772-052018-xxxx-19C	A38869-57	Maroon caulking on vent (roof E)	Red, caulking	ND		100
17108-3772-052018-xxxx-20A	A38869-58	Roof core (roof E1)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-20B	A38869-59	Roof core (roof E1)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-20C	A38869-60	Roof core (roof E1)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-21A	A38869-61	Roof core (roof E2)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-21B	A38869-62	Roof core (roof E2)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-21C	A38869-63	Roof core (roof E2)	Black, roofing	ND	25	75
17108-3772-052018-xxxx-22A	A38869-64	Purple caulking on vent (roof E2)	Purple, caulking	ND		100
17108-3772-052018-xxxx-	A38869-65	Purple caulking on vent (roof E2)	Purple, caulking	ND		100

EMC LAB REPORT NUMBER: A39869

Client's Job/Project No.: 17108

Analyst: Chengming Li, *Analyst*

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)		
				Asbestos Fibres	Non-asbestos Fibres	Non-fibrous Material
22B						
17108-3772-052018-xxxx-22C	A38869-66	Purple caulking on vent (roof E2)	Purple, caulking	ND		100
17108-3772-052018-xxxx-23A	A38869-67	White caulking on vent (roof E2)	White, caulking	ND		100
17108-3772-052018-xxxx-23B	A38869-68	White caulking on vent (roof E2)	White, caulking	ND		100
17108-3772-052018-xxxx-23C	A38869-69	White caulking on vent (roof E2)	White, caulking	ND		100

Note:

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.

Contact Name: Joey Huynh	Phone: 416-371-6377	Job/Project Name: Givins/Shaw JPS - 3772
Company: ECOH Management Inc.	Fax No: 905-795-2870	Job/Project No: 17108
Address: 75 Courtneypark Drive West	Email: edametto@ecoh.ca ziqbal@ecoh.ca akpur@ecoh.ca jhuynh@ecoh.ca	Stop Positive Others: Analyzed all Layers Roof Core: Composite

City, Province Postal Code: Mississauga, Ontario	Please select (✓): () Fax Results (✓) Email Results <i>All results will also be sent by mail.</i>
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Sample ID	Description/Location	Date Sampled	Sample Type	Air Volume (L)	Turnaround Time (✓)				Analysis Requested *	SP **	For Lab Use
					4hr	24 hr	48 hr	EXT			
17108-3772-052018-xxxx-01A	Roof Core (Roof A North)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-01B	Roof Core (Roof A North)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-01C	Roof Core (Roof A North)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-02A	White Caulking on Flashing (Roof A North)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-02B	White Caulking on Flashing (Roof A North)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-02C	White Caulking on Flashing (Roof A North)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-03A	Roof Core (Roof A South)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-03B	Roof Core (Roof A South)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-03C	Roof Core (Roof A South)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-04A	Grey Caulking on Flashing (Roof A South)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-04B	Grey Caulking on Flashing (Roof A South)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-04C	Grey Caulking on Flashing (Roof A South)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-05A	Roof Core (Roof A2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	

17108-3772-052018-xxxx-05B	Roof Core (Roof A2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-05C	Roof Core (Roof A2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-06A	Grey Caulking on Flashing (Roof A2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-06B	Grey Caulking on Flashing (Roof A2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-06C	Grey Caulking on Flashing (Roof A2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-07A	Roof Core (Roof B2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-07B	Roof Core (Roof B2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-07C	Roof Core (Roof B2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-08A	Black Caulking on Flashing (Roof B2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-08B	Black Caulking on Flashing (Roof B2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-08C	Black Caulking on Flashing (Roof B2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-09A	Grey Caulking on Flashing (Roof B2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-09B	Grey Caulking on Flashing (Roof B2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-09C	Grey Caulking on Flashing (Roof B2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-10A	White Under Black Caulking on Flashing (Roof B2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-10B	White Under Black Caulking on Flashing (Roof B2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-10C	White Under Black Caulking on Flashing (Roof B2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-11A	Roof Core (Roof C)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-11B	Roof Core (Roof C)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-11C	Roof Core (Roof C)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	

17108-3772-052018-xxxx-12A	Black Caulking on Flashing (Roof C)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-12B	Black Caulking on Flashing (Roof C)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-12C	Black Caulking on Flashing (Roof C)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-13A	Grey Caulking on Flashing (Roof C)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-13B	Grey Caulking on Flashing (Roof C)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-13C	Grey Caulking on Flashing (Roof C)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-14A	Clear Caulking on Skylight (Roof C)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-14B	Clear Caulking on Skylight (Roof C)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-14C	Clear Caulking on Skylight (Roof C)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-15A	Roof Core (Roof C1)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-15B	Roof Core (Roof C1)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-15C	Roof Core (Roof C1)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-16A	Black Caulking on Flashing (Roof C1)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-16B	Black Caulking on Flashing (Roof C1)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-16C	Black Caulking on Flashing (Roof C1)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-17A	Roof Core (Roof D)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-17B	Roof Core (Roof D)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-17C	Roof Core (Roof D)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-18A	Roof Core (Roof E)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-18B	Roof Core (Roof E)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	

17108-3772-052018-xxxx-18C	Roof Core (Roof E)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-19A	Maroon Caulking on Vent (Roof E)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-19B	Maroon Caulking on Vent (Roof E)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-19C	Maroon Caulking on Vent (Roof E)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-20A	Roof Core (Roof E1)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-20B	Roof Core (Roof E1)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-20C	Roof Core (Roof E1)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-21A	Roof Core (Roof E2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-21B	Roof Core (Roof E2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-21C	Roof Core (Roof E2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-22A	Purple Caulking on Vent (Roof E2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-22B	Purple Caulking on Vent (Roof E2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-22C	Purple Caulking on Vent (Roof E2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-23A	White Caulking on Vent (Roof E2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-23B	White Caulking on Vent (Roof E2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	
17108-3772-052018-xxxx-23C	White Caulking on Vent (Roof E2)	May 16, 2018	Asbestos Bulk	N/A				✓	EPA-600/R-93/116	✓	

Sample Collected by: Joey Huynh			Total Number of Samples Submitted: Sixty-Nine (69)		
Relinquished by: Joey Huynh		Date/Time: May 18, 2018	Received by:		Date/Time:
Relinquished by:		Date/Time:	Received at lab by:		Date/Time:
Authorized by Client (Signature): _____			Print Name: Joey Huynh		Date: May 18, 2018
Sample Shipped by:		Date/Time:	Shipped via: () Courier by _____, () Drop off, (✓) Other _____		
Sample Condition upon Receipt at Lab (✓): () Acceptable, () Unacceptable (Explain): _____					

* Please indicate if sample to be analyzed by layer (PLM-L) or homogenized (PLM-H) when applicable.