FINAL

Asbestos Reassessment

St. Peter's Hospital
88 Maplewood Avenue, Hamilton, Ontario

Prepared for:

Hamilton Health Sciences
1200 Main Street West
Hamilton, Ontario, L8N 3Z5

Attention: Corey LeGris
Hazardous Materials Specialist

January 16, 2019

Pinchin File: 217420.030

MEMBER OF
THE PINCHIN GROUP

Issued to:	**Hamilton Health Sciences**
Contact:	**Corey LeGris** **Hazardous Materials Specialist**
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Issuing Office:	**6-875 Main Street West, Suite 200, Hamilton, ON, L8S 4P9**
Primary Contact:	**Michael Maiorana** **Senior Project Manager,** **905.577.6206, ext. 1724**

Author: Leslie Cantar, B.Eng. Mgt.
Project Manager
905.577.6206, ext. 1706
lcantar@pinchin.com

Reviewer: Damian Palus, C.E.T.
Operations Manager
905.577.6206, ext. 1725
dpalus@pinchin.com

EXECUTIVE SUMMARY

Hamilton Health Sciences (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials assessment at St. Peter's Hospital, 88 Maplewood Avenue, Hamilton, Ontario. The assessment was performed on August 17, 2018.

The objectives of the assessment were to document the locations of asbestos building materials, evaluate their condition and develop corrective action plans as required for the purposes of long term management. The results of this assessment are not intended for construction, renovation, demolition or project tendering purposes.

The assessed area consisted of the entire building.

SUMMARY OF FINDINGS

Asbestos-containing materials (ACM) are present as follows:

- Pipe insulation (aircell, sweatwrap, and parging cement), chrysotile asbestos;
- Paper wrap on fibreglass batts in metal pan ceiling, chrysotile asbestos;
- Ceiling tile mastic, presumed asbestos;
- Plaster, chrysotile asbestos;
- Drywall joint compound, chrysotile asbestos;
- Asbestos cement (Transite), presumed asbestos;
- Vinyl floor tiles, mastic, and levelling compound, chrysotile asbestos; and
- Caulking, chrysotile asbestos.

SUMMARY OF RECOMMENDATIONS

The following is a summary of significant recommendations; refer to the body of the report for detailed recommendations:

1. Continue to apply the policies and procedures as outlined in the building's Asbestos Management Program (AMP).
2. Perform a reassessment of asbestos materials an annual basis.
3. Perform a pre-construction assessment and remove all ACM prior to alteration or maintenance work if ACM may be disturbed by the work.
4. Follow appropriate safe work procedures when handling or disturbing asbestos.
5. Remediate the materials as described in Section 4.2.

This Executive Summary is subject to the same standard limitations as contained in the report and must be read in conjunction with the entire report.

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APPENDICES

1.0 INTRODUCTION AND SCOPE

Hamilton Health Sciences (Client) retained Pinchin Ltd. (Pinchin) to conduct an asbestos building materials assessment at St. Peter's Hospital, 88 Maplewood Avenue, Hamilton, Ontario.

The assessment was performed by Leslie Cantar, B.Eng. Mgt., Senior Project Technologist on August 17, 2018. The surveyor was unaccompanied during the assessment. The building was occupied at the time of the assessment.

The objectives of the assessment were to document the locations of asbestos building materials, evaluate their condition and develop corrective action plans as required. This assessment is only to be used for the purposes of long term management and routine maintenance. The results of this assessment are not to be used for construction, renovation, demolition or project tendering purposes.

1.1 Scope of Assessment

The assessment was performed to establish the location and type of asbestos building materials incorporated in the structure and its finishes. The assessed area consisted of all parts of the building.

2.0 BACKGROUND INFORMATION

2.1 Building Description

Item	Details
Building Use	Hospital
Number of Floors/Levels	Four storeys plus one below grade and mechanical penthouses
Year of Construction	South Wing and Boiler Plant/Steam Tunnel - approximately 1938, East and West Wings constructed in the 1970's, and Alexander Pavilion renovated/constructed in 2007
Structure	Structural steel, concrete
Exterior Cladding	Pre-cast concrete, masonry, glass curtain wall, and wood
HVAC	Rooftop AC, Boiler and hot water heating to radiators
Roof	Built-up roofing
Flooring	Vinyl tile, vinyl sheet flooring, carpet, and ceramic tiles
Interior Walls	Drywall, concrete block, and plaster
Ceilings	Drywall, plaster, Transite, and acoustic ceiling tiles

2.2 Existing Reports

Pinchin was provided with, and instructed to rely upon, the following reports:

- Asbestos-Containing Materials Reassessment – St. Peter's Hospital, June 13, 2017, Prepared By ECOH, Project No. 17429.
- Bulk Sample Analysis Report – St. Peter's Hospital, May 12, 2017, Prepared By ECOH, Project No. 17429.
- Bulk Sample Analysis Report - Vinyl Floor Tile – St. Peter's Hospital, November 3, 2017, Prepared By ECOH, Project No. 18439.

Pinchin most recently prepared the following reports which were used for reference:

- "Asbestos Building Materials Reassessment – St. Peter's Hospital," dated May 22, 2015 (Pinchin File: 100581.001).
- "Elevator Modernization Findings Letter - St Peters Hospital," dated February 7, 2018 (Pinchin File: 200249.062).
- "Hazardous Building Materials Assessment – St. Peter's Hospital, South Wing," dated November 19, 2018 (Pinchin File: 217420.010).

2.3 Inaccessible Locations

The following rooms or areas of the building were not accessible to the surveyor and are therefore not included in the report:

Area or Room	Reason
South Wing Basement	Type 2 asbestos procedures required for access due to damaged materials known to be present.
South Wing Third Floor	Type 2 asbestos procedures required for access due to damaged materials known to be present.

3.0 FINDINGS

The following section summarizes the findings of the assessment and provides a general description of the asbestos materials identified and their locations. For details on quantities and locations of asbestos materials; refer to the drawings in Appendix I and the data tables in Appendix III.

Existing sampling data from the previous assessments was relied upon.

Materials listed as exclusions in the original assessment report remain as exclusions. See Section 3.6.

The sample numbers referenced below refer to the analytical reports in Appendix II. Project numbers have been included where applicable to distinguish sample numbers from various previous projects. Sample numbers where "HHS" is present before a sample number indicates that the sample results were provided by HHS.

The drawings in Appendix I indicate the location of exposed friable and non-friable asbestos-containing materials in four separate layers: floor, wall, ceiling, and other. The flooring layer includes vinyl floor tiles, the wall layer includes drywall compound or plaster, the ceiling layer includes ceiling tiles, transite, and paper on fibreglass batts in metal pan ceilings, and the other layer includes items such as: firestopping, pipe insulation, fireproofing, mechanical insulation, etc. Asbestos-containing materials concealed above solid ceilings, within pipe chases and sporadically above ceiling tiles are not indicated on drawings.

3.1 Suspect Building Materials Not Found

The following types of building materials may historically contain asbestos but were not observed in the building and are not discussed in the report findings:

- Texture finishes (acoustic/decorative).

3.2 Boiler Room & Steam Tunnel

3.2.1 Spray-Applied Fireproofing and Thermal Insulation

Spray-applied fireproofing or thermal insulation was not observed in the Boiler Room and Steam Tunnel.

3.2.2 Pipe Insulation

Parging cement, containing chrysotile asbestos (previously reported), is present on pipe fittings (elbows, valves, tees, hangers etc.) on the majority of insulated pipe fittings within the Steam Tunnel and Boiler Room. Parging cement is a friable insulation, jacketed with canvas and is in good condition.

Sweatwrap insulation, (brown layered paper) containing chrysotile asbestos in the tar paper layer only, is present on straight sections of chilled water return system pipes in the north half of the Steam Tunnel (K13105 sample 001). Since the asbestos is present in the tar paper layer, this type of insulation is considered non-friable. Sweatwrap is jacketed with canvas and is in good condition.

Remaining pipes in the Boiler Room are either uninsulated or insulated with non-asbestos fibreglass.

Asbestos-containing parging cement on pipe fitting, Steam Tunnel.

Asbestos-containing parging cement on pipe fittings, Boiler Room.

3.2.3 Duct Insulation

Ducts are either uninsulated or insulated with non-asbestos fibreglass (foil-faced or canvas).

3.2.4 Mechanical Equipment Insulation

HHS reports that these materials were removed in 2017. A preformed fibrous block insulation (commonly referred to by the trade name Caposite), containing amosite asbestos, was previously identified on the muffler exhaust of the diesel generator at the base of the exhaust (K6780 sample 004). Parging cement, containing chrysotile asbestos, was present over the Caposite insulation (K6780 sample 004).

Remaining mechanical equipment is either uninsulated or insulated with non-asbestos fibreglass.

3.2.5 Vermiculite

Loose fill vermiculite debris was not observed in the spaces or areas inspected. Destructive testing was not performed and vermiculite may be present within masonry block walls, above solid ceilings or other void spaces.

3.2.6 Acoustic Ceiling Tiles

Acoustic ceiling tiles were not found in the Boiler Room & Steam Tunnel.

3.2.7 Plaster

Plaster was not found in the Boiler Room & Steam Tunnel.

3.2.8 Drywall Joint Compound

Drywall joint compound was not found in the Boiler Room & Steam Tunnel.

3.2.9 Asbestos Cement Products (Transite)

Transite was not found in the Boiler Room & Steam Tunnel.

3.2.10 Vinyl Sheet Flooring

Vinyl sheet flooring was not found in the Boiler Room & Steam Tunnel.

3.2.11 Vinyl Floor Tile and Mastic

Vinyl floor tiles were not found in the Boiler Room & Steam Tunnel.

3.2.12 Firestopping or Smoke Sealant

Firestopping present at pipe and conduit penetrations in the Steam Tunnel does not contain asbestos (71748.004 samples S001a-c).

3.2.13 Sealants, Caulking, and Putty

Caulking, containing chrysotile asbestos, is present at exterior windows of the Boiler House (previously sampled). Caulking is non-friable and is in good condition.

Asbestos-containing caulking at exterior window frame, Boiler House.

3.2.14 Roofing Products

Built-up roofing present on the steam plant was previously sampled and determined to be non-asbestos in two samples (K6780 samples 001-002). A third sample is required to confirm that the built-up roofing in this area is non-asbestos. The roofing is presumed to contain asbestos until additional samples are collected.

3.2.15 Other Building Materials

ECOH reported that brown mastic observed on walls within the second floor Power House Mezzanine was determined to be non-asbestos by analysis.

ECOH reported that black fiberglass insulation observed on the deck within the second floor Power House Mezzanine was determined to be non-asbestos by analysis.

3.3 South Wing

3.3.1 Spray-Applied Fireproofing and Thermal Insulation

Spray-applied fireproofing or thermal insulation was not observed in the South Wing.

3.3.2 Pipe Insulation

Parging cement, presumed to contain asbestos based on previous reports, is present on the majority of pipe fittings (elbows, valves, tees, hangers etc.) on the original heating and domestic water systems. Parging cement is a friable insulation, jacketed with canvas ranges from poor to good condition.

A white corrugated paper insulation (trade name Aircell), presumed to contain asbestos based on previous reports, is present on straight sections of hot water system pipes. Aircell is a friable insulation, jacketed with canvas and ranges from damaged to good condition.

Sweatwrap insulation, (brown layered paper), presumed to contain asbestos based on previous reports, is present on straight sections of cold water and drain pipe systems. Sweatwrap insulation is considered friable, is jacketed with canvas and ranges from damaged to good condition.

The majority of asbestos-containing mechanical insulations present within the basement are exposed to view. Asbestos-containing pipe insulations are also present above suspended ceilings, in pipe chases and wall cavities on the remaining floors.

Asbestos-containing Aircell pipe insulation within wall cavity, Level 2 Office Area.

3.3.3 Duct Insulation

Ducts are either uninsulated or insulated with non-asbestos fibreglass (foil-faced or canvas).

3.3.4 Mechanical Equipment Insulation

Mechanical equipment is either uninsulated or insulated with non-asbestos fibreglass.

Non-asbestos insulation is present within rooftop exhaust fans (217420.010 samples S022A-C).

3.3.5 Vermiculite

Loose fill vermiculite debris was not observed in the spaces or areas inspected. Destructive testing was not performed and vermiculite may be present within masonry block walls, above solid ceilings or other void spaces.

3.3.6 Acoustic Ceiling Tiles

Acoustic ceiling tiles are present in the building, as follows:

Size, Type, Pattern	Locations	Sample Number or Date Code	Asbestos Type
24"x48", lay-in, pinhole and width-wise fissure	Throughout building	12/18/1999	None
24"x24", lay-in, pinhole and large fleck	Throughout building	17429-SPH-EW0-04A-C	None Detected
24"x24", lay-in, pinhole and fleck	Throughout building	2013	None
24"x48", lay-in, small fissure (star shape)	Level 1 S102B Level 1 S105C Level 2 204D Level 2 Reception Area Kitchen	Project 217420.010, samples 0002A-C	None Detected
24"x48", lay-in, textured white	Level 1 Room 2	Project 217420.010, samples 0008A-C	None Detected
24"x48", lay-in, pinhole and fleck	Throughout building	2013	None
24"x48", lay-in, length-wise fissure	Basement S004 Level 2 205A	Project 217420.010, samples 0006A-C	None Detected
12"x12", glue-on, random fissure	Basement Aux S007, Room 10, Rooms S005 and S005A	17429-SPH-S0-07A-C Project 217420.010, samples 0015A-C	Tile – None Detected Mastic – None Detected

Paper, containing chrysotile asbestos (K13105 sample 006), is wrapped around fibreglass batts of the 1' x 2' perforated metal pan tiles on the first floor. The paper is non-friable and in good condition.

Asbestos-containing paper above metal pan ceiling tiles, First Floor Corridor.

Non-asbestos 12" x 12" glued-on ceiling tiles, random fissure pattern, Basement Room S005 (photo from previous assessment).

3.3.7 Plaster

Plaster, containing chrysotile asbestos in the base coat and finish layer, is present on walls and ceilings, throughout the South Wing, as per the ECOH bulk sample analysis reports in Appendix IV. The plaster is applied to metal lath and speed tile/terra cotta block. Plaster is a non-friable material which may become friable during removal. The plaster is in good condition within Levels 1 and 2, and is in damaged condition within the Basement and Level 3. These levels require Type 2 procedures for access.

Non-asbestos textured plaster (217420.010 samples 0017A-E) is present as a ceiling finish within the north storage area in the Basement.

3.3.8 Drywall Joint Compound

Non-asbestos drywall joint compound was identified in the Second and Third Floors in the corridor between the South Building and the East and West Wings (17429-SPH-ASB-12A-C).

3.3.9 Asbestos Cement Products (Transite)

Transite board, presumed to contain asbestos based on visual observation, is present above lay-in acoustic ceiling tiles in the Food Services Storage Room S307. Transite is non-friable and is in good condition.

3.3.10 Vinyl Sheet Flooring

Vinyl sheet flooring is present as follows:

Pattern, Colour	Paper Backing (Yes/No)	Locations	Sample Number	Asbestos Type
Green	Yes	Level 3 Aux Room 303	217420.010 samples 0011A-C	None Detected
Grey Pebble	Yes	Level 2 Room 202A	217420.010 samples 0014A-C	None Detected

3.3.11 Vinyl Floor Tile and Mastic

Vinyl floor tiles are present in the South Wing as follows:

Size, Pattern, Colour and Photo Number	Locations	Sample Number	Asbestos Type (tile)	Asbestos Type (mastic)
12" x 12", beige and grey streaks	Corridors and random rooms	HHS S10a-c	Chrysotile	Presumed
9" x 9", brown with white streaks	Basement Mobile Equipment Room S017	ECOH 17429-SPH-ASB-01A-C	Chrysotile	Chrysotile
12" x 12", flower petal	Basement Nursing Storage Room S008	ECOH 17429-SPH-ASB-02A-C	Chrysotile	Chrysotile
12" x 12", grey	Basement Central Sterile Supply Room S007	ECOH 17429-SPH-ASB-03A-C	Chrysotile	None Detected
12" x 12", beige with gold glitter streaks	Basement Rehab Services Storage Room S010	ECOH 17429-SPH-ASB-04A-C	None Detected	None Detected
12" x 12", white with black specks	Basement Central Sterile Supply Room S007 and S10	ECOH 17429-SPH-ASB-05A-C	Chrysotile	None Detected
12" x 12", beige and brown streaks	First Floor Storage Room	ECOH 17429-SPH-ASB-06A-C	None Detected	None Detected
12" x 12", beige mottled	First Floor Storage Room (adjacent to Bathing Room) and Second Floor Nurses' Station	ECOH 17429-SPH-ASB-07A-C	None Detected	None Detected
12" x 12", blue mottled	First Floor Bathing Room	ECOH 17429-SPH-ASB-08A-C	None Detected	None Detected

Size, Pattern, Colour and Photo Number	Locations	Sample Number	Asbestos Type (tile)	Asbestos Type (mastic)
12" x 12", blue/teal paint strokes	Third Floor Sun Room and Corridor	ECOH 17429-SPH-ASB-09A-C	None Detected	None Detected
12"x12", beige and white flakes	Level 1 Room S116A, Level 1 Room S110, Level 1 Room 2, Level 1 Room S101/103, Level 1 Room S102A, Level 1 Room S105B, Level 2 Reception, Level 2 Room 204B, Level 3 Washroom with Mattress Storage Room, Level 3 Reception	217420.010 samples 0012A-C	None Detected	None Detected
12"x12", white and beige streaks, Photo 1	Level 1 Corridor, Level 1 Reception, Level 1 Reception, Washroom S104, Level 1 Room S112, Level 1 Short Hall, Level 1 Room S101, Level 1 Room S103	Previously sampled	Presumed to contain asbestos based on previous reports	Presumed
12"x12" grey with dark grey flakes, Photo 2	Level 1 Room S105C, Level 2 Room Aux 205	Presumed	Presumed	Presumed

The vinyl floor tiles and mastic are non-friable and are in good condition.

Photo 1 - Asbestos-containing 12"x12" white and beige streaks vinyl floor tile within Level 1 Corridor.

Photo 2 - Presumed asbestos-containing 12"x12" grey and dark grey flakes vinyl floor tile within Level 1 Room S105C.

3.3.12 Sealants, Caulking, and Putty

Caulking, sealant and putty are present as follows:

Colour	Locations	Sample Number	Asbestos Type
Brown caulking	All exterior window frames	217420.010, samples 0004A-C	Chrysotile
White caulking	Exterior door at stairwell	217420.010, samples 0005A-C	Chrysotile
Tan caulking	Interior window frame	17429-SPH-ASB-11A-C	None Detected
Window putty	Within window frames at all windows	217420.010, samples 0003A-C	Chrysotile
Caulking	Roof at expansion joints of parapets	217420.010, samples S020A & S021A, phase a	Chrysotile

The caulking, sealants, and putties are non-friable and are in good condition.

3.3.13 Roofing Products

The built-up roofing materials do not contain asbestos (217420.010 samples S018A-C and S019A-C).

3.3.14 Other Building Materials

Non-asbestos parging material (217420.010 samples 0001A-C) is present inside metal doors within the corridors.

Non-asbestos brown paper (217420.010 samples 0013A-C) is present inside remaining doors of the building.

Non-asbestos tile grout (217420.010 samples 0007A-C) is present within the building.

Non-asbestos green, grey and orange terrazzo (217420.010, samples 0009A-C, 0010A-C and 0016A-C) is present within the building.

3.4 Alexander Pavilion

All known asbestos-containing materials have been removed from the Alexander Pavilion.

3.4.1 Spray-Applied Fireproofing and Thermal Insulation

Spray-applied fireproofing or thermal insulation was not observed in the Alexander Pavilion.

3.4.2 Pipe Insulation

Pipes insulated with friable asbestos insulations may be present in original inaccessible spaces such as above solid ceilings, in chases, in column enclosures and within shafts.

3.4.3 Vermiculite

Loose fill vermiculite debris was not observed in the spaces or areas inspected. Destructive testing was not performed and vermiculite may be present within masonry block walls, above solid ceilings or other void spaces.

3.4.4 Drywall Joint Compound

Renovation and partial demolition of the one storey Day Hospital was completed by Greenspoon Specialty Contracting in 2007/08 and monitored by Pinchin during asbestos abatement and renovation to convert the Wing into the Alexander Pavilion. The southern portion of the Day Hospital (recreational area) was demolished completely. Partition walls were constructed during the 2008 renovations and therefore the joint compound is known to be non-asbestos. This is confirmed by sampling performed by HHS (samples S11a-g). Extensive drywall joint compound sampling performed by ECOH in 2017 determined all drywall joint compound in the Alexander Pavilion to be non-asbestos. Refer to the bulk sample analysis reports in Appendix IV.

3.4.5 Vinyl Floor Tile and Mastic

Vinyl floor tiles are present as follows:

Size, Pattern, Colour	Locations	Sample Number	Asbestos Type (tile)	Asbestos Type (mastic)
12" x 12", grey/beige with black and brown	Corridors and random rooms	HHS S12a-c, Pinchin 2018-0001A-C	None Detected	None Detected

Remaining vinyl floor tiles were presumed to be non-asbestos based on historical knowledge of the date of installation.

3.5 East and West Wings

3.5.1 Spray-Applied Fireproofing and Thermal Insulation

Non-asbestos fireproofing and overspray is present on the structure within the West Wing (Pinchin samples 010 and 011 and HHS sampling).

3.5.2 Pipe Insulation

Parging cement, containing chrysotile asbestos, is present on pipe fittings (elbows, valves, tees, hangers etc.) on domestic hot water systems throughout the utility rooms and Mechanical Penthouses (200249.062 sample 0001A and 217420.002 sample 0001A). Parging cement is a friable insulation, jacketed with canvas and is in good condition.

Non-asbestos sweatwrap and tar paper insulation are present on rain water leaders in the West Mechanical Penthouse (200249.062 samples 0002A-C).

Remaining pipes are either uninsulated or insulated with non-asbestos fibreglass or elastomeric insulation (Armaflex).

Asbestos-containing parging cement on pipe fittings, Basement Mechanical Room.

3.5.3 Duct Insulation

Ducts are either uninsulated or insulated with non-asbestos fibreglass (foil-faced or canvas).

3.5.4 Mechanical Equipment Insulation

Mechanical equipment is either uninsulated or insulated with non-asbestos fibreglass.

3.5.5 Vermiculite

Loose fill vermiculite debris was not observed in the spaces or areas inspected. Destructive testing was not performed and vermiculite may be present within masonry block walls, above solid ceilings or other void spaces.

3.5.6 Acoustic Ceiling Tiles

The 12" x 24" glued-on acoustic ceiling tiles with a large fissure pattern were determined to be non-asbestos by analysis (HHS samples S04a-c, March 22, 2013). Sampling by ECOH in 2017 also determined these ceiling tiles to be non-asbestos (samples 174-SPH-EW1-03A-C). A non-asbestos coating is present on the surface of these tiles.

The adhesive present on the backside of the glue-on ceiling tiles is inaccessible for sampling and is presumed to contain asbestos. Adhesive is a non-friable material.

All other ceiling tiles are presumed to be non-asbestos based on the date of manufacture determined from the date stamp applied to the top of the tiles. The tiles were manufactured after asbestos stopped being used in acoustic ceiling tiles.

Non-asbestos 12" x 24" glued-on ceiling tiles with large fissure pattern, adhered with presumed asbestos-containing mastic, Level 1 Easy Street Area.

3.5.7 Plaster

Non-asbestos plaster is present as a wall and ceiling finish in the ramp leading to the South Building (ECOH samples 17429-SPH-ASB-13A-C).

3.5.8 Drywall Joint Compound

Drywall joint compound, containing chrysotile asbestos, is present on wall and ceiling finishes throughout the East and West Wings. Additional sampling conducted by HHS showed drywall joint compound to contain chrysotile asbestos in at least one sample collected from each floor (HHS samples S03a-g, S05a-g, S07a-g, S14a-g, and S15a-g, Pinchin File 200249.062 samples 0017A and 0018A-F). Assume *all* drywall joint compound to contain chrysotile asbestos unless specific sampling proves otherwise. Drywall joint compound is a non-friable material, painted, and ranges from damaged to good condition.

3.5.9 Asbestos Cement Products (Transite)

Transite was not found in the East and West Wings.

3.5.10 Vinyl Sheet Flooring

Vinyl sheet flooring is present as follows:

Pattern, Colour and Photo Number	Paper Backing (Yes/No)	Locations	Sample Number	Asbestos Type
Solid, beige	No	Corridors, rooms	N/A	No paper backing
Stone, white, blue, and brown, Photo 1	Yes	East wing, Level 1, country club rehabilitation gym and kitchen	HHS S06a-c	None Detected
Multi, blue, Photo 2	Yes	Level 1 Café and Easy Street Area, West and East Wings	HHS S13a-c	None Detected

Photo 1 – Non-asbestos vinyl sheet flooring, stone, white, blue and brown pattern, Level 1 Easy Street Area, East Wing.

Photo 2 – Non-asbestos vinyl sheet flooring, blue, Level 1 Easy Street Area, East Wing.

3.5.11 Vinyl Floor Tile and Mastic

Vinyl floor tiles are present as follows:

Size, Pattern, Colour and Photo Number	Locations	Sample Number	Asbestos Type (tile)	Asbestos Type (mastic)
12" x 12", white with grey specks, Photo 1	Basement corridors, locker rooms, Second Level Therapeutic Recreation Room	71748.004 S002a-c (HHS S10 a)	Chrysotile	None Detected
12" x 12", brown/red, Photo 2	Information desk and Throughout the Second, Third, and Fourth Floors	71748.004 S003a-c, ECOH 18439-02A-C, HHS S01 a-c	None Detected	None Detected

Size, Pattern, Colour and Photo Number	Locations	Sample Number	Asbestos Type (tile)	Asbestos Type (mastic)
12" x 12", purple, Photo 3	Corridors, common areas & patient rooms throughout the Second Floor	ECOH 18439-05A-C	None Detected	None Detected
12" x 12", green, Photo 3/4	Corridors, common areas & patient rooms throughout the Second Floor	HHS S08a-c, ECOH 18439-03A-C	None Detected	None Detected
12" x 12", yellow/orange, Photo 4	Corridors, common areas & patient rooms throughout the Second Floor	HHS S09 a-c, ECOH 18439-04A-C	None Detected	None Detected
12" x 12", off-white with coloured flecks, Photo 5	Throughout the Second, Third, and Fourth Floors	ECOH 18439-01A-C, HHS S02 a-c	None Detected	None Detected

Levelling compound, containing chrysotile asbestos (HHS Sample S08a), is present below 12" x 12" green vinyl floor tiles on the second level. Levelling compound is a non-friable material and is presumed to be in good condition.

If the vinyl floor tile, mastic, or levelling compound contains asbestos, the composite of the materials are considered an asbestos-containing material.

All vinyl floor tiles are non-friable materials and are in good condition.

Photo 1 – Asbestos-containing 12" x 12" vinyl floor tiles, white with grey specks, Basement Corridor.

Photo 2 – Non-asbestos 12" x 12" vinyl floor tiles, red/brown with flecks, Level 1 Information Desk.

Photo 3 – Non-asbestos 12" x 12" vinyl floor tiles, purple and green with flecks, Second Floor Corridor Lounge Area.

Photo 4 – Non-asbestos 12" x 12" vinyl floor tiles, green and yellow with flecks, Second Floor Corridor.

Photo 5 – Non-asbestos 12" x 12" vinyl floor tiles, off-white with multi-colour flecks, Second Floor Corridor.

3.6 Presumed Asbestos Materials

A number of materials which might contain asbestos were not sampled during this assessment due to limitations in scope and methodology. Where present, these materials are presumed to contain asbestos until otherwise proven by sampling and analysis.

Materials presumed to contain asbestos include:

- Roofing, felts and tar
- Concrete floor levelling compound
- Elevator and lift brakes
- Electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring
- Refractory materials and insulations in boilers, incinerators and stacks
- Insulation under metal clad boilers and vessels
- Vermiculite in concrete block wall cavities

- Adhesives and duct mastics
- Caulking
- Fibre reinforced paints and coatings
- Paper products
- Soffit and fascia boards
- Mechanical packing, ropes and gaskets
- Fire resistant doors or metal clad finishes
- Stucco, plaster or other cementitious parge coatings
- Vibration dampers on HVAC equipment

4.0 RECOMMENDATIONS

4.1 General

Perform a detailed intrusive assessment prior to building renovation or demolition operations. The assessment should include destructive testing (i.e. coring and/or removal of building finishes and components), and sampling of other hazardous materials (lead, mercury, PCBs, mould, etc.) and materials not tested in this study (e.g. roofing materials, caulking, mastics).

4.2 Remedial Work

The following remedial work is recommended.

Material, Quantity & Condition, Photo #	Location	Recommended Procedure
Drywall joint compound, 2 linear feet in poor condition and 8 square feet of debris, Photo 1	Basement Mechanical Room in West Wing	Clean-up and repair in accordance with Type 1 asbestos procedures
Drywall joint compound, 5 square feet of debris, Photo 2	Basement Storage Area in West Wing at Entry to South Wing	Clean-up and repair in accordance with Type 1 asbestos procedures
Drywall joint compound, 3 linear feet in poor condition, Photo 3	Level 3 Corridor at Tub/Shower Room, West Wing	Repair in accordance with Type 1 asbestos procedures
Drywall joint compound, 4 linear feet in poor condition, Photo 4	Level 4 Corridor at Room E423, East Wing	Repair in accordance with Type 1 asbestos procedures
Drywall joint compound, 2 linear feet in poor condition and 2 square feet of debris, Photo 5	Level 1 Easy Street Area, East Wing	Clean-up and repair in accordance with Type 1 asbestos procedures

Continue to restrict access to the basement and third floor of the South Wing to personnel with the proper personal protective equipment (half-face respirators with P-100 filters and Tyvek suits) until remediation is completed. Refer to Pinchin's hazardous building materials assessment report prepared specifically for the South Wing for details of abatement required throughout that building (Pinchin File: 217420.010).

Photo 1 – Damaged asbestos-containing drywall joint compound and debris, Basement Mechanical Room, West Wing.

Photo 2 – Asbestos-containing drywall joint compound debris, Basement Storage Room at Entrance to South Wing, West Wing.

Photo 3 – Damaged asbestos-containing drywall joint compound on wall, Level 3 Corridor at Tub/Shower Room, West Wing.

Photo 4 – Damaged asbestos-containing drywall joint compound on wall, Level 4 Corridor at Room E423, East Wing.

Photo 5 – Damaged asbestos-containing drywall joint compound and debris, Level 1 Easy Street Area, East Wing.

4.3 On-going Management and Maintenance

The following recommendations are made regarding on-going management and maintenance work involving the asbestos materials identified.

4.3.1 Asbestos

Continue to apply the policies and procedures as outlined in the building's Asbestos Management Program (AMP).

Perform a reassessment of asbestos materials on at least an annual basis.

Remove asbestos-containing materials (ACM) prior to alteration or maintenance work if ACM may be disturbed by the work. Follow appropriate asbestos precautions for the classification of work being performed.

Update the asbestos inventory report upon completion of any abatement and removal of asbestos-containing materials.

5.0 TERMS AND LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.

6.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

1. Asbestos on Construction Projects and in Buildings and Repair Operations, Ontario Regulation 278/05.
2. Designated Substances, Ontario Regulation 490/09.

\\pinchin.com\ham\Job\217000s\0217420.000 HAMILTONHEALT,Various2018Pr,ASB,CONS\0217420.030 HAMHEALT,2018AsbReassess,VarSit,ASB,CONS\Deliverables\SPH\217420.030 Final Asbestos Reassessment Report HHS SPH January 16 2019.docx

Template: Master Report for Asbestos Assessment, Haz, March 27, 2018

APPENDIX I

Drawings

ST. PETERS HOSPITAL BASEMENT

GENERAL NOTES:

1. DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
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6. ALL TESTING SHALL BE SHIPPED AND COMPLETED BY A THIRD PARTY

KEY PLAN

N.T.S.

NO.	DATE M/D/Y	REVISIONS	BY
1	1/1/2013	UPDATED	GS
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4	3/31/2016	UPDATED by ECOH	MM
5	6/15/2017	UPDATED by ECOH	JK
6	11/5/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND – FLOORS

- ACM VINYL FLOOR TILES
- ACM VINYLSHEET FLOORING
- ACM ABATED AREA AS PER HHS RECORDS
- NAR NO ACCESS TO ROOM/AREA

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

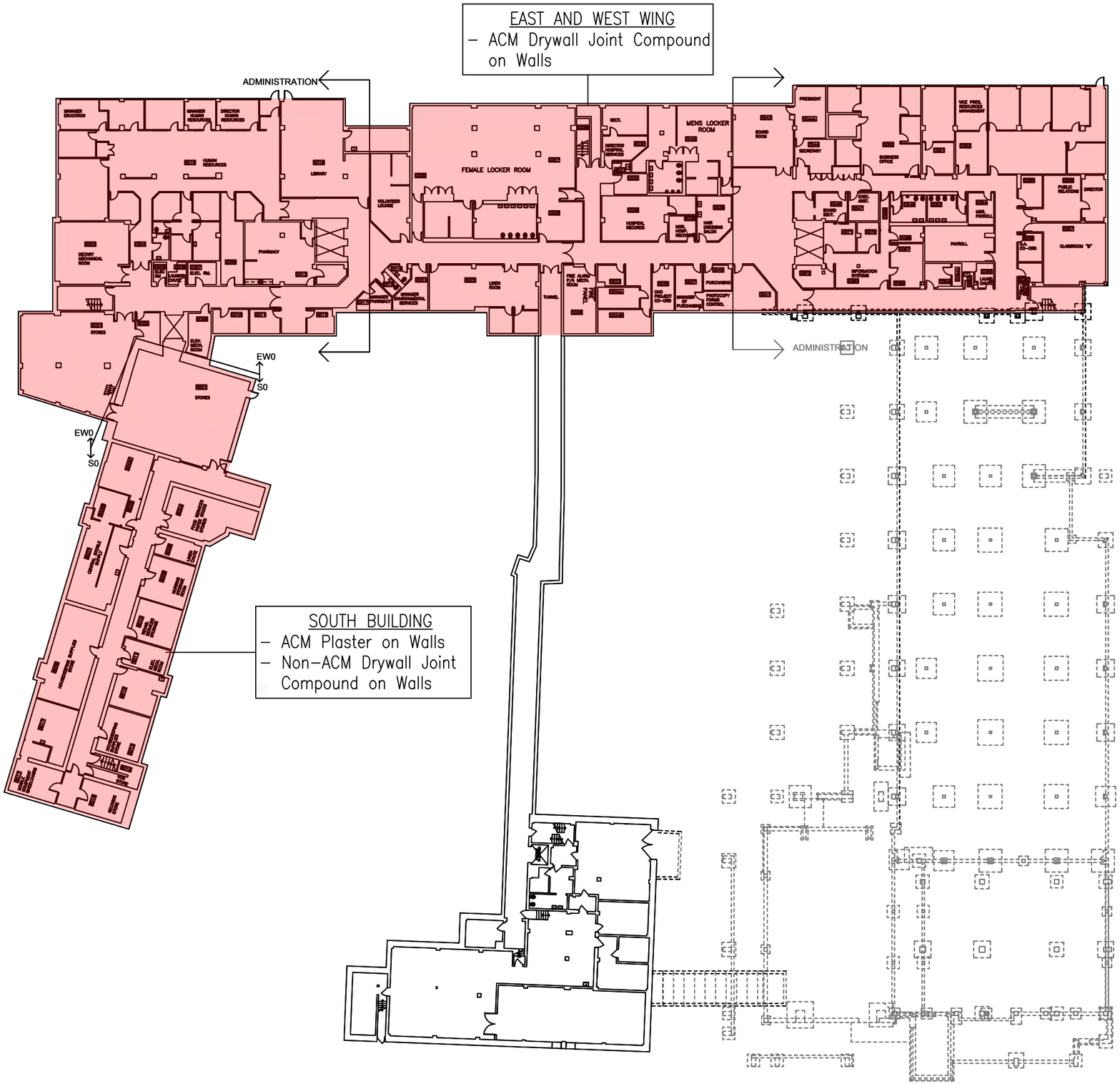
PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
ST. PETERS HOSPITAL
BASEMENT
ACM ON FLOOR

PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 21742001030 RA-01 Floor Level B SPH

DRAWING No.

RA-01A



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ST. PETERS HOSPITAL BASEMENT

KEY PLAN

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5	6/15/2017	UPDATED by ECOH	JK
6	11/5/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND – FLOORS

NO ACM PRESENT

ACM DRYWALL JOINT COMPOUND AND/OR PLASTER

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

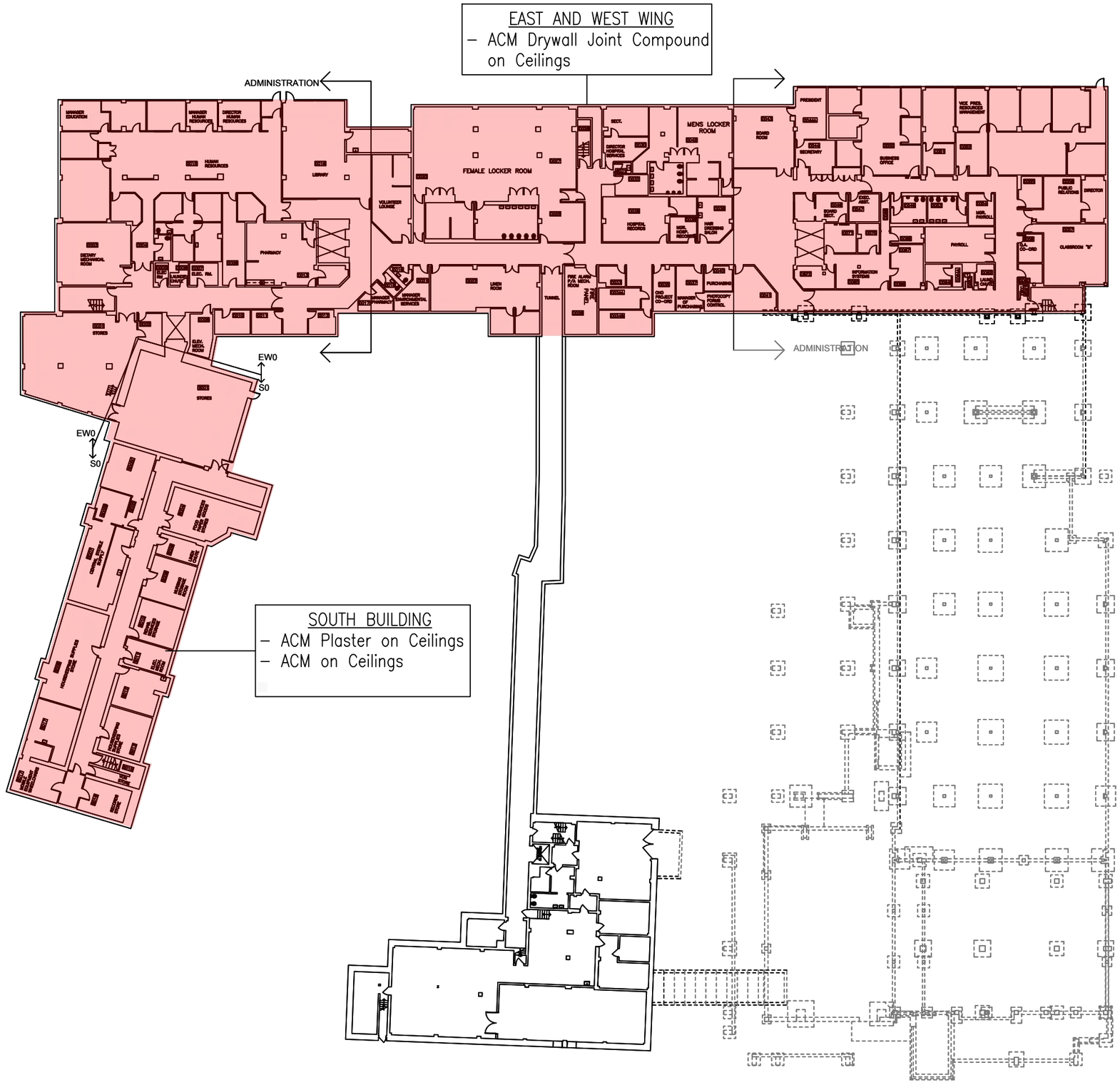
DRAWING:
ST. PETERS HOSPITAL
BASEMENT
ACM ON WALL

PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 21742X0030 RA–01 Floor Level B SPH

DRAWING No.

RA-01B

SHEET SIZE = ARCH D – 24" x 36" (IMPERIAL) – 610mm x 914mm (METRIC)



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6	11/5/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND – FLOORS

ACM PLASTER AND/OR DRYWALL JOINT COMPOUND

NO ACM PRESENT

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

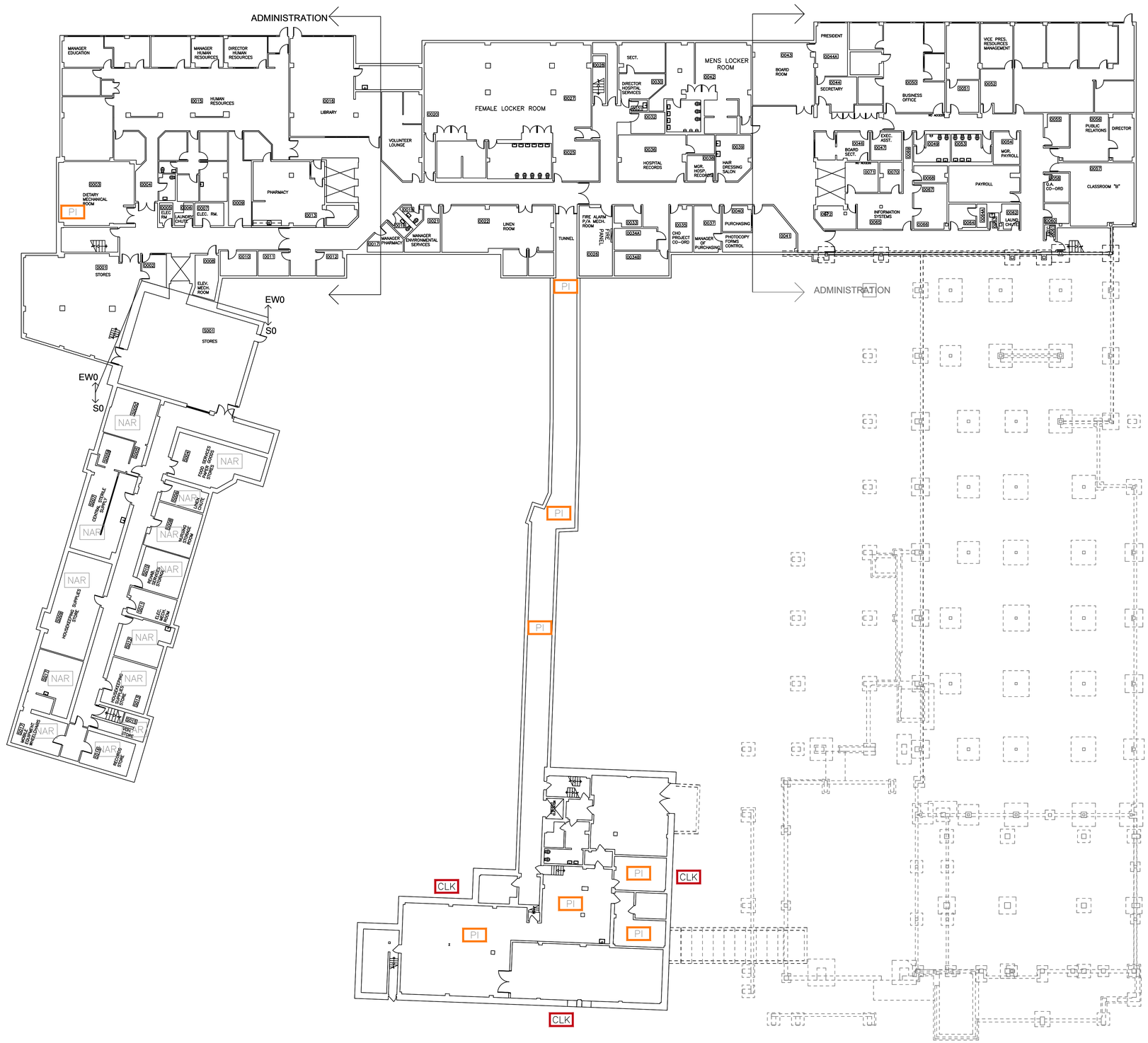
DRAWING:
ST. PETERS HOSPITAL
BASEMENT
ACM ON CEILING

PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 21720030 RA-01 Floor Level B SPH

DRAWING No.

RA-01C

SHEET SIZE = ARCH 'D' - 24" x 36" (ANSID/A1) - 610mm x 914mm (METRIC)



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6	11/5/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND – OTHER

- PI ACM PIPE INSULATION
- DI ACM DUCT INSULATION
- MI ACM MECHANICAL INSULATION
- T1 TYPE 1 ENTRY
- T2 TYPE 2 ENTRY
- T3 TYPE 3 ENTRY
- TF ACM TEXTURE FINISH
- FS ACM FIRESTOPPING
- T TRANSITE
- CLK CAULKING
- NAR NO ACCESS TO ROOM/AREA

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

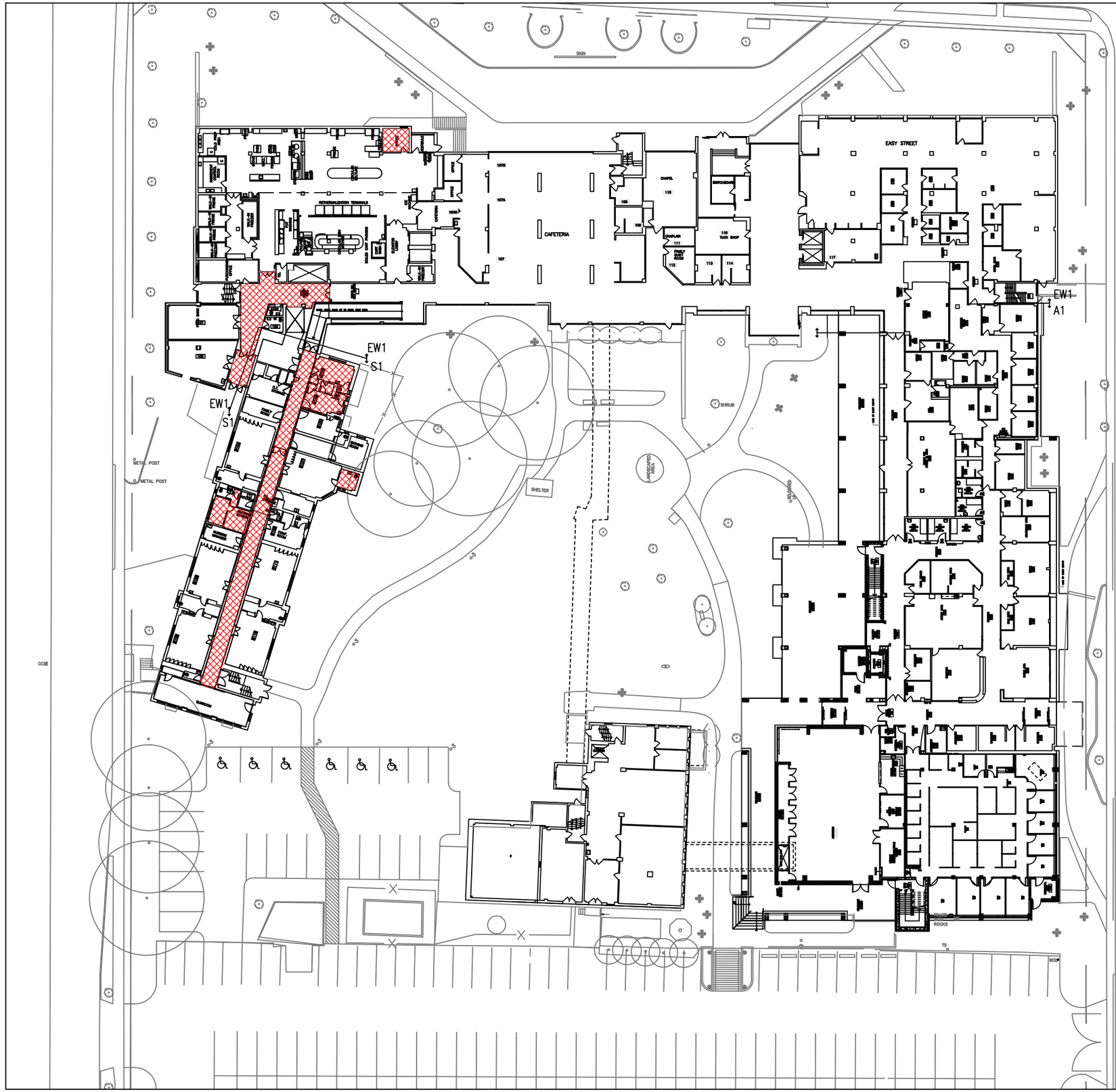
DRAWING:
ST. PETERS HOSPITAL BASEMENT
ACM ON OTHER

PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 217420.030 RA-01 Floor Level B SPH

DRAWING No.

RA-01D

SHEET SIZE = ARCH D - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)



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ST. PETERS HOSPITAL LEVEL 1

KEY PLAN

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LEGEND – FLOORS

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- ACM VINYLSHEET FLOORING
- ACM ABATED AREA AS PER HHS RECORDS

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

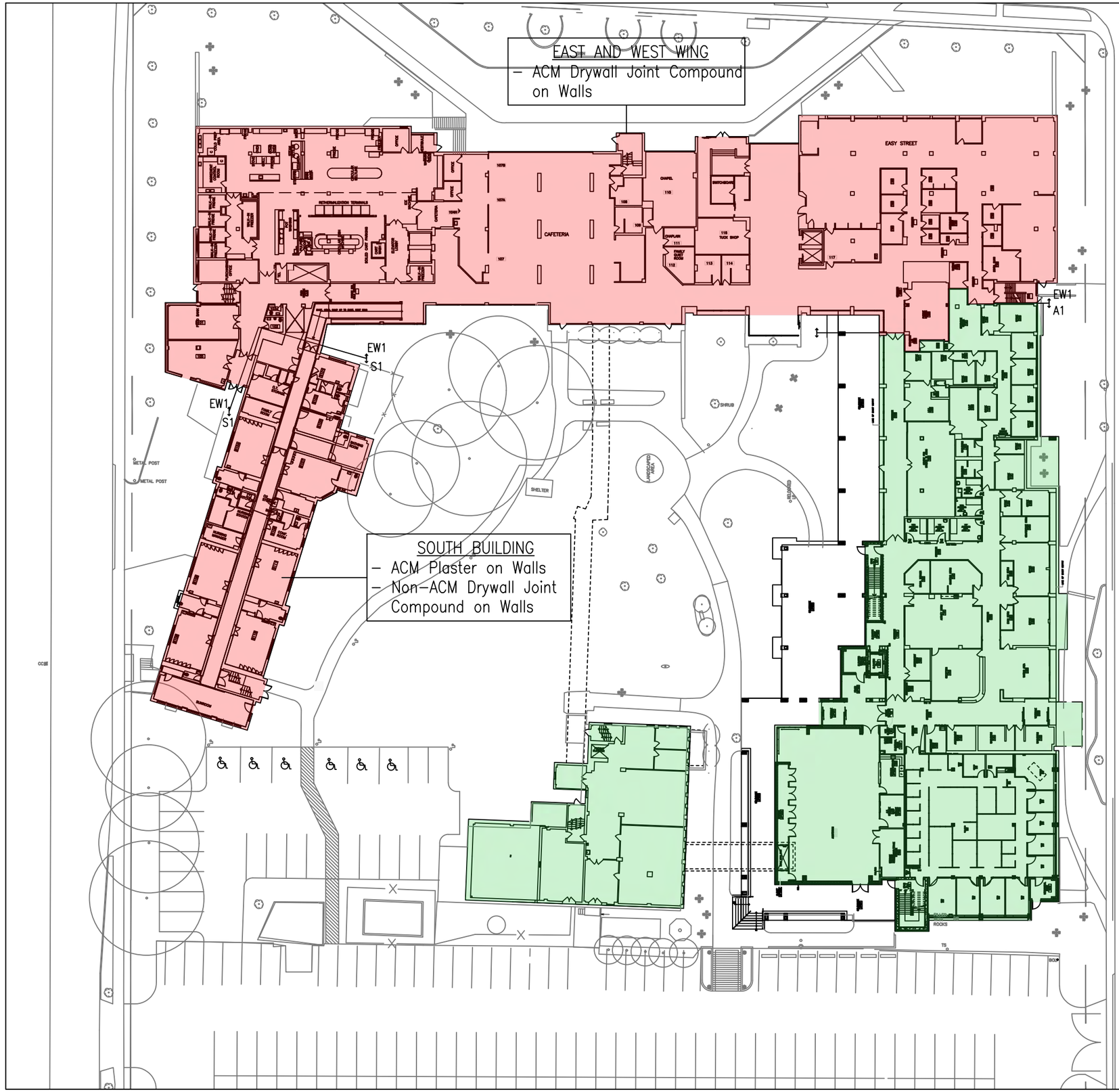
DRAWING:
ST. PETERS HOSPITAL
LEVEL 1
ACM ON FLOOR

PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 2174200030 RA-02 Floor Level 1 SPH

DRAWING No.

RA-02A

SHEET SIZE = ANSI D (TABLOID) 24" x 36" = 610 x 914mm (METRIC)



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ST. PETERS HOSPITAL LEVEL 1

KEY PLAN N.T.S.

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5	6/15/2017	UPDATED by ECOH	JK
6	11/2/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND – FLOORS

NO ACM PRESENT

ACM DRYWALL JOINT COMPOUND AND/OR PLASTER

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

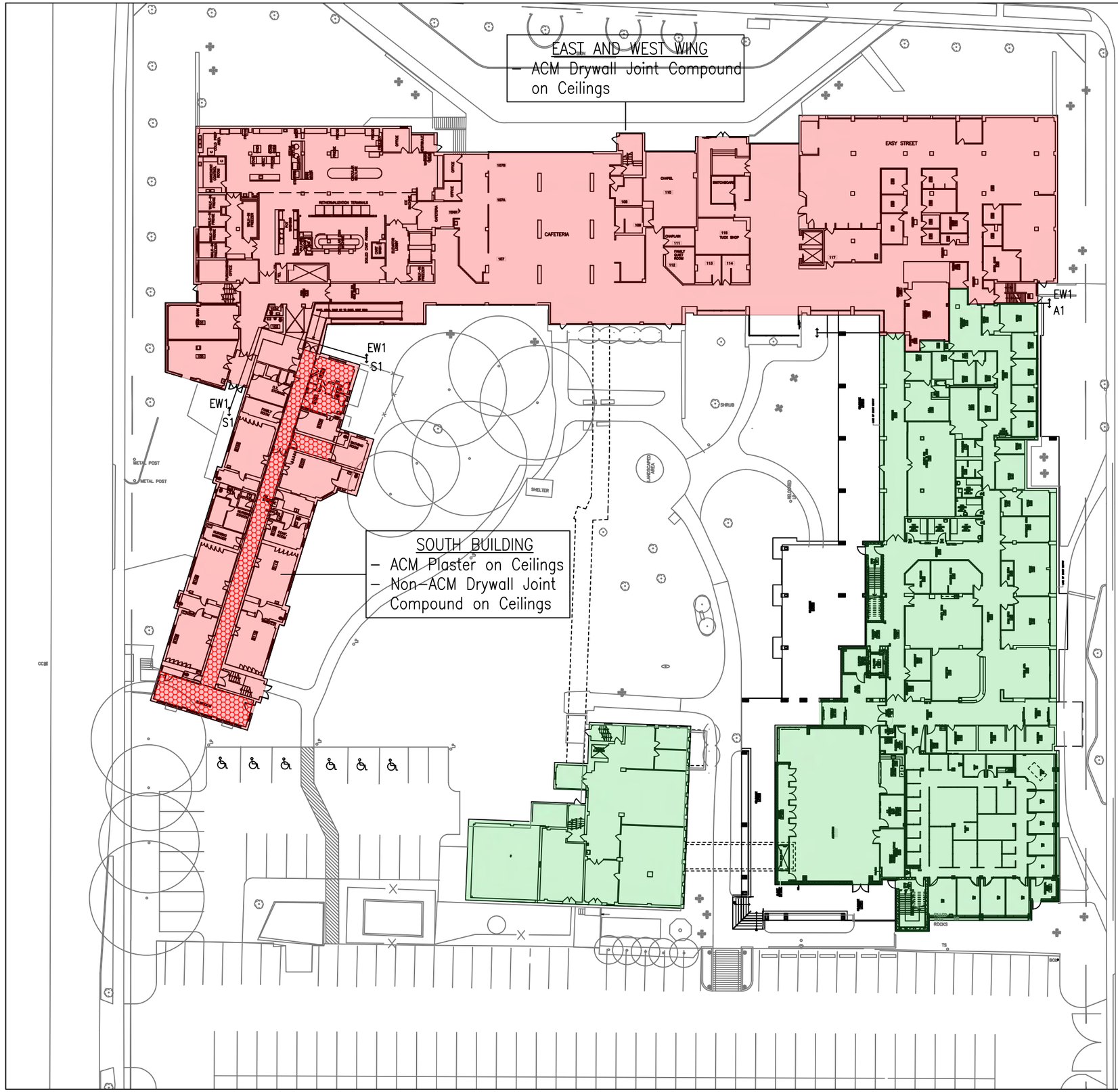
DRAWING:
ST. PETERS HOSPITAL
LEVEL 1
ACM ON WALL

PLOT DATE: NOVEMBER 2018	DEPARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 2174200:030 RA–02 Floor Level 1 SPH

DRAWING No.

RA-02B

SHEET SIZE = ARCH 'D' - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)



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ST. PETERS HOSPITAL LEVEL 1

KEY PLAN

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6	11/2/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND – CEILING

NO ACM PRESENT

ACM PLASTER AND/OR DRYWALL JOINT COMPOUND

ACM PAPER IN METAL PAN CEILING TILE ABOVE CEILING

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

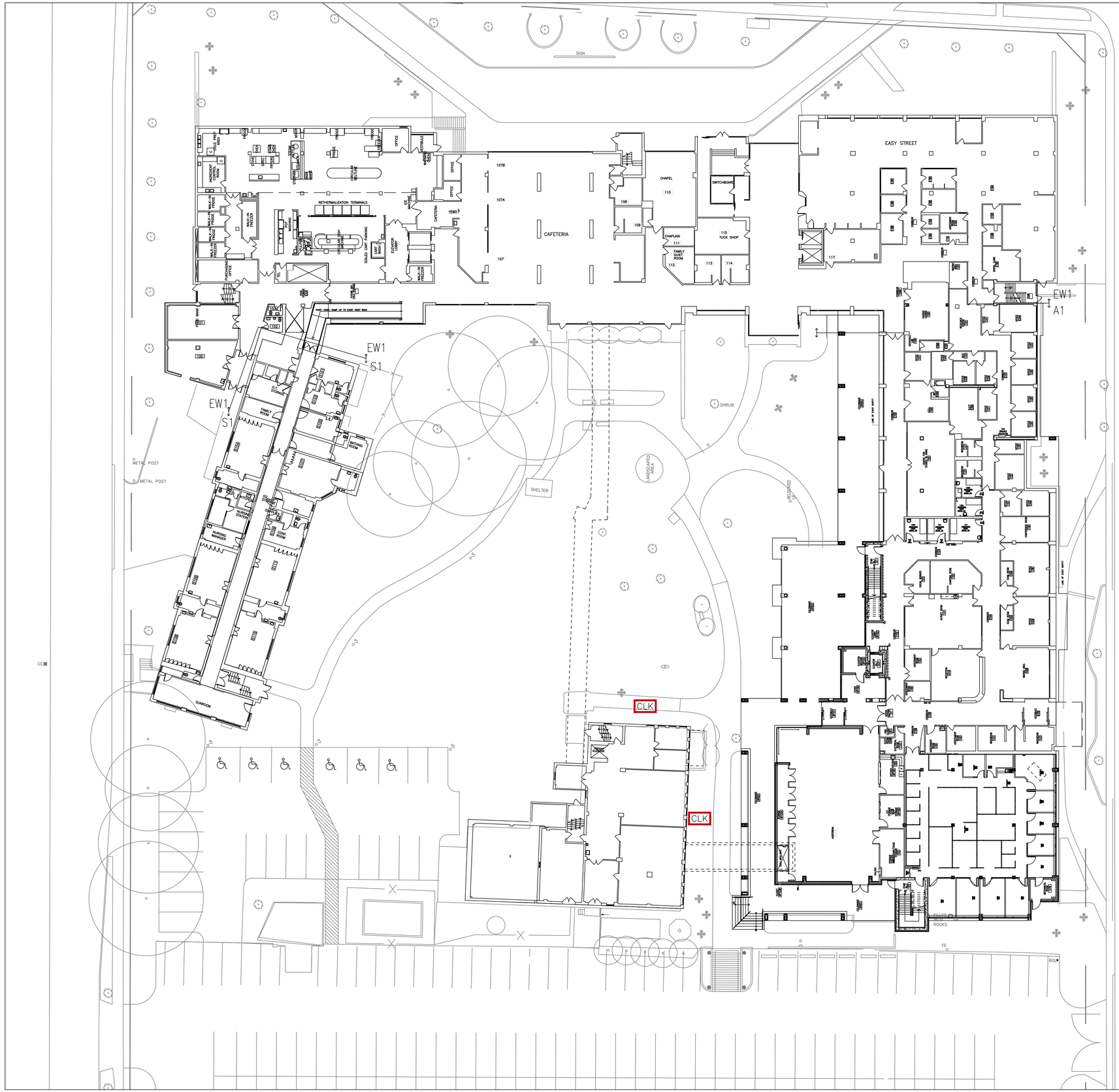
PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
ST. PETERS HOSPITAL
LEVEL 1
ACM ON CEILING

PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 21720D030 RA-02 Floor Level 1 SPH
DRAWING No.	

RA-02C

SHEET SIZE = ARCH 'D' – 24" x 36" (IMPERIAL) – 610mm x 914mm (METRIC)



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LEGEND – OTHER

PI	ACM PIPE INSULATION
DI	ACM DUCT INSULATION
MI	ACM MECHANICAL INSULATION
T1	TYPE 1 ENTRY
T2	TYPE 2 ENTRY
T3	TYPE 3 ENTRY
TF	ACM TEXTURE FINISH
FS	ACM FIRESTOPPING
T	TRANSITE
CLK	CAULKING
NAR	NO ACCESS TO ROOM/AREA

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
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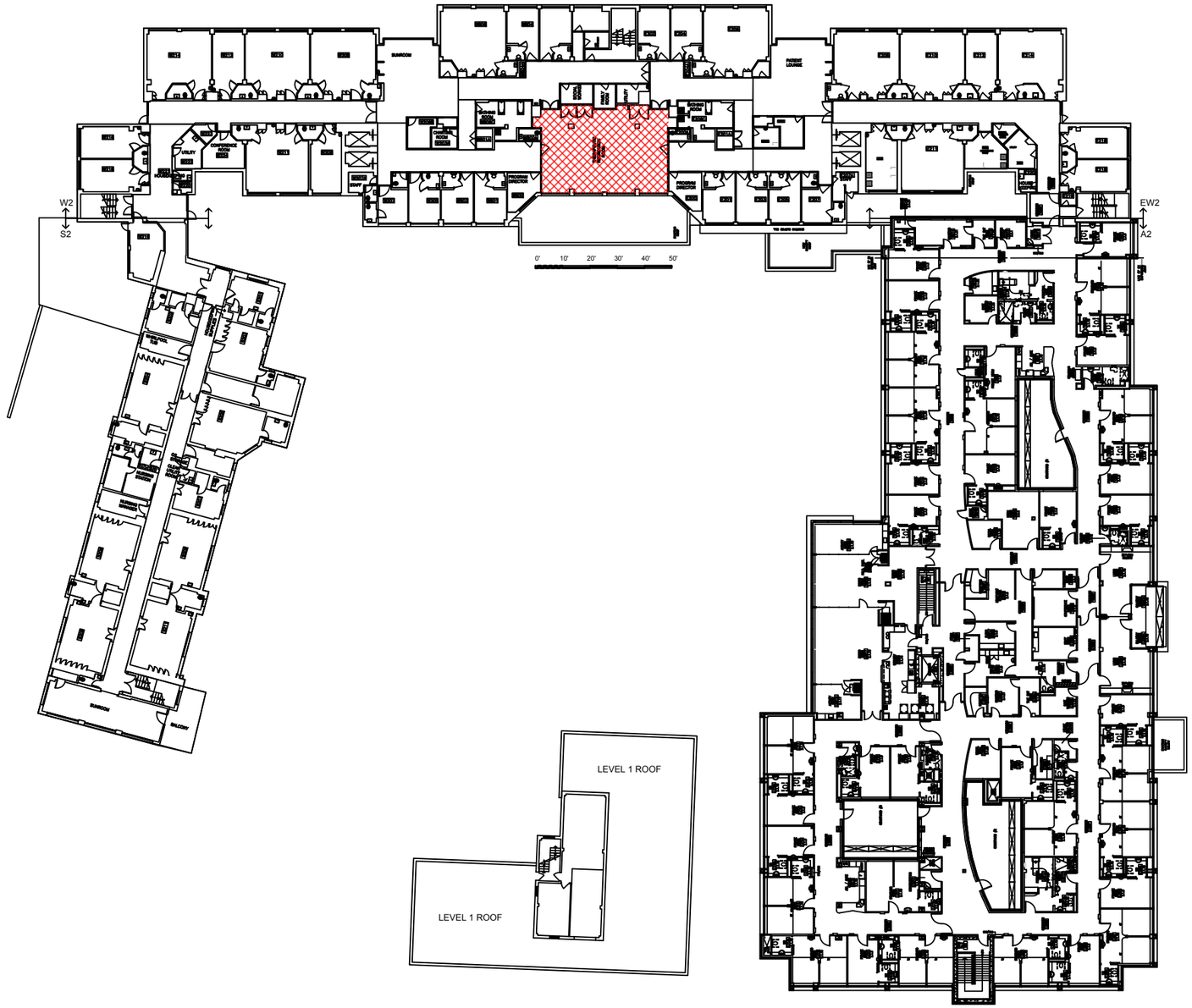
DRAWING:
ST. PETERS HOSPITAL
LEVEL 1
ACM ON OTHER

PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 217420.030 RA-02 Floor Level 1 SPH

DRAWING No.

RA-02D

SHEET SIZE = ARCH 'D' - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)



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ST. PETERS HOSPITAL LEVEL 2

KEY PLAN N.T.S.

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5	11/5/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND

- ACM VINYL FLOOR TILES
- ACM VINYLSHEET FLOORING
- ACM ABATED AREA AS PER HHS RECORDS

ASBESTOS–CONTAINING LEVELING COMPOUND IS PRESUMED PRESENT BELOW VINYL FLOOR TILES THROUGHOUT THE EAST AND WEST WINGS

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

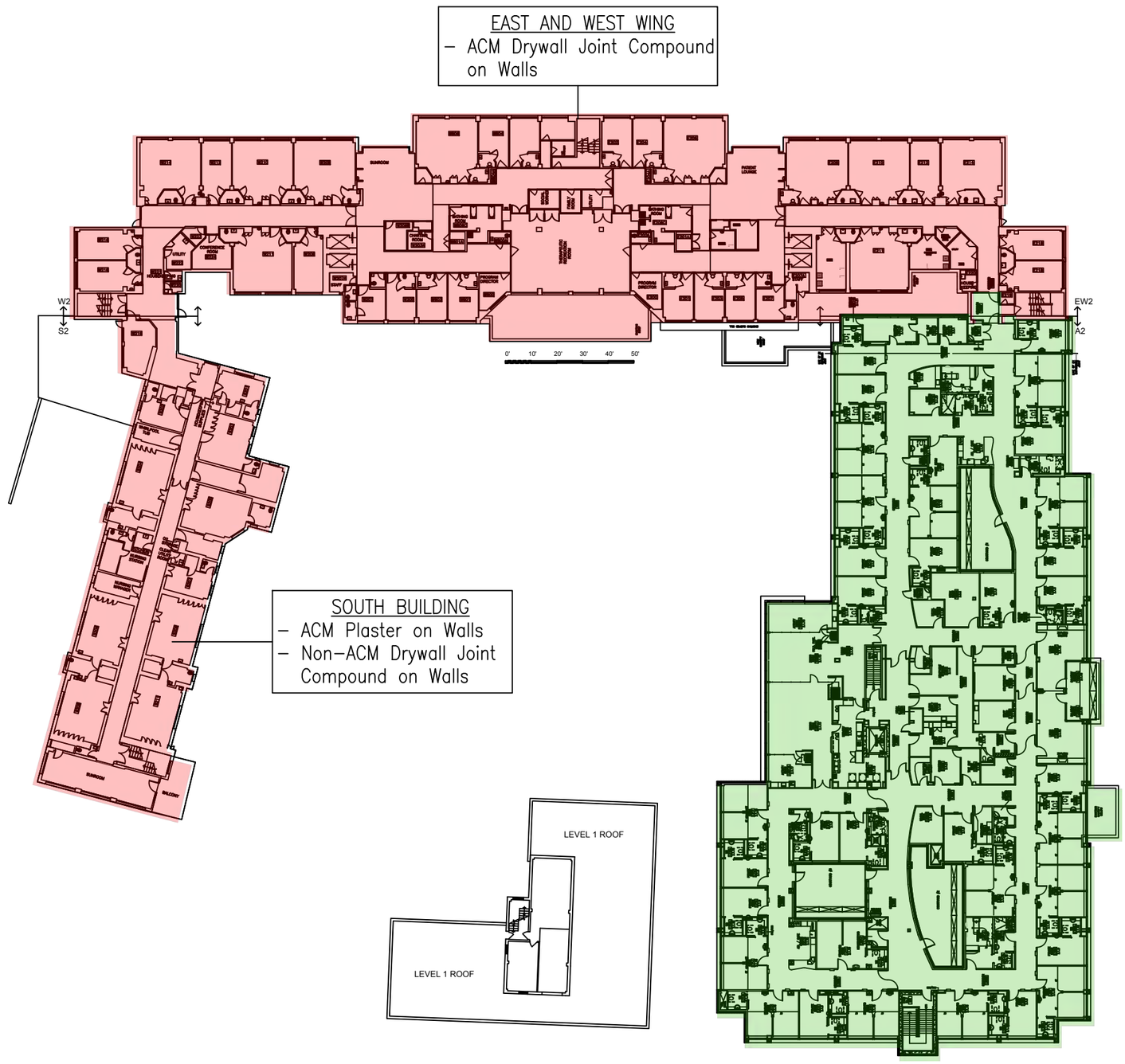
DRAWING:
ST. PETERS HOSPITAL
LEVEL 2
ACM ON FLOOR

PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 21742X0030 RA-03 Floor Level 2 SPH

DRAWING No.

RA-03A

SHEET SIZE = ARCH D ~ 24" x 36" (IMPERIAL) ~ 610mm x 914mm (METRIC)



ST. PETERS HOSPITAL LEVEL 2

GENERAL NOTES:

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6. AREAS DENOTED AS "SUSPECT MATERIAL" SHOULD BE PRESUMED TO CONTAIN ASBESTOS IN THE ABSENCE OF ADDITIONAL SAMPLING THAT PROVES OTHERWISE.

KEY PLAN

N.T.S.

NO.	DATE M/D/Y	REVISIONS	BY
1	1/1/2013	UPDATED	GS
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3	3/1/2013	UPDATED	GS
4	3/31/2016	UPDATED by ECOH	MM
5	6/15/2017	UPDATED by ECOH	JK
6	11/5/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND

ACM DRYWALL JOINT COMPOUND AND/OR PLASTER

NO ACM PRESENT

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

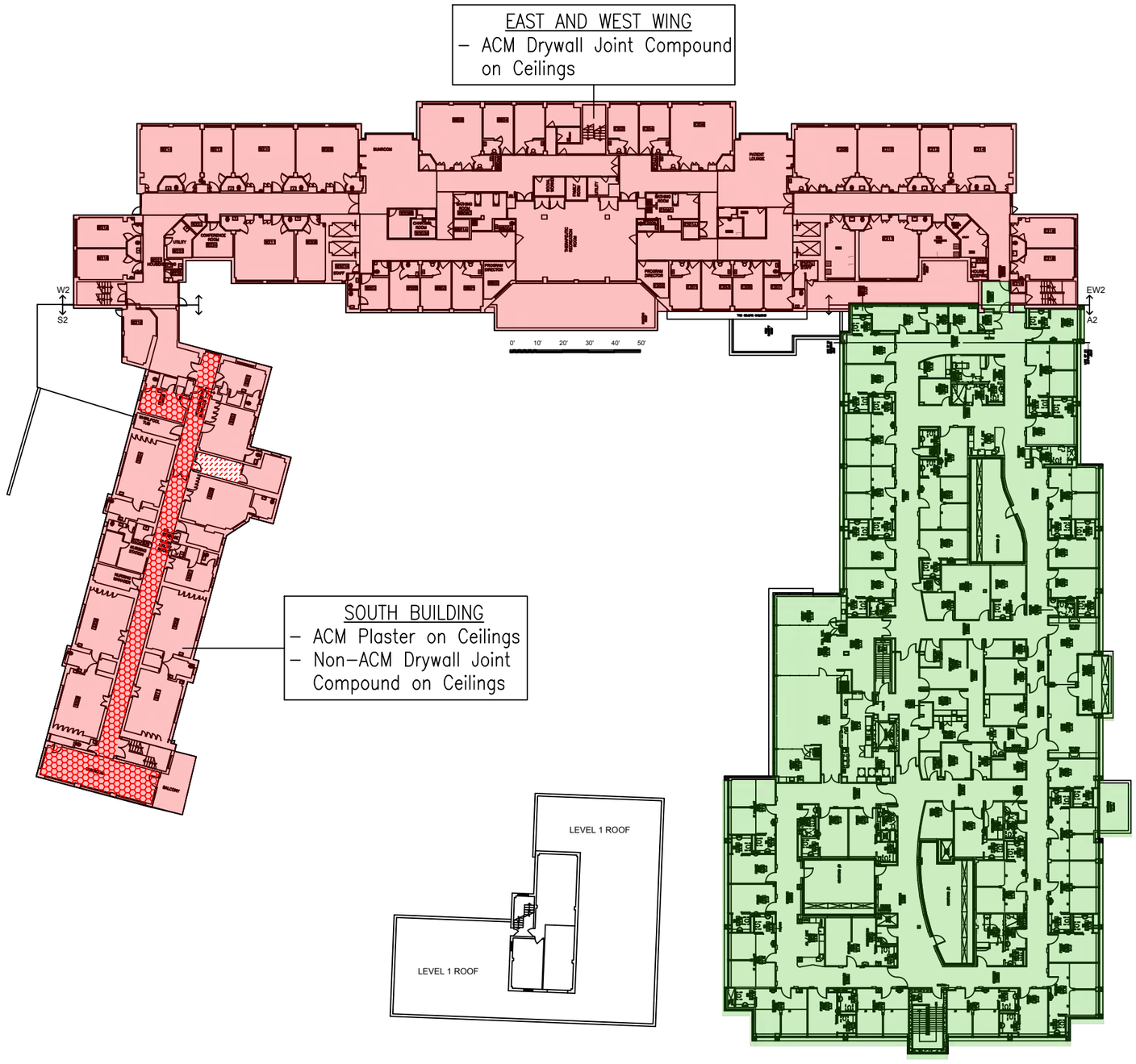
DRAWING:
ST. PETERS HOSPITAL
LEVEL 2
ACM ON WALL

PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 21742\03D30 RA–03 Floor Level 2 SPH

DRAWING No.

RA-03B

SHEET SIZE = ARCH "D" (ANSI/ANSI) = 610mm x 914mm (METRIC)



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ST. PETERS HOSPITAL LEVEL 2

KEY PLAN N.T.S.

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6	11/5/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND

- ACM DRYWALL JOINT COMPOUND AND/OR PLASTER
- NO ACM PRESENT
- PAPER ABOVE METAL PAN CEILING TILES
- TRANSITE

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

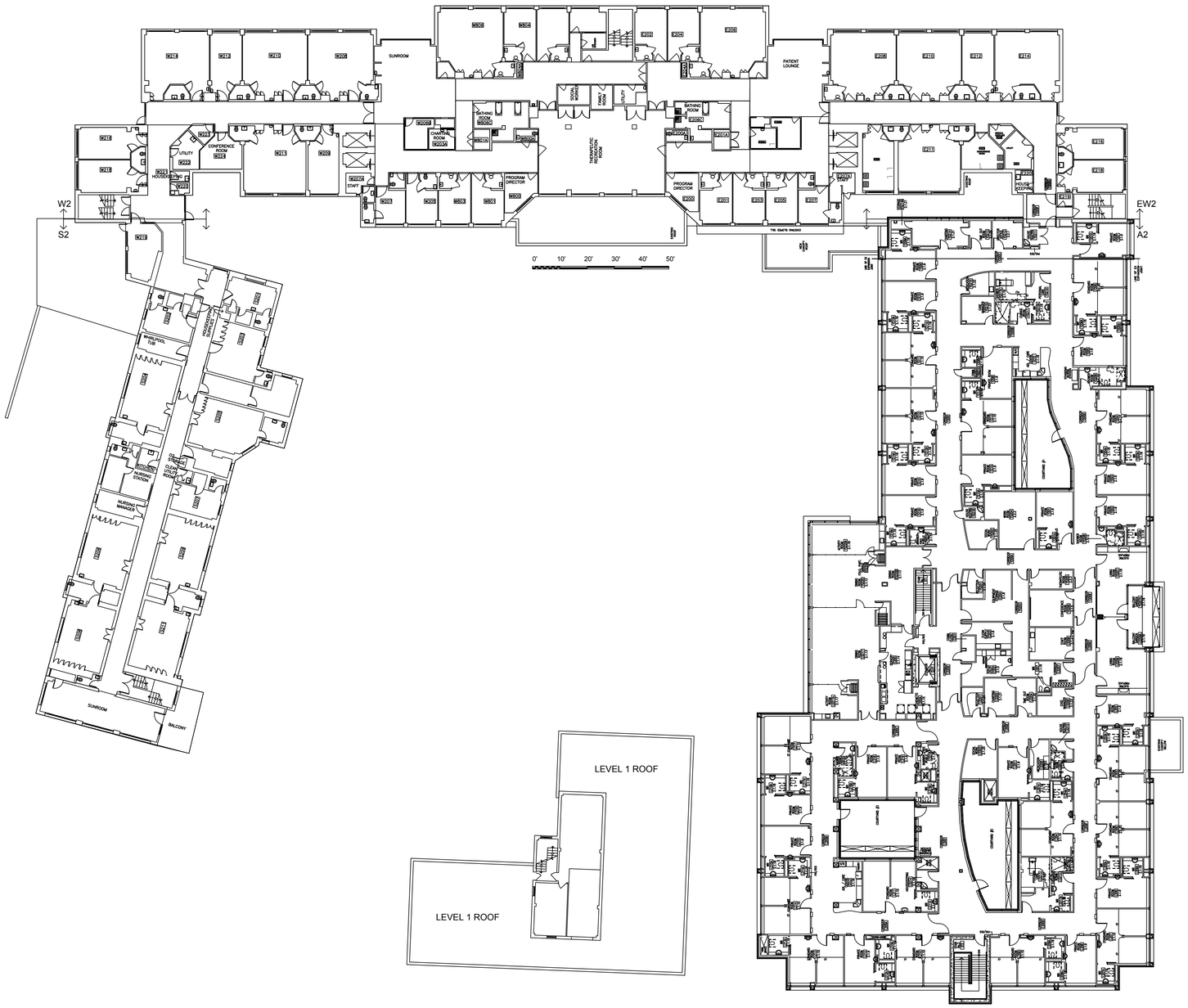
DRAWING:
ST. PETERS HOSPITAL
LEVEL 2
ACM ON CEILING

PLOT DATE: NOVEMBER 2018	DEPARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 21742000\030 RA-03 Floor Level 2 SPH

DRAWING No.

RA-03C

SHEET SIZE = ARCH 'D' - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)



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ST. PETERS HOSPITAL LEVEL 2

KEY PLAN

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6	11/5/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND

- PI ACM PIPE INSULATION
- DI ACM DUCT INSULATION
- MI ACM MECHANICAL INSULATION
- T1 TYPE 1 ENTRY
- T2 TYPE 2 ENTRY
- T3 TYPE 3 ENTRY
- TF ACM TEXTURE FINISH
- FS ACM FIRESTOPPING
- T TRANSITE
- NAR NO ACCESS TO ROOM/AREA

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

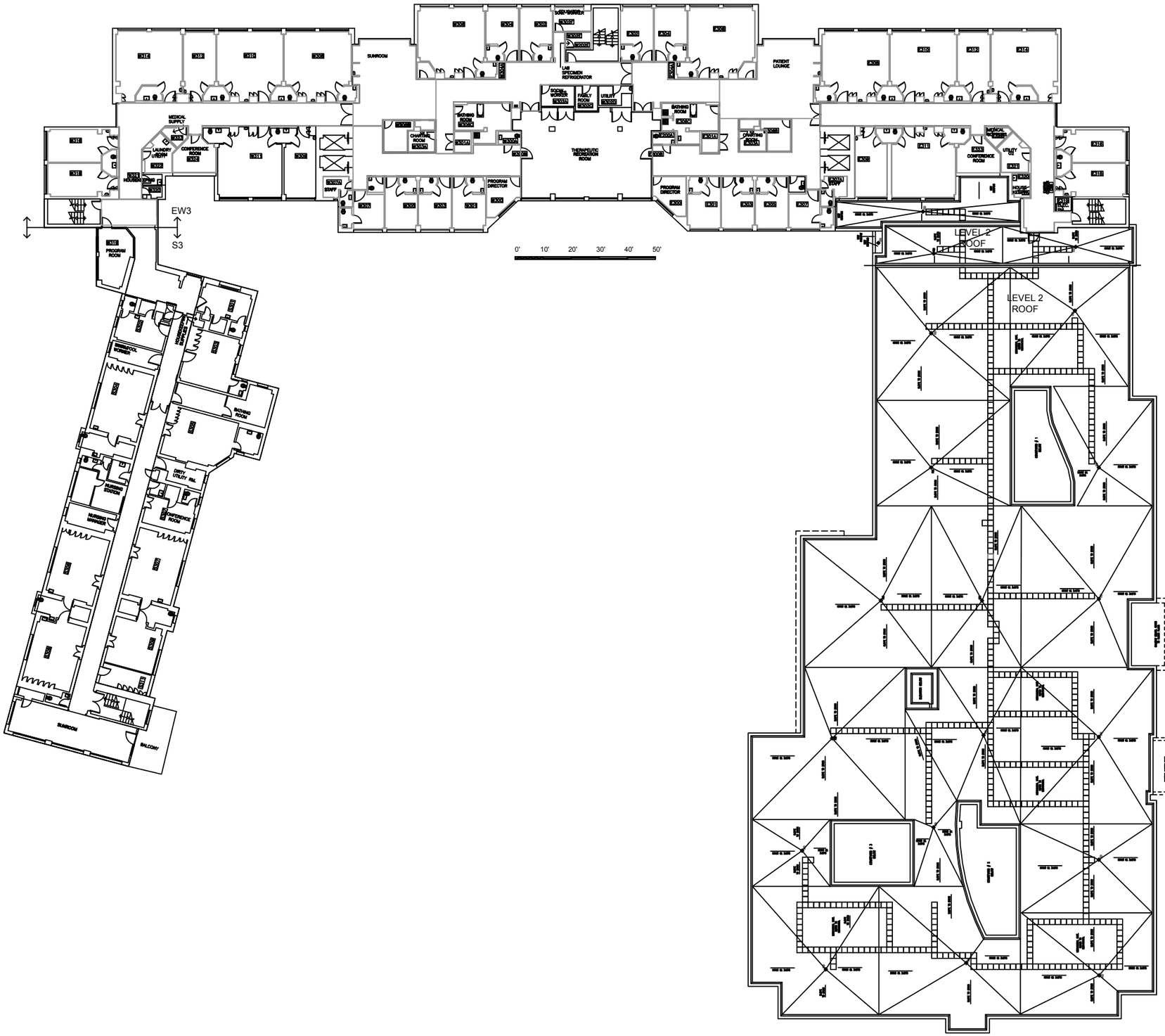
DRAWING:
ST. PETERS HOSPITAL
LEVEL 2
ACM ON OTHER

PLOT DATE:	DEPTARTMENT:
NOVEMBER 2018	HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 217420.030 RA-03 Floor Level 2 SPH

DRAWING No.

RA-03D

SHEET SIZE = ARCH 'D' - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)



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ST. PETERS HOSPITAL LEVEL 3

KEY PLAN

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LEGEND

- ACM VINYL FLOOR TILES
- ACM VINYLSHEET FLOORING
- ACM ABATED AREA AS PER HHS RECORDS

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
ST. PETERS HOSPITAL
LEVEL 3
ACM ON FLOOR

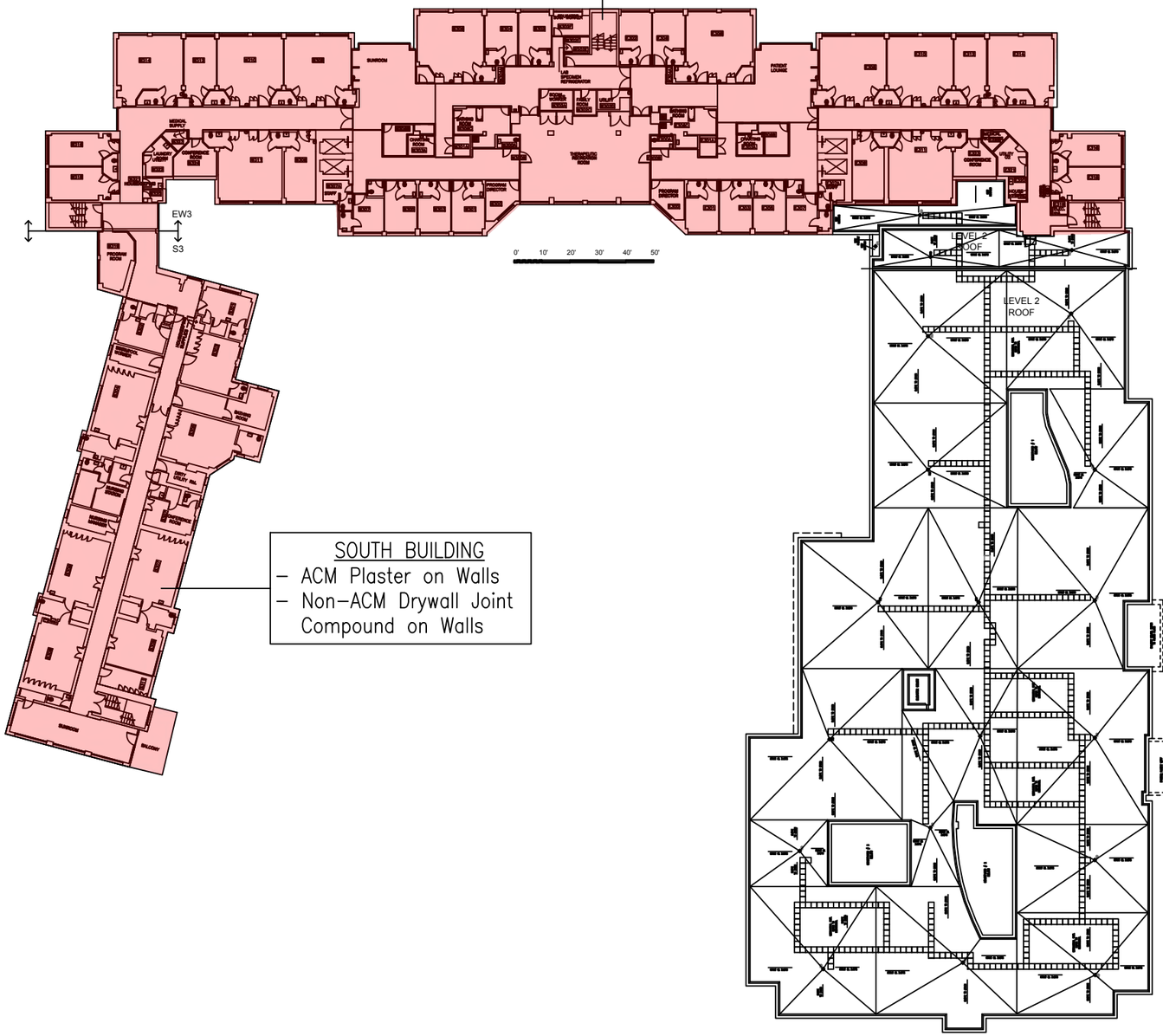
PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 2174200030 RA-04 Floor Level 3 SPH

DRAWING No.

RA-04A

SHEET SIZE = ARCH 'D' - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)

EAST AND WEST WING
– ACM Drywall Joint Compound on Walls



SOUTH BUILDING
– ACM Plaster on Walls
– Non–ACM Drywall Joint Compound on Walls

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ST. PETERS HOSPITAL LEVEL 3

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6	11/5/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND

NO ACM PRESENT

ACM DRYWALL JOINT COMPOUND AND/OR PLASTER

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

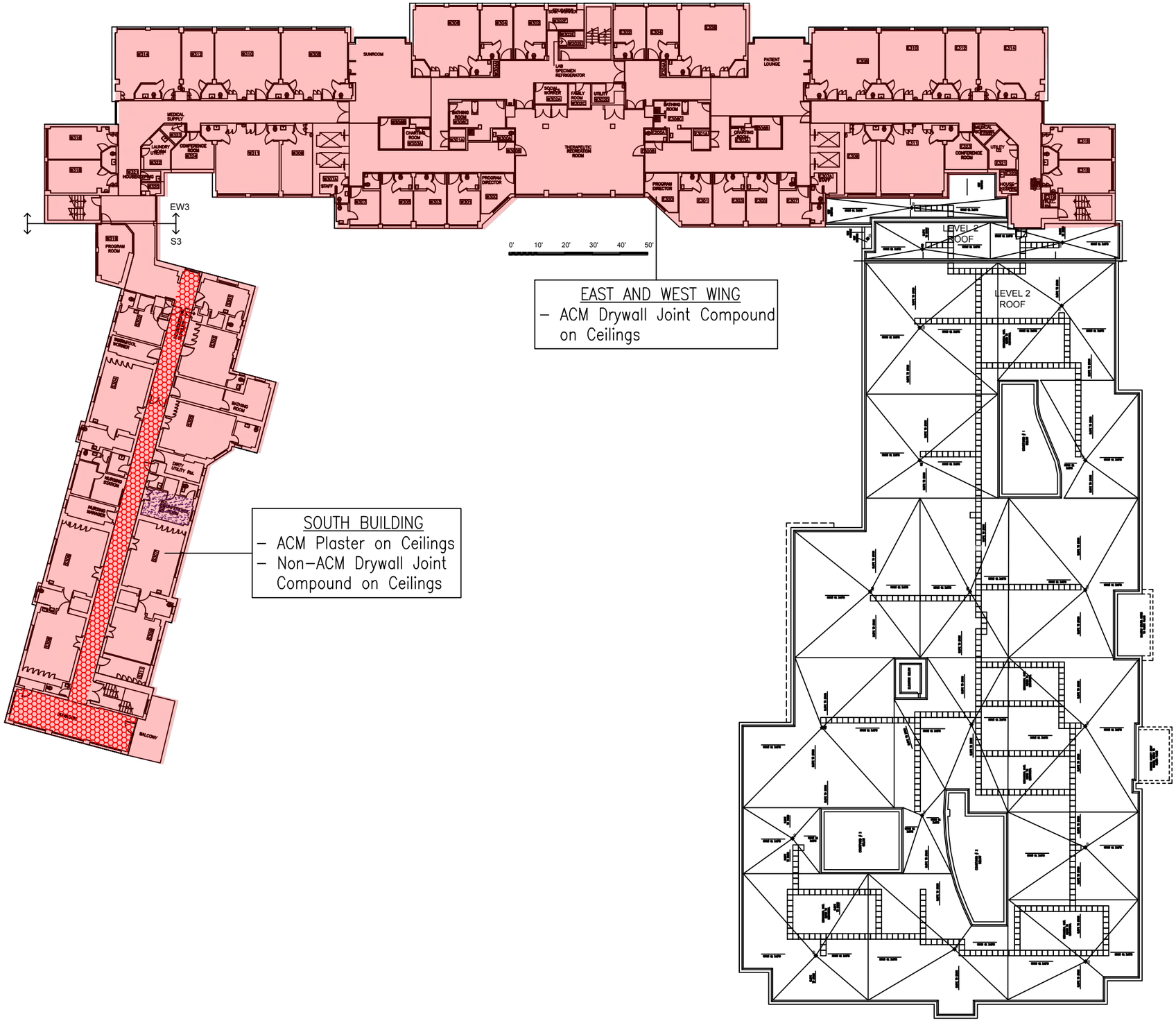
DRAWING:
ST. PETERS HOSPITAL
LEVEL 3
ACM ON WALL

PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 21742C030 RA-04 Floor Level 3 SPH

DRAWING No.

RA-04B

SHEET SIZE = 32X (ARCH) ~ 610mm x 914mm (ARCH D) ~ 24" x 36" – A1 (ISO)



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ST. PETERS HOSPITAL LEVEL 3

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6	11/5/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND

- ACM PLASTER AND/OR CEILING TILES OR DRYWALL JOINT COMPOUND
- NO ACM PRESENT
- PAPER ABOVE METAL PAN CEILING TILES
- ACM TRANSITE PANEL ABOVE CEILING

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

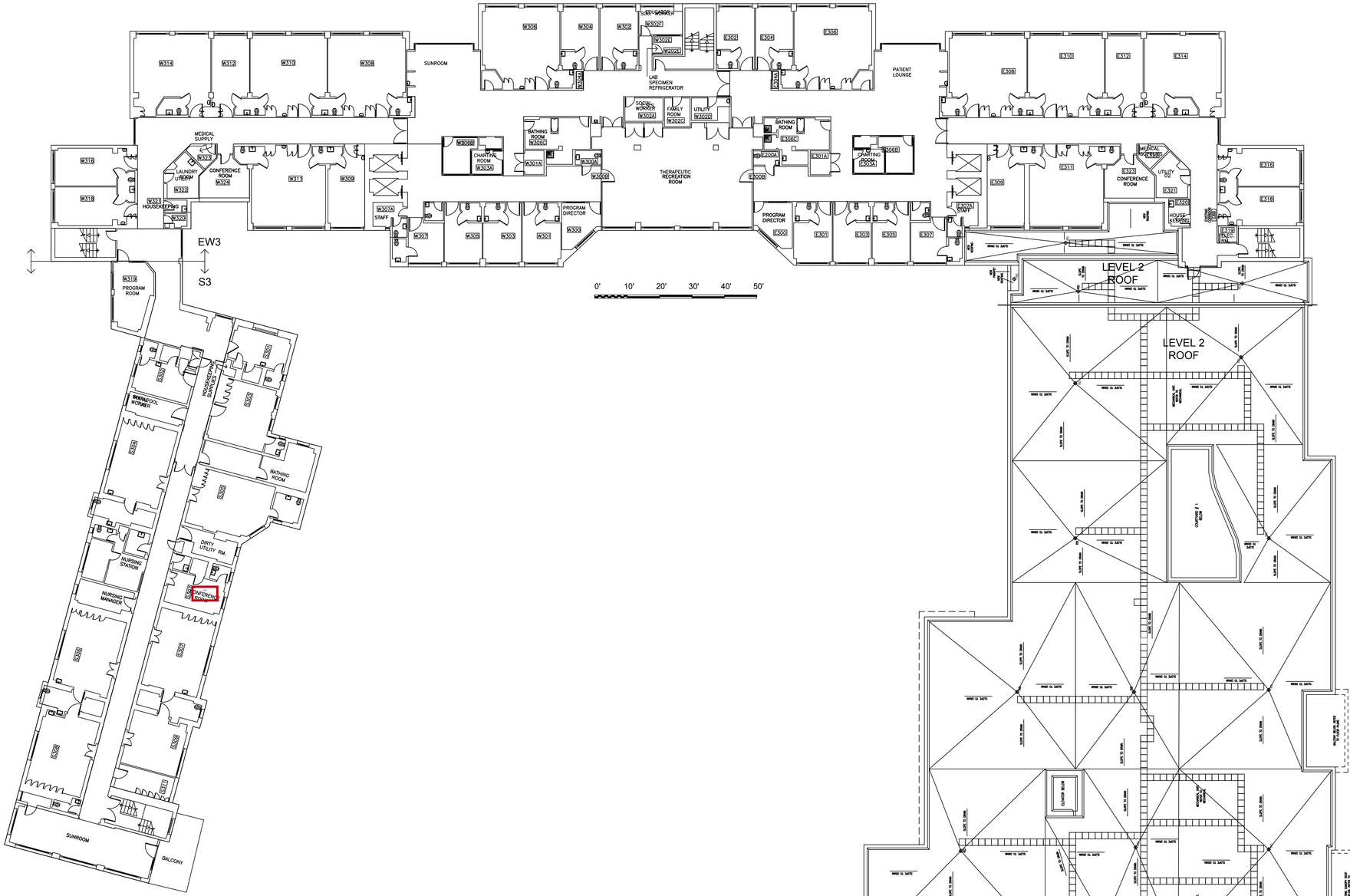
DRAWING:
ST. PETERS HOSPITAL
LEVEL 3
ACM ON CEILING

PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 21742X0030 RA-04 Floor Level 3 SPH

DRAWING No.

RA-04C

SHEET SIZE = ARCH D - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)



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ST. PETERS HOSPITAL LEVEL 3

KEY PLAN

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LEGEND

- PI ACM PIPE INSULATION
- DI ACM DUCT INSULATION
- MI ACM MECHANICAL INSULATION
- T1 TYPE 1 ENTRY
- T2 TYPE 2 ENTRY
- T3 TYPE 3 ENTRY
- TF ACM TEXTURE FINISH
- FS ACM FIRESTOPPING
- T TRANSITE
- NAR NO ACCESS TO ROOM/AREA

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

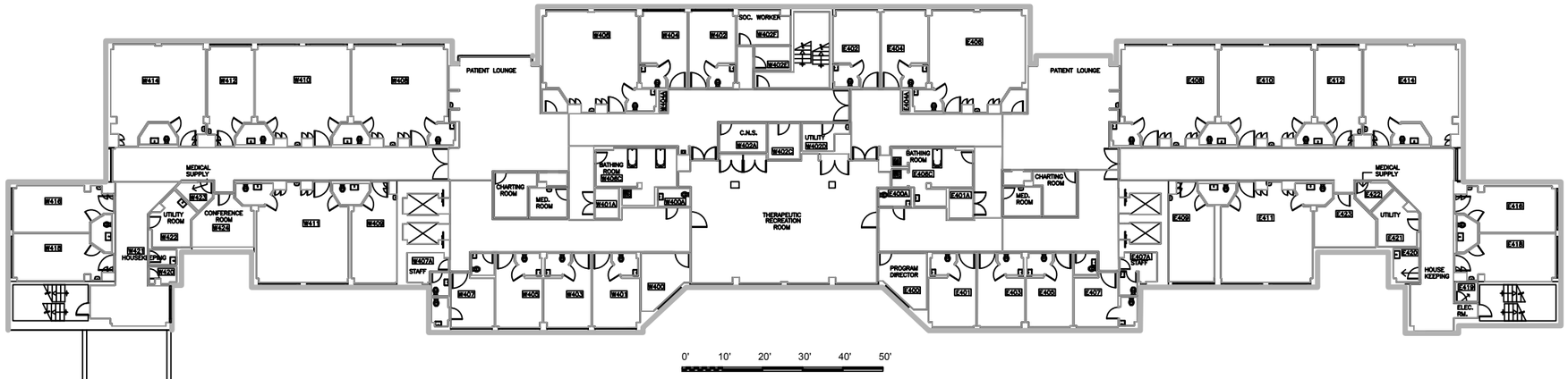
DRAWING:
ST. PETERS HOSPITAL
LEVEL 3
ACM ON OTHER

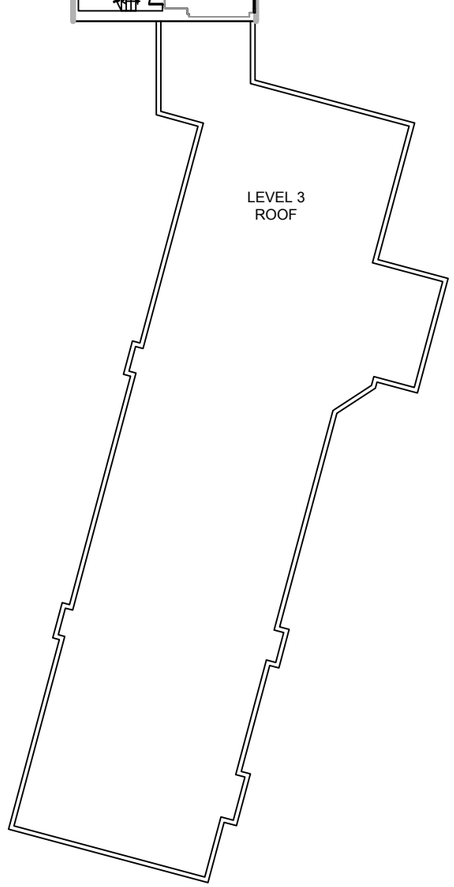
PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 2174.20.030 RA-04 Floor Level 3 SPH

DRAWING No.

RA-04D

SHEET SIZE = ARCH 'D' - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)





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ST. PETERS HOSPITAL LEVEL 4

KEY PLAN

N.T.S.

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5	11/5/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND – FLOORS

- ACM VINYL FLOOR TILES
- ACM VINYLSHEET FLOORING
- ACM ABATED AREA AS PER HHS RECORDS

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
ST. PETERS HOSPITAL
LEVEL 4
ACM ON FLOOR

PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 2174200\030 RA-05 Floor Level 4 SPH

DRAWING No.

RA-05A

SHEET SIZE = ARCH 'D' - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)

EAST AND WEST WING
– ACM Drywall Joint Compound on Walls

LEVEL 3
ROOF

GENERAL NOTES:

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ST. PETERS HOSPITAL LEVEL 4

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5	11/5/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND – FLOORS

NO ACM PRESENT

ACM DRYWALL JOINT COMPOUND AND /OR PLASTER

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

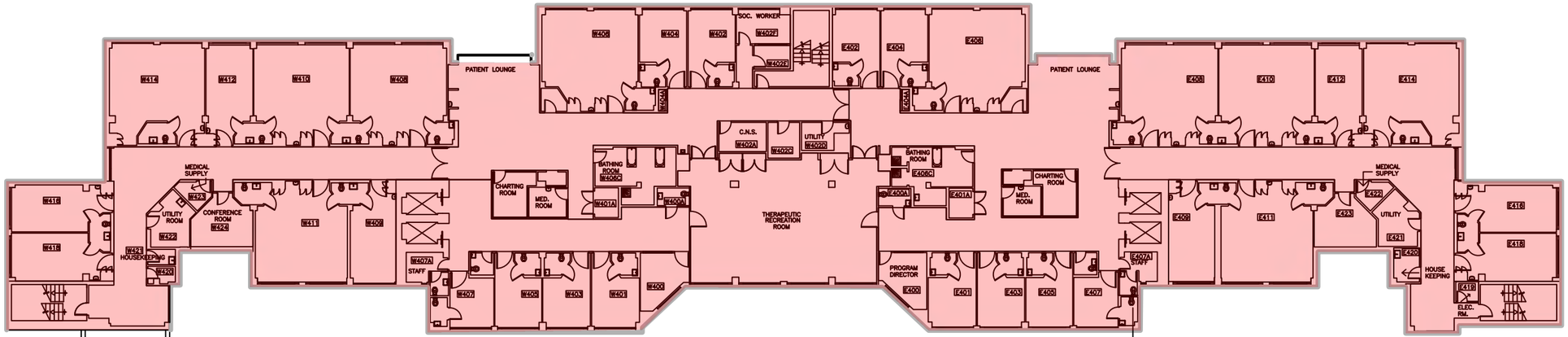
DRAWING:
ST. PETERS HOSPITAL
LEVEL 4
ACM ON WALL

PLOT DATE: NOVEMBER 2018	DEPARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 217A00030 RA-05 Floor Level 4 SPH

DRAWING No.

RA-05B

SHEET SIZE = ARCH 'D' - 24" x 36" (AMERICAN) - 610mm x 914mm (METRIC)



0' 10' 20' 30' 40' 50'

LEVEL 3
ROOF

EAST AND WEST WING
– ACM Drywall Joint Compound on Ceilings

GENERAL NOTES:

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ST. PETERS HOSPITAL LEVEL 4

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4	6/15/2017	UPDATED by ECOH	JK
5	11/5/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND – FLOORS

ACM DRYWALL JOINT COMPOUND

NO ACM PRESENT

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

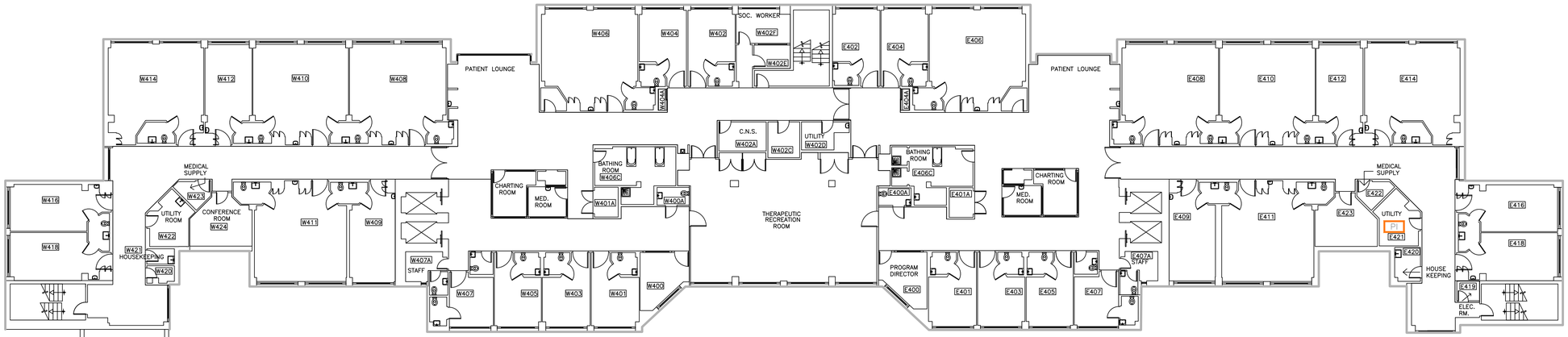
DRAWING:
ST. PETERS HOSPITAL
LEVEL 4
ACM ON CEILING

PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 21742D1030 RA-05 Floor Level 4 SPH

DRAWING No.

RA-05C

SHEET SIZE = ARCH 'D' - 24" x 36" (LANDSCAPE) - 610mm x 914mm (METRIC)



LEVEL 3
ROOF

GENERAL NOTES:

1. DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
2. DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT.
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4. PRIOR TO UNDERTAKING ANY REPAIR RENOVATION OR DEMOLITION, REVIEW THE AMP (ASBESTOS MANAGEMENT PLAN) AND SURVEY PRIOR TO COMMENCEMENT OF WORK.
5. IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.
6. ALL TESTING SHALL BE SHIPPED AND COMPLETED BY A THIRD PARTY

ST. PETERS HOSPITAL LEVEL 4

KEY PLAN

N.T.S.

NO.	DATE M/D/Y	REVISIONS	BY
1	1/1/2013	UPDATED	GS
2	2/1/2013	UPDATED	GS
3	3/1/2013	UPDATED	GS
4	6/15/2017	UPDATED by ECOH	JK
5	11/5/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND – OTHER

- PI ACM PIPE INSULATION
- DI ACM DUCT INSULATION
- MI ACM MECHANICAL INSULATION
- T1 TYPE 1 ENTRY
- T2 TYPE 2 ENTRY
- T3 TYPE 3 ENTRY
- TF ACM TEXTURE FINISH
- FS ACM FIRESTOPPING
- T TRANSITE
- NAR NO ACCESS TO ROOM/AREA

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

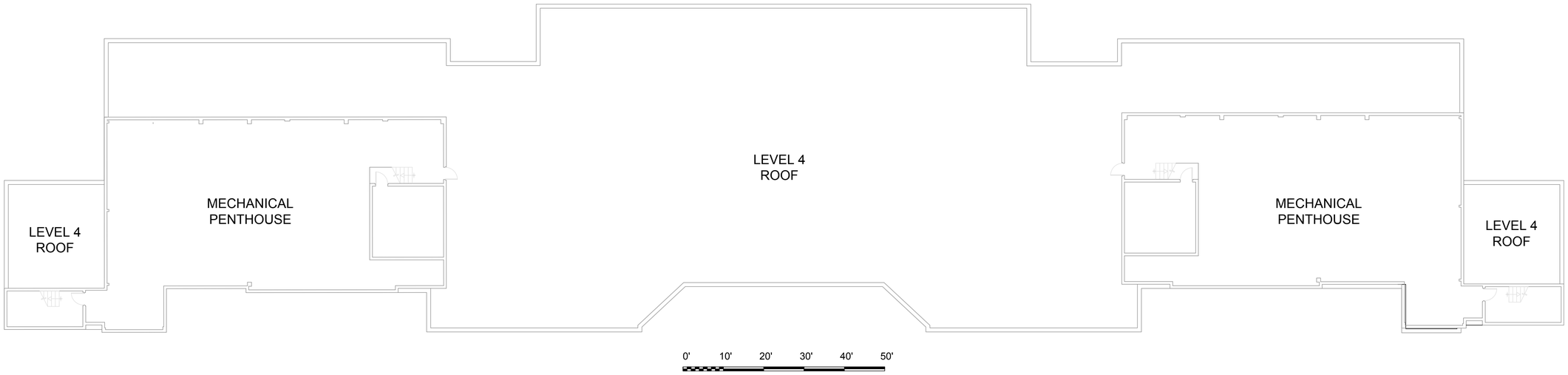
DRAWING:
ST. PETERS HOSPITAL
LEVEL 4
ACM ON OTHER

PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 217420.030 RA-05 Floor Level 4 SPH

DRAWING No.

RA-05D

SHEET SIZE = ARCH 'D' - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)



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ST. PETERS HOSPITAL LEVEL 5

KEY PLAN

N.T.S.

NO.	DATE M/D/Y	REVISIONS	BY
1	1/1/2013	UPDATED	GS
2	2/1/2013	UPDATED	GS
3	3/1/2013	UPDATED	GS
4	11/5/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND – FLOORS

- ACM VINYL FLOOR TILES
- ACM VINYLSHEET FLOORING
- ACM ABATED AREA AS PER HHS RECORDS

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

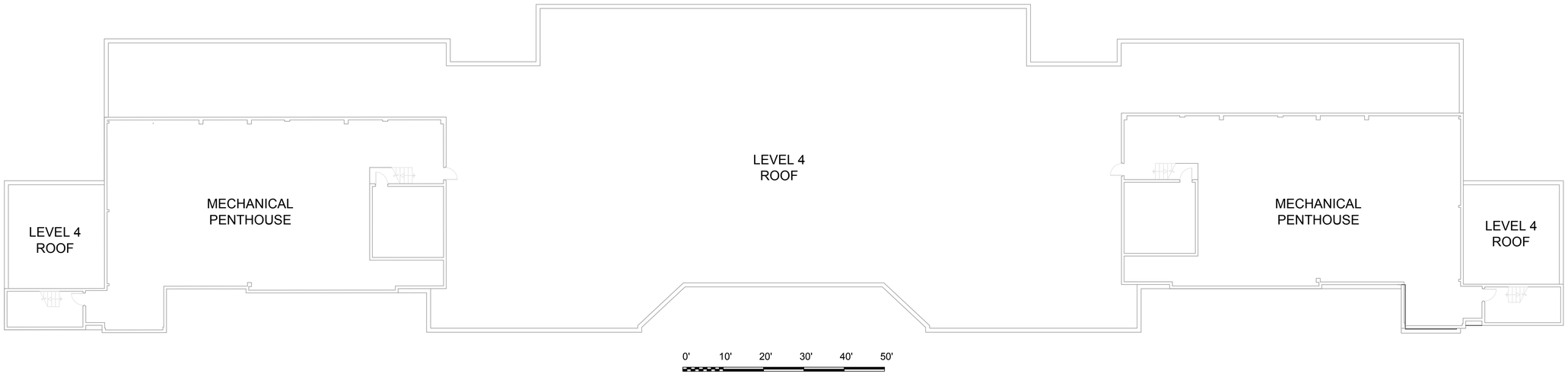
PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
ST. PETERS HOSPITAL
LEVEL 5
ACM ON FLOOR

PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 217420.030 RA-06 Floor Level 5 SPH

DRAWING No.

RA-06A



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ST. PETERS HOSPITAL LEVEL 5

KEY PLAN

N.T.S.

NO.	DATE M/D/Y	REVISIONS	BY
1	1/1/2013	UPDATED	GS
2	2/1/2013	UPDATED	GS
3	3/1/2013	UPDATED	GS
4	11/5/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND – FLOORS

ACM ABATED AREA AS PER HHS RECORDS

ACM DRYWALL JOINT COMPOUND

ACM PLASTER

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

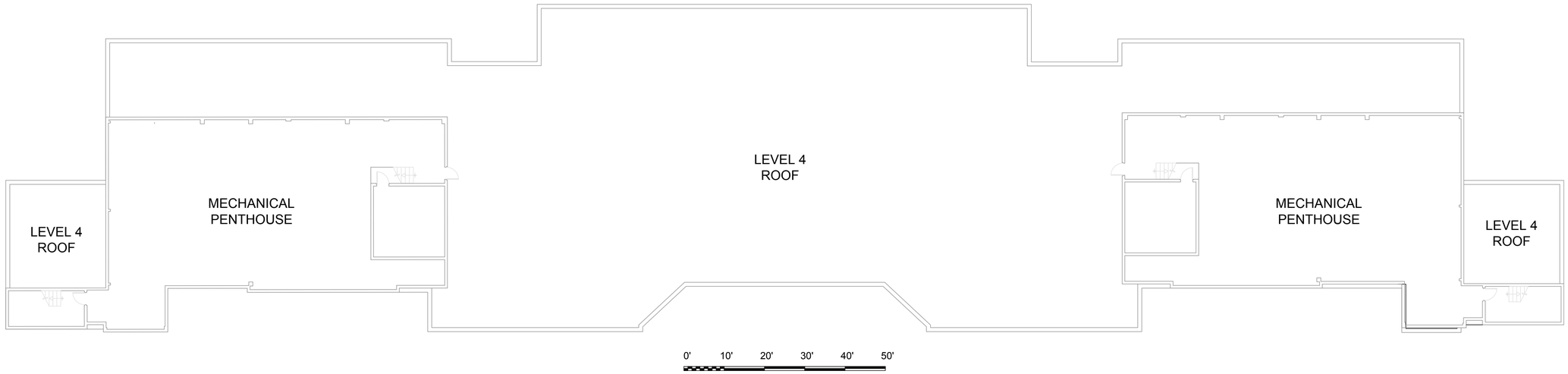
PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
ST. PETERS HOSPITAL
LEVEL 5
ACM ON WALL

PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 217420.030 RA-06 Floor Level 5 SPH

DRAWING No.

RA-06B



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ST. PETERS HOSPITAL LEVEL 5

KEY PLAN N.T.S.

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4	11/5/2018	UPDATED by PINCHIN LIMITED	JB

LEGEND – FLOORS

ACM ABATED AREA AS PER HHS RECORDS

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

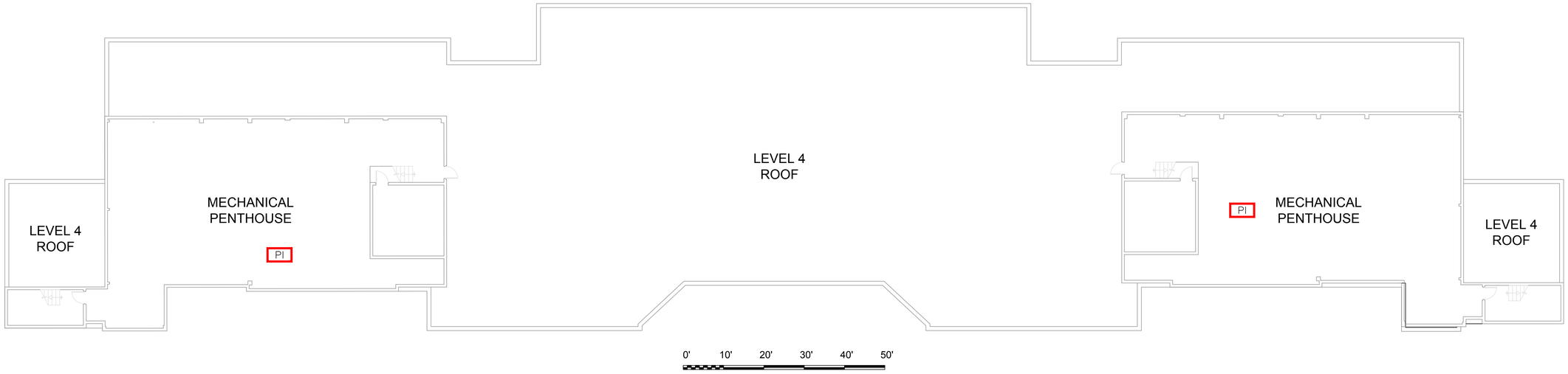
PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
ST. PETERS HOSPITAL
LEVEL 5
ACM ON CEILING

PLOT DATE: NOVEMBER 2018	DEPTARTMENT: HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 217420.030 RA-06 Floor Level 5 SPH

DRAWING No.

RA-06C



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KEY PLAN

N.T.S.

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LEGEND – OTHER

- PI ACM PIPE INSULATION
- DI ACM DUCT INSULATION
- MI ACM MECHANICAL INSULATION
- T1 TYPE 1 ENTRY
- T2 TYPE 2 ENTRY
- T3 TYPE 3 ENTRY
- TF ACM TEXTURE FINISH
- FS ACM FIRESTOPPING
- T TRANSITE
- NAR NO ACCESS TO ROOM/AREA

ST. PETERS SITE

Hamilton Health Sciences
FACILITIES MANAGEMENT

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
ST. PETERS HOSPITAL
LEVEL 5
ACM ON OTHER

PLOT DATE:	DEPTARTMENT:
NOVEMBER 2018	HAZARDOUS MATERIALS
SCALE: N.T.S.	SUPERVISOR: MICHAEL MAIORANA
DRAWN BY: JORDAN BOULOS	FILE NAME: 21420.030 RA-06 Floor Level 5 SPH

DRAWING No.

RA-06D

SHEET SIZE = ARCH 'D' – 24" x 36" (IMPERIAL) – 610mm x 914mm (METRIC)

APPENDIX II

Asbestos Analytical Certificates

PINCHIN
ENVIRONMENTAL
CONSULTANTS LTD.

COOPERS BUSINESS CENTRE
5749 COOPERS AVENUE
MISSISSAUGA, ONTARIO
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital
K6780
PREPARED FOR: Kyle Prosser
Pinchin Environmental Consultants Ltd.

LAB REFERENCE NO: b9328 - 1995
DATE: September 27, 1995

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)		COMMENTS
		ASBESTOS	OTHER	
001 Plaster on Wall, Basement, Room S012	2 Phases: a) Homogeneous, grey, hard cementitious material.	None Detected	Hair Trace Non-fibrous Material >75%	
	b) Homogeneous, white, hard cementitious material.	Chrysotile Trace	Non-fibrous Material >75%	
002 Plaster on Wall, Basement, Room S009	2 Phases: a) Homogeneous, grey, hard cementitious material.	None Detected	Hair Trace Non-fibrous Material >75%	
	b) Homogeneous, white, hard cementitious material.	Chrysotile Trace	Non-fibrous Material >75%	
003 Mag Block and Parging Cement	2 Phases: a) Homogeneous, grey, soft, cementitious material.	Chrysotile 50-75%	Non-fibrous Material 25-50%	
	b) Homogeneous, white, consolidated, chalky material with fibres.	None Detected	Mineral Wool 5-10% Cellulose 25-50% Non-fibrous Material 50-75%	

ANALYST: Douglas Young

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004 Fibrous Insulation & Parging Cement, Diesel Exhaust	2 Phases: a) Homogeneous, grey, fibrous material.	Amosite 50-75%	Non-fibrous Material 25-50%	
	b) Homogeneous, grey, soft, cementitious material.	Chrysotile 50-75%	Non-fibrous Material 25-50%	
009 Plaster on Wall, First Floor, Room S102	2 Phases: a) Homogeneous, grey, hard cementitious material.	None Detected	Non-fibrous Material >75%	
	b) Homogeneous, white, hard cementitious material.	None Detected	Non-fibrous Material >75%	
010 Plaster on Wall, First Floor, Room S107A	2 Phases: a) Homogeneous, grey, hard cementitious material.	None Detected	Non-fibrous Material >75%	
	b) Homogeneous, white, hard cementitious material.	None Detected	Non-fibrous Material >75%	

ANALYST: Douglas Jones

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BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital
K6780
PREPARED FOR: Kyle Prosser
Pinchin Environmental Consultants Ltd.

LAB REFERENCE NO: b9328 - 1995
DATE: September 27, 1995

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)		COMMENTS
		ASBESTOS	OTHER	
011 Plaster on Wall, First Floor, Room S106A	2 Phases: a) Homogeneous, grey, hard cementitious material.	None Detected	Hair Trace Non-fibrous Material >75%	
	b) Homogeneous, white, hard cementitious material.	None Detected	Non-fibrous Material >75%	
015 Plaster on Wall, Second Floor, Room S205B	2 Phases: a) Homogeneous, grey, hard cementitious material.	None Detected	Hair Trace Non-fibrous Material >75%	
	b) Homogeneous, white, hard cementitious material.	None Detected	Non-fibrous Material >75%	
016 Plaster on Wall, Second Floor, Room S211A	2 Phases: a) Homogeneous, grey, hard cementitious material.	None Detected	Hair Trace Non-fibrous Material >75%	
	b) Homogeneous, white, hard cementitious material.	None Detected	Non-fibrous Material >75%	

ANALYST: Douglas Thom

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5749 COOPERS AVENUE
MISSISSAUGA, ONTARIO
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital
K6780
PREPARED FOR: Kyle Prosser
Pinchin Environmental Consultants Ltd.

LAB REFERENCE NO: b9328 - 1995
DATE: September 27, 1995

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)		COMMENTS
		ASBESTOS	OTHER	
019 Plaster on Wall, Third Floor, Room S301B	2 Phases: a) Homogeneous, grey, hard cementitious material.	None Detected	Perlite 5-10% Other Non-fibrous Material >75%	
	b) Homogeneous, white, hard cementitious material.	None Detected	Non-fibrous Material >75%	
020 Plaster on Wall, Third Floor, Room S302D	2 Phases: a) Homogeneous, grey, hard cementitious material.	None Detected	Perlite 5-10% Other Non-fibrous Material >75%	
	b) Homogeneous, white, hard cementitious material.	None Detected	Non-fibrous Material >75%	
021 Plaster on Wall, Third Floor, Room 305C	2 Phases: a) Homogeneous, grey, hard cementitious material.	None Detected	Hair Trace Non-fibrous Material >75%	
	b) Homogeneous, white, hard cementitious material.	None Detected	Non-fibrous Material >75%	

ANALYST: Douglas Thom

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COOPERS BUSINESS CENTRE
5749 COOPERS AVENUE
MISSISSAUGA, ONTARIO
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital
South Wing - K6780
PREPARED FOR: K. Prosser
Pinchin Environmental Consultants Ltd.

LAB REFERENCE NO: b9336 - 1995

DATE: September 27, 1995

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)		COMMENTS
		ASBESTOS	OTHER	
K6780-022. Wall Plaster, South Wing, Room S108	Two Phases: a) Homogeneous, grey, hard, cementitious material.	None Detected	Hair 0.5-5% Non-fibrous Material >75%	
	b) Homogeneous, white, hard, cementitious material.	Chrysotile Trace	Non-fibrous Material >75%	

ANALYST: James Anderson

PINCHIN
ENVIRONMENTAL
CONSULTANTS LTD.
5749 Coopers Avenue
Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peters Hospital
K6780
PREPARED FOR: D. Foley
Pinchin Environmental Consultants Ltd.

LAB REFERENCE NO: b10503 - 1996
DATE: March 12, 1996

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS	% COMPOSITION (VISUAL ESTIMATE) OTHER		COMMENTS
001 Roofing, Steam Plant, South End, Lower Roof	Homogeneous, black, tar impregnated fibrous material.	None detected	Glass Fibres Cellulose Tar and Other non-fibrous material	0.5-5% 25-50% 50-75%	A layer of mineral wool is present with this sample.
002 Roofing, Steam Plant, North End, Second Tier Roof	Homogeneous, black, tar impregnated fibrous material.	None detected	Mineral Wool Cellulose Tar and Other non-fibrous material	0.5-5% 25-50% 50-75%	
003 Roofing, South Wing, South End	Homogeneous, black, tar impregnated fibrous material.	None detected	Cellulose Tar and Other non-fibrous material	10-25% >75%	
004 Roofing, South Wing, West Side, Half Way from South	Homogeneous, black, tar impregnated fibrous material.	None detected	Cellulose Tar and Other non-fibrous material	25-50% 50-75%	A layer of brown cellulose paper is present with this sample.
005 Roofing, South Wing, East Side, 2/3 Way from South	Homogeneous, black, tar impregnated fibrous material.	None detected	Cellulose Tar and Other non-fibrous material	25-50% 50-75%	A layer of brown cellulose paper is present with this sample.

ANALYST: _____

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Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peters Hospital
K6780
PREPARED FOR: D. Foley
Pinchin Environmental Consultants Ltd.

LAB REFERENCE NO: b10503 - 1996
DATE: March 12, 1996

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)			COMMENTS
		ASBESTOS	OTHER		
006 Roofing, South Wing, North End	Homogeneous, black, tar impregnated fibrous material.	None detected	Cellulose Tar and Other non-fibrous material	25-50% 50-75%	A layer of brown cellulose paper is present with this sample.
008 Core Sample, Stack 2' Above Breeching, North Side, Steam Plant	Homogeneous, beige, hard, cementitious material.	None detected	Non-fibrous material	>75%	

ANALYST: _____

PINCHIN
ENVIRONMENTAL
5749 Coopers Avenue
Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17345 - 2000

DATE: April 11, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS	% COMPOSITION (VISUAL ESTIMATE) OTHER	COMMENTS
041 Plaster, Corridor Wall, Room 304H	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Cellulose 0.5-5% Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	
044 Plaster, Wall, Room 312B	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Cellulose <0.5% Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	
046 Plaster, Corridor Wall, Outside Room 307	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	

ANALYST: N. Wong

PINCHIN
ENVIRONMENTAL
5749 Coopers Avenue
Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17345 - 2000

DATE: April 11, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS		% COMPOSITION (VISUAL ESTIMATE) OTHER		COMMENTS
001 Plaster, Wall, Room S015	2 Phases: a) Homogeneous, grey, hard, cementitious material.	Chrysotile	0.5-5%	Cellulose Hair Non-fibrous material	0.5-5% 0.5-5% >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected		Non-fibrous material	>75%	
004 Plaster, Wall, Room S008	3 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected		Non-fibrous material	>75%	
	b) Homogeneous, white, hard, cementitious material.	Chrysotile	0.5-5%	Non-fibrous material	>75%	
	c) Homogeneous, off-white, soft, cementitious material.	None detected		Non-fibrous material	>75%	

ANALYST: N. Wong.

PINCHIN
ENVIRONMENTAL
5749 Coopers Avenue
Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17345 - 2000

DATE: April 11, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS		% COMPOSITION (VISUAL ESTIMATE) OTHER		COMMENTS
007 Plaster, Wall, Room S001	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected		Hair Non-fibrous material	0.5-5% >75%	
	b) Homogeneous, white, hard, cementitious material.	Chrysotile	<0.5%	Non-fibrous material	>75%	
008 Plaster, Ceiling, Room S005	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected		Hair Non-fibrous material	0.5-5% >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected		Non-fibrous material	>75%	
010 Plaster, Wall, Room S009	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected		Hair Non-fibrous material	0.5-5% >75%	
	b) Homogeneous, white, hard, cementitious material.	Chrysotile	0.5-5%	Non-fibrous material	>75%	

ANALYST: N. Wong

PINCHIN
ENVIRONMENTAL
5749 Coopers Avenue
Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17345 - 2000

DATE: April 11, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS	% COMPOSITION (VISUAL ESTIMATE) OTHER	COMMENTS
012 Plaster, Wall, Room S017	3 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Perlite 10-25% Other non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	
	c) Homogeneous, white, soft, cementitious material.	None detected	Non-fibrous material >75%	
014 Plaster, Corridor Wall, Outside Room 104B	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	Chrysotile 0.5-5%	Non-fibrous material >75%	

ANALYST: N. Wong

PINCHIN
ENVIRONMENTAL
5749 Coopers Avenue
Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17345 - 2000

DATE: April 11, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS		OTHER		COMMENTS
016 Plaster, Wall, Room 104H	2 Phases: a) Homogeneous, off-white, hard, cementitious material.	None detected		Non-fibrous material	>75%	Drywall is present on the surface of this sample.
	b) Homogeneous, white, soft, cementitious material.	None detected		Non-fibrous material	>75%	
018 Plaster, Corridor Wall, Outside Room 106	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected		Hair Non-fibrous material	0.5-5% >75%	
	b) Homogeneous, white, hard, cementitious material.	Chrysotile	0.5-5%	Non-fibrous material	>75%	
020 Plaster, Wall, South Stairwell, 1st Floor	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected		Hair Non-fibrous material	0.5-5% >75%	
	b) Homogeneous, white, hard, cementitious material.	Chrysotile	0.5-5%	Non-fibrous material	>75%	

ANALYST: N. Wong

PINCHIN
ENVIRONMENTAL
5749 Coopers Avenue
Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17345 - 2000

DATE: April 11, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS		OTHER		COMMENTS
021 Plaster, Corridor Wall, Outside Room 111	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected		Hair Non-fibrous material	<0.5% >75%	
	b) Homogeneous, white, hard, cementitious material.	Chrysotile	0.5-5%	Non-fibrous material	>75%	
024 Plaster, Ceiling, Room 101	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected		Non-fibrous material	>75%	
	b) Homogeneous, white, hard, cementitious material.	Chrysotile	0.5-5%	Non-fibrous material	>75%	
026 Plaster, Wall, Room 202	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected		Non-fibrous material	>75%	
	b) Homogeneous, white, hard, cementitious material.	None detected		Non-fibrous material	>75%	

ANALYST: N. Wong.

PINCHIN
ENVIRONMENTAL
5749 Coopers Avenue
Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17345 - 2000

DATE: April 11, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS	% COMPOSITION (VISUAL ESTIMATE) OTHER	COMMENTS
028 Plaster, Ceiling, Room 204C	2 Phases: a) Homogeneous, grey, hard, cementitious material. b) Homogeneous, white, hard, cementitious material.	None detected None detected	Cellulose 0.5-5% Non-fibrous material >75% Non-fibrous material >75%	
030 Plaster, Ceiling, Room 204H	2 Phases: a) Homogeneous, grey, hard, cementitious material. b) Homogeneous, white, hard, cementitious material.	None detected None detected	Hair <0.5% Non-fibrous material >75% Non-fibrous material >75%	
034 Plaster, Ceiling, Room 211A	2 Phases: a) Homogeneous, grey, hard, cementitious material. b) Homogeneous, white, hard, cementitious material.	None detected None detected	Cellulose 0.5-5% Non-fibrous material >75% Non-fibrous material >75%	

ANALYST: N. Wong.

PINCHIN
ENVIRONMENTAL
5749 Coopers Avenue
Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17345 - 2000

DATE: April 11, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS	% COMPOSITION (VISUAL ESTIMATE) OTHER	COMMENTS
037 Plaster, Wall, Room 205B	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Hair 0.5-5% Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	
038 Plaster, Wall, Room 203	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	
040 Plaster, Corridor Wall, Outside Room 304	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	

ANALYST: N. Wong.

PINCHIN
ENVIRONMENTAL
5749 Coopers Avenue
Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17345 - 2000

DATE: April 11, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)			COMMENTS
		ASBESTOS	OTHER		
041 Plaster, Corridor Wall, Room 304H	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Cellulose Non-fibrous material	0.5-5% >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material	>75%	
044 Plaster, Wall, Room 312B	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Cellulose Non-fibrous material	<0.5% >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material	>75%	
046 Plaster, Corridor Wall, Outside Room 307	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Non-fibrous material	>75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material	>75%	

ANALYST: N. Wang

PINCHIN
ENVIRONMENTAL
5749 Coopers Avenue
Mississauga, Ontario
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BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17345 - 2000

DATE: April 11, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS	% COMPOSITION (VISUAL ESTIMATE) OTHER	COMMENTS
048 Plaster, Wall, Room 307F	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	
050 Plaster, Corridor Wall, Outside Room 301	Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	

ANALYST: N. Wong

PINCHIN
ENVIRONMENTAL
5749 Coopers Avenue
Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17390 - 2000

DATE: April 18, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS		OTHER		COMMENTS
002 Plaster, Ceiling, Room S012	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected		Hair Non-fibrous material	0.5-5% >75%	
	b) Homogeneous, white, hard, cementitious material.	Chrysotile	0.5-5%	Non-fibrous material	>75%	
003 Plaster, Corridor Ceiling, Outside Room S010	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected		Non-fibrous material	>75%	
	b) Homogeneous, white, hard, cementitious material.	Chrysotile	0.5-5%	Non-fibrous material	>75%	
005 Plaster, Corridor Wall, Outside Room S006	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected		Non-fibrous material	>75%	
	b) Homogeneous, white, hard, cementitious material.	Chrysotile	0.5-5%	Non-fibrous material	>75%	

ANALYST: M. Wong

PINCHIN
ENVIRONMENTAL
5749 Coopers Avenue
Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17390 - 2000

DATE: April 18, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS		OTHER		COMMENTS
006 Plaster, Wall, Room S004	Homogeneous, white, hard, cementitious material.	Chrysotile	0.5-5%	Hair Non-fibrous material	<0.5% >75%	
009 Plaster, Wall, Room S007	2 Phases: a) Homogeneous, grey, hard, cementitious material. b) Homogeneous, white, hard, cementitious material.	None detected Chrysotile	 0.5-5%	Hair Non-fibrous material Non-fibrous material	<0.5% >75% >75%	
011 Plaster, Ceiling, Room S009	2 Phases: a) Homogeneous, grey, hard, cementitious material. b) Homogeneous, white, hard, cementitious material.	None detected Chrysotile	 0.5-5%	Hair Non-fibrous material Non-fibrous material	0.5-5% >75% >75%	

ANALYST: N. Wong

PINCHIN
ENVIRONMENTAL
5749 Coopers Avenue
Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17390 - 2000

DATE: April 18, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS		OTHER		COMMENTS
013 Plaster, Wall, Room 100	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected		Non-fibrous material	>75%	
	b) Homogeneous, white, hard, cementitious material.	Chrysotile	0.5-5%	Non-fibrous material	>75%	
015 Plaster, Ceiling, Room 104C	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected		Hair Non-fibrous material	0.5-5% >75%	
	b) Homogeneous, white, hard, cementitious material.	Chrysotile	0.5-5%	Non-fibrous material	>75%	
017 Plaster, Wall, Room 104I	Homogeneous, white, hard, cementitious material.	None detected		Non-fibrous material	>75%	

ANALYST: N. Wong

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Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17390 - 2000

DATE: April 18, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS		OTHER		COMMENTS
019 Plaster, Wall, Room 112	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected		Hair Non-fibrous material	<0.5% >75%	
	b) Homogeneous, white, hard, cementitious material.	Chrysotile	0.5-5%	Non-fibrous material	>75%	
022 Plaster, Wall, Room 109C	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected		Non-fibrous material	>75%	
	b) Homogeneous, white, hard, cementitious material.	None detected		Non-fibrous material	>75%	
023 Plaster, Wall, Room 107B	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected		Non-fibrous material	>75%	
	b) Homogeneous, white, hard, cementitious material.	Chrysotile	0.5-5%	Non-fibrous material	>75%	

ANALYST: N. Wong

PINCHIN
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5749 Coopers Avenue
Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17390 - 2000

DATE: April 18, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS	% COMPOSITION (VISUAL ESTIMATE) OTHER	COMMENTS
025 Plaster, Wall, Room 101	3 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Perlite 10-25% Other non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	
	c) Homogeneous, white, soft, cementitious material.	None detected	Non-fibrous material >75%	
027 Plaster, Corridor Wall, Outside Room 202	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	

ANALYST: N. Wong

PINCHIN
ENVIRONMENTAL
5749 Coopers Avenue
Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17390 - 2000

DATE: April 18, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS	% COMPOSITION (VISUAL ESTIMATE) OTHER	COMMENTS
029 Plaster, Wall, Room 204G	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	
031 Plaster, Corridor Wall, Outside Room 206	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	
032 Plaster, Wall, Room 212B	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	

ANALYST: N. Wong

PINCHIN
ENVIRONMENTAL
5749 Coopers Avenue
Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17390 - 2000

DATE: April 18, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS	% COMPOSITION (VISUAL ESTIMATE) OTHER	COMMENTS
033 Plaster, Corridor Wall, Outside Room 211	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Hair 0.5-5% Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	
035 Plaster, Wall, Room 207	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	
036 Plaster, Wall, Room 207C	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	

ANALYST: M. Wang

PINCHIN
ENVIRONMENTAL
5749 Coopers Avenue
Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17390 - 2000

DATE: April 18, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS	% COMPOSITION (VISUAL ESTIMATE) OTHER	COMMENTS
039 Plaster, Corridor Wall, Room 302	Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	
042 Plaster, Ceiling, Room 304G	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	
043 Plaster, Corridor Wall, Outside Room 306	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	

ANALYST: N. Wang

PINCHIN
ENVIRONMENTAL
5749 Coopers Avenue
Mississauga, Ontario
L4Z 1R9

BULK SAMPLE ANALYSIS

PROJECT NAME: St. Peter's Hospital - South Wing
PROJECT NO.: K13105
PREPARED FOR: R. Wagner
Pinchin Environmental Ltd.

LAB REFERENCE No: b17390 - 2000

DATE: April 18, 2000

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE) ASBESTOS	OTHER	COMMENTS
045 Plaster, Wall, South Stairwell, 3rd Floor	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	
047 Plaster, Ceiling, Room 307C	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	
049 Plaster, Wall, Room 305B	2 Phases: a) Homogeneous, grey, hard, cementitious material.	None detected	Non-fibrous material >75%	
	b) Homogeneous, white, hard, cementitious material.	None detected	Non-fibrous material >75%	

ANALYST: N. Wong

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Environmental Ltd
11-875 Main St West
Hamilton, Ontario L8S 4R9

Attn: Denis Chennery

Lab Order ID: 1207419
Analysis ID: 1207419PLM
Date Received: 5/3/2012
Date Reported: 5/4/2012

Project: HHS Reassessments

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
S001a	parged firestopping at tunnel entrance, bsmt	**None Detected**		**90% Other** **10% Perlite**	Gray Non Fibrous Heterogeneous
1207419PLM_1					Crushed
S001b	parged firestopping at tunnel entrance, bsmt	**None Detected**		**90% Other** **10% Perlite**	Gray Non Fibrous Heterogeneous
1207419PLM_2					Crushed
S001c	parged firestopping at tunnel entrance, bsmt	**None Detected**		**90% Other** **10% Perlite**	Gray Non Fibrous Heterogeneous
1207419PLM_3					Crushed
S002a - A	12x12 VFT white w/ grey specks, west wing corridor, bsmt *tile*	**3% Chrysotile**		**97% Other**	White Non Fibrous Heterogeneous
1207419PLM_4					Dissolved
S002a - B	12x12 VFT white w/ grey specks, west wing corridor, bsmt *mastic*	**None Detected**	**3% Cellulose**	**97% Other**	Yellow, Black Non Fibrous Heterogeneous
1207419PLM_10					Dissolved
S002b - A	12x12 VFT white w/ grey specks, west wing corridor, bsmt *tile*	**Not Analyzed**			
1207419PLM_5					
S002b - B	12x12 VFT white w/ grey specks, west wing corridor, bsmt *mastic*	**None Detected**	**3% Cellulose**	**97% Other**	Yellow, Black Non Fibrous Heterogeneous
1207419PLM_11					Dissolved
S002c - A	12x12 VFT white w/ grey specks, west wing corridor, bsmt *tile*	**Not Analyzed**			
1207419PLM_6					

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommended that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Estimated MDL is 0.1%.

Ired Gulley (14)

Analyst

Nathaniel Durham, MS or Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Environmental Ltd
11-875 Main St West
Hamilton, Ontario L8S 4R9

Attn: Denis Chennery

Lab Order ID: 1207419
Analysis ID: 1207419PLM
Date Received: 5/3/2012
Date Reported: 5/4/2012

Project: HHS Reassessments

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
S002c - B	12x12 VFT white w/ grey specks, west wing corridor, bsmt *mastic*	**None Detected**	**3%** **Cellulose**	**97%** **Other**	Yellow, Black Non Fibrous Heterogeneous
1207419PLM_12					Dissolved
S003a - A	12x12 brown/red VFT w/ white streaks, info desk, 1st floor *tile*	**None Detected**		**100%** **Other**	Brown Non Fibrous Heterogeneous
1207419PLM_7					Dissolved
S003a - B	12x12 brown/red VFT w/ white streaks, info desk, 1st floor *mastic*	**None Detected**	**5%** **Cellulose**	**95%** **Other**	Yellow Non Fibrous Heterogeneous
1207419PLM_13					Dissolved
S003b - A	12x12 brown/red VFT w/ white streaks, info desk, 1st floor *tile*	**None Detected**		**100%** **Other**	Brown Non Fibrous Heterogeneous
1207419PLM_8					Dissolved
S003b - B	12x12 brown/red VFT w/ white streaks, info desk, 1st floor *mastic*	**None Detected**	**5%** **Cellulose**	**95%** **Other**	Green Non Fibrous Heterogeneous
1207419PLM_14					Dissolved
S003c	12x12 brown/red VFT w/ white streaks, info desk, 1st floor *tile only*	**None Detected**		**100%** **Other**	Brown Non Fibrous Heterogeneous
1207419PLM_9					Dissolved

Ired Gulley (14)

Analyst

Nathaniel Durham, MS or Approved Signatory

1207419

Version 1-15-2012

Client:	Pinchin Environmental Ltd.
Contact:	Denis Chennery
Address:	11-875 Main St W, Hamilton, ON
Phone:	905-577-6206
Fax:	905-577-6207
Email:	dchennery@pinchin.com
Project:	HHS Reassessments
Client Notes:	PLM EPA 600/R-93/116, Stop Positi Analyze Asbestos Samples to 0.5% as per the Ontario Regulation 278/05.
P.O. #.	71748.004
Date Submitted:	May 2 2012
Analysis:	PLM EPA 600/R-93/116
TurnAroundTime:	24 hour / 5 day

Instructions:

Use Column "B" for your contact info

To See an Example Click the bottom Example Tab.

Enter samples between "<<" and ">>"
Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.
Only Enter your data on the first sheet "Sheet1"
Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.

Scientific Analytical Institute

4604 Dundas Drive
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Data 1 (Lab use only)	Sample Description	Data 2 (Lab use only\)
<<			
S001a		parged firestopping at tunnel entrance, bsmt	
S001b		parged firestopping at tunnel entrance, bsmt	
S001c		parged firestopping at tunnel entrance, bsmt	
S002a		12x12 VFT white w/ grey specks, west wing corridor, bsmt	
S002b		12x12 VFT white w/ grey specks, west wing corridor, bsmt	
S002c		12x12 VFT white w/ grey specks, west wing corridor, bsmt	
S003a		12x12 brown/red VFT w/ white streaks, info desk, 1st floor	
S003b		12x12 brown/red VFT w/ white streaks, info desk, 1st floor	
S003c		12x12 brown/red VFT w/ white streaks, info desk, 1st floor	
>>			

Accepted ☒

Rejected ☐

5-3@1030

S10 is same as basement vinyl tiles. It is only found in the Therapeutic Recreation Room on the Second level.

emcscientific INCORPORATED

Remove. DWJC from 1st + 2nd. Floor Alexander Pavillion. (1st. Floor Renovated; 2nd Floor built in 2008)

Laboratory Analysis Report

To:

Geoff Schwarz
Hamilton Health Sciences
120 Main Street West
Hamilton, Ontario
L8N 3Z5

EMC LAB REPORT NUMBER: A10082
Job/Project Name: St. Peters
Analysis Method: Polarized Light Microscopy – EPA 600
Date Received: Mar 18/13 **Date Analyzed:** Mar 20-21/13
Analyst: Bethany Schofield, *Analyst*
Reviewed By: Banu Gurgen-Keough, *Laboratory Manager*

Job No:
Number of Samples: 69
Date Reported: Mar 22/13

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
S01 a	A10082-1	12x12 VFT – red with white streaks 4th level	Red, vinyl floor tile	ND			100
S01 b	A10082-2	12x12 VFT – red with white streaks 4th level	Red, vinyl floor tile	ND			100
S01 c	A10082-3	12x12 VFT – red with white streaks 4th level	Red, vinyl floor tile	ND			100
S02 a	A10082-4	12x12 VFT – white with green and red 4th level	2 Phases: a) White, vinyl floor tile b) Black, mastic	 ND ND			 100 100
S02 b	A10082-5	12x12 VFT – white with green and red 4th level	2 Phases: a) White, vinyl floor tile b) Black, mastic	 ND ND			 100 100
S02 c	A10082-6	12x12 VFT – white with green and red 4th level	White, vinyl floor tile	ND			100
S03 a	A10082-7[4]	DWJC 4th level	Off-white, drywall compound	**Chrysotile**	1		99
S03 b	A10082-8	DWJC 4th level	White, drywall compound	ND			100
S03 c	A10082-9	DWJC 4th level	Off-white, drywall compound	**Chrysotile**	1		99
S03 d	A10082-10	DWJC 4th level	White, drywall compound	ND			100
S03 e	A10082-11	DWJC 4th level	White, drywall compound	ND			100

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Laboratory Analysis Report

EMC LAB REPORT NUMBER: A10082
Client's Job/Project Name/No.: St. Peters
Analyst: Bethany Schofield, *Analyst*

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
S03 f	A10082-12	DWJC 4th level	White, drywall compound	ND			100
S03 g	A10082-13	DWJC 4th level	White, drywall compound	ND			100
S04 a	A10082-14	1x2 ceiling tile 1st level (easy street)	Beige, ceiling tile	ND		80	20
S04 b	A10082-15	1x2 ceiling tile 1st level (easy street)	Beige, ceiling tile	ND		80	20
S04 c	A10082-16	1x2 ceiling tile 1st level (easy street)	Beige, ceiling tile	ND		80	20
S05 a	A10082-17	DWJC 1st level	Off-white, drywall compound	**Chrysotile**	**0.5**		99.5
S05 b	A10082-18	DWJC 1st level	White, drywall compound	ND			100
S05 c	A10082-19	DWJC 1st level	Off-white, drywall compound	**Chrysotile**	**1**		99
S05 d	A10082-20	DWJC 1st level	Non-homogeneous, off-white and white, drywall compound	**Chrysotile**	**0.5**		99.5
S05 e	A10082-21	DWJC 1st level	White, drywall compound	ND			100
S05 f	A10082-22	DWJC 1st level	White, drywall compound	ND			100
S05 g	A10082-23	DWJC 1st level	Off-white, drywall compound	**Chrysotile**	**1**		99

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Laboratory Analysis Report

EMC LAB REPORT NUMBER: A10082
Client's Job/Project Name/No.: St. Peters
Analyst: Bethany Schofield, *Analyst*

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
S06 a	A10082-24	White cobblestone VSF (multi-colour) easy street	2 Phases: a) White, vinyl sheet flooring b) Off-white, vinyl sheet backing	 ND ND		 60	 100 40
S06 b	A10082-25	White cobblestone VSF (multi-colour) easy street	3 Phases: a) White, vinyl sheet flooring b) Off-white, vinyl sheet backing c) Black, mastic	 ND ND ND		 60	 100 40 100
S06 c	A10082-26	White cobblestone VSF (multi-colour) easy street	3 Phases: a) White, vinyl sheet flooring b) Off-white, vinyl sheet backing c) Black, mastic	 ND ND ND		 60	 100 40 100
S07 a	A10082-27	DWJC 2nd level	White, drywall compound	ND			100
S07 b	A10082-28	DWJC 2nd level	White, drywall compound	ND			100
S07 c	A10082-29	DWJC 2nd level	2 Phases: a) White, drywall compound b) Beige, drywall compound	 ND **Chrysotile**	 **1**		 100 99
S07 d	A10082-30	DWJC 2nd level	White, drywall compound	ND			100
S07 e	A10082-31	DWJC 2nd level	White, drywall compound	ND			100
S07 f	A10082-32	DWJC 2nd level	White, drywall compound	ND			100

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Laboratory Analysis Report

EMC LAB REPORT NUMBER: A10082
Client's Job/Project Name/No.: St. Peters
Analyst: Bethany Schofield, *Analyst*

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
S07 g	A10082-33	DWJC 2nd level	2 Phases: a) Light grey, plaster b) White, plaster	 ND ND			 100 100
S08 a	A10082-34	12x12 VFT green 2nd level	3 Phases: a) Green, vinyl floor tile b) Yellow, mastic c) Off-white, leveling compound	 ND ND **Chrysotile**	 **0.5**		 100 100 99.5
S08 b	A10082-35	12x12 VFT green 2nd level	Green, vinyl floor tile	ND			100
S08 c	A10082-36	12x12 VFT green 2nd level	2 Phases: a) Green, vinyl floor tile b) Yellow, mastic	 ND ND			 100 100
S09 a	A10082-37	12x12 VFT yellow 2nd level	Yellow, vinyl floor tile	ND			100
S09 b	A10082-38	12x12 VFT yellow 2nd level	Yellow, vinyl floor tile	ND			100
S09 c	A10082-39	12x12 VFT yellow 2nd level	Yellow, vinyl floor tile	ND			100
S10 a	A10082-40	12x12 VFT white with grey streaks 2nd level	Beige, vinyl floor tile	**Chrysotile**	**1**		99
S10 b	A10082-41	12x12 VFT white with grey streaks 2nd level	NA				
S10 c	A10082-42	12x12 VFT white with grey streaks 2nd level	NA				
S11 a	A10082-43	DWJC – 1st floor Alexander pavilion	White, drywall compound	ND			100

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Laboratory Analysis Report

EMC LAB REPORT NUMBER: A10082
Client's Job/Project Name/No.: St. Peters
Analyst: Bethany Schofield, *Analyst*

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
S11 b	A10082-44	DWJC – 1st floor Alexander pavilion	White, drywall compound	ND			100
S11 c	A10082-45	DWJC – 1st floor Alexander pavilion	White, drywall compound	ND			100
S11 d	A10082-46	DWJC – 1st floor Alexander pavilion	White, drywall compound	ND			100
S11 e	A10082-47	DWJC – 1st floor Alexander pavilion	White, drywall compound	ND			100
S11 f	A10082-48	DWJC – 1st floor Alexander pavilion	White, drywall compound	ND			100
S11 g	A10082-49	DWJC – 1st floor Alexander pavilion	White, drywall compound	ND			100
S12 a	A10082-50	12x12 VFT – grey with black and brown 1st floor	Beige, vinyl floor tile	ND			100
S12 b	A10082-51	12x12 VFT – grey with black and brown 1st floor	Beige, vinyl floor tile	ND			100
S12 c	A10082-52	12x12 VFT – grey with black and brown 1st floor	2 Phases: a) Beige, vinyl floor tile b) Yellow, mastic	 ND ND			 100 100
S13 a	A10082-53	VSF – blue multi-colour 1st floor café	2 Phases: a) Blue, vinyl sheet flooring b) Grey, vinyl sheet backing	 ND ND		 50	 100 50
S13 b	A10082-54	VSF – blue multi-colour 1st floor café	2 Phases: a) Blue, vinyl sheet flooring b) Grey, vinyl sheet backing	 ND ND		 50	 100 50

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Laboratory Analysis Report

EMC LAB REPORT NUMBER: A10082
Client's Job/Project Name/No.: St. Peters
Analyst: Bethany Schofield, *Analyst*

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
S13 c	A10082-55	VSF – blue multi-colour 1st floor café	2 Phases: a) Blue, vinyl sheet flooring b) Grey, vinyl sheet backing	 ND ND		 50	 100 50
S14 a	A10082-56	DWJC 3rd floor	White, drywall compound	ND			100
S14 b	A10082-57	DWJC 3rd floor	White, drywall compound	ND			100
S14 c	A10082-58	DWJC 3rd floor	Off-white, drywall compound	**Chrysotile**	**1**		99
S14 d	A10082-59	DWJC 3rd floor	Off-white, drywall compound	**Chrysotile**	**1**		99
S14 e	A10082-60	DWJC 3rd floor	White, drywall compound	ND			100
S14 f	A10082-61	DWJC 3rd floor	2 Phases: a) Beige, drywall compound b) White, drywall compound	 **Chrysotile** ND	 **1**		 99 100
S14 g	A10082-62	DWJC 3rd floor	Non-homogeneous, white and beige, drywall compound	**Chrysotile**	**0.5**		99.5
S15 a	A10082-63	DWJC basement	Beige, drywall compound	**Chrysotile**	**1**		99
S15 b	A10082-64	DWJC basement	Off-white, drywall compound	**Chrysotile**	**1**		99
S15 c	A10082-65	DWJC basement	White, drywall compound	ND			100
S15 d	A10082-66	DWJC basement	Off-white, drywall compound	**Chrysotile**	**1**		99
S15 e	A10082-67	DWJC basement	White, drywall compound	ND			100

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Laboratory Analysis Report

EMC LAB REPORT NUMBER: A10082
Client's Job/Project Name/No.: St. Peters
Analyst: Bethany Schofield, *Analyst*

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
S15 f	A10082-68	DWJC basement	White, drywall compound	ND			100
S15 g	A10082-69	DWJC basement	White, drywall compound	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, NA = Not Analyzed (analysis stopped due to a previous positive result).
3. The Ontario Regulatory Threshold for asbestos is 0.5%.
4. Drywall is present on the surface of the sample.

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name:	**Hamilton Heath Sciences , 88 Maplewood Avenue, Hamilton, ON**		
Project No.:	**0217420.002**		
Prepared For:	**R. Bertin-Fenney / M. Maiorana**		
		Date Received:	**January 17, 2018**
Lab Reference No.:	**b183013**	**Date Analyzed:**	**January 17, 2018**
Analyst(s):	**W. Mirza / K. Cockburn**	**# Samples submitted:**	**9**
		# Phases analyzed:	**10**

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario, British Columbia, Nova Scotia	0.5%	Manitoba	0.1% friable 1% non-friable
Quebec	0.1%	Saskatchewan	0.5% friable 1% non-friable
Alberta, NWT, Yukon, Nunavut	1%	Newfoundland and Labrador, PEI and New Brunswick	1%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

Pinchin Ltd. is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0) for the 'EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2005.

This report relates only to the items tested.

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: Hamilton Heath Sciences , 88 Maplewood Avenue, Hamilton, ON
Project No.: 0217420.002
Prepared For: R. Bertin-Fenney / M. Maiorana

Lab Reference No.: b183013
Date Analyzed: January 17, 2018

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
0001A Parging cement, West Mechanical Penthouse	Homogeneous, off-white, soft, parging cement.	Chrysotile 50-75%	Non-Fibrous Material 25-50%
0001B Parging cement, East Mechanical Penthouse			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
0001C Parging cement, West Mechanical Penthouse			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
0002A Sweatwrap and tar paper insulationon rain water leader, West Mechanical Penthouse	2 Phases: a) Homogeneous, beige, sweatwrap insulation. b) Homogeneous, black, tar paper.	None Detected None Detected	Cellulose > 75% Non-Fibrous Material 0.5-5% Cellulose > 75% Synthetic Fibres 0.5-5% Hair < 0.5% Tar and other non-fibrous 10-25%
0002B Sweatwrap and tar paper insulationon rain water leader, West Mechanical Penthouse	2 Phases: a) Homogeneous, beige, sweatwrap insulation. b) Homogeneous, black, tar paper.	None Detected None Detected	Cellulose > 75% Non-Fibrous Material 0.5-5% Cellulose > 75% Synthetic Fibres 0.5-5% Hair < 0.5% Tar and other non-fibrous 10-25%

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: Hamilton Heath Sciences , 88 Maplewood Avenue, Hamilton, ON
Project No.: 0217420.002
Prepared For: R. Bertin-Fenney / M. Maiorana

Lab Reference No.: b183013
Date Analyzed: January 17, 2018

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
0002C Sweatwrap and tar paper insulationon rain water leader, West Mechanical Penthouse	2 Phases: a) Homogeneous, beige, sweatwrap insulation. b) Homogeneous, black, tar paper.	None Detected None Detected	Cellulose > 75% Non-Fibrous Material 0.5-5% Cellulose > 75% Synthetic Fibres 0.5-5% Hair < 0.5% Tar and other non-fibrous 10-25%
0003A Gasket on Steam Humidifier, West Mechanical Penthouse	Homogeneous, light blue and green gasket material.	None Detected	Synthetic Fibres 25-50% Man-made Vitreous Fibres 5-10% Wollastonite 0.5-5% Non-Fibrous Material 50-75%
0003B Gasket on Steam Humidifier, West Mechanical Penthouse	Homogeneous, light blue and green gasket material.	None Detected	Synthetic Fibres 25-50% Man-made Vitreous Fibres 5-10% Wollastonite 0.5-5% Non-Fibrous Material 50-75%
0003C Gasket on Steam Humidifier, West Mechanical Penthouse	Homogeneous, light blue and green gasket material.	None Detected	Synthetic Fibres 25-50% Man-made Vitreous Fibres 5-10% Wollastonite 0.5-5% Non-Fibrous Material 50-75%

Reviewed by: **Reporting Analyst:**

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name:	**Hamilton Heath Sciences, 88 Maplewood Avenue, Hamilton, ON**		
Project No.:	**0217420.002**		
Prepared For:	**R. Bertin-Fenney / M. Maiorana**		
		Date Received:	**January 18, 2018**
Lab Reference No.:	**b183084**	**Date Analyzed:**	**January 18, 2018**
Analyst(s):	**A. Wells**	**# Samples submitted:**	**4**
		# Phases analyzed:	**4**

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario, British Columbia, Nova Scotia	0.5%	Manitoba	0.1% friable 1% non-friable
Quebec	0.1%	Saskatchewan	0.5% friable 1% non-friable
Alberta, NWT, Yukon, Nunavut	1%	Newfoundland and Labrador, PEI and New Brunswick	1%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

Pinchin Ltd. is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0) for the 'EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2005.

This report relates only to the items tested.

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: **Hamilton Heath Sciences, 88 Maplewood Avenue, Hamilton, ON**
Project No.: **0217420.002**
Prepared For: **R. Bertin-Fenney / M. Maiorana**

Lab Reference No.: **b183084**
Date Analyzed: **January 18, 2018**

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
0004A Gasket on Reheat Coil Exchanger, East Wing Mechanical Penthouse	Homogeneous, beige, compressed fibrous material.	None Detected	Cellulose 5-10% Synthetic Fibres 25-50% Man-made Vitreous Fibres 25-50% Non-Fibrous Material 10-25%
0004B Gasket on Reheat Coil Exchanger, East Wing Mechanical Penthouse	Homogeneous, beige, compressed fibrous material.	None Detected	Cellulose 5-10% Synthetic Fibres 25-50% Man-made Vitreous Fibres 25-50% Non-Fibrous Material 10-25%
0004C Gasket on Reheat Coil Exchanger, East Wing Mechanical Penthouse	Homogeneous, beige, compressed fibrous material.	None Detected	Cellulose 5-10% Synthetic Fibres 25-50% Man-made Vitreous Fibres 25-50% Non-Fibrous Material 10-25%
0005A Resisdual material on Reheat Coil Excanger Pipe, East Wing Mechanical Penthouse	Homogeneous, beige, compressed fibrous material.	None Detected	Man-made Vitreous Fibres 25-50% Non-Fibrous Material 50-75%

Reviewed by: **Reporting Analyst:**

PINCHIN

Analyzed: AW

Reviewed by: KB

Report Sent by: EL

MEMBER THE PINCHIN GROUP

Instructions:

Pinchin Ltd. - Asbestos Laboratory
Internal Asbestos Bulk Sample Chain of Custody

Client Name:	Hamilton Heath Sciences			**Project Address:**	88 Maplewood Avenue, Hamilton, ON		
Portfolio/Building No:				**Pinchin File:**	217420.002		
Submitted by:	Robert Bertin-Fenney			**Email:**	rbertin-fenney@pinchin.com		
CC Results to:	Michael Maiorana			**CC Email:**	mmaiorana@pinchin.com		
Invoice to:	Robert Bertin-Fenney			**Invoice Email:**	rbertin-fenney@pinchin.com		
Date Submitted:	January	17	2018	**Required by:**	January	19	2018
# of Samples:	4			**Priority:**	Rush Turnaround		
Year of Building Construction (*Mandatory Field*):							
Do NOT Stop on Positive (Sample Numbers):							
Pinchin Group Company (*Mandatory Field*):				Pinchin			

To be Completed by Lab Personnel Only:					
Lab Reference #:	b183084	**Time:**	24 hour clock		
Received by:	JAN 18 2018 EC	**Date:**	Month	Day	Year
Name(s) of Analyst(s):	AW 18-01-18				

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
AD	0004	A	Gasket on Reheat Coil Exchanger, East Wing Mechanical Penthouse
AD	0004	B	Gasket on Reheat Coil Exchanger, East Wing Mechanical Penthouse
AD	0004	C	Gasket on Reheat Coil Exchanger, East Wing Mechanical Penthouse
AD	0005	A	Resisdual material on Reheat Coil Excanger Pipe, East Wing Mechanical Penthouse

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Project: 217420.002

Attn: Robert Bertin-Fenney
Michael Maiorana

Lab Order ID: 11801002
Analysis ID: 11801002_PLM
Date Received: 1/19/2018
Date Reported: 1/19/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
0005A *11801002PLM_1*	Parging cement, basement boiler room ME13	**30% Chrysotile**		**70% Other**	Gray Fibrous Heterogeneous Teased
0005B *11801002PLM_2*	Parging cement, basement boiler room ME13	**30% Chrysotile**		**70% Other**	Gray Fibrous Heterogeneous Teased
0005C *11801002PLM_3*	Parging cement, basement boiler room ME13	**30% Chrysotile**		**70% Other**	Gray Fibrous Heterogeneous Teased
0006A *11801002PLM_4*	Firestopping, basement boiler room ME 13	**None Detected**		**70% Other** **30% Quartz**	Gray Non Fibrous Heterogeneous Crushed
0006B *11801002PLM_5*	Firestopping, basement boiler room ME 13	**None Detected**		**70% Other** **30% Quartz**	Gray Non Fibrous Heterogeneous Crushed
0006C *11801002PLM_6*	Firestopping, basement boiler room ME 13	**None Detected**		**70% Other** **30% Quartz**	Gray Non Fibrous Heterogeneous Crushed

Megan Javonovich (6)

Analyst

Approved Signatory

PINCHIN

MEMBER OF PG THE PINCHIN GROUP

1180102

Instructions:

Pinchin Ltd. - Asbestos Laboratory
Internal Asbestos Bulk Sample Chain of Custody

Client Name:	Hamilton Heath Sciences			**Project Address:**	88 Maplewood Avenue, Hamilton, ON		
Portfolio/Building No:				**Pinchin File:**	217420.002		
Submitted by:	Robert Bertin-Fenney			**Email:**	rbertin-fenney@pinchin.com		
CC Results to:	Michael Maiorana			**CC Email:**	mmaiorana@pinchin.com		
Invoice to:	Robert Bertin-Fenney			**Invoice Email:**	rbertin-fenney@pinchin.com		
Date Submitted:	January	16	2018	**Required by:**	January	18	2018
# of Samples:	6			**Priority:**	Rush Turnaround		
Year of Building Construction (*Mandatory Field*):							
Do NOT Stop on Positive (Sample Numbers):							
Pinchin Group Company (*Mandatory Field*):					Pinchin		

To be Completed by Lab Personnel Only:					
Lab Reference #:		**Time:**	24 hour clock		
Received by:		**Date:**	Month	Day	Year
Name(s) of Analyst(s):					

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
	0001	A	Parging cement, Basement Boiler Room ME13
	0001	B	Parging cement, Basement Boiler Room ME13
	0001	C	Parging cement, Basement Boiler Room ME13
	0002	A	Firestopping, Basement Boiler Room ME13
	0002	B	Firestopping, Basement Boiler Room ME13
	0002	C	Firestopping, Basement Boiler Room ME13

Accepted ☑

Rejected ☐

1-19 10A

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name:	**Hamilton Heath Sciences , 88 Maplewood Avenue, Hamilton, ON**		
Project No.:	**0200249.062**		
Prepared For:	**R. Bertin-Fenney / D. Palus**		
Lab Reference No.:	**b183065**		
Analyst(s):	**N. Barinque**		
Date Received:	**January 18, 2018**	**# Samples submitted:**	**17**
Date Analyzed:	**January 18, 2018**	**# Phases analyzed:**	**16**

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

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Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
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Quebec	0.1%	Saskatchewan	0.5% friable 1% non-friable
Alberta, NWT, Yukon, Nunavut	1%	Newfoundland and Labrador, PEI and New Brunswick	1%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

Pinchin Ltd. is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0) for the 'EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2005.

This report relates only to the items tested.

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: **Hamilton Heath Sciences , 88 Maplewood Avenue, Hamilton, ON**
Project No.: **0200249.062**
Prepared For: **R. Bertin-Fenney / D. Palus**

Lab Reference No.: **b183065**
Date Analyzed: **January 18, 2018**

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
0015A Floor mastic, Switch Board Room, Main Lobby, First Floor	Non-homogeneous, black and yellow, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Floor tile present but not analyzed, as requested.		
0015B Floor mastic, Switch Board Room, Main Lobby, First Floor			Not Analyzed
Comments:	There is an insufficient amount of mastic present to analyze.		
0015C Floor mastic, Switch Board Room, Main Lobby, First Floor	Non-homogeneous, black and yellow, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other non-fibrous > 75%
Comments:	Floor tile present but not analyzed, as requested.		
0016A Floor mastic, Room W302M, Third Floor	Non-homogeneous, black and yellow, soft, sticky material.	None Detected	Tar and other non-fibrous > 75%
0016B Floor mastic, Room W302M, Third Floor	Non-homogeneous, black and yellow, soft, sticky material.	None Detected	Tar and other non-fibrous > 75%
0016C Floor mastic, Room W302M, Third Floor	Non-homogeneous, black and yellow, soft, sticky material.	None Detected	Tar and other non-fibrous > 75%
0017A Drywall joint compound, Room W302M, Third Floor	Homogeneous, off-white, drywall joint compound.	Chrysotile 0.5-5%	Non-Fibrous Material > 75%

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: Hamilton Heath Sciences , 88 Maplewood Avenue, Hamilton, ON
Project No.: 0200249.062
Prepared For: R. Bertin-Fenney / D. Palus

Lab Reference No.: b183065
Date Analyzed: January 18, 2018

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
0017B Drywall joint compound, Room W302M, Third Floor			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
0017C Drywall joint compound, Room W302M, Third Floor			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
0018A Drywall joint compound, East Wing, Forth Floor	Homogeneous, off-white, drywall joint compound.	Chrysotile 0.5-5%	Non-Fibrous Material > 75%
0018B Drywall joint compound, East Wing, Third Floor	Homogeneous, off-white, drywall joint compound.	Chrysotile 0.5-5%	Non-Fibrous Material > 75%
0018C Drywall joint compound, East Wing, Second Floor	Homogeneous, off-white, drywall joint compound.	Chrysotile 0.5-5%	Non-Fibrous Material > 75%
0018D Drywall joint compound, East Wing, First Floor	Homogeneous, off-white, drywall joint compound.	Chrysotile 0.5-5%	Non-Fibrous Material > 75%
0018E Drywall joint compound, West Wing, Forth Floor	2 Phases: a) Homogeneous, off-white, drywall joint compound. b) Homogeneous, white, drywall joint compound.	Chrysotile 0.5-5% None Detected	Non-Fibrous Material > 75% Non-Fibrous Material > 75%

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: Hamilton Heath Sciences , 88 Maplewood Avenue, Hamilton, ON
Project No.: 0200249.062
Prepared For: R. Bertin-Fenney / D. Palus

Lab Reference No.: b183065
Date Analyzed: January 18, 2018

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
0018F Drywall joint compound, West Wing, Third Floor	Homogeneous, white, drywall joint compound.	None Detected	Non-Fibrous Material > 75%
0018G Drywall joint compound, West Wing, Second Floor	Homogeneous, off-white, drywall joint compound.	None Detected	Non-Fibrous Material > 75%
0018H Drywall joint compound, West Wing, First Floor	2 Phases: a) Homogeneous, off-white, drywall joint compound. b) Homogeneous, white, drywall joint compound.	None Detected None Detected	Non-Fibrous Material > 75% Non-Fibrous Material > 75%

Reviewed by: **Reporting Analyst:**

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Robert Bertin-Fenney
Damian Palus

Project: 200249.062,88 Maplewood Avenue, Hamilton, ON,Hamilton Heath Sciences

Lab Order ID: 11802246
Analysis ID: 11802246_PLM
Date Received: 1/26/2018
Date Reported: 1/30/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
0015A *11802246PLM_1*	Floor mastic, Switch Board Room, Main Lobby, First Floor MASTIC ONLY	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
0015B *11802246PLM_2*	Floor mastic, Switch Board Room, Main Lobby, First Floor MASTIC ONLY	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
0015C *11802246PLM_3*	Floor mastic, Switch Board Room, Main Lobby, First Floor MASTIC ONLY	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
0016A *11802246PLM_4*	Floor mastic, Room W302M, Third Floor	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
0016B *11802246PLM_5*	Floor mastic, Room W302M, Third Floor	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
0016C *11802246PLM_6*	Floor mastic, Room W302M, Third Floor	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
0017A *11802246PLM_7*	Drywall joint compound, Room W302M, Third Floor	**2% Chrysotile**		**98% Other**	White Non Fibrous Homogeneous Crushed
0017B *11802246PLM_8*	Drywall joint compound, Room W302M, Third Floor	**Not Analyzed**			

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Charmel Dozier (15)

Analyst

Approved Signatory

P-F-002 r15 1/16/2021

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Robert Bertin-Fenney
Damian Palus

Project: 200249.062,88 Maplewood Avenue, Hamilton, ON,Hamilton Heath Sciences

Lab Order ID: 11802246
Analysis ID: 11802246_PLM
Date Received: 1/26/2018
Date Reported: 1/30/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
0017C *11802246PLM_9*	Drywall joint compound, Room W302M, Third Floor	**Not Analyzed**			
0018A *11802246PLM_10*	Drywall joint compound, East Wing, First Floor	**2% Chrysotile**		**98% Other**	White Non Fibrous Homogeneous Crushed
0018B *11802246PLM_11*	Drywall joint compound, East Wing, Third Floor	**2% Chrysotile**		**98% Other**	White Non Fibrous Homogeneous Crushed
0018C *11802246PLM_12*	Drywall joint compound, West Wing, Forth Floor	**2% Chrysotile**		**98% Other**	White Non Fibrous Homogeneous Crushed
0018D *11802246PLM_13*	Drywall joint compound, West Wing, First Floor	**2% Chrysotile**		**98% Other**	White Non Fibrous Homogeneous Crushed
0018E *11802246PLM_14*	Drywall joint compound, West Wing, Second Floor	**2% Chrysotile**		**98% Other**	White Non Fibrous Homogeneous Crushed
0018F *11802246PLM_15*	Drywall joint compound, West Wing, Third Floor	**2% Chrysotile**		**98% Other**	White Non Fibrous Homogeneous Crushed

Charmel Dozier (15)

Analyst

Approved Signatory

11802246

Version 1-15-2012

Client:	Pinchin Ltd.	***Instructions:**
Contact:	Robert Bertin-Fenney	*Use Column "B" for your contact info*
	875 Main Street W., Unit 11	
Address:	Hamilton, ON L8S 4R9	
Phone:	905-577-6206	*To See an Example Click the*
Fax:	905-577-6207	*bottom Example Tab.*
Email:	'rbertin-fenney@pinchin.com	
	'dpalus@pinchin.com	***Enter samples between "<<" and ">>"***
	200249.062,88 Maplewood Avenue, Hamilton, ON,Hamilton Heath	
Project:	Sciences	***Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.***
Client Notes:	**Stop positive on Samples 0015 - 0017. NO Stop positive on Samples 0018A-F**	*Only Enter your data on the first sheet "Sheet1"*
P.O. #.	200249.062	*Note: Data 1 and Data 2 are optional*
Date Submitted:	January 25,2018	*fields that do not show up on the official report, however they will be included*
Analysis:	PLM - Stop Positive	*in the electronic data returned to you*
TurnAroundTime:	4days	*to facilitate your reintegration of the report data.*

Invoice to:

'rbertin-fenney@pinchin.com

Scientific Analytical Institute

4604 Dundas Dr.
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Data 1 (Lab use only)	Sample Description	Data 2 (Lab use only\)
<<			
0015A		Floor mastic, Switch Board Room, Main Lobby, First Floor **MASTIC ONLY**	
0015B		Floor mastic, Switch Board Room, Main Lobby, First Floor **MASTIC ONLY**	
0015C		Floor mastic, Switch Board Room, Main Lobby, First Floor **MASTIC ONLY**	
0016A		Floor mastic, Room W302M, Third Floor	
0016B		Floor mastic, Room W302M, Third Floor	
0016C		Floor mastic, Room W302M, Third Floor	
0017A		Drywall joint compound, Room W302M, Third Floor	
0017B		Drywall joint compound, Room W302M, Third Floor	
0017C		Drywall joint compound, Room W302M, Third Floor	
0018A		Drywall joint compound, East Wing, First Floor	
0018B		Drywall joint compound, East Wing, Third Floor	
0018C		Drywall joint compound, West Wing, Forth Floor	
0018D		Drywall joint compound, West Wing, First Floor	
0018E		Drywall joint compound, West Wing, Second Floor	

Accepted ☑

Rejected ☐

1/26 9am

0018F
>>

Drywall joint compound, West Wing, Third Floor

1802246

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Robert Bertin-Fenney
Michael Maiorana

Project: 88 Maplewood Avenue, Hamilton, ON,Hamilton Heath Sciences

Lab Order ID: 11802255
Analysis ID: 11802255_PLM
Date Received: 1/26/2018
Date Reported: 1/31/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
0004A *11802255PLM_1*	Gasket on Reheat Coil Exchanger, East Wing Mechanical Penthouse	None Detected	40% Cellulose 30% Fiber Glass	30% Other	Cream Fibrous Homogeneous Ashed
0004B *11802255PLM_2*	Gasket on Reheat Coil Exchanger, East Wing Mechanical Penthouse	None Detected	40% Cellulose 30% Fiber Glass	30% Other	Cream Fibrous Homogeneous Ashed
0004C *11802255PLM_3*	Gasket on Reheat Coil Exchanger, East Wing Mechanical Penthouse	None Detected	40% Cellulose 30% Fiber Glass	30% Other	Cream Fibrous Homogeneous Ashed
0005A *11802255PLM_4*	Resisdual material on Reheat Coil Excanger Pipe, East Wing Mechanical Penthouse	None Detected	40% Cellulose 10% Wollastonite	50% Other	Green Fibrous Homogeneous Ashed

Megan Javonovich (4)

Analyst

Approved Signatory

1180 2255

Client:	Pinchin Ltd.	***Instructions:**	*Version 1-15-2012*
Contact:	Robert Bertin-Fenney	*Use Column "B" for your contact info*	
	875 Main Street W., Unit 11		
Address:	Hamilton, ON L8S 4R9		
Phone:	905-577-6206	*To See an Example Click the*	**Invoice to:**
Fax:	905-577-6207	*bottom Example Tab.*	rbertin-fenney@pinchin.com
Email:	rbertin-fenney@pinchin.com		
	mmaiorana@pinchin.com	***Enter samples between "<<" and ">>"***	
	88 Maplewood Avenue, Hamilton,		
Project:	ON,Hamilton Heath Sciences	***Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.***	***Scientific Analytical Institute***
Client Notes:		*Only Enter your data on the first sheet "Sheet1"*	
P.O. #.	217420.002	*Note: Data 1 and Data 2 are optional*	***4604 Dundas Dr.***
Date Submitted:	January 25,2018	*fields that do not show up on the official*	***Greensboro, NC 27407***
		report, however they will be included	***Phone: 336.292.3888***
Analysis:	PLM - Stop Positive	*in the electronic data returned to you*	***Fax: 336.292.3313***
TurnAroundTime:	4days	*to facilitate your reintegration of the report data.*	***Email: lab@sailab.com***

Sample Number	Data 1 (Lab use only)	Sample Description	Data 2 (Lab use only\)
<<			
0004A		Gasket on Reheat Coil Exchanger, East Wing Mechanical Penthouse	
0004B		Gasket on Reheat Coil Exchanger, East Wing Mechanical Penthouse	
0004C		Gasket on Reheat Coil Exchanger, East Wing Mechanical Penthouse	
0005A		Resisdual material on Reheat Coil Excanger Pipe, East Wing Mechanical Penthouse	
>>			

Accepted ☑
Rejected ☐

D Alston 1/26 9A

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Robert Bertin-Fenney
Michael Maiorana

Project: 88 Maplewood Avenue, Hamilton, ON,Hamilton Heath Sciences

Lab Order ID: 11802273
Analysis ID: 11802273_PLM
Date Received: 1/26/2018
Date Reported: 1/31/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
0005A *11802273PLM_1*	Parging cement, Basement Boiler Room ME13	**40% Chrysotile**		**60% Other**	Gray Fibrous Heterogeneous Teased
0005B *11802273PLM_2*	Parging cement, Basement Boiler Room ME13	**Not Analyzed**			
0005C *11802273PLM_3*	Parging cement, Basement Boiler Room ME13	**Not Analyzed**			
0006A *11802273PLM_4*	Firestopping, Basement Boiler Room ME13	**None Detected**		**70% Other** **30% Quartz**	Gray Non Fibrous Heterogeneous Crushed
0006B *11802273PLM_5*	Firestopping, Basement Boiler Room ME13	**None Detected**		**70% Other** **30% Quartz**	Gray Non Fibrous Heterogeneous Crushed
0006C *11802273PLM_6*	Firestopping, Basement Boiler Room ME13	**None Detected**		**70% Other** **30% Quartz**	Gray Non Fibrous Heterogeneous Crushed

Megan Javonovich (6)

Analyst

Approved Signatory

1180227

Version 1-15-2012

Client:	Pinchin Ltd.	***Instructions:**
Contact:	Robert Bertin-Fenney	*Use Column "B" for your contact info*
	875 Main Street W., Unit 11	
Address:	Hamilton, ON L8S 4R9	
Phone:	905-577-6206	*To See an Example Click the*
Fax:	905-577-6207	*bottom Example Tab.*
Email:	rbertin-fenney@pinchin.com	
	mmaiorana@pinchin.com	***Enter samples between "<<" and ">>"***
	88 Maplewood Avenue, Hamilton,	
Project:	ON,Hamilton Heath Sciences	***Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.***
Client Notes:		*Only Enter your data on the first sheet "Sheet1"*
P.O. #.	217420.002	*Note: Data 1 and Data 2 are optional*
Date Submitted:	January 25,2018	*fields that do not show up on the official*
		report, however they will be included
Analysis:	PLM - Stop Positive	*in the electronic data returned to you*
TurnAroundTime:	4days	*to facilitate your reintegration of the report data.*

Invoice to:

rbertin-fenney@pinchin.com

Scientific Analytical Institute

4604 Dundas Dr.
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Data 1 (Lab use only)	Sample Description	Data 2 (Lab use only\)
<<			
0005A		Parging cement, Basement Boiler Room ME13	
0005B		Parging cement, Basement Boiler Room ME13	
0005C		Parging cement, Basement Boiler Room ME13	
0006A		Firestopping, Basement Boiler Room ME13	
0006B		Firestopping, Basement Boiler Room ME13	
0006C		Firestopping, Basement Boiler Room ME13	
>>			

Accepted ☑

Rejected ☐

1/26 9am

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Robert Bertin-Fenney
Michael Maiorana

Project: 88 Maplewood Avenue, Hamilton, ON,Hamilton Heath Sciences

Lab Order ID: 11802139
Analysis ID: 11802139_PLM
Date Received: 1/26/2018
Date Reported: 1/31/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
0001A *11802139PLM_1*	Parging cement, West Mechanical Penthouse	**15% Chrysotile**		**85% Other**	Gray Non Fibrous Heterogeneous Crushed
0001B *11802139PLM_2*	Parging cement, East Mechanical Penthouse	**Not Analyzed**			
0001C *11802139PLM_3*	Parging cement, West Mechanical Penthouse	**Not Analyzed**			
0002A - A *11802139PLM_4*	Sweatwrap and tar paper insulationon rain water leader, West Mechanical Penthouse *wrap*	**None Detected**	**95% Cellulose**	**5% Other**	Tan Fibrous Heterogeneous Teased
0002A - B *11802139PLM_10*	Sweatwrap and tar paper insulationon rain water leader, West Mechanical Penthouse *felt*	**None Detected**	**80% Cellulose**	**20% Other**	Black Fibrous Heterogeneous Teased, Dissolved
0002B - A *11802139PLM_5*	Sweatwrap and tar paper insulationon rain water leader, West Mechanical Penthouse *wrap*	**None Detected**	**95% Cellulose**	**5% Other**	Tan Fibrous Heterogeneous Teased
0002B - B *11802139PLM_11*	Sweatwrap and tar paper insulationon rain water leader, West Mechanical Penthouse *felt*	**None Detected**	**80% Cellulose**	**20% Other**	Black Fibrous Heterogeneous Teased, Dissolved
0002C - A *11802139PLM_6*	Sweatwrap and tar paper insulationon rain water leader, West Mechanical Penthouse *wrap*	**None Detected**	**95% Cellulose**	**5% Other**	Tan Fibrous Heterogeneous Teased

Bart Huber (12)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Robert Bertin-Fenney
Michael Maiorana

Project: 88 Maplewood Avenue, Hamilton, ON,Hamilton Heath Sciences

Lab Order ID: 11802139
Analysis ID: 11802139_PLM
Date Received: 1/26/2018
Date Reported: 1/31/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
0002C - B *11802139PLM_12*	Sweatwrap and tar paper insulationon rain water leader, West Mechanical Penthouse *felt*	**None Detected**	**80% Cellulose**	**20% Other**	Black Fibrous Heterogeneous Teased, Dissolved
0003A *11802139PLM_7*	Gasket on Steam Humidifier, West Mechanical Penthouse	**None Detected**	**80% Cellulose**	**20% Other**	Green Fibrous Heterogeneous Teased, Dissolved
0003B *11802139PLM_8*	Gasket on Steam Humidifier, West Mechanical Penthouse	**None Detected**	**80% Cellulose**	**20% Other**	Green Fibrous Heterogeneous Teased, Dissolved
0003C *11802139PLM_9*	Gasket on Steam Humidifier, West Mechanical Penthouse	**None Detected**	**80% Cellulose**	**20% Other**	Green Fibrous Heterogeneous Teased, Dissolved

Bart Huber (12)

Analyst

Approved Signatory

11802139

Client:	Pinchin Ltd.
Contact:	Robert Bertin-Fenney
Address:	875 Main Street W., Unit 11 Hamilton, ON L8S 4R9
Phone:	905-577-6206
Fax:	905-577-6207
Email:	rbertin-fenney@pinchin.com mmaiorana@pinchin.com
Project:	88 Maplewood Avenue, Hamilton, ON,Hamilton Heath Sciences
Client Notes:	
P.O. #.	217420.002
Date Submitted:	January 25,2018
Analysis:	PLM - Stop Positive
TurnAroundTime:	4days

Instructions:
Use Column "B" for your contact info

To See an Example Click the bottom Example Tab.

Enter samples between "<<" and ">>"

Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.
Only Enter your data on the first sheet "Sheet1"

Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.

Version 1-15-2012

Invoice to:
rbertin-fenney@pinchin.com

Scientific Analytical Institute

4604 Dundas Dr.
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Data 1 (Lab use only)	Sample Description	Data 2 (Lab use only\)
<<			
0001A		Parging cement, West Mechanical Penthouse	
0001B		Parging cement, East Mechanical Penthouse	
0001C		Parging cement, West Mechanical Penthouse	
0002A		Sweatwrap and tar paper insulationon rain water leader, West Mechanical Penthouse	
0002B		Sweatwrap and tar paper insulationon rain water leader, West Mechanical Penthouse	
0002C		Sweatwrap and tar paper insulationon rain water leader, West Mechanical Penthouse	
0003A		Gasket on Steam Humidifier, West Mechanical Penthouse	
0003B		Gasket on Steam Humidifier, West Mechanical Penthouse	
0003C		Gasket on Steam Humidifier, West Mechanical Penthouse	
>>			

Accepted ☑

Rejected ☐

Sheston 1/26/18

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Matthew Gibbs
Michael Maiorana

Project: 217420.010, St. Peter's Hospital South Wing, 88 Maplewood Ave, Hamilton, On

Lab Order ID: 11810936
Analysis ID: 11810936_PLM
Date Received: 5/3/2018
Date Reported: 5/8/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
0001A *11810936PLM_1*	parging in metal door / 1st floor long hallway	None Detected	20% Cellulose	80% Other	Gray Fibrous Homogeneous Ashed, Teased
0001B *11810936PLM_2*	parging in metal door / 1st floor long hallway	None Detected	20% Cellulose	80% Other	Gray Fibrous Homogeneous Ashed, Teased
0001C *11810936PLM_3*	parging in metal door / 1st floor long hallway	None Detected	20% Cellulose	80% Other	Gray Fibrous Homogeneous Ashed, Teased
0002A *11810936PLM_4*	24x48 pinhole and star-like fissure ceiling tile / room S110	None Detected	40% Cellulose 40% Fiber Glass	20% Other	White, Gray Fibrous Homogeneous Ashed, Teased
0002B *11810936PLM_5*	24x48 pinhole and star-like fissure ceiling tile / room S102B	None Detected	40% Cellulose 40% Fiber Glass	20% Other	White, Gray Fibrous Homogeneous Ashed, Teased
0002C *11810936PLM_6*	24x48 pinhole and star-like fissure ceiling tile / room S110	None Detected	40% Cellulose 40% Fiber Glass	20% Other	White, Gray Fibrous Homogeneous Ashed, Teased
0003A *11810936PLM_7*	window glazing / exterior room 206	None Detected		100% Other	Beige Non Fibrous Homogeneous Dissolved
0003B *11810936PLM_8*	window glazing / exterior room S112	3% Chrysotile		97% Other	Gray Non Fibrous Homogeneous Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

Bethany Nichols (73)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Matthew Gibbs
Michael Maiorana

Project: 217420.010, St. Peter's Hospital South Wing, 88 Maplewood Ave, Hamilton, On

Lab Order ID: 11810936
Analysis ID: 11810936_PLM
Date Received: 5/3/2018
Date Reported: 5/8/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
0003C *11810936PLM_9*	window glazing / exterior room S116C	**Not Submitted**			
0004A *11810936PLM_10*	brown caulking / exterior room S116A	**3% Chrysotile**		**97% Other**	Brown, Gray Non Fibrous Heterogeneous Dissolved
0004B *11810936PLM_11*	brown caulking / exterior room S102B	**Not Analyzed**			
0004C *11810936PLM_12*	brown caulking / exterior room S101/103	**Not Analyzed**			
0005A *11810936PLM_13*	white caulking / exterior stairwell door	**1% Chrysotile**		**99% Other**	White, Brown, Gray Non Fibrous Heterogeneous Dissolved, Ashed
0005B *11810936PLM_14*	white caulking / exterior stairwell door	**Not Analyzed**			
0005C *11810936PLM_15*	white caulking / exterior stairwell door	**Not Analyzed**			
0006A *11810936PLM_16*	24x48 length-wise fissure ceiling tile / room S004	**None Detected**	**40% Cellulose** **40% Fiber Glass**	**10% Perlite** **10% Other**	White, Gray Fibrous Homogeneous Ashed, Teased

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Bethany Nichols (73)

Analyst

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
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Michael Maiorana

Project: 217420.010, St. Peter's Hospital South Wing, 88 Maplewood Ave, Hamilton, On

Lab Order ID: 11810936
Analysis ID: 11810936_PLM
Date Received: 5/3/2018
Date Reported: 5/8/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
0006B *11810936PLM_17*	24x48 length-wise fissure ceiling tile / room S004	None Detected	40% Cellulose 40% Fiber Glass	10% Perlite 10% Other	White, Gray Fibrous Homogeneous Ashed, Teased
0006C *11810936PLM_18*	24x48 length-wise fissure ceiling tile / room S004	None Detected	40% Cellulose 40% Fiber Glass	10% Perlite 10% Other	White, Gray Fibrous Homogeneous Ashed, Teased
0007A - A *11810936PLM_19*	ceramic tile grout / washroom S106-108 *finish-no grout or adhesive*	None Detected		100% Other	White Non Fibrous Homogeneous Crushed
0007A - B *11810936PLM_54*	ceramic tile grout / washroom S106-108 *base-no grout or adhesive*	None Detected		80% Other 20% Quartz	Gray Non Fibrous Homogeneous Crushed
0007B - A *11810936PLM_20*	ceramic tile grout / washroom S104 *grout*	None Detected		70% Other 30% Quartz	White Non Fibrous Homogeneous Crushed
0007B - B *11810936PLM_55*	ceramic tile grout / washroom S104 *adhesive*	None Detected		100% Other	Beige Non Fibrous Homogeneous Dissolved
0007C - A *11810936PLM_21*	ceramic tile grout / washroom 204 *grout*	None Detected		100% Other	White Non Fibrous Homogeneous Crushed
0007C - B *11810936PLM_56*	ceramic tile grout / washroom 204 *adhesive*	None Detected		100% Other	Beige Non Fibrous Homogeneous Dissolved

Bethany Nichols (73)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Matthew Gibbs
Michael Maiorana

Project: 217420.010, St. Peter's Hospital South Wing, 88 Maplewood Ave, Hamilton, On

Lab Order ID: 11810936
Analysis ID: 11810936_PLM
Date Received: 5/3/2018
Date Reported: 5/8/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
0008A *11810936PLM_22*	24x48 white textured ceiling tile / 1st floor room 2	**None Detected**	**50% Fiber Glass** **30% Cellulose**	**10% Perlite** **10% Other**	White, Gray Fibrous Homogeneous Ashed, Teased
0008B *11810936PLM_23*	24x48 white textured ceiling tile / 1st floor room 2	**None Detected**	**50% Fiber Glass** **30% Cellulose**	**10% Perlite** **10% Other**	White, Gray Fibrous Homogeneous Ashed, Teased
0008C *11810936PLM_24*	24x48 white textured ceiling tile / 1st floor room 2	**None Detected**	**50% Fiber Glass** **30% Cellulose**	**10% Perlite** **10% Other**	White, Gray Fibrous Homogeneous Ashed, Teased
0009A *11810936PLM_25*	green terrazzo / room S105A	**None Detected**		**100% Other**	Green Non Fibrous Homogeneous Crushed
0009B *11810936PLM_26*	green terrazzo / room 201	**None Detected**		**100% Other**	Green Non Fibrous Homogeneous Crushed
0009C *11810936PLM_27*	green terrazzo / 1st floor stairwell	**None Detected**		**100% Other**	Green Non Fibrous Homogeneous Crushed
0010A *11810936PLM_28*	grey terrazzo / room S105A	**None Detected**		**100% Other**	Tan Non Fibrous Homogeneous Crushed
0010B *11810936PLM_29*	grey terrazzo / room 201	**None Detected**		**100% Other**	Tan Non Fibrous Homogeneous Crushed

Bethany Nichols (73)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Matthew Gibbs
Michael Maiorana

Project: 217420.010, St. Peter's Hospital South Wing, 88 Maplewood Ave, Hamilton, On

Lab Order ID: 11810936
Analysis ID: 11810936_PLM
Date Received: 5/3/2018
Date Reported: 5/8/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
0010C *11810936PLM_30*	grey terrazzo / room S111	**None Detected**		**100% Other**	Tan Non Fibrous Homogeneous Crushed
0011A - A *11810936PLM_31*	green vinyl sheet flooring / room AUX 303 *vinyl sheet flooring*	**None Detected**	**5% Synthetic Fibers** **5% Fiber Glass**	**90% Other**	Green Non Fibrous Homogeneous Dissolved
0011A - B *11810936PLM_57*	green vinyl sheet flooring / room AUX 303 *mastic/leveling*	**None Detected**		**100% Other**	Yellow, Gray Non Fibrous Heterogeneous Dissolved, Crushed
0011B - A *11810936PLM_32*	green vinyl sheet flooring / room AUX 303 *vinyl sheet flooring*	**None Detected**	**5% Synthetic Fibers** **5% Fiber Glass**	**90% Other**	Green Non Fibrous Homogeneous Dissolved
0011B - B *11810936PLM_58*	green vinyl sheet flooring / room AUX 303 *mastic/leveling*	**None Detected**		**100% Other**	Yellow, Gray Non Fibrous Heterogeneous Dissolved, Crushed
0011C - A *11810936PLM_33*	green vinyl sheet flooring / room AUX 303 *vinyl sheet flooring*	**None Detected**	**5% Synthetic Fibers** **5% Fiber Glass**	**90% Other**	Green Non Fibrous Homogeneous Dissolved
0011C - B *11810936PLM_59*	green vinyl sheet flooring / room AUX 303 *mastic/leveling*	**None Detected**		**100% Other**	Yellow, Gray Non Fibrous Heterogeneous Dissolved, Crushed
0012A - A *11810936PLM_34*	12x12 beige and white flakes floor tile / 1st floor room 2 *tile*	**None Detected**		**100% Other**	Beige Non Fibrous Homogeneous Dissolved

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Bethany Nichols (73)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Matthew Gibbs
Michael Maiorana

Project: 217420.010, St. Peter's Hospital South Wing, 88 Maplewood Ave, Hamilton, On

Lab Order ID: 11810936
Analysis ID: 11810936_PLM
Date Received: 5/3/2018
Date Reported: 5/8/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
0012A - B *11810936PLM_60*	12x12 beige and white flakes floor tile / 1st floor room 2 *mastic*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
0012B - A *11810936PLM_35*	12x12 beige and white flakes floor tile / room S116A *tile*	**None Detected**		**100% Other**	Beige Non Fibrous Homogeneous Dissolved
0012B - B *11810936PLM_61*	12x12 beige and white flakes floor tile / room S116A *mastic*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
0012C - A *11810936PLM_36*	12x12 beige and white flakes floor tile / room S110 *tile - ashed*	**None Detected**		**100% Other**	Beige Non Fibrous Homogeneous Ashed
0012C - B *11810936PLM_62*	12x12 beige and white flakes floor tile / room S110 *mastic*	**None Detected**		**100% Other**	Black Non Fibrous Homogeneous Dissolved
0013A *11810936PLM_37*	brown paper in door / 1st floor stairwell	**None Detected**	**98% Cellulose**	**2% Other**	Brown Fibrous Homogeneous Ashed, Teased
0013B *11810936PLM_38*	brown paper in door / basement room S0012	**None Detected**	**98% Cellulose**	**2% Other**	Brown Fibrous Homogeneous Ashed, Teased
0013C *11810936PLM_39*	brown paper in door / room 205	**None Detected**	**98% Cellulose**	**2% Other**	Brown Fibrous Homogeneous Ashed, Teased

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Matthew Gibbs
Michael Maiorana

Project: 217420.010, St. Peter's Hospital South Wing, 88 Maplewood Ave, Hamilton, On

Lab Order ID: 11810936
Analysis ID: 11810936_PLM
Date Received: 5/3/2018
Date Reported: 5/8/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
0014A - A *11810936PLM_40*	grey pebble vinyl sheet flooring / room 202A *vinyl sheet backing*	**None Detected**	**50% Cellulose** **10% Synthetic Fibers** **10% Fiber Glass**	**30% Other**	Gray Fibrous Homogeneous Ashed, Teased
0014A - B *11810936PLM_63*	grey pebble vinyl sheet flooring / room 202A *mastic*	**None Detected**		**100% Other**	Orange Non Fibrous Homogeneous Dissolved
0014A - C *11810936PLM_64*	grey pebble vinyl sheet flooring / room 202A *leveling/mastic*	**None Detected**		**100% Other**	Black, Gray Non Fibrous Heterogeneous Crushed, Dissolved
0014B - A *11810936PLM_41*	grey pebble vinyl sheet flooring / room 202A *vinyl sheet backing*	**None Detected**	**50% Cellulose** **10% Synthetic Fibers** **10% Fiber Glass**	**30% Other**	Gray Fibrous Homogeneous Ashed, Teased
0014B - B *11810936PLM_65*	grey pebble vinyl sheet flooring / room 202A *mastic*	**None Detected**		**100% Other**	Orange Non Fibrous Homogeneous Dissolved
0014B - C *11810936PLM_66*	grey pebble vinyl sheet flooring / room 202A *leveling/mastic*	**None Detected**		**100% Other**	Black, Gray Non Fibrous Heterogeneous Crushed, Dissolved
0014C - A *11810936PLM_42*	grey pebble vinyl sheet flooring / room 202A *vinyl sheet backing*	**None Detected**	**50% Cellulose** **10% Synthetic Fibers** **10% Fiber Glass**	**30% Other**	Gray Fibrous Homogeneous Ashed, Teased
0014C - B *11810936PLM_67*	grey pebble vinyl sheet flooring / room 202A *mastic*	**None Detected**		**100% Other**	Orange Non Fibrous Homogeneous Dissolved

Bethany Nichols (73)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Matthew Gibbs
Michael Maiorana

Project: 217420.010, St. Peter's Hospital South Wing, 88 Maplewood Ave, Hamilton, On

Lab Order ID: 11810936
Analysis ID: 11810936_PLM
Date Received: 5/3/2018
Date Reported: 5/8/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
0014C - C *11810936PLM_68*	grey pebble vinyl sheet flooring / room 202A *leveling/mastic*	**None Detected**		**100% Other**	Black, Gray Non Fibrous Heterogeneous Crushed, Dissolved
0015A *11810936PLM_43*	brown mastic on 1x1 fissure ceiling tile / basement room 10	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous Dissolved
0015B *11810936PLM_44*	brown mastic on 1x1 fissure ceiling tile / basement room 10	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous Dissolved
0015C *11810936PLM_45*	brown mastic on 1x1 fissure ceiling tile / basement room 10	**None Detected**		**100% Other**	Brown Non Fibrous Homogeneous Dissolved
0016A *11810936PLM_46*	orange terrazzo / 2nd floor long hall	**None Detected**		**100% Other**	Orange Non Fibrous Homogeneous Crushed
0016B *11810936PLM_47*	orange terrazzo / basement main hallway	**None Detected**		**100% Other**	Orange Non Fibrous Homogeneous Crushed
0016C *11810936PLM_48*	orange terrazzo / 1st floor stairwell	**None Detected**		**100% Other**	Orange Non Fibrous Homogeneous Crushed
0017A - A *11810936PLM_49*	textured plaster / basement hall 2 *tan layer*	**None Detected**		**70% Other** **30% Perlite**	Tan Non Fibrous Homogeneous Crushed

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Bethany Nichols (73)

Analyst

Approved Signatory

P-F-002 r15 1/16/2021

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Matthew Gibbs
Michael Maiorana

Project: 217420.010, St. Peter's Hospital South Wing, 88 Maplewood Ave, Hamilton, On

Lab Order ID: 11810936
Analysis ID: 11810936_PLM
Date Received: 5/3/2018
Date Reported: 5/8/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
0017A - B *11810936PLM_69*	textured plaster / basement hall 2 *gray layer*	**None Detected**		**80% Other** **20% Quartz**	Gray Non Fibrous Homogeneous Crushed
0017B - A *11810936PLM_50*	textured plaster / basement hall 2 *tan layer*	**None Detected**		**70% Other** **30% Perlite**	Tan Non Fibrous Homogeneous Crushed
0017B - B *11810936PLM_70*	textured plaster / basement hall 2 *gray layer*	**None Detected**		**80% Other** **20% Quartz**	Gray Non Fibrous Homogeneous Crushed
0017C - A *11810936PLM_51*	textured plaster / basement hall 2 *tan layer*	**None Detected**		**70% Other** **30% Perlite**	Tan Non Fibrous Homogeneous Crushed
0017C - B *11810936PLM_71*	textured plaster / basement hall 2 *gray layer*	**None Detected**		**80% Other** **20% Quartz**	Gray Non Fibrous Homogeneous Crushed
0017D - A *11810936PLM_52*	textured plaster / basement hall 2 *tan layer*	**None Detected**		**70% Other** **30% Perlite**	Tan Non Fibrous Homogeneous Crushed
0017D - B *11810936PLM_72*	textured plaster / basement hall 2 *gray layer*	**None Detected**		**80% Other** **20% Quartz**	Gray Non Fibrous Homogeneous Crushed
0017E - A *11810936PLM_53*	textured plaster / basement hall 2 *tan layer*	**None Detected**		**70% Other** **30% Perlite**	Tan Non Fibrous Homogeneous Crushed

Bethany Nichols (73)

Analyst

Approved Signatory

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020

NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Matthew Gibbs
Michael Maiorana

Project: 217420.010, St. Peter's Hospital South Wing, 88 Maplewood Ave, Hamilton, On

Lab Order ID: 11810936
Analysis ID: 11810936_PLM
Date Received: 5/3/2018
Date Reported: 5/8/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
0017E - B	textured plaster / basement hall 2	None Detected		80% Other 20% Quartz	Gray Non Fibrous Homogeneous
11810936PLM_73	*gray layer-small sample8*				Crushed

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Bethany Nichols (73)

Analyst

Approved Signatory

1181093b

Client:	Pinchin Ltd.	***Instructions:***
Contact:	M. Gibbs	*Use Column "B" for your contact info*
Address:	6-875 Main St. W., Suite 200, Hamilton, Ontario	
Phone:	(289) 925-6907	*To See an Example Click the bottom Example Tab.*
Fax:	(905) 577-6207	
Email:	mgibbs@pinchin.com mmaiorana@pinchin.com	***Enter samples between "<<" and ">>"***
Project:	217420.010, St. Peter's Hospital South Wing, 88 Maplewood Ave, Hamilton, On	***Begin Samples with a "<< "above the first sample***
	analyze both tile adhesive and grout in sample set 0007, analyze only brown mastic in sample set	***and end with a ">>" below the last sample.***
Client Notes:	0015	*Only Enter your data on the first sheet "Sheet1"*
P.O. #.	217420.010	*Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.*
Date Submitted:	May 2 2018	
Analysis:	PLM - Stop Positive	
TurnAroundTime:	Standard - 5 days	

Invoice To:
M. Gibbs
mgibbs@pinchin.com

Scientific Analytical Institute

4604 Dundas Drive
Greensboro, NC 27407
Phone: 336.292.3888
Fax: 336.292.3313
Email: lab@sailab.com

Sample Number	Data 1	Sample Description	Data 2
<<			
0001A		parging in metal door / 1st floor long hallway	
0001B		parging in metal door / 1st floor long hallway	
0001C		parging in metal door / 1st floor long hallway	
0002A		24x48 pinhole and star-like fissure ceiling tile / room S110	
0002B		24x48 pinhole and star-like fissure ceiling tile / room S102B	
0002C		24x48 pinhole and star-like fissure ceiling tile / room S110	
0003A		window glazing / exterior room 206	
0003B		window glazing / exterior room S112	
0003C		window glazing / exterior room S116C	
0004A		brown caulking / exterior room S116A	
0004B		brown caulking / exterior room S102B	
0004C		brown caulking / exterior room S101/103	
0005A		white caulking / exterior stairwell door	

Accepted ☑

Rejected ☐

Relinquished By

Received By

B Shelley 5/3 1030AM

0005B	white caulking / exterior stairwell door
0005C	white caulking / exterior stairwell door
0006A	24x48 length-wise fissure ceiling tile / room S004
0006B	24x48 length-wise fissure ceiling tile / room S004
0006C	24x48 length-wise fissure ceiling tile / room S004
0007A	ceramic tile grout / washroom S106-108
0007B	ceramic tile grout / washroom S104
0007C	ceramic tile grout / washroom 204
0008A	24x48 white textured ceiling tile / 1st floor room 2
0008B	24x48 white textured ceiling tile / 1st floor room 2
0008C	24x48 white textured ceiling tile / 1st floor room 2
0009A	green terrazzo / room S105A
0009B	green terrazzo / room 201
0009C	green terrazzo / 1st floor stairwell
0010A	grey terrazzo / room S105A
0010B	grey terrazzo / room 201
0010C	grey terrazzo / room S111
0011A	green vinyl sheet flooring / room AUX 303
0011B	green vinyl sheet flooring / room AUX 303
0011C	green vinyl sheet flooring / room AUX 303
0012A	12x12 beige and white flakes floor tile / 1st floor room 2
0012B	12x12 beige and white flakes floor tile / room S116A
0012C	12x12 beige and white flakes floor tile / room S110
0013A	brown paper in door / 1st floor stairwell
0013B	brown paper in door / basement room S0012
0013C	brown paper in door / room 205
0014A	grey pebble vinyl sheet flooring / room 202A
0014B	grey pebble vinyl sheet flooring / room 202A
0014C	grey pebble vinyl sheet flooring / room 202A
0015A	brown mastic on 1x1 fissure ceiling tile / basement room 10
0015B	brown mastic on 1x1 fissure ceiling tile / basement room 10
0015C	brown mastic on 1x1 fissure ceiling tile / basement room 10
0016A	orange terrazzo / 2nd floor long hall
0016B	orange terrazzo / basement main hallway
0016C	orange terrazzo / 1st floor stairwell
0017A	textured plaster / basement hall 2
0017B	textured plaster / basement hall 2

Relinquished By

Received By

11810936

0017C	textured plaster / basement hall 2
0017D	textured plaster / basement hall 2
0017E	textured plaster / basement hall 2

>>

Relinquished By

Received By

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name:	**Hamilton Health Sciences, St. Peter's Hospital South Wing**		
	88 Maplewood Ave, Hamilton, On		
Project No.:	**0217420.010**		
Prepared For:	**S. Holmquist / M. Maiorana**		
		Date Received:	**June 7, 2018**
Lab Reference No.:	**b190879**	**Date Analyzed:**	**June 14, 2018**
Analyst(s):	**R. Dacey / N. Barinque**	**# Samples submitted:**	**9**
		# Phases analyzed:	**8**

Method of Analysis:
EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario, British Columbia, Nova Scotia	0.5%	Manitoba	0.1% friable 1% non-friable
Quebec	0.1%	Saskatchewan	0.5% friable 1% non-friable
Alberta, NWT, Yukon, Nunavut	1%	Newfoundland and Labrador, PEI and New Brunswick	1%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

Pinchin Ltd. is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0) for the 'EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2005.

This report relates only to the items tested.

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: **Hamilton Health Sciences, St. Peter's Hospital South Wing**
88 Maplewood Ave, Hamilton, On
Project No.: **0217420.010**
Prepared For: **S. Holmquist / M. Maiorana**

Lab Reference No.: **b190879**
Date Analyzed: **June 14, 2018**

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S020A Grey caulking on expansion joint flashing - South Wing Roof	Homogeneous, metallic grey, caulking material.	Chrysotile 5-10%	Non-Fibrous Material > 75%
S020B Grey caulking on expansion joint flashing - South Wing Roof			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
S020C Grey caulking on expansion joint flashing - South Wing Roof			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
S021A Brown caulking on expansion joint flashing - South Wing Roof (South)	Homogeneous, beige, caulking material.	None Detected	Non-Fibrous Material > 75%
S021B Brown caulking on expansion joint flashing - South Wing Roof (South)	2 Phases: a) Homogeneous, metallic grey, caulking material. b) Homogeneous, beige, caulking material.	Chrysotile 5-10% None Detected	Non-Fibrous Material > 75% Non-Fibrous Material > 75%
S021C Brown caulking on expansion joint flashing - South Wing Roof (South)	Homogeneous, beige, caulking material.	None Detected	Non-Fibrous Material > 75%

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: **Hamilton Health Sciences, St. Peter's Hospital South Wing**
88 Maplewood Ave, Hamilton, On
Project No.: **0217420.010**
Prepared For: **S. Holmquist / M. Maiorana**

Lab Reference No.: **b190879**
Date Analyzed: **June 14, 2018**

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S022A Fibourous insualtion inside exhaust vents - South Wing Roof	Homogeneous, grey, layered, fibrous material.	None Detected	Man-made Vitreous Fibres > 75% Non-Fibrous Material 10-25%
S022B Fibourous insualtion inside exhaust vents - South Wing Roof	Homogeneous, grey, layered, fibrous material.	None Detected	Synthetic Fibres 0.5-5% Man-made Vitreous Fibres > 75% Non-Fibrous Material 10-25%
S022C Fibourous insualtion inside exhaust vents - South Wing Roof	Homogeneous, grey, layered, fibrous material.	None Detected	Synthetic Fibres 0.5-5% Man-made Vitreous Fibres > 75% Non-Fibrous Material 10-25%

Reviewed by: **Reporting Analyst:**

PINCHIN

MEMBER OF PG THE PINCHIN GROUP

Special Instructions:

Analyzed by: RD

Reviewed by: KB

Pinchin Ltd. - Asbestos Laboratory
Internal Asbestos Bulk Sample Chain of Custody

Client Name:	Hamilton Health Sciences			**Project Address:**	88 Maplewood Ave, Hamilton, On		
Portfolio/Building No:	St. Peter's Hospital South Wing			**Pinchin File:**	217420.010.		
Submitted by:	Stephen Holmquist			**Email:**	sholmquist@pinchin.com		
CC Results to:	Michael Maiorana			**CC Email:**	mmaiorana@pinchin.com		
Invoice to:	Accounts Payable			**Invoice Email:**	ap@Pinchin.com		
Date Submitted:	June	6	Year	**Required by:**	June	14	2018
# of Samples:	~~15~~ 9			**Priority:**	5 Day Turnaround		
Year of Building Construction (*Mandatory Field*):							
Do NOT Stop on Positive (Sample Numbers):							
Pinchin Group Company (*Mandatory Field*):					Pinchin		

To be Completed by Lab Personnel Only:					
Lab Reference #:	b190879		**Time:**	24 hour clock	
Received by:	JUN 07 2018		**Date:**	Month	Day	Year
Name(s) of Analyst(s):	RD/MB. 6.14.18				

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
	S018	A	Roofing Material - South Wing
	S018	B	Roofing Material - South Wing
	S018	C	Roofing Material - South Wing
	S019	A	Roofing Material - South Wing (South)
	S019	B	Roofing Material - South Wing (South)
	S019	C	Roofing Material - South Wing (South)

PINCHIN

MEMBER OF PG THE PINCHIN GROUP

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
	S020	A	Grey caulking on expansion joint flashing - South Wing Roof CHS-10%
	S020	B	Grey caulking on expansion joint flashing - South Wing Roof na
	S020	C	Grey caulking on expansion joint flashing - South Wing Roof na
	S021	A	Brown caulking on expansion joint flashing - South Wing Roof (South) ND
	S021	B	Brown caulking on expansion joint flashing - South Wing Roof (South) @ CHS-10% (b) ND
	S021	C	Brown caulking on expansion joint flashing - South Wing Roof (South) ND
	S022	A	Fibourous insualtion inside exhaust vents - South Wing Roof ND
	S022	B	Fibourous insualtion inside exhaust vents - South Wing Roof ND
	S022	C	Fibourous insualtion inside exhaust vents - South Wing Roof ND

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name:	**Hamilton Health Sciences, St. Peter's Hospital South Wing**		
	88 Maplewood Ave, Hamilton, On		
Project No.:	**0217420.01**		
Prepared For:	**S. Holmquist**		
	M. Maiorana	**Date Received:**	**June 7, 2018**
Lab Reference No.:	**b190878**	**Date Analyzed:**	**June 15, 2018**
Analyst(s):	**M. Tipgos**	**# Samples submitted:**	**6**
		# Phases analyzed:	**26**

Method of Analysis:
EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario, British Columbia, Nova Scotia	0.5%	Manitoba	0.1% friable 1% non-friable
Quebec	0.1%	Saskatchewan	0.5% friable 1% non-friable
Alberta, NWT, Yukon, Nunavut	1%	Newfoundland and Labrador, PEI and New Brunswick	1%

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

Pinchin Ltd. is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 101270-0) for the 'EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2005.

This report relates only to the items tested.

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: **Hamilton Health Sciences, St. Peter's Hospital South Wing**
88 Maplewood Ave, Hamilton, On
Project No.: **0217420.01**
Prepared For: **S. Holmquist**
M. Maiorana
Lab Reference No.: **b190878**
Date Analyzed: **June 15, 2018**

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S018A Roofing Material - South Wing	5 Phases: a) Homogeneous, black, layered, tar material.	None Detected	Tar and other non-fibrous > 75%
	b) Homogeneous, black, layered, tar impregnated, compressed fibrous material.	None Detected	Cellulose 25-50% Tar and other non-fibrous 50-75%
	c) Homogeneous, black, tar material with rocks.	None Detected	Synthetic Fibres 0.5-5% Tar and other non-fibrous > 75%
	d) Homogeneous, black, tar material.	None Detected	Tar and other non-fibrous > 75%
	e) Homogeneous, black, shingles.	None Detected	Synthetic Fibres 10-25% Tar and other non-fibrous > 75%
Comments:	Cellulose is present on the surface of this sample.		

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: **Hamilton Health Sciences, St. Peter's Hospital South Wing**
88 Maplewood Ave, Hamilton, On
Project No.: **0217420.01**
Prepared For: **S. Holmquist**
M. Maiorana
Lab Reference No.: **b190878**
Date Analyzed: **June 15, 2018**

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S018B Roofing Material - South Wing	5 Phases: a) Homogeneous, black, tar impregnated, compressed fibrous material.	None Detected	Cellulose 25-50% Tar and other non-fibrous 50-75%
	b) Homogeneous, black, tar in between cellulose.	None Detected	Tar and other non-fibrous > 75%
	c) Homogeneous, black, layered, tar material.	None Detected	Tar and other non-fibrous > 75%
	d Homogeneous, black, layered, tar impregnated, compressed fibrous material.	None Detected	Cellulose 25-50% Tar and other non-fibrous 50-75%
	e Homogeneous, black, shingles.	None Detected	Synthetic Fibres 5-10% Tar and other non-fibrous > 75%
Comments:	Cellulose is present on the surface of this sample.		

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: **Hamilton Health Sciences, St. Peter's Hospital South Wing**
88 Maplewood Ave, Hamilton, On
Project No.: **0217420.01**
Prepared For: **S. Holmquist**
M. Maiorana
Lab Reference No.: **b190878**
Date Analyzed: **June 15, 2018**

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S018C Roofing Material - South Wing	a) Homogeneous, black, layered, tar material.	None Detected	Tar and other non-fibrous > 75%
	b) Homogeneous, black, layered, tar impregnated, compressed fibrous material.	None Detected	Cellulose 25-50% Hair 0.5-5% Tar and other non-fibrous 50-75%
	c) Homogeneous, black, tar material with fibres.	None Detected	Man-made Vitreous Fibres 0.5-5% Tar and other non-fibrous > 75%
	d) Homogeneous, black, hard, tar material.	None Detected	Tar and other non-fibrous > 75%
	e) Homogeneous, black, tar impregnated, compressed fibrous material.	None Detected	Cellulose 25-50% Tar and other non-fibrous 50-75%
	f) Homogeneous, black, shingles.	None Detected	Synthetic Fibres 5-10% Tar and other non-fibrous > 75%
Comments:	Man-made vitreous fibres are present on the surface of this sample.		

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: **Hamilton Health Sciences, St. Peter's Hospital South Wing**
88 Maplewood Ave, Hamilton, On
Project No.: **0217420.01**
Prepared For: **S. Holmquist**
M. Maiorana
Lab Reference No.: **b190878**
Date Analyzed: **June 15, 2018**

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S019A Roofing Material - South Wing (South)	2 Phases: a) Homogeneous, black, tar material with fibres.	None Detected	Man-made Vitreous Fibres 5-10% Tar and other non-fibrous > 75%
	b) Homogeneous, black, shingles.	None Detected	Synthetic Fibres 10-25% Tar and other non-fibrous > 75%
Comments:	Foam and cellulose are present on the surface of this sample.		
S019B Roofing Material - South Wing (South)	4 Phases: a) Homogeneous, black, tar material.	None Detected	Tar and other non-fibrous > 75%
	b) Homogeneous, black, tar impregnated, compressed fibrous material.	None Detected	Cellulose 25-50% Synthetic Fibres 0.5-5% Hair 0.5-5% Tar and other non-fibrous 50-75%
	c) Homogeneous, black, tar material with fibres.	None Detected	Man-made Vitreous Fibres 5-10% Tar and other non-fibrous > 75%
	d) Homogeneous, black, shingles.	None Detected	Synthetic Fibres 10-25% Tar and other non-fibrous > 75%
Comments:	Foam and cellulose are present on the surface of this sample.		

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: **Hamilton Health Sciences, St. Peter's Hospital South Wing**
88 Maplewood Ave, Hamilton, On
Project No.: **0217420.01**
Prepared For: **S. Holmquist**
M. Maiorana
Lab Reference No.: **b190878**
Date Analyzed: **June 15, 2018**

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S019C Roofing Material - South Wing (South)	4 Phases: a) Homogeneous, black, tar material.	None Detected	Tar and other non-fibrous > 75%
	b) Homogeneous, black, tar impregnated, compressed fibrous material.	None Detected	Cellulose 25-50% Synthetic Fibres 0.5-5% Hair 0.5-5% Tar and other non-fibrous 50-75%
	c) Homogeneous, black, tar material with fibres.	None Detected	Man-made Vitreous Fibres 5-10% Tar and other non-fibrous > 75%
	d) Homogeneous, black, shingles.	None Detected	Synthetic Fibres 10-25% Tar and other non-fibrous > 75%
Comments:	Foam and cellulose are present on the surface of this sample.		

Reviewed by: **Reporting Analyst:**

PINCHIN

MEMBER OF PG THE PINCHIN GROUP

Special Instructions:

Analyzed by: HT 2018/6/17

Reviewed by: KB

Pinchin Ltd. - Asbestos Laboratory
Internal Asbestos Bulk Sample Chain of Custody

Client Name:	Hamilton Health Sciences			**Project Address:**	88 Maplewood Ave, Hamilton, On	
Portfolio/Building No:	St. Peter's Hospital South Wing			**Pinchin File:**	217420.010.	
Submitted by:	Stephen Holmquist			**Email:**	sholmquist@pinchin.com	
CC Results to:	Michael Maiorana			**CC Email:**	mmaiorana@pinchin.com	
Invoice to:	Accounts Payable			**Invoice Email:**	ap@Pinchin.com	
Date Submitted:	June	6	Year	**Required by:**	June	14	2018
# of Samples:	15 16			**Priority:**	5 Day Turnaround		
Year of Building Construction (*Mandatory Field*):							
Do NOT Stop on Positive (Sample Numbers):							
Pinchin Group Company (*Mandatory Field*):				Pinchin			

To be Completed by Lab Personnel Only:					
Lab Reference #:	D190878		**Time:**	24 hour clock	
Received by:	JUN 07 2018 JH		**Date:**	Month	Day	Year
Name(s) of Analyst(s):				Phaya — 26	

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
	S018	A	Roofing Material - South Wing a|NAD b|NAD c|NAD d|NAD e|NAD
	S018	B	Roofing Material - South Wing a|NAD i|NAD c|NAD d|NAD e|NAD
	S018	C	Roofing Material - South Wing a|NAD b|NAD c|NAD d|NAD e|NAD
	S019	A	Roofing Material - South Wing (South) a|NAD b|NAD
	S019	B	Roofing Material - South Wing (South) a|NAD b|NAD c|NAD d|NAD
	S019	C	Roofing Material - South Wing (South) a|NAD b|NAD c|NAD d|NAD

Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 40 CFR, Part 763, Subpart E, App.E

NVLAP Lab Code: 200664-0

Customer: Pinchin Ltd.
6-875 Main St West
Suite 200
Hamilton, Ontario L8S 4P9

Attn: Leslie Cantar

Project: 217420.03 St Peter's Hospital

Lab Order ID: 51821447
Analysis ID: 51821447_PLM
Date Received: 8/21/2018
Date Reported: 8/29/2018

Sample ID *Lab Sample ID*	Description *Lab Notes*	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes Treatment
2018-0001A *51821447PLM_1*	Mastic ONLY on vinyl floor tiles (12" x 12" beige with black and brown flecks), Elec *mastic only*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
2018-0001B *51821447PLM_2*	Mastic ONLY on vinyl floor tiles (12" x 12" beige with black and brown flecks), Stair *mastic only*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved
2018-0001C *51821447PLM_3*	Mastic ONLY on vinyl floor tiles (12" x 12" beige, black and brown flecks), Patient Lou *mastic only*	**None Detected**		**100% Other**	Yellow Non Fibrous Homogeneous Dissolved

Heather Davide (3)

Analyst

Approved Signatory

51821447

Version 1-15-2012

Client:	Pinchin Ltd.	***Instructions:***
Contact:	Leslie Cantar	*Use Column "B" for your contact info*
Address:	6-875 Main St W, Hamilton, ON	
Phone:	289.237.4294	*To See an Example Click the bottom Example Tab.*
Fax:	905.577.6207	
Email:	lcantar@pinchin.com	***Enter samples between "<<" and ">>"***
Project:	217420.03 St. Peter's Hospital samples. Perform gravimetric reduction on third vinyl floor tile if first	***Begin Samples with a "<< "above the first sample and end with a ">>" below the last sample.***
Client Notes:	two are ND.	*Only Enter your data on the first sheet "Sheet1"*
P.O. #.	217420.030 SPH	*Note: Data 1 and Data 2 are optional*
Date Submitted:	8/17/2018 0:00	*fields that do not show up on the official report, however they will be included*
Analysis:	PLM BULK EPA 600	*in the electronic data returned to you*
TurnAroundTime:	6+ Days	*to facilitate your reintegration of the report data.*

Invoice to:

ap@pinchin.com

ap@pinchin.com

Scientific Analytical Institute

4604 Dundas Dr.

Greensboro, NC 27407

Phone: 336.292.3888

Fax: 336.292.3313

Email: lab@sailab.com

Sample Number	Data 1 (Lab use only)	Sample Description	Data 2 (Lab use only)
<<			
2018-0001A		Mastic ONLY on vinyl floor tiles (12" x 12" beige with black and brown flecks), Elec Rm, Alexander, Lvl 1	
2018-0001B		Mastic ONLY on vinyl floor tiles (12" x 12" beige with black and brown flecks), Stairwell, Alexander, Lvl 1	
2018-0001C		Mastic ONLY on vinyl floor tiles (12" x 12" beige, black and brown flecks), Patient Lounge, Alexander, Lvl 1	
>>			

Accepted ☑

Rejected ☐

8-21 0:30

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name:	**Hamilton Health Sciences, St. Peter's Hospital, 88 Maplewood Ave, Hamilton, Ontario**		
Project No.:	**0217420.030**		
Prepared For:	**L. Cantar / M. Maiorana**		
		Date Received:	**August 21, 2018**
Lab Reference No.:	**b195242**	**Date Analyzed:**	**August 21, 2018**
Analyst(s):	**W. Mirza**	**# Samples submitted:**	**12**
		# Phases analyzed:	**13**

Method of Analysis:

EPA 600/R-93/116 - Method for the Determination of Asbestos in Bulk Building Materials dated July, 1993

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold (see chart below) indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

Provincial Jurisdiction	Regulatory Threshold	Provincial Jurisdiction	Regulatory Threshold
Ontario, British Columbia, Nova Scotia	0.5%	Alberta	Undefined
Quebec	0.1%	Saskatchewan	0.5% friable 1% non-friable
PEI, NWT, Yukon, Nunavut, Newfoundland and Labrador, and New Brunswick	1%	Manitoba	0.1% friable 1% non-friable

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

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This report relates only to the items tested.

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: **Hamilton Health Sciences, St. Peter's Hospital, 88 Maplewood Ave, Hamilton, Ontario**
Project No.: **0217420.030**
Prepared For: **L. Cantar / M. Maiorana**

Lab Reference No.: **b195242**
Date Analyzed: **August 21, 2018**

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
2018-0002A Outer Refractory - East Boiler - Basement Boiler House	Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
Comments:	Foam is present on the surface of this sample.		
2018-0002B Inner Refractory - West Boiler - Basement Boiler House	Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
2018-0002C Outer Refractory - West Boiler - Basement Boiler House	Homogeneous, grey, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%
2018-0003A Refractory Coating - East Boiler - Basement Boiler House	2 Phases: a) Homogeneous, grey, hard, cementitious material. b) Homogeneous, off-white, soft, cementitious material.	None Detected None Detected	Non-Fibrous Material > 75% Non-Fibrous Material > 75%
Comments:	Man-made vitreous fibres are present on the surface of this sample.		
2018-0003B Refractory Coating - West Boiler - Basement Boiler House	Homogeneous, off-white, soft, cementitious material.	None Detected	Non-Fibrous Material > 75%
Comments:	Man-made vitreous fibres are present on the surface of this sample.		
2018-0003C Refractory Coating - West Boiler - Basement Boiler House	Homogeneous, white, hard, cementitious material.	None Detected	Non-Fibrous Material > 75%

Pinchin Ltd. Asbestos Laboratory
Certificate of Analysis

Project Name: Hamilton Health Sciences, St. Peter's Hospital, 88 Maplewood Ave, Hamilton, Ontario
Project No.: 0217420.030
Prepared For: L. Cantar / M. Maiorana

Lab Reference No.: b195242
Date Analyzed: August 21, 2018

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
2018-0004A Textile Gasket - West Boiler - Basement Boiler House	Non-homogeneous, white and brown woven fabric.	None Detected	Man-made Vitreous Fibres > 75% Non-Fibrous Material 10-25%
2018-0004B Textile Gasket - West Boiler - Basement Boiler House	Non-homogeneous, white and brown woven fabric.	None Detected	Man-made Vitreous Fibres > 75% Non-Fibrous Material 10-25%
2018-0004C Textile Gasket - West Boiler - Basement Boiler House	Non-homogeneous, white and brown woven fabric.	None Detected	Man-made Vitreous Fibres > 75% Non-Fibrous Material 10-25%
2018-0005A Gasket - Back of West Boiler - Basement Boiler House	Homogeneous, black, gasket material.	None Detected	Non-Fibrous Material > 75%
2018-0005B Gasket - Back of West Boiler - Basement Boiler House	Homogeneous, black, gasket material.	None Detected	Non-Fibrous Material > 75%
2018-0005C Gasket - Back of West Boiler - Basement Boiler House	Homogeneous, black, gasket material.	None Detected	Non-Fibrous Material > 75%

Reviewed by: **Reporting Analyst:**

PINCHIN

MEMBER OF PG THE PINCHIN GROUP

Analyzed by: W.M

Reviewed by: KC

Report Sent by: EL

Instructions:

Pinchin Ltd. - Asbestos Laboratory
Internal Asbestos Bulk Sample Chain of Custody

Client Name:	Hamilton Health Sciences			**Project Address:**	88 Maplewood Ave, Hamilton, Ontario		
Portfolio/Building No:	St. Peter's Hospital			**Pinchin File:**	217420.03		
Submitted by:	Leslie Cantar			**Email:**	lcantar@pinchin.com		
CC Results to:	Michael Maiorana			**CC Email:**	mmaiorana@pinchin.com		
Invoice to:	Accounts Payable			**Invoice Email:**	ap@pinchin.com		
Date Submitted:	August	20	2018	**Required by:**	August	21	2018
# of Samples:	12			**Priority:**	Rush Turnaround		
Year of Building Construction (*Mandatory Field*):							
Do NOT Stop on Positive (Sample Numbers):							
Pinchin Group Company (*Mandatory Field*):					Select		

To be Completed by Lab Personnel Only:					
Lab Reference #:	b195242	**Time:**	24 hour clock		
Received by:	AUG 21 2018 EL	**Date:**	Month	Day	Year
Name(s) of Analyst(s):	W.M Aug. 21/18				

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
2018-	0002	A	Outer Refractory - East Boiler - Basement Boiler House ND
2018-	0002	B	Inner Refractory - West Boiler - Basement Boiler House ND
2018-	0002	C	Outer Refractory - West Boiler - Basement Boiler House ND
2018-	0003	A	Refractory Coating - East Boiler - Basement Boiler House a) ND b) ND
2018-	0003	B	Refractory Coating - West Boiler - Basement Boiler House ND

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
2018-	0003	C	Refractory Coating - West Boiler - Basement Boiler House ND
2018-	0004	A	Textile Gasket - West Boiler - Basement Boiler House ND
2018-	0004	B	Textile Gasket - West Boiler - Basement Boiler House ND
2018-	0004	C	Textile Gasket - West Boiler - Basement Boiler House ND
2018-	0005	A	Gasket - Back of West Boiler - Basement Boiler House ND
2018-	0005	B	Gasket - Back of West Boiler - Basement Boiler House ND
2018-	0005	C	Gasket - Back of West Boiler - Basement Boiler House ND

APPENDIX III

Data Tables

DATA TABLES OF ASBESTOS LOCATIONS
ST. PETER'S HOSPITAL

Steam Plant (Boiler Room)

Material	Locations	Approximate Quantity	ACM
Parging cement	Boiler Room, Diesel Generator Room, and Storage Rooms	40 EA	Chrysotile
Caulking	Exterior windows	All	Chrysotile

Steam Tunnel

Material	Locations	Approximate Quantity	ACM
Parging cement	Majority of pipe fittings	50 EA	Chrysotile
Sweatwrap insulation with parging cement	Northern end of tunnel	All	Chrysotile

Alexander Pavilion

Asbestos-containing materials were not identified in the Alexander Pavilion.

South Wing

Material	Locations	Approximate Quantity	ACM
Parging cement	Majority of pipe fittings	150 EA	Chrysotile
Aircell	Original heating lines throughout	600 LF	Chrysotile
Sweatwrap	Original cold water and drain pipe lines throughout	600 LF	Chrysotile

Plaster	Throughout the building. Plaster removed from ceiling in basement electrical / transformer room	All	Chrysotile
Paper in metal pan ceiling	Throughout the First, Second, and Third Floors, see drawings	5,000 SF	Chrysotile
VFT - 9"x9" Brown with White Streaks	Basement Mobile Equipment Rm. (S017)	500 SF	VFT - Chrysotile Mastic - Chrysotile
VFT - 12"x12" Flower Petal	Basement Nursing Storage Rm. (S008)	500 SF	VFT - Chrysotile Mastic - Chrysotile
VFT - 12"x12" Grey	Basement Central Sterile Supply (S007)	325 SF	VFT - Chrysotile Mastic - Non-Asbestos
VFT - 12"x12" While with Black Specks	Basement Central Sterile Supply (S007)	500 SF	VFT - Chrysotile Mastic - Non-Asbestos
VFT - 12"x12" Beige and Grey Streaks and Mastic	Corridors and Random Rooms	Not Estimated	VFT - Chrysotile Mastic - Presumed Asbestos
VFT - 12"x12" White and Beige Streaks and Mastic	Level 1 Corridor, Level 1 Reception, Washroom S104, Level 1 Room S112, Level 1 Short Hall, Level 1 Room S101, Level 1 Room S103	2,950 SF	VFT – Presumed Asbestos Mastic - Presumed Asbestos
Transite sheets	Ceiling above 24" x 48" lay-in ceiling tiles, Room S207	300 SF	Presumed asbestos
Brown caulking	Exterior window frames throughout	2,000 LF	Chrysotile
White caulking	Exterior door at stairwell	40 LF	Chrysotile
Window putty	Exterior at all windows	75 windows	Chrysotile
Caulking	Roof at parapet expansion joints	300 LF	Chrysotile

East and West Wings

Material	Locations	Approximate Quantity	ACM
Parging cement	Utility rooms	20 EA	Chrysotile
Drywall joint compound	All original walls and ceilings	All	Chrysotile
Vinyl floor tiles - 12" x 12" white with grey speck pattern	Basement corridors, locker rooms, and storage rooms, Level 1 Corridors near Kitchen, Second Level Therapeutic Recreation Room	All	Chrysotile (tile only)
Levelling compound	Second level, throughout	All	Chrysotile

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Template: Master Photo Appendix, HazMat, July 21, 2017

APPENDIX IV

ECOH Bulk Sampling Reports

ECOH
Environmental Consulting
Occupational Health

Hamilton Health Sciences Corporation
1200 Main Street West,
Hamilton, ON

May 12, 2017

Attention: **Mr. Corey LeGris**
Hazardous Materials Specialist | Facilities Management

Re: **Bulk Sample Analysis for Asbestos-containing Materials (ACMs)**
St. Peters Hospital – South, East and West Building, and Alexander Pavilion
88 Maplewood Avenue, Hamilton, Ontario
ECOH Project Number: 17429

ECOH Management Inc. (ECOH) was retained by Hamilton Health Sciences Corporation (HHSC) to provide environmental consulting services at the St. Peters Hospital (SPH) located at 88 Maplewood Avenue, Hamilton, Ontario. The following report documents the environmental consulting services provided by ECOH, which includes bulk sampling and analysis for asbestos content in various building materials (drywall joint compound and plaster walls and ceilings) throughout the South Building, East and West Wings, and Alexander Pavilion of the SPH. Ms. Brittanie Semper and Ms. Arianne Bohnert of ECOH were on-site March 30 and 31, 2017 to collect and submit bulk samples of various building materials for laboratory analysis to determine asbestos content.

All samples were submitted to the laboratory for analysis on April 12, 2017. The Certificate of Analysis for all sampling is provided at the end of the report. The sampling methodology and complete results of the sampling program are described herein.

Asbestos Bulk Sample Analysis:

As per the requirements of Ontario Regulation 278/05, multiple samples (ranging from 1 to 7 depending on quantity and type of material) are required to confirm the absence of asbestos. Sampling required a small volume of material to be removed either from a damaged section of suspect material or cut from intact material and then repaired, where practicable, by sealing with tape to prevent fibre release. The collected samples were placed in plastic bags and sealed during shipment to an independent laboratory. A formal chain of custody procedure was maintained between ECOH and the sub-contract laboratory during sample transport.

EMSL Canada, Inc. (EMSL), which is independent commercial laboratory, analyzed the bulk sample(s) collected. Analysis of these sample(s) occurred following the analytical method prescribed by *Ontario Regulation 278/05, Designated Substance – Regulation respecting Asbestos on Construction Projects and in Buildings and Repair Operations*. The analytical method prescribed is 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, using Polarized Light Microscopy (PLM). Although not required by provincial regulation, all laboratories used

by ECOH are accredited under the U.S. National Voluntary Laboratory Accreditation Program (NVLAP) to ensure consistent, accurate and defendable results.

Table 1 below indicates the sample collection information and results for bulk sampling.

TABLE 1
Summary of Bulk Samples

Sample Number	Location	Description	Asbestos Content
17429-SPH-S0-02A	South Building Basement Corridor	Plaster Wall – Skim Coat	None Detected
		Plaster Wall – Rough Coat	None Detected
17429-SPH-S0-02B	South Building Basement Corridor	Plaster Walls	None Detected
17429-SPH-S0-02C	South Building Basement Housekeeping Supply Stores	Plaster Wall – Skim Coat	None Detected
		Plaster Wall – Rough Coat	None Detected
17429-SPH-S0-02D	South Building Basement Elec./Transformer Rm.	Plaster Wall	None Detected
17429-SPH-S0-02E	South Building Basement Nursing Storage Rm.	Plaster Wall – Skim Coat	None Detected
		Plaster Wall – Rough Coat	None Detected
17429-SPH-S0-02F	South Building Basement Central Supply	Plaster Wall – Skim Coat	None Detected
		Plaster Wall – Skim Coat	None Detected
17429-SPH-S0-02G	**South Building Basement Food Services**	Plaster Wall – Skim Coat	None Detected
		Plaster Wall – Rough Coat	**1% Chrysotile**
17429-SPH-S0-06A	South Building Basement Housekeeping Supply Stores	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-SPH-S0-06B	South Building Basement House Keeping Supply Stores	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-SPH-S0-06C	South Building Basement Corridor	Plaster Ceiling	None Detected
17429-SPH-S0-06D	South Building Basement Storage	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-SPH-S0-06E	South Building Basement Corridor	Plaster Ceiling – Skim Coat	None Detected

TABLE 1
Summary of Bulk Samples

Sample Number	Location	Description	Asbestos Content
		Plaster Ceiling – Rough Coat	None Detected
17429-SPH-S0-06F	**South Building Basement Corridor**	**Plaster Ceiling – Skim Coat**	**1% Chrysotile**
		Plaster Ceiling – Rough Coat	None Detected
17429-SPH-S0-06G	**South Building Basement Storage**	**Plaster Ceiling**	**1% Chrysotile**
17429-SPH-S0-07A	South Building Basement Rm. S005	Ceiling Tile - 1'x1' Glue on Random Fissure Pattern	None Detected
17429-SPH-S0-07B	South Building Basement Rm. S005	Ceiling Tile - 1'x1' Glue on Random Fissure Pattern	None Detected
17429-SPH-S0-07C	South Building Basement Rm. S005	Ceiling Tile - 1'x1' Glue on Random Fissure Pattern	None Detected
17429-SPH-S1-02A	South Building First Floor Corridor	Plaster Wall	None Detected
17429-SPH-S1-02B	South Building First Floor Corridor	Plaster Wall	None Detected
17429-SPH-S1-02C	South Building First Floor Corridor	Plaster Wall	None Detected
17429-SPH-S1-02D	South Building First Floor Corridor	Plaster Wall	None Detected
17429-SPH-S1-02E	**South Building First Floor Corridor**	**Plaster Wall – Skim Coat**	**1% Chrysotile**
		Plaster Wall – Rough Coat	**1% Chrysotile**
17429-SPH-S1-02F	**South Building First Floor Corridor**	**Plaster Wall – Skim Coat**	**1% Chrysotile**
		Plaster Wall – Rough Coat	**<0.25% Chrysotile**
17429-SPH-S1-02G	**South Building First Floor Storage**	**Plaster Wall**	**1% Chrysotile**
17429-SPH-S1-06A	South Building First Floor Corridor	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-SPH-S1-06B	South Building First Floor Corridor	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected

TABLE 1
Summary of Bulk Samples

Sample Number	Location	Description	Asbestos Content
17429-SPH-S1-06C	South Building First Floor Corridor	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	None Detected
17429-SPH-S1-06D	South Building First Floor Corridor	Plaster Ceiling	None Detected
17429-SPH-S1-06E	**South Building First Floor Corridor**	**Plaster Ceiling – Skim Coat**	**1% Chrysotile**
		Plaster Ceiling – Rough Coat	None Detected
17429-SPH-S1-06F	**South Building First Floor Corridor**	Plaster Ceiling – Skim Coat	None Detected
		Plaster Ceiling – Rough Coat	**1% Chrysotile**
17429-SPH-S1-06G	**South Building First Floor Corridor**	**Plaster Ceiling – Skim Coat**	**1% Chrysotile**
		Plaster Ceiling – Rough Coat	None Detected
17429-SPH-S2-02A	South Building Second Floor Sunroom	Plaster Wall – Skim Coat	None Detected
		Plaster Wall – Rough Coat	None Detected
17429-SPH-S2-02B	South Building Second Floor Corridor	Plaster Wall	None Detected
17429-SPH-S2-02C	South Building Second Floor Walker Storage Rm.	Plaster Wall	None Detected
17429-SPH-S2-02D	South Building Second Floor Shower Rm.	Plaster Wall	None Detected
17429-SPH-S2-02E	**South Building Second Floor Nursing Station**	**Plaster Wall**	**1% Chrysotile**
17429-SPH-S2-02F	South Building Second Floor Complex Care	Plaster Wall	None Detected
17429-SPH-S2-02G	South Building Second Floor Corridor	Plaster Wall	None Detected
17429-SPH-S2-06A	South Building Second Floor Washroom	Plaster Ceiling	None Detected
17429-SPH-S2-06B	South Building Second Floor Nursing Station	Plaster Ceiling	None Detected
17429-SPH-S2-06C	South Building Second Floor Nursing Station	Plaster Ceiling	None Detected

TABLE 1
Summary of Bulk Samples

Sample Number	Location	Description	Asbestos Content
17429-SPH-S2-06D	South Building Second Floor Storage Closet	Plaster Ceiling	None Detected
17429-SPH-S2-06E	South Building Second Floor Storage Closer	Plaster Ceiling	None Detected
17429-SPH-S2-06F	South Building Second Floor Whirlpool Rm.	Plaster Ceiling	None Detected
17429-SPH-S2-06G	South Building Second Floor Whirlpool Rm.	Plaster Ceiling	None Detected
17429-SPH-S3-02A	South Building Third Floor Sunroom	Plaster Wall	None Detected
17429-SPH-S3-02B	South Building Third Floor Wheelchair Storage	Plaster Wall	None Detected
17429-SPH-S3-02C	South Building Third Floor Patient Washroom	Plaster Wall	None Detected
17429-SPH-S3-02D	South Building Third Floor Corridor	Plaster Wall	None Detected
17429-SPH-S3-02E	South Building Third Floor Dirty Utility Rm.	Plaster Wall	None Detected
17429-SPH-S3-02F	South Building Third Floor Wheelchair Storage	Plaster Wall	None Detected
17429-SPH-S3-02G	South Building Third Floor Corridor	Plaster Wall	None Detected
17429-SPH-S3-06A	South Building Third Floor Washroom	Plaster Ceiling	None Detected
17429-SPH-S3-06B	South Building Third Floor Patient Washroom	Plaster Ceiling	None Detected
17429-SPH-S3-06C	South Building Third Floor Patient Washroom	Plaster Ceiling	None Detected
17429-SPH-S3-06D	South Building Third Floor Oxygen Supply Closet	Plaster Ceiling	None Detected
17429-SPH-S3-06E	South Building Third Floor Oxygen Supply Closet	Plaster Ceiling	None Detected
17429-SPH-S3-06F	South Building Third Floor Housekeeping Closet	Plaster Ceiling	None Detected
17429-SPH-S3-06G	South Building Third Floor Housekeeping Closet	Plaster Ceiling	None Detected
17429-SPH-ALEX1-01A	Alexander Pavilion First Floor Southwest Entrance Vestibule	Drywall Joint Compound Wall	None Detected

TABLE 1
Summary of Bulk Samples

Sample Number	Location	Description	Asbestos Content
17429-SPH-ALEX1-01B	Alexander Pavilion First Floor Southwest Entrance Vestibule	Drywall Joint Compound Wall	None Detected
17429-SPH-ALEX1-01C	Alexander Pavilion First Floor Women's Washroom	Drywall Joint Compound Wall	None Detected
17429-SPH-ALEX1-01D	Alexander Pavilion First Floor Office Wall	Drywall Joint Compound Wall	None Detected
17429-SPH-ALEX1-01E	Alexander Pavilion First Floor Waiting Area	Drywall Joint Compound Wall	None Detected
17429-SPH-ALEX1-01F	Alexander Pavilion First Floor Wall Corridor	Drywall Joint Compound Wall	None Detected
17429-SPH-ALEX1-01G	Alexander Pavilion First Floor Wall Corridor	Drywall Joint Compound Wall	None Detected
17429-SPH-ALEX1-05A	Alexander Pavilion First Floor Ceiling Office	Drywall Joint Compound Ceiling	None Detected
17429-SPH-ALEX1-05B	Alexander Pavilion First Floor Elevator Lobby	Drywall Joint Compound Ceiling	None Detected
17429-SPH-ALEX1-05C	Alexander Pavilion First Floor Corridor	Drywall Joint Compound Ceiling	None Detected
17429-SPH-ALEX1-05D	Alexander Pavilion First Floor Corridor	Drywall Joint Compound Ceiling	None Detected
17429-SPH-ALEX1-05E	Alexander Pavilion First Floor Corridor	Drywall Joint Compound Ceiling	None Detected
17429-SPH-ALEX2-01A	Alexander Pavilion Second Floor Corridor	Drywall Joint Compound Wall	None Detected
17429-SPH-ALEX2-01B	Alexander Pavilion Second Floor Corridor	Drywall Joint Compound Wall	None Detected
17429-SPH-ALEX2-01C	Alexander Pavilion Second Floor Corridor	Drywall Joint Compound Wall	None Detected
17429-SPH-ALEX2-01D	Alexander Pavilion Second Floor Corridor	Drywall Joint Compound Wall	None Detected
17429-SPH-ALEX2-01E	Alexander Pavilion Second Floor Corridor	Drywall Joint Compound Wall	None Detected
17429-SPH-EW0-01A	**East & West Wing Basement Stores**	**Drywall Joint Compound Wall**	**3% Chrysotile**
17429-SPH-EW0-01B	East & West Wing Basement Human Resources	Drywall Joint Compound Wall	None Detected
17429-SPH-EW0-01C	East & West Wing Basement Office	Drywall Joint Compound Wall	None Detected

TABLE 1
Summary of Bulk Samples

Sample Number	Location	Description	Asbestos Content
17429-SPH-EW0-01D	**East & West Wing Basement Library/Conference Rm.**	**Drywall Joint Compound Wall**	**2% Chrysotile**
17429-SPH-EW0-01E	East & West Wing Basement Fire Mechanical Rm.	Drywall Joint Compound Wall	None Detected
17429-SPH-EW0-01F	**East & West Wing Basement Printer Rm.**	**Drywall Joint Compound Wall**	**2% Chrysotile**
17429-SPH-EW0-01G	**East & West Wing Basement Classroom "B"**	**Drywall Joint Compound Wall**	**0.50% Chrysotile**
17429-SPH-EW0-04A	East & West Wing Basement IT Rm.	Joint Compound	None Detected
		Ceiling Tile - 2'x4' Starfleck with Pinhole	None Detected
17429-SPH-EW0-04B	East & West Wing Basement IT Rm.	Joint Compound	None Detected
		Ceiling Tile - 2'x4' Starfleck with Pinhole	None Detected
17429-SPH-EW0-04C	East & West Wing Basement IT Rm.	Joint Compound	None Detected
		Ceiling Tile - 2'x4' Starfleck with Pinhole	None Detected
17249-SPH-EW0-05A	**East & West Wing Basement Men's Washroom**	**Drywall Joint Compound Ceiling**	**2% Chrysotile**
17249-SPH-EW0-05B	**East & West Wing Basement Men's Washroom**	**Drywall Joint Compound Ceiling**	**3% Chrysotile**
17249-SPH-EW0-05C	**East & West Wing Basement Women's Washroom**	**Drywall Joint Compound Ceiling**	**4% Chrysotile**
17249-SPH-EW0-05D	**East & West Wing Basement Women's Washroom**	**Drywall Joint Compound Ceiling**	**3% Chrysotile**
17249-SPH-EW0-05E	**East & West Wing Basement Women's Washroom**	**Drywall Joint Compound Ceiling**	**4% Chrysotile**
17429-SPH-EW1-01A	East & West Wing First Floor Cold Prep. Area	Drywall Joint Compound Wall	None Detected
17429-SPH-EW1-01B	East & West Wing First Floor Corridor	Drywall Joint Compound Wall	None Detected

TABLE 1
Summary of Bulk Samples

Sample Number	Location	Description	Asbestos Content
17429-SPH-EW1-01C	**East & West Wing First Floor Easy Street**	**Drywall Joint Compound Wall**	**2% Chrysotile**
17429-SPH-EW1-01D	**East & West Wing First Floor Easy Street**	**Drywall Joint Compound Wall**	**2% Chrysotile**
17429-SPH-EW1-01E	**East & West Wing First Floor Entrance Foyer**	**Drywall Joint Compound Wall**	**4% Chrysotile**
17429-SPH-EW1-01F	**East & West Wing First Floor Corridor**	**Drywall Joint Compound Wall**	**3% Chrysotile**
17429-SPH-EW1-01G	**East & West Wing First Floor Recreation Rm. Easy Street**	**Drywall Joint Compound Wall**	**5% Chrysotile**
17429-SPH-EW1-03A	East & West Wing First Floor Recreation Rm. Easy Street	Coating	None Detected
		Ceiling Tile - 1'x2' Glue on Large Fissure Pattern	None Detected
17429-SPH-EW1-03B	East & West Wing First Floor Recreation Rm. Easy Street	Coating	None Detected
		Ceiling Tile - 1'x2' Glue on Large Fissure Pattern	None Detected
17429-SPH-EW1-03C	East & West Wing First Floor Recreation Rm. Easy Street	Coating	None Detected
		Ceiling Tile - 1'x2' Glue on Large Fissure Pattern	None Detected
17429-SPH-EW1-05A	East & West Wing First Floor Easy Street Entrance	Drywall Joint Compound Ceiling	None Detected
17429-SPH-EW1-05B	East & West Wing First Floor Easy Street Entrance	Drywall Joint Compound Ceiling	None Detected
17429-SPH-EW1-05C	East & West Wing First Floor Easy Street	Drywall Joint Compound Ceiling	None Detected
17429-SPH-EW1-05D	**East & West Wing First Floor Corridor**	**Drywall Joint Compound Ceiling**	**0.75% Chrysotile**
17429-SPH-EW1-05E	**East & West Wing First Floor Corridor**	**Drywall Joint Compound Ceiling**	**2% Chrysotile**
17429-SPH-EW1-05F	**East & West Wing First Floor Corridor**	**Drywall Joint Compound Ceiling**	**2% Chrysotile**
17429-SPH-EW1-05G	**East & West Wing First Floor Corridor**	**Drywall Joint Compound Ceiling**	**<0.25% Chrysotile**
17429-SPH-EW2-01A	**East & West Wing Second Floor Corridor**	**Drywall Joint Compound Wall**	**2% Chrysotile**
17429-SPH-EW2-01B	East & West Wing Second Floor Corridor	Drywall Joint Compound Wall	None Detected

TABLE 1
Summary of Bulk Samples

Sample Number	Location	Description	Asbestos Content
17429-SPH-EW2-01C	**East & West Wing Second Floor Corridor**	**Drywall Joint Compound Wall**	**0.50% Chrysotile**
17429-SPH-EW2-01D	East & West Wing Second Floor Corridor	Drywall Joint Compound Wall	None Detected
17429-SPH-EW2-01E	East & West Wing Second Floor Corridor	Drywall Joint Compound Wall	None Detected
17429-SPH-EW2-01F	East & West Wing Second Floor Bathing Rm.	Drywall Joint Compound Wall	None Detected
17429-SPH-EW2-01G	**East & West Wing Second Floor Corridor**	**Drywall Joint Compound Wall**	**1% Chrysotile**
17429-SPH-EW2-05A	East & West Wing Second Floor Corridor	Drywall Joint Compound Ceiling	None Detected
17429-SPH-EW2-05B	East & West Wing Second Floor Corridor	Drywall Joint Compound Ceiling	None Detected
17429-SPH-EW2-05C	East & West Wing Second Floor Conference Rm.	Drywall Joint Compound Ceiling	None Detected
17429-SPH-EW2-05D	East & West Wing Second Floor Bathing Rm.	Drywall Joint Compound Ceiling	None Detected
17429-SPH-EW2-05E	East & West Wing Second Floor Corridor	Drywall Joint Compound Ceiling	None Detected
17429-SPH-EW2-05F	**East & West Wing Second Floor Patient Lounge**	**Drywall Joint Compound Ceiling**	**3% Chrysotile**
17429-SPH-EW2-05G	**East & West Wing Second Floor Patient Lounge**	**Drywall Joint Compound Ceiling**	**2% Chrysotile**
17429-SPH-EW3-01A	**East & West Wing Third Floor Corridor**	**Drywall Joint Compound Wall**	**3% Chrysotile**
17429-SPH-EW3-01B	**East & West Wing Third Floor Corridor**	**Drywall Joint Compound Wall**	**3% Chrysotile**
17429-SPH-EW3-01C	East & West Wing Third Floor Corridor	Drywall Joint Compound Wall	None Detected
17429-SPH-EW3-01D	**East & West Wing Third Floor Corridor**	**Drywall Joint Compound Wall**	**3% Chrysotile**
17429-SPH-EW3-01E	East & West Wing Third Floor Utility Rm.	Drywall Joint Compound Wall	None Detected
17429-SPH-EW3-01F	**East & West Wing Third Floor Therapeutic Rm.**	**Drywall Joint Compound Wall**	**2% Chrysotile**
17429-SPH-EW3-01G	**East & West Wing Third Floor Laundry Rm.**	**Drywall Joint Compound Wall**	**3% Chrysotile**

TABLE 1
Summary of Bulk Samples

Sample Number	Location	Description	Asbestos Content
17429-SPH-EW3-05A	**East & West Wing Third Floor Corridor**	**Drywall Joint Compound Ceiling**	**3% Chrysotile**
17429-SPH-EW3-05B	**East & West Wing Third Floor Corridor**	**Drywall Joint Compound Ceiling**	**0.50% Chrysotile**
17429-SPH-EW3-05C	**East & West Wing Third Floor Corridor**	**Drywall Joint Compound Ceiling**	**2% Chrysotile**
17429-SPH-EW3-05D	**East & West Wing Third Floor Staff Rm.**	**Drywall Joint Compound Ceiling**	**2% Chrysotile**
17429-SPH-EW3-05E	East & West Wing Third Floor Utility Rm.	Drywall Joint Compound Ceiling	None Detected
17429-SPH-EW3-05F	**East & West Wing Third Floor Staff Washroom**	**Drywall Joint Compound Ceiling**	**3% Chrysotile**
17429-SPH-EW3-05G	**East & West Wing Third Floor Corridor**	**Drywall Joint Compound Ceiling**	**4% Chrysotile**
17429-SPH-EW4-01A	**East & West Wing Fourth Floor Corridor**	**Drywall Joint Compound Wall**	**0.50% Chrysotile**
17429-SPH-EW4-01B	East & West Wing Fourth Floor Corridor	Drywall Joint Compound Wall	None Detected
17429-SPH-EW4-01C	**East & West Wing Fourth Floor Corridor**	**Drywall Joint Compound Wall**	**3% Chrysotile**
17429-SPH-EW4-01D	**East & West Wing Fourth Floor Corridor**	**Drywall Joint Compound Wall**	**2% Chrysotile**
17429-SPH-EW4-01E	**East & West Wing Fourth Floor W401 Washroom**	**Drywall Joint Compound Wall**	**3% Chrysotile**
17429-SPH-EW4-01F	**East & West Wing Fourth Floor Corridor**	**Drywall Joint Compound Wall**	**2% Chrysotile**
17429-SPH-EW4-01G	East & West Wing Fourth Floor Corridor	Drywall Joint Compound Wall	None Detected
17429-SPH-EW4-05A	**East & West Wing Fourth Floor Washroom**	**Drywall Joint Compound Ceiling**	**2% Chrysotile**
17429-SPH-EW4-05B	East & West Wing Fourth Floor Therapeutic Rec. Rm.	Drywall Joint Compound Ceiling	None Detected
17429-SPH-EW4-05C	East & West Wing Fourth Floor Linen Closet	Drywall Joint Compound Ceiling	None Detected
17429-SPH-EW4-05D	East & West Wing Fourth Floor Corridor	Drywall Joint Compound Ceiling	None Detected

TABLE 1 Summary of Bulk Samples			
Sample Number	**Location**	**Description**	**Asbestos Content**
17429-SPH-EW4-05E	**East & West Wing Fourth Floor Therapeutic Rec. Rm.**	**Drywall Joint Compound Ceiling**	**3% Chrysotile**
17429-SPH-EW4-05F	**East & West Wing Fourth Floor Corridor**	**Drywall Joint Compound Ceiling**	**3% Chrysotile**
17429-SPH-EW4-05G	**East & West Wing Fourth Floor Corridor**	**Drywall Joint Compound Ceiling**	**0.75% Chrysotile**
	- shading indicates sample result positive for asbestos (if applicable)		

Observations and Findings:

The areas of investigation included primary wall and ceiling finishes (drywall joint compound and plaster) throughout the South Building, East and West Wings, and Alexander Pavilion of the SPH. General site conditions, bulk sampling and asbestos-related information consist of the following:

1. Samples of plaster and drywall joint compound applied to gypsum board (drywall) "primary" walls and ceilings (i.e. walls and ceilings that are exposed and accessible without demolition) were collected to supplement previous sampling, as follows:

   South Building

   i. Asbestos-containing plaster was identified as wall and ceiling finishes within the South Building Level 0 through to Level 3 during an assessment conducted by Pinchin Environmental Ltd. in May 2015.

   ii. A total of twenty-eight (28) samples of plaster (wall), seven (7) samples per level, were collected from various locations throughout the South Building (samples 17429-SPH-S0-02A through 17429-S3-02G). Laboratory analysis identified asbestos-content (<0.25% - 1% Chrysotile) in skim coat and rough plaster layers of five (5) samples (17429-SPH-S0-02G, 17429-S1-02E-G, 17429-S2-02E).

   iii. A total of twenty-eight (28) samples of plaster (ceiling), seven (7) samples per level, were collected from various locations throughout the South Building (samples 17429-SPH-S0-06A through 17429-S3-06G). Laboratory analysis identified asbestos-content (1% Chrysotile) in skim coat and rough plaster layers of five (5) samples (17429-SPH-S0-06F-G, 17429-SPH-S1-06-E-G).

iv. One (1) previously collected sample of glue-on ceiling tiles (1'x 1' Glue-on Ceiling Tile with Random Fissure Pattern) found in the Basement Location S005 and S005A of the South Building was identified as asbestos-containing and determined to contain less than <0.50% Amosite asbestos.

v. A total of three (3) samples of glue-on ceiling tiles (1'x 1' Glue-on Ceiling Tile with Random Fissure Pattern) were collected from the S005A (Basement Level) of the South Building (samples 17429-SPH-S0-07A-C). Laboratory analysis determined the sampled material does not contain asbestos.

Alexander Pavilion

i. Interior partition walls containing drywall joint compound were sampled as part of the annual reassessment conducted by Pinchin Environmental Ltd. in May 2015. Sampling confirmed the joint compound to be non-asbestos. Drywall walls with asbestos-containing drywall joint compound were noted to possibly remain around the perimeter of the northern portion of the Alexander Pavilion as noted in the 2016 annual reassessment conducted by ECOH Management Inc.

ii. A total of twelve (12) samples of drywall joint compound (wall), five-to-seven (5-7) samples per level, were collected from the exterior perimeter of Level 1, and from various locations throughout Level 2 of the Alexander Pavilion (samples 17429-SPH-ALEX1-01A through 17429-SPH-ALEX2-01E). Laboratory analysis determined this material does not contain asbestos.

iii. A total of five (5) samples of drywall joint compound (ceiling) were collected from various locations throughout the exterior perimeter of Level 1 of the Alexander Pavilion (samples 17429-SPH-ALEX1-05A-E). Laboratory analysis determined this material does not contain asbestos.

East & West Wing

i. Asbestos-containing drywall joint compound was identified as wall and ceiling finishes within the East and West Wing Level 0 through to Level 4 during an assessment conducted by Pinchin Environmental Ltd. in May 2015.

ii. A total of thirty-five (35) samples of drywall joint compound (wall), seven (7) samples per level, were collected from various locations throughout the East and West Wings (samples 17429-SPH-EW0-01A through 17429-SPH-EW4-01G). Laboratory analysis identified asbestos-content (<0.50% - 5% Chrysotile) in the joint compound of twenty-two (22) samples (17429-SPH-EW0-01A, 17429-SPH-EW0-01D, 17429-SPH-EW0-01F-G; 17429-SPH-EW1-01C-G; 17429-SPH-EW2-01A, 17429-SPH-EW2-01C, 17429-SPH-EW2-01G; 17429-SPH-EW3-01A-B, 17429-SPH-EW3-01D, 17429-SPH-EW3-01F-G; 17429-SPH-EW4-01A, 17429-SPH-EW4-01C-F).

iii. A total of thirty-three (33) samples of drywall joint compound (ceiling), five-to-seven (5-7) samples per level, were collected from various locations throughout the East and West Wings (samples 17429-SPH-EW0-05A through 17429-SPH-EW4-05G). Laboratory analysis identified asbestos-content (<0.25% - 4% Chrysotile) in the joint compound of twenty (20) samples (17429-SPH-EW0-05A-E; 17429-SPH-EW1-05D-F; 17429-SPH-EW2-05F-G; 17429-SPH-EW3-05A-D, 17429-SPH-05F-G; 17429-SPH-EW4-05A, 17429-SPH-EW4-05E-G).

iv. A total of six (6) samples of ceiling tiles, three (3) samples per location, were collected from the Basement IT Room (Level 0) and the Easy Street Recreation Room (Level 1) of the East and West Wing (samples 17429-SPH-EW0-04A-C and 17429-SPH-EW1-03A-C). Laboratory analysis determined this material does not contain asbestos.

Discussion of Results and Recommendations:

Based on the analytical results and on-site observations, ECOH offers the following recommendations for your consideration. The recommendations meet requirements of Designated Substance – Regulation respecting Asbestos on Construction Projects and in Buildings and Repair Operations, Ontario Regulation 278/05.

- As asbestos-containing materials are confirmed and/or assumed to be present within the facility, the policies and procedures as outlined in the Asbestos Management Program (AMP) should continue to be implemented. Reassessment of the condition of ACM should be conducted by a knowledgeable person annually (at a minimum).
- **Plaster walls and ceilings throughout all levels (Level 0 through Level 3) of the South Building are confirmed to be asbestos-containing (Chrysotile asbestos)**. Note: the lower section of walls throughout the South Building was identified as Terrazzo (from floor to approx. 3' in height) which would not be expected to contain asbestos.
- **Drywall joint compound applied to drywall walls and ceilings throughout all levels (Level 0 through Level 4) of the East and West Wing are confirmed to be asbestos-containing (Chrysotile asbestos)**.
- Drywall walls and ceilings throughout all levels (Level 1 and Level 2) of the Alexander Pavilion are non-asbestos-containing based on results of bulk sampling and previously conducted assessments.
- Materials previously identified to contain "trace" concentrations of asbestos (i.e. less than the regulatory threshold of 0.5% or greater for an asbestos-containing material), including 1'x 1' glue-on ceiling tile with random fissure pattern in the Basement Location S005 and S005A of the South Building, can be assumed to be non-asbestos for management purposes.

However, additional sampling and investigation should be undertaken prior to work to supplement previous sampling and to confirm asbestos-content of these materials.

- Prior to renovations, maintenance work or building demolition, consideration should be given to sampling materials that may not have been previously sampled. Also, additional sampling and investigation may be required prior to renovations, maintenance work or building demolition to ensure that concealed conditions are assessed and project-specific requirements for asbestos sampling are in compliance with Section 30 of the Ontario Occupational Health and Safety Act (OHSA) and Ontario Regulation 278/05. As an alternative to sampling, suspect materials they may be assumed to contain asbestos.
- Removal or disturbance of materials confirmed to be non-asbestos does not require asbestos safety precautions but should employ general health and safety precautions that may include dust suppression methods.
- Workers who are likely to disturb the materials listed above must be informed that such materials may contain asbestos and that asbestos precautions may be required. Removal of known or assumed ACM must be conducted in accordance with all applicable regulations and the Asbestos Management Plan (AMP).

Please refer to the accompanying Certificates of Analysis from EMSL Scientific Inc. Laboratory to confirm the above-noted analytical results and for further details regarding the composition of the sample(s). For your records, the Chain of Custody and Certificate of Analysis for all sampling are attached.

Limitations:

The observations, results and conclusions drawn by ECOH Management Inc. (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 Client. 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 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 Project 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.

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 Management Inc. retains the right to review this information and modify conclusions and recommendations presented in this report accordingly.

Should you have any questions, please do not hesitate to contact us at (905) 795-2800.

Sincerely,

ECOH
Environmental Consulting
Occupational Health

Prepared By:

Arianne Bohnert B.A.(Env.)
Environmental Scientist

Reviewed By:

Brian Edwardson, M.S., B.Sc.(Env.)
Senior Project Manager

Attachment 1: Certificate of Analysis
Attachment 2: Drawings – Asbestos Bulk Sample Locations

ATTACHMENT 1

CERTIFICATE OF ANALYSIS

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4
Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order:	551704004
Customer ID:	55ECOH45
Customer PO:	17429-SPH
Project ID:	

Attention:	Brittanie Semper	**Phone:**	(905) 795-2800
	ECOH Management, Inc.	**Fax:**	(905) 795-2870
	75 Courtneypark Drive West	**Received Date:**	04/12/2017 5:00 PM
	Unit 1	**Analysis Date:**	04/19/2017
	Mississauga, ON L5W 0E3	**Collected Date:**	03/30/2017
Project:	17429-SPH St. Peter's SOUTH BUILDING		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-S0-02A-Skim Coat *551704004-0001*	Plaster Wall Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02A-Rough Coat *551704004-0001A*	Plaster Wall Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02B *551704004-0002* *Inseperable layers*	Plaster Wall Supply Rm.	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02C-Skim Coat *551704004-0003*	Plaster Wall Housekeeping Supply Stores	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02C-Rough Coat *551704004-0003A*	Plaster Wall Housekeeping Supply Stores	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02D *551704004-0004* *Inseperable layers*	Plaster Wall Elec/Transformer Rm.	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02E-Skim Coat *551704004-0005*	Plaster Wall Nursing Storage Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02E-Rough Coat *551704004-0005A*	Plaster Wall Nursing Storage Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02F-Skim Coat *551704004-0006*	Plaster Wall Central Supply	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02F-Rough Coat *551704004-0006A*	Plaster Wall Central Supply	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02G-Skim Coat *551704004-0007*	Plaster Wall Food Services	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02G-Rough Coat *551704004-0007A*	Plaster Wall Food Services	Gray Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile

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2756 Slough Street Mississauga, ON L9T 5N4
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http://www.EMSL.com / torontolab@emsl.com

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Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-S0-06A-Skim Coat *551704004-0008*	Plaster Ceiling House Keeping Supply Stores	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06A-Rough Coat *551704004-0008A*	Plaster Ceiling House Keeping Supply Stores	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06B-Skim Coat *551704004-0009*	Plaster Ceiling House Keeping Supply Stores	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06B-Rough Coat *551704004-0009A*	Plaster Ceiling House Keeping Supply Stores	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06C *551704004-0010* *Inseperable layers*	Plaster Ceiling Corridor	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06D-Skim Coat *551704004-0011*	Plaster Ceiling Storage	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06D-Rough Coat *551704004-0011A*	Plaster Ceiling Storage	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06E-Skim Coat *551704004-0012*	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06E-Rough Coat *551704004-0012A*	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06F-Skim Coat *551704004-0013*	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S0-06F-Rough Coat *551704004-0013A*	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06G *551704004-0014*	Plaster Ceiling Storage	Gray Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S0-07A *551704004-0015*	1'x1' Glue on CT Random Fissure Pattern Basement S005	Gray Fibrous Homogeneous	25% Cellulose 40% Min. Wool	35% Non-fibrous (Other)	None Detected
17429-SPH-S0-07B *551704004-0016*	1'x1' Glue on CT Random Fissure Pattern Basement S005	Gray Fibrous Homogeneous	35% Cellulose 40% Min. Wool	25% Non-fibrous (Other)	None Detected
17429-SPH-S0-07C *551704004-0017*	1'x1' Glue on CT Random Fissure Pattern Basement S005	Gray Fibrous Homogeneous	70% Min. Wool	30% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-S1-02A *551704004-0018* *Inseperable layers*	Plaster Wall Corridor	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-02B *551704004-0019* *Inseperable layers*	Plaster Wall Corridor	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-02C *551704004-0020* *Inseperable layers*	Plaster Wall Corridor	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-02D *551704004-0021* *Inseperable layers*	Plaster Wall Corridor	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-02E-Skim Coat *551704004-0022*	Plaster Wall Corridor	White Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S1-02E-Rough Coat *551704004-0022A*	Plaster Wall Corridor	Gray Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S1-02F-Skim Coat *551704004-0023*	Plaster Wall Corridor	White Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S1-02F-Rough Coat *551704004-0023A*	Plaster Wall Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
17429-SPH-S1-02G *551704004-0024* *Inseparable layers*	Plaster Wall Storage	Gray/White Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S1-06A-Skim Coat *551704004-0025*	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-06A-Rough Coat *551704004-0025A*	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-06B-Skim Coat *551704004-0026*	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-06B-Rough Coat *551704004-0026A*	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-06C-Skim Coat *551704004-0027*	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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2756 Slough Street Mississauga, ON L9T 5N4
Tel/Fax: (289) 997-4602 / (289) 997-4607
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-S1-06C-Rough Coat *551704004-0027A*	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-06D *551704004-0028* *Inseperable layers*	Plaster Ceiling Corridor	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-06E-Skim Coat *551704004-0029*	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S1-06E-Rough Coat *551704004-0029A*	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-06F-Skim Coat *551704004-0030*	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S1-06F-Rough Coat *551704004-0030A*	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-06G-Skim Coat *551704004-0031*	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S1-06G-Rough Coat *551704004-0031A*	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-02A-Skim Coat *551704004-0032*	Plaster Wall Sunroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-02A-Rough Coat *551704004-0032A*	Plaster Wall Sunroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-02B *551704004-0033* *Inseperable layers*	Plaster Wall Corridor	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-02C *551704004-0034*	Plaster Wall Walker Storage Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-02D *551704004-0035* *Inseperable layers*	Plaster Wall Shower Rm.	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-02E *551704004-0036* *inseparable layers*	Plaster Wall Nursing Station	Gray/White Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S2-02F *551704004-0037*	Plaster Wall Complex Care	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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http://www.EMSL.com / torontolab@emsl.com

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Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-S2-02G *551704004-0038* *inseparable layers*	Plaster Wall Corridor	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-06A *551704004-0039*	Plaster Ceiling Washroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-06B *551704004-0040* *Inseperable layers*	Plaster Ceiling Nursing Station	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-06C *551704004-0041* *Inseperable layers*	Plaster Ceiling Nursing Station	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-06D *551704004-0042* *Inseperable layers*	Plaster Ceiling Storage Closet	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-06E *551704004-0043* *Inseparable layers*	Plaster Ceiling Storage Closet	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-06F *551704004-0044* *Inseparable layers*	Plaster Ceiling Whirlpool Rm.	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-06G *551704004-0045* *Inseparable layers*	Plaster Ceiling Whirlpool Rm.	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-02A *551704004-0046*	Plaster Wall Sunroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-02B *551704004-0047*	Plaster Wall Wheelchair Storage	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-02C *551704004-0048* *Inseperable layers*	Plaster Wall Patient Washroom	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-02D *551704004-0049* *Inseperable layers*	Plaster Wall Corridor	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-02E *551704004-0050*	Plaster Wall Dirty Utility Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-02F *551704004-0051*	Plaster Wall Wheelchair Storage	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-02G *551704004-0052*	Plaster Wall Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-06A *551704004-0053*	Plaster Ceiling Washroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order:	551704004
Customer ID:	55ECOH45
Customer PO:	17429-SPH
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-S3-06B *551704004-0054*	Plaster Ceiling Patient Washroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-06C *551704004-0055*	Plaster Ceiling Patient Washroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-06D *551704004-0056*	Plaster Ceiling Oxygen Supply Closet	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-06E *551704004-0057*	Plaster Ceiling Oxygen Supply Closet	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-06F *551704004-0058*	Plaster Ceiling Housekeeping Closet	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-06G *551704004-0059*	Plaster Ceiling Housekeeping Closet	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

John Biesiadecki (35)
Natalie D'Amico (43)

Matthew Davis
or Other Approved Signatory

Initial report from: 04/19/2017 21:19:16

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4
Phone/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order:	551704004
Customer ID:	55ECOH45
Customer PO:	17429-SPH
Project ID:	

Attention:	Brittanie Semper ECOH Management, Inc. 75 Courtneypark Drive West Unit 1 Mississauga, ON L5W 0E3	**Phone:**	(905) 795-2800
		Fax:	(905) 795-2870
		Received:	04/12/2017 5:00 PM
		Analysis Date:	04/19/2017
		Collected:	03/30/2017
Project:	17429-SPH St. Peter's SOUTH BUILDING		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-S1-02F- Rough Coat *551704004-0023A*	Plaster Wall Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**<0.25% Chrysotile**

Analyst(s)

John Biesiadecki (1)

Matthew Davis
or other approved signatory

Disclaimer:Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government . EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis.The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Canada Inc. Mississauga, ON NVLAP Lab Code 200877-0

Report amended: 05/02/2017 12:10:43 Replaces initial report from: 04/19/2017 21:19:37 Reason Code: Client-Change to Sample ID

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4
Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order: 551704005
Customer ID: 55ECOH45
Customer PO: 17429-SPH
Project ID:

Attention: Brittanie Semper
ECOH Management, Inc.
75 Courtneypark Drive West
Unit 1
Mississauga, ON L5W 0E3
Project: 17429-SPH St. Peter's EAST/WEST WING

Phone: (905) 795-2800
Fax: (905) 795-2870
Received Date: 04/12/2017 5:00 PM
Analysis Date: 04/19/2017
Collected Date: 03/30/2017 - 03/31/2017

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
174-SPH-EW0-01A *551704005-0001*	DJC Wall Basement "Stores"	Gray/White Non-Fibrous Homogeneous	<1% Cellulose	2% Mica 95% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW0-01B *551704005-0002*	DJC Wall Human Resources	White Non-Fibrous Homogeneous		2% Ca Carbonate 2% Mica 96% Non-fibrous (Other)	None Detected
174-SPH-EW0-01C *551704005-0003*	DJC Wall Office	White Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate <1% Mica 90% Non-fibrous (Other)	None Detected
174-SPH-EW0-01D *551704005-0004*	DJC Wall Library/Conference Rm.	White/Beige Non-Fibrous Homogeneous		2% Mica 96% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW0-01E *551704005-0005*	DJC Wall Fire Mechcanical Rm.	White Non-Fibrous Homogeneous		2% Mica 98% Non-fibrous (Other)	None Detected
174-SPH-EW0-01F *551704005-0006*	DJC Wall Printer Rm.	Gray/White Non-Fibrous Homogeneous		3% Mica 95% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW0-01G *551704005-0007*	DJC Wall Classroom "B"	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
174-SPH-EW0-04A-Joint Compound *551704005-0008*	24x48 CT Basement IT Room	White Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
174-SPH-EW0-04A-Ceiling Tile *551704005-0008A*	24x48 CT Basement IT Room	Brown Fibrous Homogeneous	40% Cellulose 30% Min. Wool	20% Perlite 10% Non-fibrous (Other)	None Detected
174-SPH-EW0-04B-Joint Compound *551704005-0009*	24x48 CT Basement IT Room	White Non-Fibrous Homogeneous	<1% Glass	100% Non-fibrous (Other)	None Detected
174-SPH-EW0-04B-Ceiling Tile *551704005-0009A*	24x48 CT Basement IT Room	Brown/Gray Fibrous Homogeneous	30% Cellulose 30% Min. Wool	30% Perlite 10% Non-fibrous (Other)	None Detected
174-SPH-EW0-04C *551704005-0010*	24x48 CT Basement IT Room	Brown/Gray Fibrous Homogeneous	30% Cellulose 30% Min. Wool	30% Perlite 10% Non-fibrous (Other)	None Detected
174-SPH-EW0-05A *551704005-0011*	DJC Ceiling Men's Washroom	White Non-Fibrous Homogeneous	<1% Cellulose	<1% Mica 98% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW0-05B *551704005-0012*	DJC Ceiling Men's Washroom	White/Beige Non-Fibrous Homogeneous		2% Mica 95% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW0-05C *551704005-0013*	DJC Ceiling Women's Washroom	Gray/Beige Non-Fibrous Homogeneous		2% Mica 94% Non-fibrous (Other)	4% Chrysotile

Initial report from: 04/19/2017 12:15:59

EMSL Canada Inc.
2756 Slough Street Mississauga, ON L9T 5N4
Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order: 551704005
Customer ID: 55ECOH45
Customer PO: 17429-SPH
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
174-SPH-EW0-05D *551704005-0014*	DJC Ceiling Women's Washroom	Gray/White Non-Fibrous Homogeneous		2% Mica 95% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW0-05E *551704005-0015*	DJC Ceiling Women's Washroom	Gray Non-Fibrous Homogeneous		3% Mica 93% Non-fibrous (Other)	4% Chrysotile
174-SPH-EW1-01A *551704005-0016*	DJC Wall Cold Prep Area	White Non-Fibrous Homogeneous	<1% Cellulose <1% Wollastonite	2% Ca Carbonate <1% Mica 98% Non-fibrous (Other)	None Detected
174-SPH-EW1-01B *551704005-0017*	DJC Wall Corridor	White Non-Fibrous Homogeneous		<1% Mica 100% Non-fibrous (Other)	None Detected
174-SPH-EW1-01C *551704005-0018*	DJC Wall Easy Street	White/Beige Non-Fibrous Homogeneous		<1% Mica 98% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW1-01D *551704005-0019*	DJC Wall Easy Street	Beige Non-Fibrous Homogeneous		<1% Mica 98% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW1-01E *551704005-0020*	DJC Wall Foyer	Gray Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
174-SPH-EW1-01F *551704005-0021*	DJC Wall Corridor	Gray/White Non-Fibrous Homogeneous		2% Mica 95% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW1-01G *551704005-0022*	DJC Wall Recreation Room Easy Street	Gray/White Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
174-SPH-EW1-03A-Coating *551704005-0023*	12x24 CT Glue-on Receration Room Easy Street	White Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
174-SPH-EW1-03A-Ceiling Tile *551704005-0023A*	12x24 CT Glue-on Receration Room Easy Street	Gray Fibrous Homogeneous	20% Cellulose 70% Min. Wool	10% Non-fibrous (Other)	None Detected
174-SPH-EW1-03B-Coating *551704005-0024*	12x24 CT Glue-on Receration Room Easy Street	White Non-Fibrous Homogeneous	<1% Cellulose 2% Glass	98% Non-fibrous (Other)	None Detected
174-SPH-EW1-03B-Ceiling Tile *551704005-0024A*	12x24 CT Glue-on Receration Room Easy Street	Gray Fibrous Homogeneous	20% Cellulose 70% Min. Wool	10% Non-fibrous (Other)	None Detected
174-SPH-EW1-03C-Coating *551704005-0025*	12x24 CT Glue-on Receration Room Easy Street	White Non-Fibrous Homogeneous	<1% Cellulose 2% Glass	98% Non-fibrous (Other)	None Detected
174-SPH-EW1-03C-Ceiling Tile *551704005-0025A*	12x24 CT Glue-on Receration Room Easy Street	Brown/Gray Fibrous Homogeneous	20% Cellulose 70% Min. Wool	10% Non-fibrous (Other)	None Detected
174-SPH-EW1-05A *551704005-0026*	DJC Ceiling Easy Street Entrance	White Non-Fibrous Homogeneous	<1% Cellulose	2% Ca Carbonate <1% Mica 98% Non-fibrous (Other)	None Detected
174-SPH-EW1-05B *551704005-0027*	DJC Ceiling Easy Street Entrance	White Non-Fibrous Homogeneous	<1% Glass	2% Ca Carbonate <1% Mica 98% Non-fibrous (Other)	None Detected

Initial report from: 04/19/2017 12:15:59

EMSL Canada Inc.
2756 Slough Street Mississauga, ON L9T 5N4
Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order:	551704005
Customer ID:	55ECOH45
Customer PO:	17429-SPH
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
174-SPH-EW1-05C *551704005-0028*	DJC Ceiling Easy Street	White Non-Fibrous Homogeneous	<1% Glass	2% Ca Carbonate <1% Mica 98% Non-fibrous (Other)	None Detected
174-SPH-EW1-05D *551704005-0029* *Inseparable paint / coating layer included in analysis*	DJC Ceiling Corridor	White Non-Fibrous Homogeneous	2% Cellulose	<1% Mica 98% Non-fibrous (Other)	<1% Chrysotile
174-SPH-EW1-05E *551704005-0030*	DJC Ceiling Corridor	White/Beige Non-Fibrous Homogeneous		3% Mica 95% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW1-05F *551704005-0031*	DJC Ceiling Corridor	Gray/White Non-Fibrous Homogeneous		3% Mica 95% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW1-05G *551704005-0032*	DJC Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
174-SPH-EW2-01A *551704005-0033*	DJC Wall Corridor	Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW2-01B *551704005-0034*	DJC Wall Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
174-SPH-EW2-01C *551704005-0035*	DJC Wall Corridor	White/Beige Non-Fibrous Homogeneous		<1% Mica 100% Non-fibrous (Other)	<1% Chrysotile
174-SPH-EW2-01D *551704005-0036*	DJC Wall Corridor	White Non-Fibrous Homogeneous		2% Ca Carbonate 98% Non-fibrous (Other)	None Detected
174-SPH-EW2-01E *551704005-0037*	DJC Wall Corridor	White Non-Fibrous Homogeneous		<1% Mica 100% Non-fibrous (Other)	None Detected
174-SPH-EW2-01F *551704005-0038*	DJC Wall Bathing Rm	White Non-Fibrous Homogeneous		2% Mica 98% Non-fibrous (Other)	None Detected
174-SPH-EW2-01G *551704005-0039*	DJC Wall Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
174-SPH-EW2-05A *551704005-0040*	DJC Ceiling Corridor	White/Beige Non-Fibrous Homogeneous		2% Ca Carbonate 98% Non-fibrous (Other)	None Detected
174-SPH-EW2-05B *551704005-0041*	DJC Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
174-SPH-EW2-05C *551704005-0042*	DJC Ceiling Confernce Rm.	White Non-Fibrous Homogeneous	<1% Cellulose	2% Mica 98% Non-fibrous (Other)	None Detected
174-SPH-EW2-05D *551704005-0043*	DJC Ceiling Bathing Rm.	Gray/White Non-Fibrous Homogeneous		<1% Mica 100% Non-fibrous (Other)	None Detected
174-SPH-EW2-05E *551704005-0044*	DJC Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
174-SPH-EW2-05F *551704005-0045*	DJC Ceiling Patient Lounge	White/Beige Non-Fibrous Homogeneous		3% Mica 94% Non-fibrous (Other)	3% Chrysotile

Initial report from: 04/19/2017 12:15:59

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2756 Slough Street Mississauga, ON L9T 5N4
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
174-SPH-EW2-05G *551704005-0046*	DJC Ceiling Patient Lounge	White/Beige Non-Fibrous Homogeneous		3% Mica 95% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW3-01A *551704005-0047*	DJC Wall Corridor	Gray/White Non-Fibrous Homogeneous		5% Mica 92% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW3-01B *551704005-0048*	DJC Wall Corridor	Gray/White/Beige Non-Fibrous Homogeneous		3% Mica 94% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW3-01C *551704005-0049*	DJC Wall Corridor	White Non-Fibrous Homogeneous		2% Mica 98% Non-fibrous (Other)	None Detected
174-SPH-EW3-01D *551704005-0050*	DJC Wall Corridor	Beige Non-Fibrous Homogeneous		2% Mica 95% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW3-01E *551704005-0051*	DJC Wall Utility Rm.	White Non-Fibrous Homogeneous		2% Ca Carbonate 2% Mica 96% Non-fibrous (Other)	None Detected
174-SPH-EW3-01F *551704005-0052*	DJC Wall Therapeutic Rec. Rm.	Beige Non-Fibrous Homogeneous		2% Mica 96% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW3-01G *551704005-0053*	DJC Wall Laundry Rm.	Gray Non-Fibrous Homogeneous	<1% Cellulose	2% Mica 95% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW3-05A *551704005-0054*	DJC Ceiling Corridor	Gray/White Non-Fibrous Homogeneous		3% Mica 94% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW3-05B *551704005-0055*	DJC Ceiling Corridor	Beige Non-Fibrous Homogeneous		4% Mica 96% Non-fibrous (Other)	<1% Chrysotile
174-SPH-EW3-05C *551704005-0056*	DJC Ceiling Corridor	Tan Non-Fibrous Homogeneous		5% Mica 93% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW3-05D *551704005-0057*	DJC Ceiling Staff Rm.	Beige Non-Fibrous Homogeneous		5% Mica 93% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW3-05E *551704005-0058*	DJC Ceiling Utility Rm.	White Non-Fibrous Homogeneous		4% Ca Carbonate <1% Mica 96% Non-fibrous (Other)	None Detected
174-SPH-EW3-05F *551704005-0059*	DJC Ceiling Staff Washroom	Beige Non-Fibrous Homogeneous	<1% Cellulose	2% Mica 95% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW3-05G *551704005-0060*	DJC Ceiling Corridor	White Non-Fibrous Homogeneous		2% Mica 94% Non-fibrous (Other)	4% Chrysotile
174-SPH-EW4-01A *551704005-0061* *Inseparable paint / coating layer included in analysis*	DJC Wall Corridor	Gray/White/Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
174-SPH-EW4-01B *551704005-0062*	DJC Wall Corridor	White Non-Fibrous Homogeneous		2% Mica 98% Non-fibrous (Other)	None Detected
174-SPH-EW4-01C *551704005-0063*	DJC Wall Corridor	Gray Non-Fibrous Homogeneous		4% Mica 93% Non-fibrous (Other)	3% Chrysotile

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EMSL Canada Inc.
2756 Slough Street Mississauga, ON L9T 5N4
Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order: 551704005
Customer ID: 55ECOH45
Customer PO: 17429-SPH
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
174-SPH-EW4-01D *551704005-0064*	DJC Wall Corridor	Beige Non-Fibrous Homogeneous		3% Mica 95% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW4-01E *551704005-0065*	DJC Wall W401 Washroom	White/Beige Non-Fibrous Homogeneous		2% Mica 95% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW4-01F *551704005-0066*	DJC Wall Corridor	Gray/Beige Non-Fibrous Homogeneous		2% Mica 96% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW4-01G *551704005-0067*	DJC Wall Corridor	White Non-Fibrous Homogeneous	<1% Cellulose	12% Ca Carbonate 88% Non-fibrous (Other)	None Detected
174-SPH-EW4-05A *551704005-0068*	DJC Ceiling Washroom	Gray Non-Fibrous Homogeneous		3% Mica 95% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW4-05B *551704005-0069*	DJC Ceiling Therapeutic Rec. Rm.	White Non-Fibrous Homogeneous		3% Ca Carbonate 5% Mica 92% Non-fibrous (Other)	None Detected
174-SPH-EW4-05C *551704005-0070*	DJC Ceiling Linen Closet	White Non-Fibrous Homogeneous		2% Ca Carbonate 4% Mica 94% Non-fibrous (Other)	None Detected
174-SPH-EW4-05D *551704005-0071*	DJC Ceiling Corridor	White Non-Fibrous Homogeneous		3% Ca Carbonate 4% Mica 93% Non-fibrous (Other)	None Detected
174-SPH-EW4-05E *551704005-0072*	DJC Ceiling Therapeutic Rec. Rm.	White/Beige Non-Fibrous Homogeneous		2% Mica 95% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW4-05F *551704005-0073*	DJC Ceiling Corridor	White/Beige Non-Fibrous Homogeneous	<1% Cellulose	3% Mica 94% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW4-05G *551704005-0074*	DJC Ceiling Corridor	Beige Non-Fibrous Homogeneous		3% Mica 97% Non-fibrous (Other)	<1% Chrysotile

Analyst(s)

Eric Budai (29)
Rebecca Newman (41)
Ryan Shannon (9)

Matthew Davis
or Other Approved Signatory

Initial report from: 04/19/2017 12:15:59

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4
Phone/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order: 551704005
Customer ID: 55ECOH45
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Attention: Brittanie Semper
ECOH Management, Inc.
75 Courtneypark Drive West
Unit 1
Mississauga, ON L5W 0E3
Project: 17429-SPH St. Peter's EAST/WEST WING

Phone: (905) 795-2800
Fax: (905) 795-2870
Received: 04/12/2017 5:00 PM
Analysis Date: 04/19/2017
Collected: 03/30/2017 - 03/31/2017

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
174-SPH-EW0-01G *551704005-0007*	DJC Wall Classroom "B"	White Non-Fibrous Homogeneous		99.50% Non-fibrous (Other)	**0.50% Chrysotile**
174-SPH-EW1-05D *551704005-0029*	DJC Ceiling Corridor	White Non-Fibrous Homogeneous		99.25% Non-fibrous (Other)	**0.75% Chrysotile**
174-SPH-EW1-05G *551704005-0032*	DJC Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**<0.25% Chrysotile**
174-SPH-EW2-01C *551704005-0035*	DJC Wall Corridor	White/Beige Non-Fibrous Homogeneous		99.50% Non-fibrous (Other)	**0.50% Chrysotile**
174-SPH-EW2-01G *551704005-0039*	DJC Wall Corridor	White Non-Fibrous Homogeneous		99.00% Non-fibrous (Other)	**1.00% Chrysotile**
174-SPH-EW3-05B *551704005-0055*	DJC Ceiling Corridor	Beige Non-Fibrous Homogeneous		99.50% Non-fibrous (Other)	**0.50% Chrysotile**
174-SPH-EW4-01A *551704005-0061*	DJC Wall Corridor	Gray/White/Pink Non-Fibrous Heterogeneous		99.50% Non-fibrous (Other)	**0.50% Chrysotile**
			Inseparable paint / coating layer included in analysis		
174-SPH-EW4-05G *551704005-0074*	DJC Ceiling Corridor	Tan/Beige Non-Fibrous Homogeneous		99.25% Non-fibrous (Other)	**0.75% Chrysotile**

Disclaimer:Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government . EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis.The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Ann Arbor, MI

Initial report from: 04/19/2017 12:16:07

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4
Phone/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order:	551704005
Customer ID:	55ECOH45
Customer PO:	17429-SPH
Project ID:	

Attention:	Brittanie Semper ECOH Management, Inc. 75 Courtneypark Drive West Unit 1 Mississauga, ON L5W 0E3	**Phone:**	(905) 795-2800
		Fax:	(905) 795-2870
		Received:	04/12/2017 5:00 PM
		Analysis Date:	04/19/2017
		Collected:	03/30/2017 - 03/31/2017
Project:	17429-SPH St. Peter's EAST/WEST WING		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**

Analyst(s)

Eric Budai (4)
Rebecca Newman (2)
Ryan Shannon (2)

Matthew Davis
or other approved signatory

Samples analyzed by EMSL Analytical, Inc. Ann Arbor, MI

Initial report from: 04/19/2017 12:16:07

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4
Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order: 551703977
Customer ID: 55ECOH45
Customer PO:
Project ID:

Attention: Brittanie Semper
ECOH Management, Inc.
75 Courtneypark Drive West
Unit 1
Mississauga, ON L5W 0E3
Project: 17429 - SPH ST.PETER'S ALEXANDER WING

Phone: (905) 795-2800
Fax: (905) 795-2870
Received Date: 04/12/2017 5:00 PM
Analysis Date: 04/19/2017
Collected Date: 03/30/2017

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429 -SPH-ALEX1 01A *551703977-0001*	DJC WALL ENTRY VESTIBULE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429 -SPH-ALEX1 01B *551703977-0002*	DJC WALL ENTRY VESTIBULE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429 -SPH-ALEX1 01C *551703977-0003*	DJC WALL WOMEN'S WASHROOM	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429 -SPH-ALEX1 01D *551703977-0004*	DJC WALL OFFICE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429 -SPH-ALEX1 01E *551703977-0005*	DJC WALL WAITING AREA	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429 -SPH-ALEX1 01F *551703977-0006*	DJC WALL CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX1 01G *551703977-0007*	DJC WALL CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX1 05A *551703977-0008*	DJC CEILING OFFICE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX1 05B *551703977-0009*	DJC CEILING ELEVATOR LOBBY	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX1 05C *551703977-0010*	DJC CEILING CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX1 05D *551703977-0011*	DJC CEILING CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX1 05E *551703977-0012*	DJC CEILING CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX2 01A *551703977-0013*	DJC WALL CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX2 01B *551703977-0014*	DJC WALL CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/19/2017 18:42:18

EMSL Canada Inc.

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Tel/Fax: (289) 997-4602 / (289) 997-4607

http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order:	551703977
Customer ID:	55ECOH45
Customer PO:	
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-ALEX2 01C *551703977-0015*	DJC WALL CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX2 01D *551703977-0016*	DJC WALL CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX2 01E *551703977-0017*	DJC WALL CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

John Biesiadecki (10)

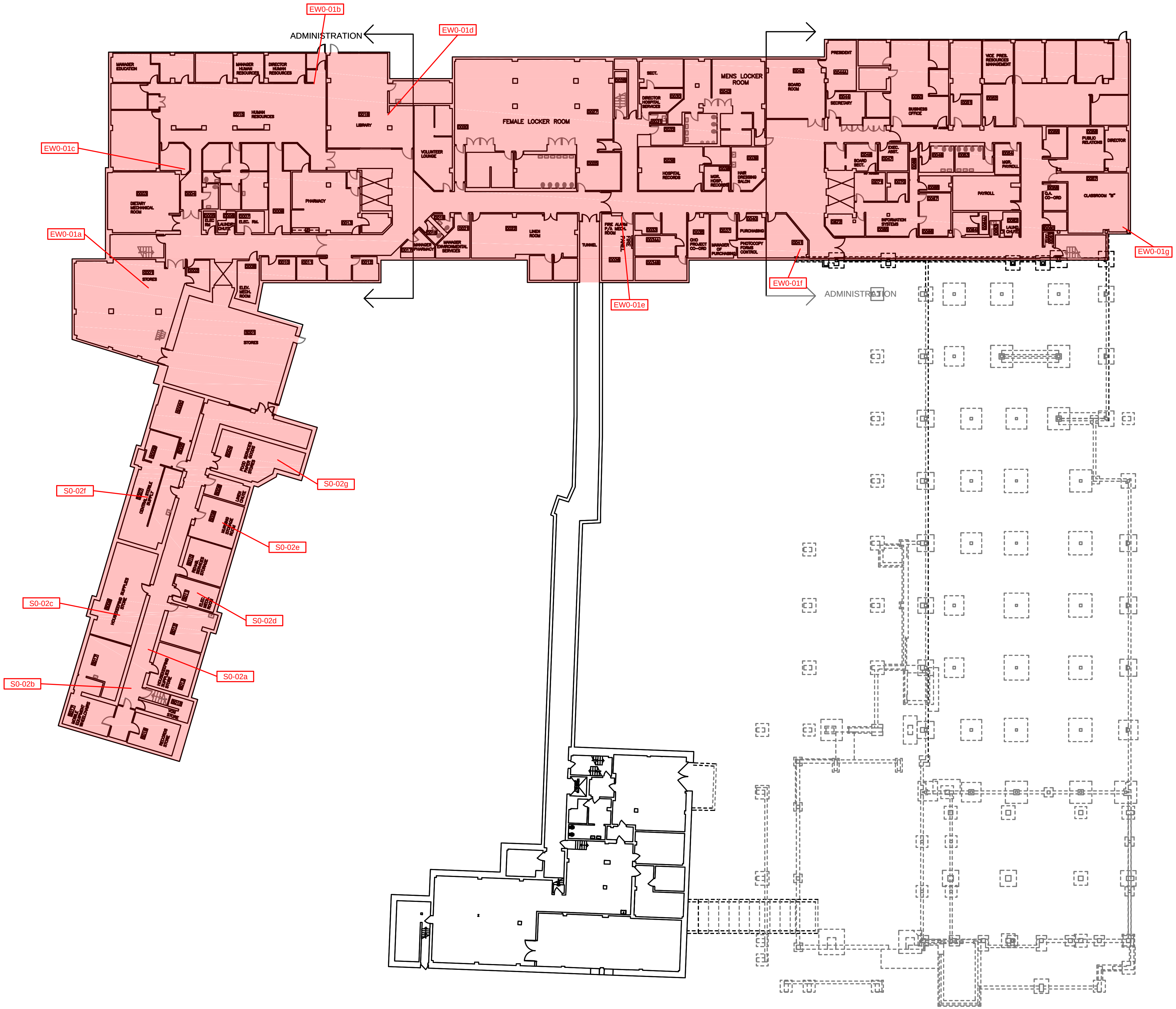
Jon Delos Santos (7)

Matthew Davis
or Other Approved Signatory

Initial report from: 04/19/2017 18:42:18

ATTACHMENT 2

DRAWINGS – ASBESTOS BULK SAMPLE LOCATIONS



GENERAL NOTES:

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5. IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.
6. AREAS DENOTED AS "SUSPECT MATERIAL" SHOULD BE PRESUMED TO CONTAIN ASBESTOS IN THE ABSENCE OF ADDITIONAL SAMPLING THAT PROVES OTHERWISE

ST. PETERS HOSPITAL BASEMENT

KEY PLAN N.T.S.

NO.	DATE M/D/Y	REVISIONS	BY
1	1/1/2013	UPDATED	GS
2	2/1/2013	UPDATED	GS
3	3/1/2013	UPDATED	GS
4	3/31/2016	UPDATED by ECOH	MM

LEGEND – FLOORS

- NO ACM PRESENT
- ACM PRESENT IN PLASTER AND DRYWALL JOINT COMPOUND

ST. PETERS SITE

Hamilton Health Sciences
ENGINEERING SERVICES

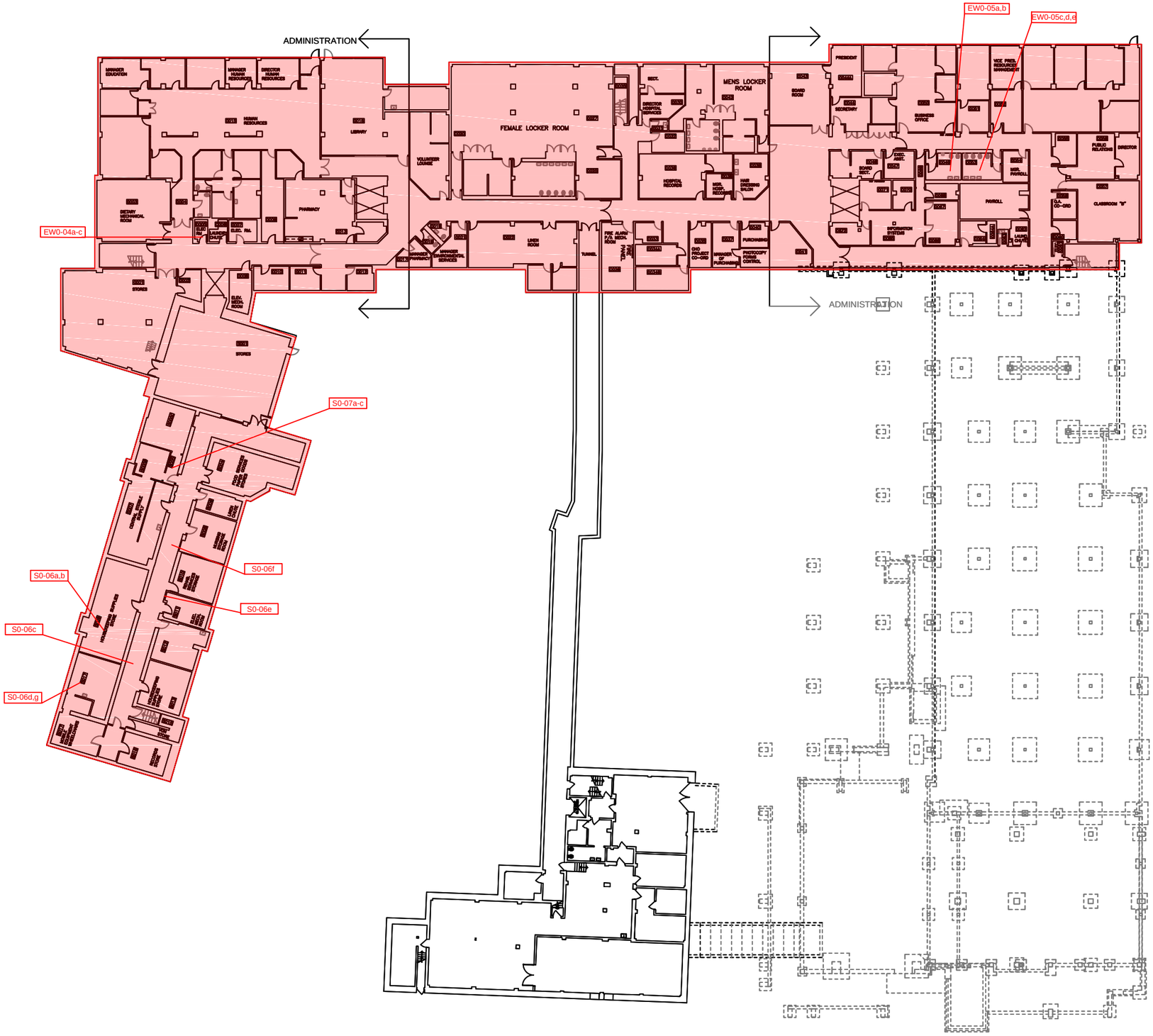
PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
ST. PETERS HOSPITAL BASEMENT ACM ON WALL

PLOT DATE: PLOTDATE	DEPTARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: GEOFF SCHWARZ	FILE NAME: ST. PETERS BASEMENT

DRAWING No.
RA-01B

SHEET SIZE = ARCH "D" - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)



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ST. PETERS HOSPITAL BASEMENT

KEY PLAN N.T.S.

NO.	DATE M/D/Y	REVISIONS	BY
1	1/1/2013	UPDATED	GS
2	2/1/2013	UPDATED	GS
3	3/1/2013	UPDATED	GS
4	3/31/2016	UPDATED by ECOH	MM

LEGEND – FLOORS

ACM PRESENT IN CEILING TILES, AND/OR PLASTER AND DRYWALL JOINT COMPOUND

NO ACM PRESENT

ST. PETERS SITE

Hamilton Health Sciences
ENGINEERING SERVICES

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
ST. PETERS HOSPITAL BASEMENT
ACM ON CEILING

PLOT DATE: PLOTDATE	DEPTARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN
DRAWN BY: MARCO MENDOZA	FILE NAME: ST. PETERS BASEMENT

DRAWING No.

RA-01C

SHEET SIZE: ANSI D - 24" x 36" (ORIGINAL) - 610mm x 914mm (METRIC)

GENERAL NOTES:

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ST. PETERS HOSPITAL LEVEL 1

KEY PLAN N.T.S.

NO.	DATE M/D/Y	REVISIONS	BY
1	1/1/2013	UPDATED	GS
2	2/1/2013	UPDATED	GS
3	3/1/2013	UPDATED	GS
4	3/31/2016	UPDATED by ECOH	MM
5	6/15/2017	UPDATED by ECOH	JK

LEGEND – FLOORS

NO ACM PRESENT

ACM DRYWALL JOINT COMPOUND AND/OR PLASTER

ST. PETERS SITE

Hamilton Health Sciences
ENGINEERING SERVICES

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
ST. PETERS HOSPITAL
LEVEL 1
ACM ON WALL

PLOT DATE: PLOTDATE	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: ST. PETERS FIRST FLOOR

DRAWING No.
RA-02B

SHEET SIZE = ARCH 'D' - 24" x 36" (ANSI/ISO/A1) - 610mm x 914mm (METRIC)

GENERAL NOTES:

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5. IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.
6. ALL TESTING SHALL BE SHIPPED AND COMPLETED BY A THIRD PARTY

ST. PETERS HOSPITAL LEVEL 1

KEY PLAN N.T.S.

NO.	DATE M/D/Y	REVISIONS	BY
1	1/1/2013	UPDATED	GS
2	2/1/2013	UPDATED	GS
3	3/1/2013	UPDATED	GS
4	3/31/2016	UPDATED by ECOH	MM

LEGEND – FLOORS

- NO ACM PRESENT
- ACM PRESENT IN PLASTER AND CEILING TILE OR DRYWALL JOINT COMPOUND

ST. PETERS SITE

Hamilton Health Sciences
ENGINEERING SERVICES

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

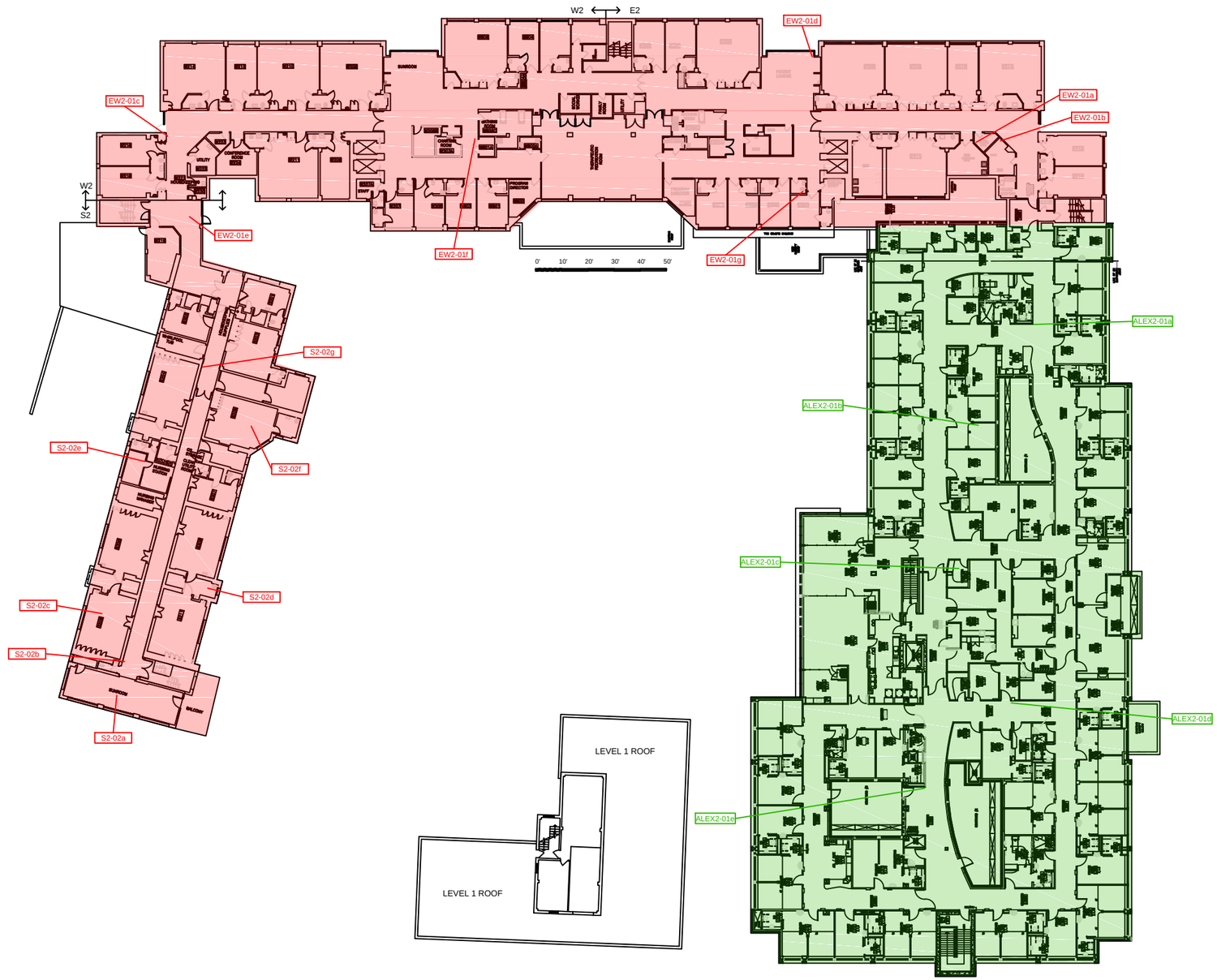
DRAWING:
ST. PETERS HOSPITAL
LEVEL 1
ACM ON CEILING

PLOT DATE: PLOTDATE	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN
DRAWN BY: MARCO MENDOZA	FILE NAME: ST. PETERS FIRST FLOOR

DRAWING No.

RA-02C

SHEET SIZE = ARCH 'D' – 24" x 36" (BARSEMA) – 610mm x 914mm (METRIC)



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ST. PETERS HOSPITAL LEVEL 2

KEY PLAN N.T.S.

NO.	DATE M/D/Y	REVISIONS	BY
1	1/1/2013	UPDATED	GS
2	2/1/2013	UPDATED	GS
3	3/1/2013	UPDATED	GS
4	3/31/2016	UPDATED by ECOH	MM

LEGEND – FLOORS

ACM PRESENT IN DRYWALL JOINT COMPOUND

NO ACM PRESENT

ST. PETERS SITE

Hamilton Health Sciences
ENGINEERING SERVICES

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

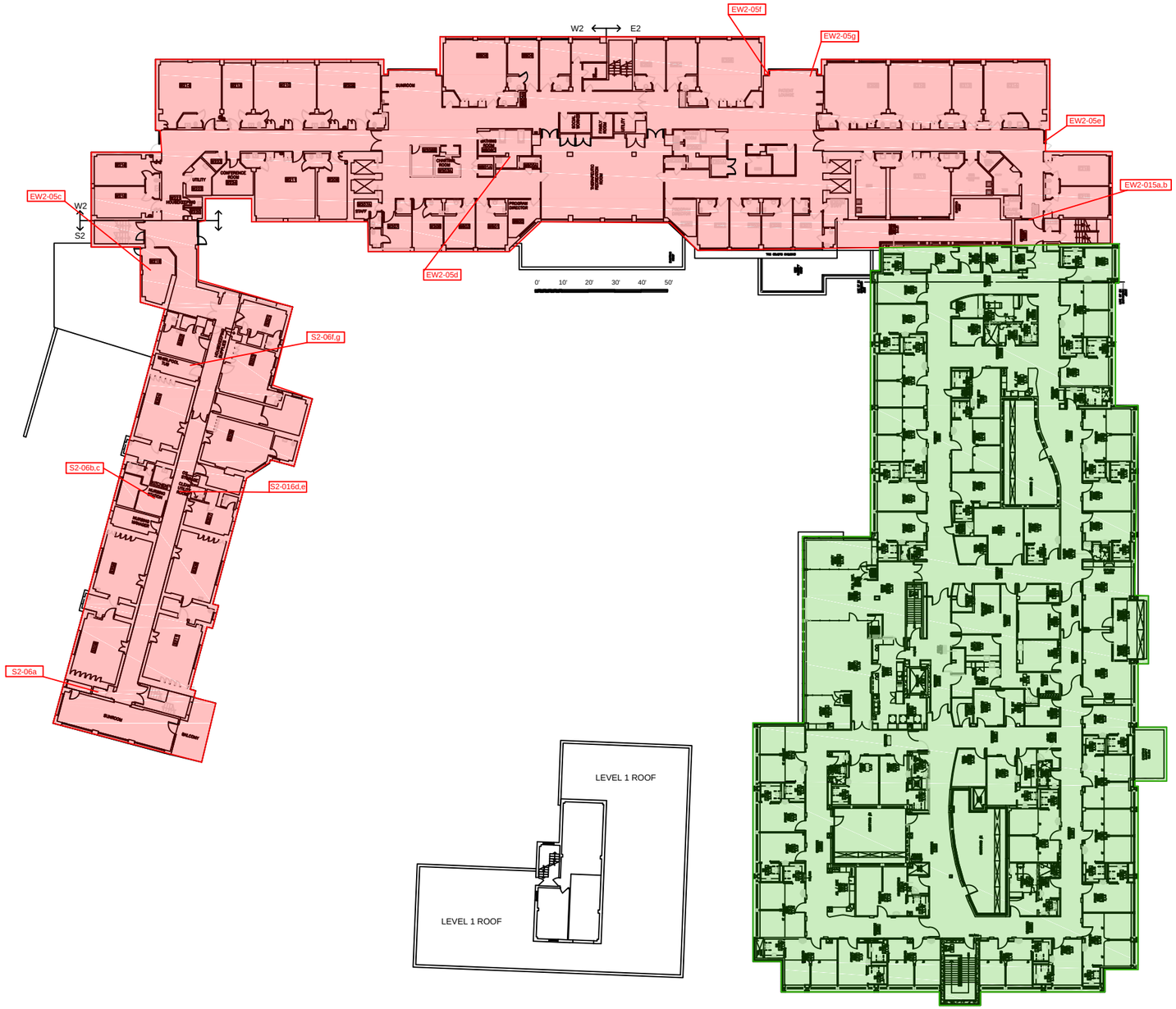
DRAWING:
ST. PETERS HOSPITAL
LEVEL 2
ACM ON WALLS

PLOT DATE: PLOTDATE	DEPTARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: ST. PETERS SECOND FLOOR

DRAWING No.

RA-03C

SHEET SIZE = ANSI 'D' - 24" x 36" (610mm x 914mm) (ORIGINAL)



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ST. PETERS HOSPITAL LEVEL 2

KEY PLAN N.T.S.

NO.	DATE M/D/Y	REVISIONS	BY
1	1/1/2013	UPDATED	GS
2	2/1/2013	UPDATED	GS
3	3/1/2013	UPDATED	GS
4	3/31/2016	UPDATED by ECOH	MM

LEGEND – FLOORS

ACM PRESENT IN DRYWALL JOINT COMPOUND

NO ACM PRESENT

ST. PETERS SITE

Hamilton Health Sciences
ENGINEERING SERVICES

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

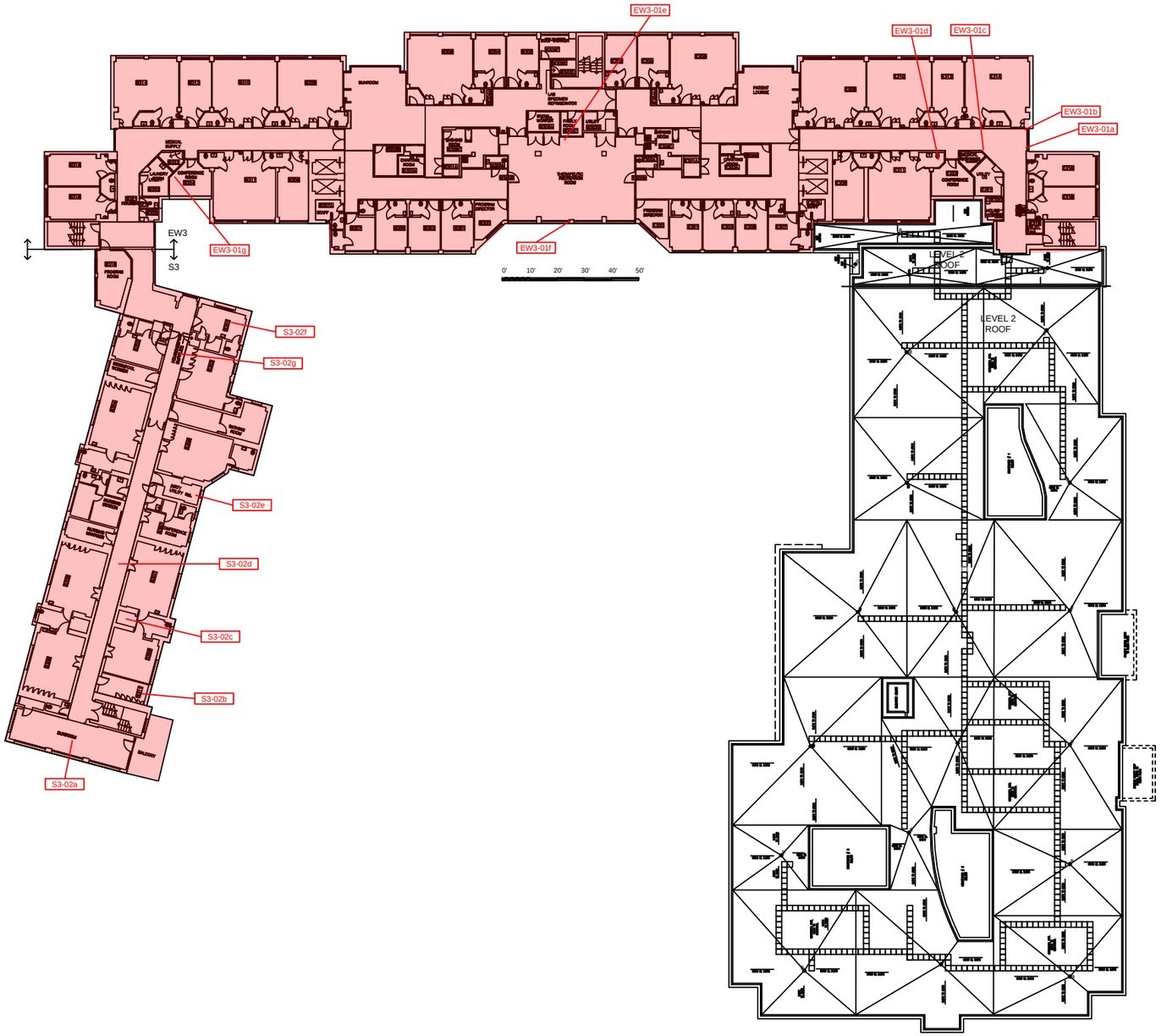
DRAWING:
ST. PETERS HOSPITAL
LEVEL 2
ACM ON CEILING

PLOT DATE: PLOTDATE	DEPTARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN COPELAND
DRAWN BY: MARCO MENDOZA	FILE NAME: ST. PETERS SECOND FLOOR

DRAWING No.

RA-03C

SHEET SIZE - ANSI 'D' (24"x36") - 610mm x 914mm (ISO/JIS)



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ST. PETERS HOSPITAL LEVEL 3

KEY PLAN N.T.S.

NO.	DATE M/D/Y	REVISIONS	BY
1	1/1/2013	UPDATED	GS
2	2/1/2013	UPDATED	GS
3	3/1/2013	UPDATED	GS
4	3/31/2013	UPDATED by ECOH	MM
5	6/15/2017	UPDATED by ECOH	JK

LEGEND – FLOORS

NO ACM PRESENT

ACM DRYWALL JOINT COMPOUND AND/OR PLASTER

ST. PETERS SITE

Hamilton Health Sciences
ENGINEERING SERVICES

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

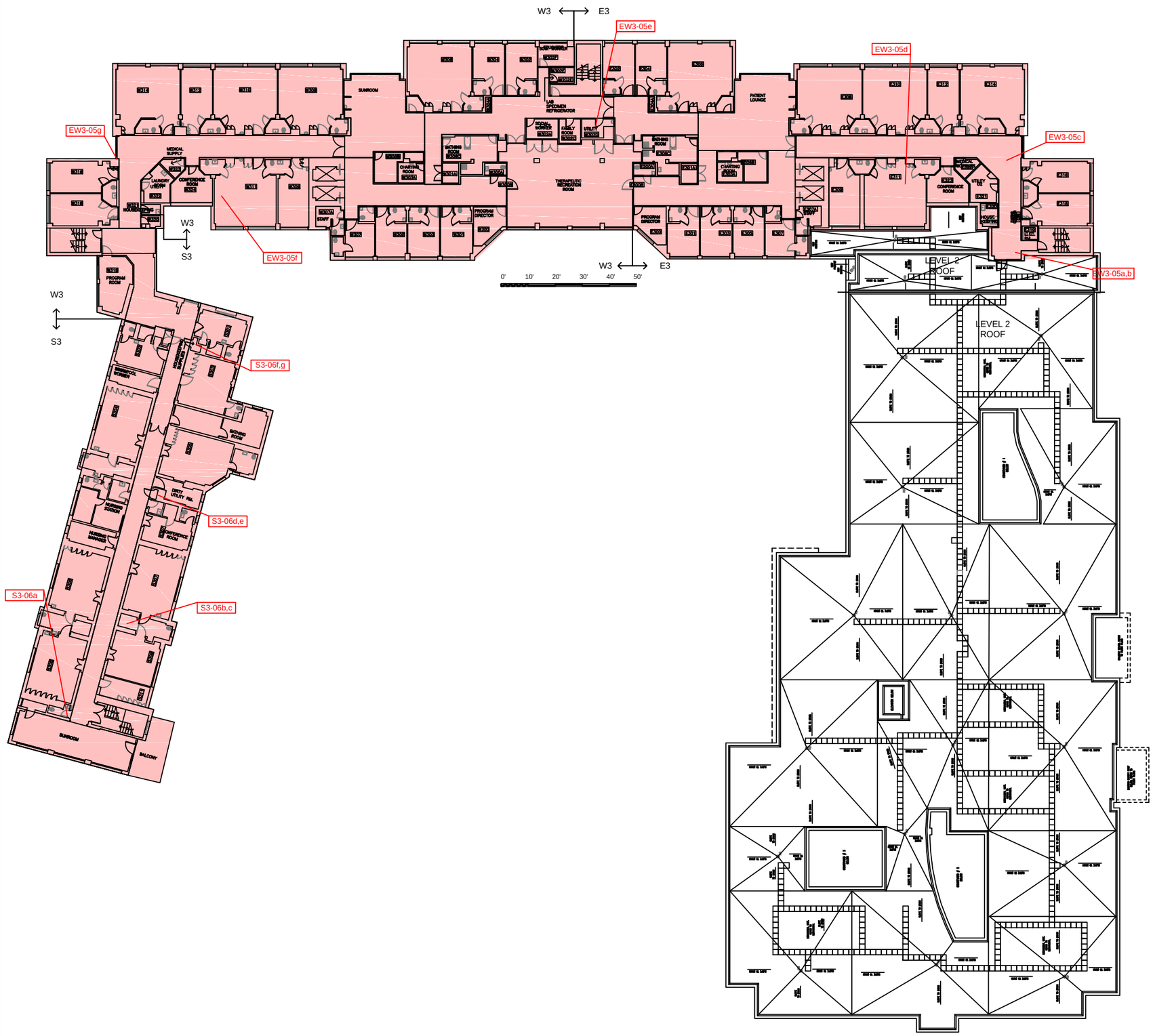
DRAWING:
ST. PETERS HOSPITAL
LEVEL 3
ACM ON WALL

PLOT DATE:	DEPTARTMENT:
PLOTDATE	ENGINEERING
SCALE:	SUPERVISOR:
N.T.S.	DUSTIN COPELAND
DRAWN BY:	FILE NAME:
MARCO MENDOZA	ST. PETERS THIRD FLOOR

DRAWING No.

RA-04B

SHEET SIZE = ANSI D (TABLOID) - 17" x 24" - 431.8mm x 610mm = ARCH E1 (METRIC)



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ST. PETERS HOSPITAL LEVEL 3

KEY PLAN N.T.S.

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2	2/1/2013	UPDATED	GS
3	3/1/2013	UPDATED	GS
4	3/31/2013	UPDATED by ECOH	MM

LEGEND – FLOORS

ACM PRESENT IN PLASTER AND/OR CEILING TILES OR DRYWALL JOINT COMPOUND

NO ACM PRESENT

ST. PETERS SITE

Hamilton Health Sciences
ENGINEERING SERVICES

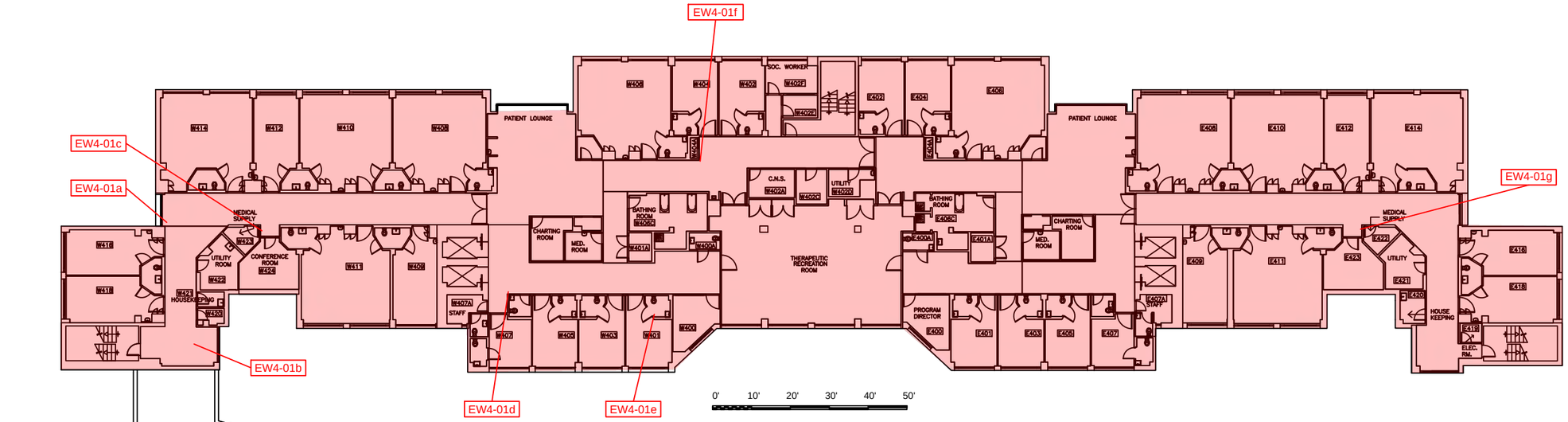
PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

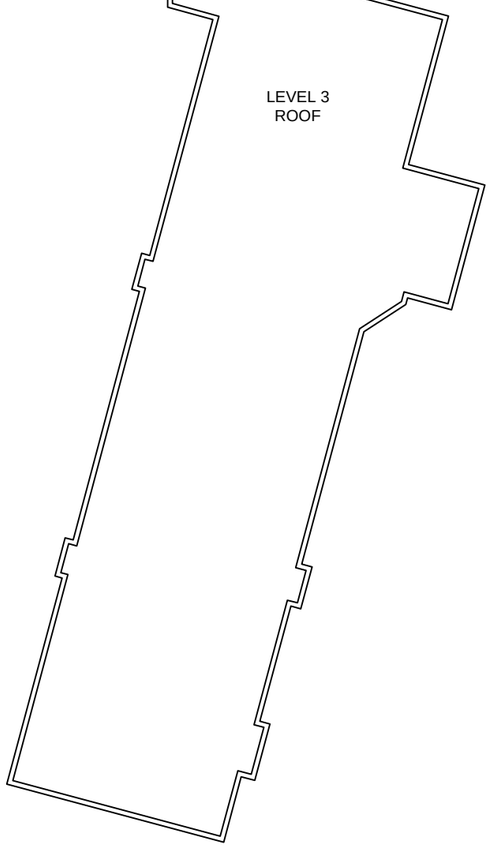
DRAWING:
ST. PETERS HOSPITAL
LEVEL 3
ACM ON CEILING

PLOT DATE: PLOTDATE	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: DUSTIN
DRAWN BY: MARCO MENDOZA	FLOORPLAN: ST. PETERS THIRD FLOOR

DRAWING No.
RA-04C

SHEET SIZE = ARCH D - 24" x 36" (IMPERIAL) - 610mm x 914mm (METRIC)





GENERAL NOTES:

1. DRAWINGS HAVE BEEN CONVERTED FROM A CONTRACTED SOURCE JANUARY 2013 AND WILL BE MAINTAINED BY HHS ENGINEERING STAFF.
2. DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT. DRAWINGS TO BE VIEWED IN COLOR ONLY.
3. AREAS WITHOUT A DESIGNATION OF ACM (ASBESTOS CONTAINING MATERIAL) SHALL BE TREATED AS ACM UNTIL PROVEN OTHERWISE.
4. PRIOR TO UNDERTAKING ANY REPAIR RENOVATION OR DEMOLITION, REVIEW THE AMP (ASBESTOS MANAGEMENT PLAN) AND SURVEY PRIOR TO COMMENCEMENT OF WORK.
5. IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.
6. AREAS DENOTED AS "SUSPECT MATERIAL" SHOULD BE PRESUMED TO CONTAIN ASBESTOS IN THE ABSENCE OF ADDITIONAL SAMPLING THAT PROVES OTHERWISE.

ST. PETERS HOSPITAL LEVEL 4

KEY PLAN N.T.S.

NO.	DATE M/D/Y	REVISIONS	BY
1	1/1/2013	UPDATED	GS
2	2/1/2013	UPDATED	GS
3	3/1/2013	UPDATED	GS
4	6/15/2017	UPDATED by ECOH	JK

LEGEND – FLOORS

NO ACM PRESENT

ACM DRYWALL JOINT COMPOUND AND /OR PLASTER

ST. PETERS SITE

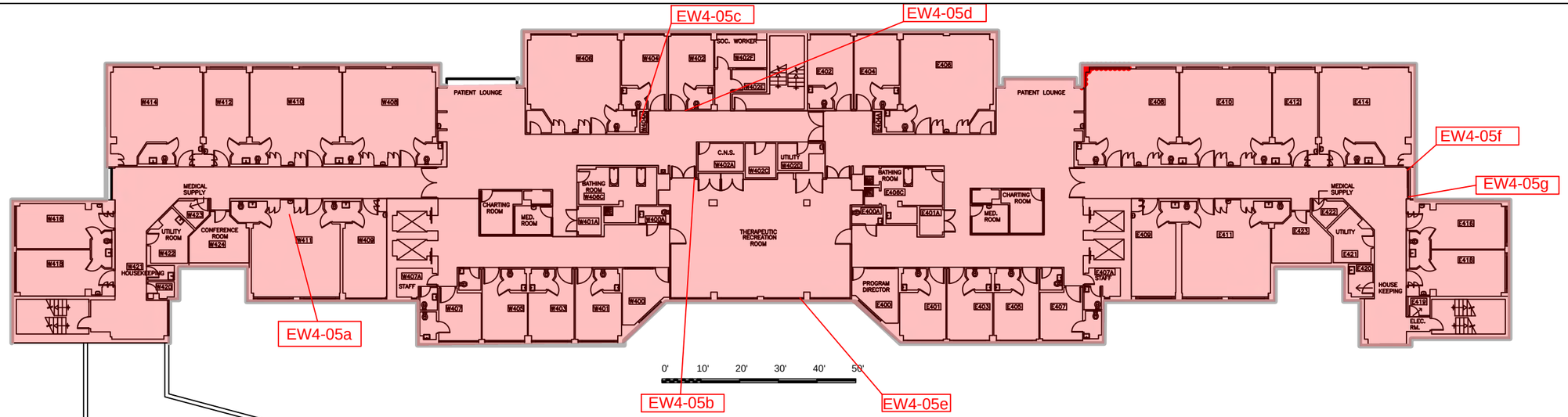
Hamilton Health Sciences ENGINEERING SERVICES

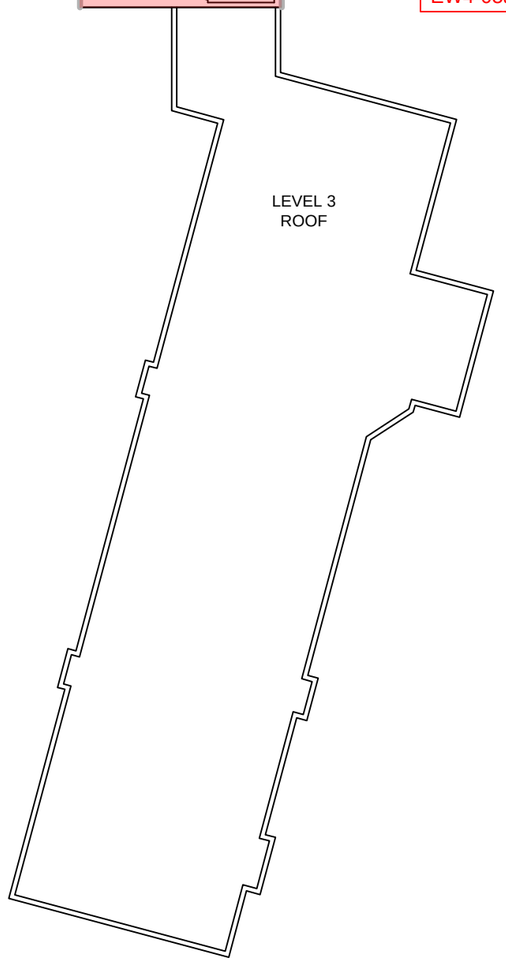
PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
ST. PETERS HOSPITAL
LEVEL 4
ACM ON WALL

PLOT DATE:	DEPTARTMENT:
PLOTDATE	ENGINEERING
SCALE:	SUPERVISOR:
N.T.S.	GEOFF SCHWARZ
DRAWN BY:	FILE NAME:
GEOFF SCHWARZ	ST. PETERS FOURTH FLOOR

DRAWING No.
RA-05B





GENERAL NOTES:

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2. DRAWINGS SHALL BE READ IN CONJUNCTION WITH HHS ASBESTOS MANAGEMENT PLAN AND SURVEYS AVAILABLE ON THE HHS INTRANET, AND HARDCOPY IN THE SITES ENGINEERING DEPT. DRAWINGS TO BE VIEWED IN COLOR ONLY.
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5. IF YOU SUSPECT A MATERIAL TO BE ACM IN AN AREA SHOWN TO BE FREE OF ACM, CONTACT THE ASBESTOS COORDINATOR FOR CONSULTATION.
6. AREAS DENOTED AS "SUSPECT MATERIAL" SHOULD BE PRESUMED TO CONTAIN ASBESTOS IN THE ABSENCE OF ADDITIONAL SAMPLING THAT PROVES OTHERWISE.

ST. PETERS HOSPITAL LEVEL 4

KEY PLAN N.T.S.

NO.	DATE M/D/Y	REVISIONS	BY
1	1/1/2013	UPDATED	GS
2	2/1/2013	UPDATED	GS
3	3/1/2013	UPDATED	GS
4	6/15/2017	UPDATED by ECOH	JK

LEGEND – FLOORS

ACM DRYWALL JOINT COMPOUND

NO ACM PRESENT

ST. PETERS SITE

Hamilton Health Sciences ENGINEERING SERVICES

PROJECT:
ST. PETERS HOSPITAL ASBESTOS MANAGEMENT PLAN AND SURVEY

DRAWING:
ST. PETERS HOSPITAL
LEVEL 4
ACM ON CEILING

PLOT DATE: PLOTDATE	DEPARTMENT: ENGINEERING
SCALE: N.T.S.	SUPERVISOR: GEOFF SCHWARZ
DRAWN BY: GEOFF SCHWARZ	FILE NAME: ST. PETERS FOURTH FLOOR

DRAWING No.
RA-05C

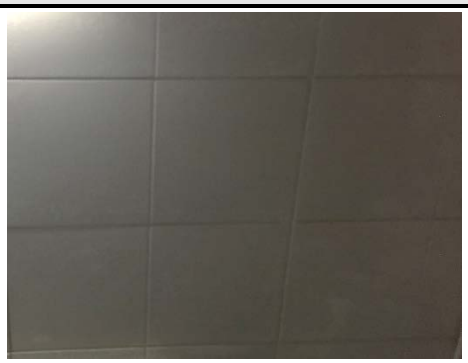
SHEET SIZE = ANSI D (24.00" x 36.00" - 610 mm x 914 mm) (METRIC)

ATTACHMENT 3

CEILING TILE INDEX

ECOH
Environmental Consulting
Occupational Health

TABLE V Summary of Ceiling Tiles (CT)				
MIN	**Description**	**Sample Number**	**Results**	**Photograph**
CT1	Ceiling Tile 2x4 Light Pinprick	Not Sampled New Ceiling Tile	N/A	
CT2	1x2 Glue on Large Fissure Pattern	17429-SPH-EW1-03A to 03C	None Detected	
CT3	Ceiling Tile 2x4 Starfleck w/ Pinhole	Not Sampled New Ceiling Tile (Installed in 2008)	N/A	
CT4	Ceiling Tile 2x4 Width Fissures w/ Random Pinhole	Not Sampled New Ceiling Tile (Installed in 2008)	N/A	

TABLE V Summary of Ceiling Tiles (CT)				
MIN	**Description**	**Sample Number**	**Results**	**Photograph**
CT5	1x2 Metal Pan Tile w/ Pinholes	Sampled in a Previous ECOH Reassessment	Asbestos-Containing Paper Backing	
CT6	Ceiling Tile 2x4 Long Skinny Random Fissures w/ Random Pinhole	17429-SPH-EW0-04A to 04C	None Detected	
CT7	1x1 Glue-on Random Fissures/Flecks and Pinholes	17429-SPH-S0-07A to 07C	None Detected	
CT8	Ceiling Tile 2x4 Textured Finish	Not Sampled New Ceiling Tile	N/A	

Project Description:	**Asbestos Bulk Sampling – Vinyl Floor Tile**	**ECOH Project #:**	**18439**
Project Location:	**St. Peters Hospital – East/West Wings (Floors 2-4)** **88 Maplewood Ave., Hamilton, Ontario**		
Report Date:	**November 3, 2017**		**Pg. 1 of 4**

ECOH Management Inc. (ECOH) was retained by Hamilton Health Sciences, to collect and submit bulk samples of suspect materials for analysis of asbestos-content. Bulk samples of suspect materials (vinyl floor tiles) were collected from various locations throughout the East/West Wing (Floors 2-4) of the St. Peter's Hospital, located at 88 Maplewood Avenue, Hamilton, Ontario.

Mr. Brian Edwardson of ECOH was on-site October 24, 2017 to conduct the assessment and sampling. A total of fifteen (15) asbestos bulk samples, which included five (5) visually distinct styles of vinyl floor tile, were collected and submitted for analysis. The Certificate of Analysis for all bulk samples collected is provided at the end of the report.

Asbestos Bulk Sample Analysis & Results:

EMSL Canada Inc. (EMSL), an independent commercial laboratory, analyzed the bulk samples collected. Analysis of these samples followed the analytical method prescribed by Ontario Regulation 278/05, Designated Substance – *Regulation respecting Asbestos on Construction Projects and in Buildings and Repair Operations*. The analytical method prescribed is 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, using Polarized Light Microscopy (PLM). Although not required by provincial regulation, all laboratories used by ECOH are accredited under the U.S. National Voluntary Laboratory Accreditation Program (NVLAP) to ensure consistent, accurate and defensible results.

Table 1 summarizes the sample collection information and results for asbestos bulk sampling:

Sample Number	Sample Location	Sample Description	Asbestos Content
18439-01A	Rm. E416	Vinyl Floor Tile 1 (VFT1) – 12"x12" Off-White with Coloured Fleck	None Detected
		Mastic	None Detected
18439-01B	Central Wheel Chair Storage Room (across from Rm. W302)	Vinyl Floor Tile 1 (VFT1) – 12"x12" Off-White with Coloured Fleck	None Detected
		Mastic	None Detected
18439-01C	Central Wheel Chair Storage Room (across from Rm. W302)	Vinyl Floor Tile 1 (VFT1) – 12"x12" Off-White with Coloured Fleck	None Detected
		Mastic	None Detected
18439-02A	Rm. W420	Vinyl Floor Tile 2 (VFT2) – 12"x12" Brown with White Fleck	None Detected
		Mastic	None Detected

Sample Number	Sample Location	Sample Description	Asbestos Content
18439-02B	Rm. W420	Vinyl Floor Tile 2 (VFT2) – 12”x12” Brown with White Fleck	None Detected
		Mastic	None Detected
18439-02C	Rm. E319	Vinyl Floor Tile 2 (VFT2) – 12”x12” Brown with White Fleck	None Detected
18439-03A	Rm. W220	Vinyl Floor Tile 3 (VFT3) – 12”x12” Green with Green Fleck	None Detected
18439-03B	Rm. W220	Vinyl Floor Tile 3 (VFT3) – 12”x12” Green with Green Fleck	None Detected
18439-03C	Rm. W220	Vinyl Floor Tile 3 (VFT3) – 12”x12” Green with Green Fleck	None Detected
18439-04A	Rm. W203A	Vinyl Floor Tile 4 (VFT4) – 12”x12” Orange with Orange Fleck	None Detected
		Mastic	None Detected
18439-04B	Rm. W203A	Vinyl Floor Tile 4 (VFT4) – 12”x12” Orange with Orange Fleck	None Detected
		Mastic	None Detected
18439-04C	Rm. W203A	Vinyl Floor Tile 4 (VFT4) – 12”x12” Orange with Orange Fleck	None Detected
18439-05A	West “Up-Area” (across from Nurses Station)	Vinyl Floor Tile 5 (VFT5) – 12”x12” Purple with Purple Fleck	None Detected
		Mastic	None Detected
18439-05B	West “Up-Area” (across from Nurses Station)	Vinyl Floor Tile 5 (VFT5) – 12”x12” Purple with Purple Fleck	None Detected
		Mastic	None Detected
18439-05C	West “Up-Area” (across from Nurses Station)	Vinyl Floor Tile 5 (VFT5) – 12”x12” Purple with Purple Fleck	None Detected

Sample Number	Sample Location	Sample Description	Asbestos Content
	- shading indicates sample result positive for asbestos (if applicable)		

Discussion of Results and Recommendations:

Based on the analytical results, ECOH offers the following recommendations for your consideration. The recommendations meet the requirements of the Ontario Health and Safety Act. Asbestos-related recommendations meet the requirements of Ontario Regulation 278/05: *Designated Substance – Regulation respecting Asbestos on Construction Projects and in Buildings and Repair Operations*.

- Vinyl Floor Tile 1 (VFT1) – 12"x12" Off-White with Coloured Fleck observed in various locations throughout the 2nd, 3rd and 4th Floors of the East/West Wing was sampled (samples 18349-01A to -01C) and confirmed to be **non-asbestos**.
- Vinyl Floor Tile 2 (VFT2) – 12"x12" Brown with White Fleck observed in various locations throughout the 2nd, 3rd and 4th Floors of the East/West Wing was sampled (samples 18349-02A to -02C) and confirmed to be **non-asbestos.**
- Vinyl Floor Tile 3 (VFT3) – 12"x12" Green with Green Fleck observed in various locations throughout the 2nd Floor of the East/West Wing was sampled (samples 18349-03A to -03C) and confirmed to be **non-asbestos.**
- Vinyl Floor Tile 4 (VFT4) – 12"x12" Orange with Orange Fleck observed in various locations throughout the 2nd Floor of the East/West Wing was sampled (samples 18349-04A to -04C) and confirmed to be **non-asbestos.**
- Vinyl Floor Tile 5 (VFT5) – 12"x12" Purple with Purple Fleck observed in various locations throughout the 2nd Floor of the East/West Wing was sampled (samples 18349-05A to -05C) and confirmed to be **non-asbestos.**
- Vinyl floor tile mastic present through the 2nd, 3rd, and 4th Floors of the East/West Wings was sampled in conjunctions with the various styles of vinyl floor tiles and was confirmed to be **non-asbestos**.
- Demolition, renovation or maintenance activities involving materials found NOT to contain asbestos, or not suspected of containing asbestos, should implement general health and safety precautions including, in part, the use of dust suppression.

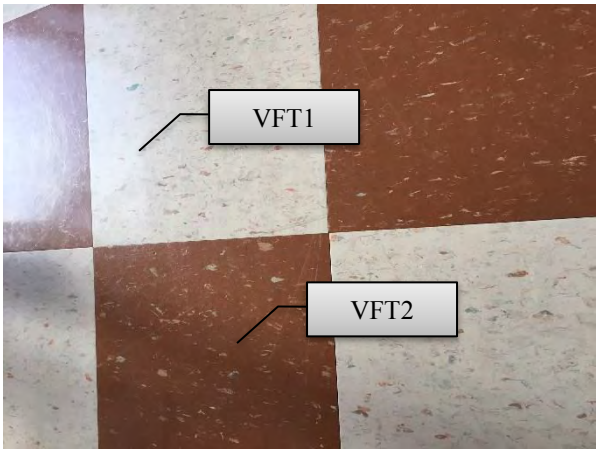


Photo 1: Non-asbestos vinyl floor tiles (VFT1 and VFT2).

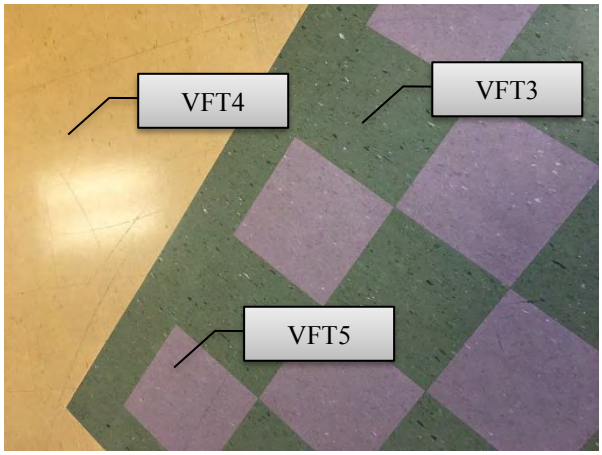


Photo 2: Non-asbestos vinyl floor tiles (VFT3, VFT4, and VFT5).

This report was prepared by ECOH Management Inc. (ECOH) for Hamilton Health Sciences. The material in it 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

Environmental Consulting
Occupational Health

Prepared By:

Brian Edwardson, M.S., B.Sc.(Env.)
Senior Project Manager

Attachment 1: Laboratory Analytical Report – Asbestos Bulk Sampling

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L4T 1G3
Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order:	551711762
Customer ID:	55ECOH45
Customer PO:	18439
Project ID:	

Attention:	Beth Lovegrove	**Phone:**	(416) 428-3151
	ECOH Management, Inc.	**Fax:**	(905) 795-2870
	75 Courtneypark Drive West	**Received Date:**	10/24/2017 4:13 PM
	Unit 1	**Analysis Date:**	10/26/2017 - 10/27/2017
	Mississauga, ON L5W 0E3	**Collected Date:**	10/24/2017
Project:	18439 St. Peters Hospital		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
18439- 01a-Floor Tile *551711762-0001*	Vinyl Floor Tile 1-12"x 12" Off-White with Coloured Fleck-E416	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 01a-Mastic *551711762-0001A*	Vinyl Floor Tile 1-12"x 12" Off-White with Coloured Fleck-E416	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 01b-Floor Tile *551711762-0002*	Vinyl Floor Tile 1-12"x 12" Off-White with Coloured Fleck-Central Wheel Chair Storage Room (across from W302)	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 01b-Mastic *551711762-0002A*	Vinyl Floor Tile 1-12"x 12" Off-White with Coloured Fleck-Central Wheel Chair Storage Room (across from W302)	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 01c-Floor Tile *551711762-0003*	Vinyl Floor Tile 1-12"x 12" Off-White with Coloured Fleck-Central Wheel Chair Storage Room (across from W302)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 01c-Mastic *551711762-0003A*	Vinyl Floor Tile 1-12"x 12" Off-White with Coloured Fleck-Central Wheel Chair Storage Room (across from W302)	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 02a-Floor Tile *551711762-0004*	Vinyl Floor Tile 2- 12" x12" Brown with White Fleck - W420	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 02a-Mastic *551711762-0004A*	Vinyl Floor Tile 2- 12" x12" Brown with White Fleck - W420	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 02b-Floor Tile *551711762-0005*	Vinyl Floor Tile 2- 12" x12" Brown with White Fleck - W420	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 02b-Mastic *551711762-0005A*	Vinyl Floor Tile 2- 12" x12" Brown with White Fleck - W420	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 02c *551711762-0006* *No mastic*	Vinyl Floor Tile 2- 12" x12" Brown with White Fleck - E319	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 10/27/2017 11:47:12

EMSL Canada Inc.
2756 Slough Street Mississauga, ON L4T 1G3
Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order:	551711762
Customer ID:	55ECOH45
Customer PO:	18439
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
18439- 03a *551711762-0007* *No Mastic*	Vinyl Floor Tile 3- 12" x12" -Green with Green Fleck- W220	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 03b *551711762-0008* *No Mastic*	Vinyl Floor Tile 3- 12" x12" -Green with Green Fleck- W220	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 03c *551711762-0009* *No mastic*	Vinyl Floor Tile 3- 12" x12" -Green with Green Fleck- W220	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 04a-Floor Tile *551711762-0010*	Vinyl Floor Tile 4- 12"x12" Orange with Orange Fleck- W203A	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 04a-Mastic *551711762-0010A*	Vinyl Floor Tile 4- 12"x12" Orange with Orange Fleck- W203A	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 04b-Floor Tile *551711762-0011*	Vinyl Floor Tile 4- 12"x12" Orange with Orange Fleck- W203A	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 04b-Mastic *551711762-0011A*	Vinyl Floor Tile 4- 12"x12" Orange with Orange Fleck- W203A	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 04c *551711762-0012* *No mastic*	Vinyl Floor Tile 4- 12"x12" Orange with Orange Fleck- W203A	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 05a-Floor Tile *551711762-0013*	Vinyl Floor Tile 5- 12"x12" Purple with Purple Fleck- West UP- Area (across from Nurses Station)	Purple Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 05a-Mastic *551711762-0013A*	Vinyl Floor Tile 5- 12"x12" Purple with Purple Fleck- West UP- Area (across from Nurses Station)	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 05b-Floor Tile *551711762-0014*	Vinyl Floor Tile 5- 12"x12" Purple with Purple Fleck- West UP- Area (across from Nurses Station)	Purple Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 05b-Mastic *551711762-0014A*	Vinyl Floor Tile 5- 12"x12" Purple with Purple Fleck- West UP- Area (across from Nurses Station)	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18439- 05c *551711762-0015* *No mastic*	Vinyl Floor Tile 5- 12"x12" Purple with Purple Fleck- West UP- Area (across from Nurses Station)	Purple Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 10/27/2017 11:47:12

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L4T 1G3

Tel/Fax: (289) 997-4602 / (289) 997-4607

http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order:	551711762
Customer ID:	55ECOH45
Customer PO:	18439
Project ID:	

Analyst(s)

Natalie D'Amico (6)

Shorthri Kalikutty (18)

Matthew Davis
or Other Approved Signatory

Initial report from: 10/27/2017 11:47:12

OrderID: 551711762

EMSL CANADA, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody
EMSL Order Number *(Lab Use Only)*:

551711762

EMSL CANADA, INC.
2756 SLOUGH STREET
MISSISSAUGA, ON L4T 1G3
PHONE: (289) 997-4602
FAX: (289) 997-4609

Company: ECOH		**EMSL-Bill to:** ☑ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*	
Street: 75 Courtneypark Dr. W., Unit 1			
City: Mississauga	**State/Province:** Ontario	**Zip/Postal Code:** L5W 0E3	**Country:** Canada
Report To (Name): Brian Edwardson		**Fax #:** 905-795-2870	
Telephone #: 905.795.2800		**Email Address:**	
Project Name/Number: 18439	**St. Peters Hospital**	bedwardson@ecoh.ca	
Please Provide Results: ☐ Fax ☑ Email	**Purchase Order:**	**U.S. State Samples Taken:**	

Turnaround Time (TAT) Options* - Please Check

☐ 3 Hours	☐ 6 Hours	☐ 24 Hrs	☐ 48 Hrs	☐ 3 Days	☐ 4 Days	☑ 5 Days	☐ 10 Days

**For TEM Air 3 hours/6 hours, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☑ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☑ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravometric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198-1 (friable in NY)
- ☐ NYS 198-1 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM - Air
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Anaylsis-EPA 600 sec 2.5

TEM - Water: EPA 100.2
- Fibres > 10µm ☐ Waste ☐ Drinking
- All Fibre Sizies ☐ Waste ☐ Drinking

TEM-Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☑ **Check For Positive Stop - Clearly Identify Homogenous Group**

Samplers Name: Annika West **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
18439- 01a	Vinyl Floor Tile 1 - 12"x12" Off-White with Coloured Fleck - E416		October 24, 2017
18439- 01b	Vinyl Floor Tile 1 - 12"x12" Off-White with Coloured Fleck - Central Wheel Chair Storage Room (across from W302)		October 24, 2017
18439- 01c	Vinyl Floor Tile 1 - 12"x12" Off-White with Coloured Fleck - Central Wheel Chair Storage Room (across from W302)		October 24, 2017
18439- 02a	Vinyl Floor Tile 2 - 12"x12" Brown with White Fleck - W420		October 24, 2017
18439- 02b	Vinyl Floor Tile 2 - 12"x12" Brown with White Fleck - W420		October 24, 2017
18439- 02c	Vinyl Floor Tile 2 - 12"x12" Brown with White Fleck - E319		October 24, 2017
18439- 03a	Vinyl Floor Tile 3 - 12"x12" Green with Green Fleck - W220		October 24, 2017
18439- 03b	Vinyl Floor Tile 3 - 12"x12" Green with Green Fleck - W220		October 24, 2017

Client Sample # (s): 18439-01a - 18439-05c **Total # of Samples:** 15

Relinquished (Client): B. Edwardson **Date:** October 24, 2017 **Time:**

Received (Lab): **Date:** **Time:**

Comments/Special Instructions:

10-24-17P04:13 RCVD W/C CD

OrderID: 551711762

EMSL CANADA, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only):*

551711762

EMSL CANADA, INC.
2756 SLOUGH STREET
MISSISSAUGA, ON L4T 1G3
PHONE: (289) 997-4602
FAX: (289) 997-4609

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
18439- 03c	Vinyl Floor Tile 3 - 12"x12" Green with Green Fleck - W220		October 24, 2017
18439- 04a	Vinyl Floor Tile 4 - 12"x12" Orange with Orange Fleck - W203A		October 24, 2017
18439- 04b	Vinyl Floor Tile 4 - 12"x12" Orange with Orange Fleck - W203A		October 24, 2017
18439- 04c	Vinyl Floor Tile 4 - 12"x12" Orange with Orange Fleck - W203A		October 24, 2017
18439- 05a	Vinyl Floor Tile 5 - 12"x12" Purple with Purple Fleck - West Up-Area (across from Nurses Station)		October 24, 2017
18439- 05b	Vinyl Floor Tile 5 - 12"x12" Purple with Purple Fleck - West Up-Area (across from Nurses Station)		October 24, 2017
18439- 05c	Vinyl Floor Tile 5 - 12"x12" Purple with Purple Fleck - West Up-Area (across from Nurses Station)		October 24, 2017

***Comments/Special Instructions:**

APPENDIX II-A

RESULTS OF BULK SAMPLE ANALYSIS FOR ASBESTOS
(2017 ANNUAL ACM REASSESSMENT)

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4
Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order:	551704003
Customer ID:	55ECOH45
Customer PO:	17429-SPH
Project ID:	

Attention:	Brittanie Semper	**Phone:**	(905) 795-2800
	ECOH Management, Inc.	**Fax:**	(905) 795-2870
	75 Courtneypark Drive West	**Received Date:**	04/12/2017 5:00 PM
	Unit 1	**Analysis Date:**	04/19/2017
	Mississauga, ON L5W 0E3	**Collected Date:**	03/30/2017 - 03/31/2017
Project:	17429-SPH St. Peter's Hospital		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-ASB-01A-Vinyl Floor Tile *551704003-0001*	9X9 VFT Brown w/ White Streaks Mobile Equipment Rm. Basement	Brown Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
17429-SPH-ASB-01A-Mastic *551704003-0001A*	9X9 VFT Brown w/ White Streaks Mobile Equipment Rm. Basement	Black Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
17429-SPH-ASB-01B-Vinyl Floor Tile *551704003-0002*	9X9 VFT Brown w/ White Streaks Mobile Equipment Rm. Basement	Brown Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
17429-SPH-ASB-01B-Mastic *551704003-0002A*	9X9 VFT Brown w/ White Streaks Mobile Equipment Rm. Basement	Black Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
17429-SPH-ASB-01C-Vinyl Floor Tile *551704003-0003*	9X9 VFT Brown w/ White Streaks Mobile Equipment Rm. Basement	Brown Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
17429-SPH-ASB-01C-Mastic *551704003-0003A*	9X9 VFT Brown w/ White Streaks Mobile Equipment Rm. Basement	Black Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
17429-SPH-ASB-02A-Vinyl Floor Tile *551704003-0004*	12x12 VFT Flower Pedal Nursing Storage Rm. Basement	Beige Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
17429-SPH-ASB-02A-Mastic *551704003-0004A*	12x12 VFT Flower Pedal Nursing Storage Rm. Basement	Yellow Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
17429-SPH-ASB-02B-Vinyl Floor Tile *551704003-0005*	12x12 VFT Flower Pedal Nursing Storage Rm. Basement	Beige Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
17429-SPH-ASB-02B-Mastic *551704003-0005A*	12x12 VFT Flower Pedal Nursing Storage Rm. Basement	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-02C-Vinyl Floor Tile *551704003-0006*	12x12 VFT Flower Pedal Nursing Storage Rm. Basement	Beige Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
17429-SPH-ASB-02C-Mastic *551704003-0006A*	12x12 VFT Flower Pedal Nursing Storage Rm. Basement	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/19/2017 19:07:19

EMSL Canada Inc.
2756 Slough Street Mississauga, ON L9T 5N4
Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order: 551704003
Customer ID: 55ECOH45
Customer PO: 17429-SPH
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-ASB-03A-Vinyl Floor Tile *551704003-0007*	12x12 VFT Grey Central Sterile Supply Basement	Tan Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
17429-SPH-ASB-03A-Mastic *551704003-0007A*	12x12 VFT Grey Central Sterile Supply Basement	Black/Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-03B-Vinyl Floor Tile *551704003-0008*	12x12 VFT Grey Central Sterile Supply Basement	Tan Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
17429-SPH-ASB-03B-Mastic *551704003-0008A*	12x12 VFT Grey Central Sterile Supply Basement	Black/Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-03C-Vinyl Floor Tile *551704003-0009*	12x12 VFT Grey Central Sterile Supply Basement	Tan Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
17429-SPH-ASB-03C-Mastic *551704003-0009A*	12x12 VFT Grey Central Sterile Supply Basement	Black/Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-04A-Vinyl Floor Tile *551704003-0010*	12x12 VFT Beige w/ Gold Glitter Streaks Rehab Storage Basement	Beige Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
17429-SPH-ASB-04A-Mastic *551704003-0010A*	12x12 VFT Beige w/ Gold Glitter Streaks Rehab Storage Basement	Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-04B-Vinyl Floor Tile *551704003-0011*	12x12 VFT Beige w/ Gold Glitter Streaks Rehab Storage Basement	Beige Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
17429-SPH-ASB-04B-Mastic *551704003-0011A*	12x12 VFT Beige w/ Gold Glitter Streaks Rehab Storage Basement	Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-04C-Vinyl Floor Tile *551704003-0012*	12x12 VFT Beige w/ Gold Glitter Streaks Rehab Storage Basement	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-04C-Mastic *551704003-0012A*	12x12 VFT Beige w/ Gold Glitter Streaks Rehab Storage Basement	Black Fibrous Heterogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
17429-SPH-ASB-05A-Vinyl Floor Tile *551704003-0013*	12x12 VFT White w/ Black Specks Basement	Gray Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
17429-SPH-ASB-05A-Mastic *551704003-0013A*	12x12 VFT White w/ Black Specks Basement	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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EMSL Canada Inc.
2756 Slough Street Mississauga, ON L9T 5N4
Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order: 551704003
Customer ID: 55ECOH45
Customer PO: 17429-SPH
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-ASB-05B-Vinyl Floor Tile *551704003-0014*	12x12 VFT White w/ Black Specks Basement	Gray Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
17429-SPH-ASB-05B-Mastic *551704003-0014A*	12x12 VFT White w/ Black Specks Basement	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-05C-Vinyl Floor Tile *551704003-0015*	12x12 VFT White w/ Black Specks Basement	Gray Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
17429-SPH-ASB-05C-Mastic *551704003-0015A*	12x12 VFT White w/ Black Specks Basement	Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-06A-Vinyl Floor Tile *551704003-0016*	12x12 VFT Beige & Brown Stokes Storage Rm. (1st Floor)	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-06A-Mastic *551704003-0016A*	12x12 VFT Beige & Brown Stokes Storage Rm. (1st Floor)	Black Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
17429-SPH-ASB-06B-Vinyl Floor Tile *551704003-0017*	12x12 VFT Beige & Brown Stokes Storage Rm. (1st Floor)	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-06B-Mastic *551704003-0017A*	12x12 VFT Beige & Brown Stokes Storage Rm. (1st Floor)	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-06C-Vinyl Floor Tile *551704003-0018*	12x12 VFT Beige & Brown Stokes Storage Rm. (1st Floor)	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-06C-Mastic *551704003-0018A*	12x12 VFT Beige & Brown Stokes Storage Rm. (1st Floor)	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-07A-Vinyl Floor Tile *551704003-0019*	12x12 VFT Beige Mottled Storage (1st Floor)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-07A-Mastic *551704003-0019A*	12x12 VFT Beige Mottled Storage (1st Floor)	Black Fibrous Heterogeneous	4% Cellulose	96% Non-fibrous (Other)	None Detected
17429-SPH-ASB-07B-Vinyl Floor Tile *551704003-0020*	12x12 VFT Beige Mottled Storage (1st Floor)	White Fibrous Homogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
17429-SPH-ASB-07B-Mastic *551704003-0020A*	12x12 VFT Beige Mottled Storage (1st Floor)	Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected

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EMSL Canada Inc.
2756 Slough Street Mississauga, ON L9T 5N4
Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order: 551704003
Customer ID: 55ECOH45
Customer PO: 17429-SPH
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-ASB-07C-Vinyl Floor Tile *551704003-0021*	12x12 VFT Beige Mottled Storage (1st Floor)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-07C-Mastic *551704003-0021A*	12x12 VFT Beige Mottled Storage (1st Floor)	Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-08A-Vinyl Floor Tile *551704003-0022*	12x12 VFT Blue Mottled First Floor Bathing Rm.	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-08A-Mastic *551704003-0022A*	12x12 VFT Blue Mottled First Floor Bathing Rm.	Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-08B-Vinyl Floor Tile *551704003-0023*	12x12 VFT Blue Mottled First Floor Bathing Rm.	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-08B-Mastic *551704003-0023A*	12x12 VFT Blue Mottled First Floor Bathing Rm.	Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-08C-Vinyl Floor Tile *551704003-0024*	12x12 VFT Blue Mottled First Floor Bathing Rm.	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-08C-Mastic *551704003-0024A*	12x12 VFT Blue Mottled First Floor Bathing Rm.	Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-09A-Vinyl Floor Tile *551704003-0025*	12x12 VFT Blue/Teal Paint Strokes Sunroom (3rd Floor)	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-09A-Mastic *551704003-0025A*	12x12 VFT Blue/Teal Paint Strokes Sunroom (3rd Floor)	Yellow Fibrous Heterogeneous	3% Cellulose	97% Non-fibrous (Other)	None Detected
17429-SPH-ASB-09B-Vinyl Floor Tile *551704003-0026*	12x12 VFT Blue/Teal Paint Strokes Sunroom (3rd Floor)	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-09B-Mastic *551704003-0026A*	12x12 VFT Blue/Teal Paint Strokes Sunroom (3rd Floor)	Yellow Fibrous Heterogeneous	2% Cellulose	98% Non-fibrous (Other)	None Detected
17429-SPH-ASB-09C-Vinyl Floor Tile *551704003-0027*	12x12 VFT Blue/Teal Paint Strokes Sunroom (3rd Floor)	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-09C-Mastic *551704003-0027A*	12x12 VFT Blue/Teal Paint Strokes Sunroom (3rd Floor)	Yellow Fibrous Heterogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
17429-SPH-ASB-10A *551704003-0028* *No mastic*	12x12 VFT Mint 2nd Floor East/West Wing Conference Room	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/19/2017 19:07:19

EMSL Canada Inc.
2756 Slough Street Mississauga, ON L9T 5N4
Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order:	551704003
Customer ID:	55ECOH45
Customer PO:	17429-SPH
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-ASB-10B *551704003-0029* *No mastic*	12x12 VFT Mint 2nd Floor East/West Wing Conference Room	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-10C *551704003-0030* *No mastic*	12x12 VFT Mint 2nd Floor East/West Wing Conference Room	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-11A *551704003-0031*	Interior Window Caulking South Building Third Floor Stairwell	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-11B *551704003-0032*	Interior Window Caulking South Building Third Floor Stairwell	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-11C *551704003-0033*	Interior Window Caulking South Building Third Floor Stairwell	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-12A *551704003-0034*	DJC Corridor Attaching South Building to East/West Wings (2nd Floor)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-12B *551704003-0035*	DJC Corridor Attaching South Building to East/West Wings (2nd Floor)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-12C *551704003-0036*	DJC Corridor Attaching South Building to East/West Wings (2nd Floor)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-13A *551704003-0037*	Plaster Coating on Railing Ramp to South Building	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-13B *551704003-0038*	Plaster Coating on Railing Ramp to South Building	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-13C *551704003-0039*	Plaster Coating on Railing Ramp to South Building	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-14A *551704003-0040*	VSF + Paper Elevator Lobby 1st Floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-14B *551704003-0041*	VSF + Paper Elevator Lobby 1st Floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ASB-14C *551704003-0042*	VSF + Paper Elevator Lobby 1st Floor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/19/2017 19:07:19

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4

Tel/Fax: (289) 997-4602 / (289) 997-4607

http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order:	551704003
Customer ID:	55ECOH45
Customer PO:	17429-SPH
Project ID:	

Analyst(s)

Shauna Strnad (69)

Matthew Davis
or Other Approved Signatory

Initial report from: 04/19/2017 19:07:19

APPENDIX II-B

RESULTS OF BULK SAMPLE ANALYSIS FOR ASBESTOS (PREVIOUS SAMPLING)

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4
Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order: 551703977
Customer ID: 55ECOH45
Customer PO:
Project ID:

Attention: Brittanie Semper
ECOH Management, Inc.
75 Courtneypark Drive West
Unit 1
Mississauga, ON L5W 0E3
Project: 17429 - SPH ST.PETER'S ALEXANDER WING

Phone: (905) 795-2800
Fax: (905) 795-2870
Received Date: 04/12/2017 5:00 PM
Analysis Date: 04/19/2017
Collected Date: 03/30/2017

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429 -SPH-ALEX1 01A *551703977-0001*	DJC WALL ENTRY VESTIBULE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429 -SPH-ALEX1 01B *551703977-0002*	DJC WALL ENTRY VESTIBULE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429 -SPH-ALEX1 01C *551703977-0003*	DJC WALL WOMEN'S WASHROOM	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429 -SPH-ALEX1 01D *551703977-0004*	DJC WALL OFFICE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429 -SPH-ALEX1 01E *551703977-0005*	DJC WALL WAITING AREA	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429 -SPH-ALEX1 01F *551703977-0006*	DJC WALL CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX1 01G *551703977-0007*	DJC WALL CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX1 05A *551703977-0008*	DJC CEILING OFFICE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX1 05B *551703977-0009*	DJC CEILING ELEVATOR LOBBY	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX1 05C *551703977-0010*	DJC CEILING CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX1 05D *551703977-0011*	DJC CEILING CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX1 05E *551703977-0012*	DJC CEILING CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX2 01A *551703977-0013*	DJC WALL CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX2 01B *551703977-0014*	DJC WALL CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/19/2017 18:42:18

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4

Tel/Fax: (289) 997-4602 / (289) 997-4607

http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order:	551703977
Customer ID:	55ECOH45
Customer PO:	
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-ALEX2 01C *551703977-0015*	DJC WALL CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX2 01D *551703977-0016*	DJC WALL CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-ALEX2 01E *551703977-0017*	DJC WALL CORRIDOR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

John Biesiadecki (10)

Jon Delos Santos (7)

Matthew Davis
or Other Approved Signatory

Initial report from: 04/19/2017 18:42:18

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4
Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order:	551704004
Customer ID:	55ECOH45
Customer PO:	17429-SPH
Project ID:	

Attention:	Brittanie Semper	**Phone:**	(905) 795-2800
	ECOH Management, Inc.	**Fax:**	(905) 795-2870
	75 Courtneypark Drive West	**Received Date:**	04/12/2017 5:00 PM
	Unit 1	**Analysis Date:**	04/19/2017
	Mississauga, ON L5W 0E3	**Collected Date:**	03/30/2017
Project:	17429-SPH St. Peter's SOUTH BUILDING		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-S0-02A-Skim Coat *551704004-0001*	Plaster Wall Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02A-Rough Coat *551704004-0001A*	Plaster Wall Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02B *551704004-0002* *Inseperable layers*	Plaster Wall Supply Rm.	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02C-Skim Coat *551704004-0003*	Plaster Wall Housekeeping Supply Stores	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02C-Rough Coat *551704004-0003A*	Plaster Wall Housekeeping Supply Stores	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02D *551704004-0004* *Inseperable layers*	Plaster Wall Elec/Transformer Rm.	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02E-Skim Coat *551704004-0005*	Plaster Wall Nursing Storage Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02E-Rough Coat *551704004-0005A*	Plaster Wall Nursing Storage Rm.	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02F-Skim Coat *551704004-0006*	Plaster Wall Central Supply	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02F-Rough Coat *551704004-0006A*	Plaster Wall Central Supply	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02G-Skim Coat *551704004-0007*	Plaster Wall Food Services	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-02G-Rough Coat *551704004-0007A*	Plaster Wall Food Services	Gray Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile

Initial report from: 04/19/2017 21:19:16

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2756 Slough Street Mississauga, ON L9T 5N4
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http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order: 551704004
Customer ID: 55ECOH45
Customer PO: 17429-SPH
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-S0-06A-Skim Coat *551704004-0008*	Plaster Ceiling House Keeping Supply Stores	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06A-Rough Coat *551704004-0008A*	Plaster Ceiling House Keeping Supply Stores	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06B-Skim Coat *551704004-0009*	Plaster Ceiling House Keeping Supply Stores	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06B-Rough Coat *551704004-0009A*	Plaster Ceiling House Keeping Supply Stores	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06C *551704004-0010* *Inseperable layers*	Plaster Ceiling Corridor	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06D-Skim Coat *551704004-0011*	Plaster Ceiling Storage	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06D-Rough Coat *551704004-0011A*	Plaster Ceiling Storage	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06E-Skim Coat *551704004-0012*	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06E-Rough Coat *551704004-0012A*	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06F-Skim Coat *551704004-0013*	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S0-06F-Rough Coat *551704004-0013A*	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S0-06G *551704004-0014*	Plaster Ceiling Storage	Gray Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S0-07A *551704004-0015*	1'x1' Glue on CT Random Fissure Pattern Basement S005	Gray Fibrous Homogeneous	25% Cellulose 40% Min. Wool	35% Non-fibrous (Other)	None Detected
17429-SPH-S0-07B *551704004-0016*	1'x1' Glue on CT Random Fissure Pattern Basement S005	Gray Fibrous Homogeneous	35% Cellulose 40% Min. Wool	25% Non-fibrous (Other)	None Detected
17429-SPH-S0-07C *551704004-0017*	1'x1' Glue on CT Random Fissure Pattern Basement S005	Gray Fibrous Homogeneous	70% Min. Wool	30% Non-fibrous (Other)	None Detected

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EMSL Canada Order:	551704004
Customer ID:	55ECOH45
Customer PO:	17429-SPH
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-S1-02A *551704004-0018* *Inseperable layers*	Plaster Wall Corridor	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-02B *551704004-0019* *Inseperable layers*	Plaster Wall Corridor	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-02C *551704004-0020* *Inseperable layers*	Plaster Wall Corridor	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-02D *551704004-0021* *Inseperable layers*	Plaster Wall Corridor	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-02E-Skim Coat *551704004-0022*	Plaster Wall Corridor	White Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S1-02E-Rough Coat *551704004-0022A*	Plaster Wall Corridor	Gray Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S1-02F-Skim Coat *551704004-0023*	Plaster Wall Corridor	White Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S1-02F-Rough Coat *551704004-0023A*	Plaster Wall Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
17429-SPH-S1-02G *551704004-0024* *Inseparable layers*	Plaster Wall Storage	Gray/White Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S1-06A-Skim Coat *551704004-0025*	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-06A-Rough Coat *551704004-0025A*	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-06B-Skim Coat *551704004-0026*	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-06B-Rough Coat *551704004-0026A*	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-06C-Skim Coat *551704004-0027*	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order: 551704004
Customer ID: 55ECOH45
Customer PO: 17429-SPH
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-S1-06C-Rough Coat *551704004-0027A*	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-06D *551704004-0028* *Inseperable layers*	Plaster Ceiling Corridor	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-06E-Skim Coat *551704004-0029*	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S1-06E-Rough Coat *551704004-0029A*	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-06F-Skim Coat *551704004-0030*	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S1-06F-Rough Coat *551704004-0030A*	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S1-06G-Skim Coat *551704004-0031*	Plaster Ceiling Corridor	White Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S1-06G-Rough Coat *551704004-0031A*	Plaster Ceiling Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-02A-Skim Coat *551704004-0032*	Plaster Wall Sunroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-02A-Rough Coat *551704004-0032A*	Plaster Wall Sunroom	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-02B *551704004-0033* *Inseperable layers*	Plaster Wall Corridor	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-02C *551704004-0034*	Plaster Wall Walker Storage Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-02D *551704004-0035* *Inseperable layers*	Plaster Wall Shower Rm.	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-02E *551704004-0036* *inseparable layers*	Plaster Wall Nursing Station	Gray/White Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
17429-SPH-S2-02F *551704004-0037*	Plaster Wall Complex Care	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order: 551704004
Customer ID: 55ECOH45
Customer PO: 17429-SPH
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-S2-02G *551704004-0038* *inseparable layers*	Plaster Wall Corridor	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-06A *551704004-0039*	Plaster Ceiling Washroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-06B *551704004-0040* *Inseperable layers*	Plaster Ceiling Nursing Station	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-06C *551704004-0041* *Inseperable layers*	Plaster Ceiling Nursing Station	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-06D *551704004-0042* *Inseperable layers*	Plaster Ceiling Storage Closet	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-06E *551704004-0043* *Inseparable layers*	Plaster Ceiling Storage Closet	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-06F *551704004-0044* *Inseparable layers*	Plaster Ceiling Whirlpool Rm.	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S2-06G *551704004-0045* *Inseparable layers*	Plaster Ceiling Whirlpool Rm.	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-02A *551704004-0046*	Plaster Wall Sunroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-02B *551704004-0047*	Plaster Wall Wheelchair Storage	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-02C *551704004-0048* *Inseperable layers*	Plaster Wall Patient Washroom	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-02D *551704004-0049* *Inseperable layers*	Plaster Wall Corridor	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-02E *551704004-0050*	Plaster Wall Dirty Utility Rm.	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-02F *551704004-0051*	Plaster Wall Wheelchair Storage	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-02G *551704004-0052*	Plaster Wall Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-06A *551704004-0053*	Plaster Ceiling Washroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 04/19/2017 21:19:16

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EMSL Canada Order:	551704004
Customer ID:	55ECOH45
Customer PO:	17429-SPH
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-S3-06B *551704004-0054*	Plaster Ceiling Patient Washroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-06C *551704004-0055*	Plaster Ceiling Patient Washroom	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-06D *551704004-0056*	Plaster Ceiling Oxygen Supply Closet	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-06E *551704004-0057*	Plaster Ceiling Oxygen Supply Closet	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-06F *551704004-0058*	Plaster Ceiling Housekeeping Closet	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17429-SPH-S3-06G *551704004-0059*	Plaster Ceiling Housekeeping Closet	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

John Biesiadecki (35)
Natalie D'Amico (43)

Matthew Davis
or Other Approved Signatory

Initial report from: 04/19/2017 21:19:16

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4
Phone/Fax: (289) 997-4602 / (289) 997-4607
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EMSL Canada Order:	551704004
Customer ID:	55ECOH45
Customer PO:	17429-SPH
Project ID:	

Attention:	Brittanie Semper ECOH Management, Inc. 75 Courtneypark Drive West Unit 1 Mississauga, ON L5W 0E3	**Phone:**	(905) 795-2800
		Fax:	(905) 795-2870
		Received:	04/12/2017 5:00 PM
		Analysis Date:	04/19/2017
		Collected:	03/30/2017
Project:	17429-SPH St. Peter's SOUTH BUILDING		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
17429-SPH-S1-02F- Rough Coat *551704004-0023A*	Plaster Wall Corridor	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**<0.25% Chrysotile**

Analyst(s)

John Biesiadecki (1)

Matthew Davis
or other approved signatory

Disclaimer:Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government . EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis.The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Canada Inc. Mississauga, ON NVLAP Lab Code 200877-0

Report amended: 05/02/2017 12:10:43 Replaces initial report from: 04/19/2017 21:19:37 Reason Code: Client-Change to Sample ID

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4
Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order: 551704005
Customer ID: 55ECOH45
Customer PO: 17429-SPH
Project ID:

Attention: Brittanie Semper
ECOH Management, Inc.
75 Courtneypark Drive West
Unit 1
Mississauga, ON L5W 0E3
Project: 17429-SPH St. Peter's EAST/WEST WING

Phone: (905) 795-2800
Fax: (905) 795-2870
Received Date: 04/12/2017 5:00 PM
Analysis Date: 04/19/2017
Collected Date: 03/30/2017 - 03/31/2017

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
174-SPH-EW0-01A *551704005-0001*	DJC Wall Basement "Stores"	Gray/White Non-Fibrous Homogeneous	<1% Cellulose	2% Mica 95% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW0-01B *551704005-0002*	DJC Wall Human Resources	White Non-Fibrous Homogeneous		2% Ca Carbonate 2% Mica 96% Non-fibrous (Other)	None Detected
174-SPH-EW0-01C *551704005-0003*	DJC Wall Office	White Non-Fibrous Homogeneous	<1% Cellulose	10% Ca Carbonate <1% Mica 90% Non-fibrous (Other)	None Detected
174-SPH-EW0-01D *551704005-0004*	DJC Wall Library/Conference Rm.	White/Beige Non-Fibrous Homogeneous		2% Mica 96% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW0-01E *551704005-0005*	DJC Wall Fire Mechcanical Rm.	White Non-Fibrous Homogeneous		2% Mica 98% Non-fibrous (Other)	None Detected
174-SPH-EW0-01F *551704005-0006*	DJC Wall Printer Rm.	Gray/White Non-Fibrous Homogeneous		3% Mica 95% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW0-01G *551704005-0007*	DJC Wall Classroom "B"	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
174-SPH-EW0-04A-Joint Compound *551704005-0008*	24x48 CT Basement IT Room	White Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
174-SPH-EW0-04A-Ceiling Tile *551704005-0008A*	24x48 CT Basement IT Room	Brown Fibrous Homogeneous	40% Cellulose 30% Min. Wool	20% Perlite 10% Non-fibrous (Other)	None Detected
174-SPH-EW0-04B-Joint Compound *551704005-0009*	24x48 CT Basement IT Room	White Non-Fibrous Homogeneous	<1% Glass	100% Non-fibrous (Other)	None Detected
174-SPH-EW0-04B-Ceiling Tile *551704005-0009A*	24x48 CT Basement IT Room	Brown/Gray Fibrous Homogeneous	30% Cellulose 30% Min. Wool	30% Perlite 10% Non-fibrous (Other)	None Detected
174-SPH-EW0-04C *551704005-0010*	24x48 CT Basement IT Room	Brown/Gray Fibrous Homogeneous	30% Cellulose 30% Min. Wool	30% Perlite 10% Non-fibrous (Other)	None Detected
174-SPH-EW0-05A *551704005-0011*	DJC Ceiling Men's Washroom	White Non-Fibrous Homogeneous	<1% Cellulose	<1% Mica 98% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW0-05B *551704005-0012*	DJC Ceiling Men's Washroom	White/Beige Non-Fibrous Homogeneous		2% Mica 95% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW0-05C *551704005-0013*	DJC Ceiling Women's Washroom	Gray/Beige Non-Fibrous Homogeneous		2% Mica 94% Non-fibrous (Other)	4% Chrysotile

Initial report from: 04/19/2017 12:15:59

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2756 Slough Street Mississauga, ON L9T 5N4
Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order: 551704005
Customer ID: 55ECOH45
Customer PO: 17429-SPH
Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
174-SPH-EW0-05D *551704005-0014*	DJC Ceiling Women's Washroom	Gray/White Non-Fibrous Homogeneous		2% Mica 95% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW0-05E *551704005-0015*	DJC Ceiling Women's Washroom	Gray Non-Fibrous Homogeneous		3% Mica 93% Non-fibrous (Other)	4% Chrysotile
174-SPH-EW1-01A *551704005-0016*	DJC Wall Cold Prep Area	White Non-Fibrous Homogeneous	<1% Cellulose <1% Wollastonite	2% Ca Carbonate <1% Mica 98% Non-fibrous (Other)	None Detected
174-SPH-EW1-01B *551704005-0017*	DJC Wall Corridor	White Non-Fibrous Homogeneous		<1% Mica 100% Non-fibrous (Other)	None Detected
174-SPH-EW1-01C *551704005-0018*	DJC Wall Easy Street	White/Beige Non-Fibrous Homogeneous		<1% Mica 98% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW1-01D *551704005-0019*	DJC Wall Easy Street	Beige Non-Fibrous Homogeneous		<1% Mica 98% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW1-01E *551704005-0020*	DJC Wall Foyer	Gray Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
174-SPH-EW1-01F *551704005-0021*	DJC Wall Corridor	Gray/White Non-Fibrous Homogeneous		2% Mica 95% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW1-01G *551704005-0022*	DJC Wall Recreation Room Easy Street	Gray/White Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
174-SPH-EW1-03A-Coating *551704005-0023*	12x24 CT Glue-on Receration Room Easy Street	White Non-Fibrous Homogeneous	<1% Cellulose <1% Glass	100% Non-fibrous (Other)	None Detected
174-SPH-EW1-03A-Ceiling Tile *551704005-0023A*	12x24 CT Glue-on Receration Room Easy Street	Gray Fibrous Homogeneous	20% Cellulose 70% Min. Wool	10% Non-fibrous (Other)	None Detected
174-SPH-EW1-03B-Coating *551704005-0024*	12x24 CT Glue-on Receration Room Easy Street	White Non-Fibrous Homogeneous	<1% Cellulose 2% Glass	98% Non-fibrous (Other)	None Detected
174-SPH-EW1-03B-Ceiling Tile *551704005-0024A*	12x24 CT Glue-on Receration Room Easy Street	Gray Fibrous Homogeneous	20% Cellulose 70% Min. Wool	10% Non-fibrous (Other)	None Detected
174-SPH-EW1-03C-Coating *551704005-0025*	12x24 CT Glue-on Receration Room Easy Street	White Non-Fibrous Homogeneous	<1% Cellulose 2% Glass	98% Non-fibrous (Other)	None Detected
174-SPH-EW1-03C-Ceiling Tile *551704005-0025A*	12x24 CT Glue-on Receration Room Easy Street	Brown/Gray Fibrous Homogeneous	20% Cellulose 70% Min. Wool	10% Non-fibrous (Other)	None Detected
174-SPH-EW1-05A *551704005-0026*	DJC Ceiling Easy Street Entrance	White Non-Fibrous Homogeneous	<1% Cellulose	2% Ca Carbonate <1% Mica 98% Non-fibrous (Other)	None Detected
174-SPH-EW1-05B *551704005-0027*	DJC Ceiling Easy Street Entrance	White Non-Fibrous Homogeneous	<1% Glass	2% Ca Carbonate <1% Mica 98% Non-fibrous (Other)	None Detected

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2756 Slough Street Mississauga, ON L9T 5N4
Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order:	551704005
Customer ID:	55ECOH45
Customer PO:	17429-SPH
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
174-SPH-EW1-05C *551704005-0028*	DJC Ceiling Easy Street	White Non-Fibrous Homogeneous	<1% Glass	2% Ca Carbonate <1% Mica 98% Non-fibrous (Other)	None Detected
174-SPH-EW1-05D *551704005-0029* *Inseparable paint / coating layer included in analysis*	DJC Ceiling Corridor	White Non-Fibrous Homogeneous	2% Cellulose	<1% Mica 98% Non-fibrous (Other)	<1% Chrysotile
174-SPH-EW1-05E *551704005-0030*	DJC Ceiling Corridor	White/Beige Non-Fibrous Homogeneous		3% Mica 95% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW1-05F *551704005-0031*	DJC Ceiling Corridor	Gray/White Non-Fibrous Homogeneous		3% Mica 95% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW1-05G *551704005-0032*	DJC Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
174-SPH-EW2-01A *551704005-0033*	DJC Wall Corridor	Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW2-01B *551704005-0034*	DJC Wall Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
174-SPH-EW2-01C *551704005-0035*	DJC Wall Corridor	White/Beige Non-Fibrous Homogeneous		<1% Mica 100% Non-fibrous (Other)	<1% Chrysotile
174-SPH-EW2-01D *551704005-0036*	DJC Wall Corridor	White Non-Fibrous Homogeneous		2% Ca Carbonate 98% Non-fibrous (Other)	None Detected
174-SPH-EW2-01E *551704005-0037*	DJC Wall Corridor	White Non-Fibrous Homogeneous		<1% Mica 100% Non-fibrous (Other)	None Detected
174-SPH-EW2-01F *551704005-0038*	DJC Wall Bathing Rm	White Non-Fibrous Homogeneous		2% Mica 98% Non-fibrous (Other)	None Detected
174-SPH-EW2-01G *551704005-0039*	DJC Wall Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
174-SPH-EW2-05A *551704005-0040*	DJC Ceiling Corridor	White/Beige Non-Fibrous Homogeneous		2% Ca Carbonate 98% Non-fibrous (Other)	None Detected
174-SPH-EW2-05B *551704005-0041*	DJC Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
174-SPH-EW2-05C *551704005-0042*	DJC Ceiling Confernce Rm.	White Non-Fibrous Homogeneous	<1% Cellulose	2% Mica 98% Non-fibrous (Other)	None Detected
174-SPH-EW2-05D *551704005-0043*	DJC Ceiling Bathing Rm.	Gray/White Non-Fibrous Homogeneous		<1% Mica 100% Non-fibrous (Other)	None Detected
174-SPH-EW2-05E *551704005-0044*	DJC Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
174-SPH-EW2-05F *551704005-0045*	DJC Ceiling Patient Lounge	White/Beige Non-Fibrous Homogeneous		3% Mica 94% Non-fibrous (Other)	3% Chrysotile

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Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

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Project ID:

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
174-SPH-EW2-05G *551704005-0046*	DJC Ceiling Patient Lounge	White/Beige Non-Fibrous Homogeneous		3% Mica 95% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW3-01A *551704005-0047*	DJC Wall Corridor	Gray/White Non-Fibrous Homogeneous		5% Mica 92% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW3-01B *551704005-0048*	DJC Wall Corridor	Gray/White/Beige Non-Fibrous Homogeneous		3% Mica 94% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW3-01C *551704005-0049*	DJC Wall Corridor	White Non-Fibrous Homogeneous		2% Mica 98% Non-fibrous (Other)	None Detected
174-SPH-EW3-01D *551704005-0050*	DJC Wall Corridor	Beige Non-Fibrous Homogeneous		2% Mica 95% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW3-01E *551704005-0051*	DJC Wall Utility Rm.	White Non-Fibrous Homogeneous		2% Ca Carbonate 2% Mica 96% Non-fibrous (Other)	None Detected
174-SPH-EW3-01F *551704005-0052*	DJC Wall Therapeutic Rec. Rm.	Beige Non-Fibrous Homogeneous		2% Mica 96% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW3-01G *551704005-0053*	DJC Wall Laundry Rm.	Gray Non-Fibrous Homogeneous	<1% Cellulose	2% Mica 95% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW3-05A *551704005-0054*	DJC Ceiling Corridor	Gray/White Non-Fibrous Homogeneous		3% Mica 94% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW3-05B *551704005-0055*	DJC Ceiling Corridor	Beige Non-Fibrous Homogeneous		4% Mica 96% Non-fibrous (Other)	<1% Chrysotile
174-SPH-EW3-05C *551704005-0056*	DJC Ceiling Corridor	Tan Non-Fibrous Homogeneous		5% Mica 93% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW3-05D *551704005-0057*	DJC Ceiling Staff Rm.	Beige Non-Fibrous Homogeneous		5% Mica 93% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW3-05E *551704005-0058*	DJC Ceiling Utility Rm.	White Non-Fibrous Homogeneous		4% Ca Carbonate <1% Mica 96% Non-fibrous (Other)	None Detected
174-SPH-EW3-05F *551704005-0059*	DJC Ceiling Staff Washroom	Beige Non-Fibrous Homogeneous	<1% Cellulose	2% Mica 95% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW3-05G *551704005-0060*	DJC Ceiling Corridor	White Non-Fibrous Homogeneous		2% Mica 94% Non-fibrous (Other)	4% Chrysotile
174-SPH-EW4-01A *551704005-0061* *Inseparable paint / coating layer included in analysis*	DJC Wall Corridor	Gray/White/Pink Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
174-SPH-EW4-01B *551704005-0062*	DJC Wall Corridor	White Non-Fibrous Homogeneous		2% Mica 98% Non-fibrous (Other)	None Detected
174-SPH-EW4-01C *551704005-0063*	DJC Wall Corridor	Gray Non-Fibrous Homogeneous		4% Mica 93% Non-fibrous (Other)	3% Chrysotile

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Tel/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
174-SPH-EW4-01D *551704005-0064*	DJC Wall Corridor	Beige Non-Fibrous Homogeneous		3% Mica 95% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW4-01E *551704005-0065*	DJC Wall W401 Washroom	White/Beige Non-Fibrous Homogeneous		2% Mica 95% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW4-01F *551704005-0066*	DJC Wall Corridor	Gray/Beige Non-Fibrous Homogeneous		2% Mica 96% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW4-01G *551704005-0067*	DJC Wall Corridor	White Non-Fibrous Homogeneous	<1% Cellulose	12% Ca Carbonate 88% Non-fibrous (Other)	None Detected
174-SPH-EW4-05A *551704005-0068*	DJC Ceiling Washroom	Gray Non-Fibrous Homogeneous		3% Mica 95% Non-fibrous (Other)	2% Chrysotile
174-SPH-EW4-05B *551704005-0069*	DJC Ceiling Therapeutic Rec. Rm.	White Non-Fibrous Homogeneous		3% Ca Carbonate 5% Mica 92% Non-fibrous (Other)	None Detected
174-SPH-EW4-05C *551704005-0070*	DJC Ceiling Linen Closet	White Non-Fibrous Homogeneous		2% Ca Carbonate 4% Mica 94% Non-fibrous (Other)	None Detected
174-SPH-EW4-05D *551704005-0071*	DJC Ceiling Corridor	White Non-Fibrous Homogeneous		3% Ca Carbonate 4% Mica 93% Non-fibrous (Other)	None Detected
174-SPH-EW4-05E *551704005-0072*	DJC Ceiling Therapeutic Rec. Rm.	White/Beige Non-Fibrous Homogeneous		2% Mica 95% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW4-05F *551704005-0073*	DJC Ceiling Corridor	White/Beige Non-Fibrous Homogeneous	<1% Cellulose	3% Mica 94% Non-fibrous (Other)	3% Chrysotile
174-SPH-EW4-05G *551704005-0074*	DJC Ceiling Corridor	Beige Non-Fibrous Homogeneous		3% Mica 97% Non-fibrous (Other)	<1% Chrysotile

Analyst(s)

Eric Budai (29)
Rebecca Newman (41)
Ryan Shannon (9)

Matthew Davis
or Other Approved Signatory

Initial report from: 04/19/2017 12:15:59

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4
Phone/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order: 551704005
Customer ID: 55ECOH45
Customer PO: 17429-SPH
Project ID:

Attention: Brittanie Semper
ECOH Management, Inc.
75 Courtneypark Drive West
Unit 1
Mississauga, ON L5W 0E3
Project: 17429-SPH St. Peter's EAST/WEST WING

Phone: (905) 795-2800
Fax: (905) 795-2870
Received: 04/12/2017 5:00 PM
Analysis Date: 04/19/2017
Collected: 03/30/2017 - 03/31/2017

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
174-SPH-EW0-01G *551704005-0007*	DJC Wall Classroom "B"	White Non-Fibrous Homogeneous		99.50% Non-fibrous (Other)	**0.50% Chrysotile**
174-SPH-EW1-05D *551704005-0029*	DJC Ceiling Corridor	White Non-Fibrous Homogeneous		99.25% Non-fibrous (Other)	**0.75% Chrysotile**
174-SPH-EW1-05G *551704005-0032*	DJC Ceiling Corridor	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	**<0.25% Chrysotile**
174-SPH-EW2-01C *551704005-0035*	DJC Wall Corridor	White/Beige Non-Fibrous Homogeneous		99.50% Non-fibrous (Other)	**0.50% Chrysotile**
174-SPH-EW2-01G *551704005-0039*	DJC Wall Corridor	White Non-Fibrous Homogeneous		99.00% Non-fibrous (Other)	**1.00% Chrysotile**
174-SPH-EW3-05B *551704005-0055*	DJC Ceiling Corridor	Beige Non-Fibrous Homogeneous		99.50% Non-fibrous (Other)	**0.50% Chrysotile**
174-SPH-EW4-01A *551704005-0061*	DJC Wall Corridor	Gray/White/Pink Non-Fibrous Heterogeneous		99.50% Non-fibrous (Other)	**0.50% Chrysotile**
			Inseparable paint / coating layer included in analysis		
174-SPH-EW4-05G *551704005-0074*	DJC Ceiling Corridor	Tan/Beige Non-Fibrous Homogeneous		99.25% Non-fibrous (Other)	**0.75% Chrysotile**

Disclaimer:Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government . EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis.The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Ann Arbor, MI

Initial report from: 04/19/2017 12:16:07

EMSL Canada Inc.

2756 Slough Street Mississauga, ON L9T 5N4
Phone/Fax: (289) 997-4602 / (289) 997-4607
http://www.EMSL.com / torontolab@emsl.com

EMSL Canada Order:	551704005
Customer ID:	55ECOH45
Customer PO:	17429-SPH
Project ID:	

Attention:	Brittanie Semper ECOH Management, Inc. 75 Courtneypark Drive West Unit 1 Mississauga, ON L5W 0E3	**Phone:**	(905) 795-2800
		Fax:	(905) 795-2870
		Received:	04/12/2017 5:00 PM
		Analysis Date:	04/19/2017
		Collected:	03/30/2017 - 03/31/2017
Project:	17429-SPH St. Peter's EAST/WEST WING		

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. Quantitation using 400 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**

Analyst(s)

Eric Budai (4)
Rebecca Newman (2)
Ryan Shannon (2)

Matthew Davis
or other approved signatory

Samples analyzed by EMSL Analytical, Inc. Ann Arbor, MI

Initial report from: 04/19/2017 12:16:07

APPENDIX V
Methodology

1.0 METHODOLOGY

Pinchin inspects the current condition of all accessible asbestos-containing materials (ACM) identified in the most recent assessments. The review of the interstitial spaces at MUMC will be very limited and will not include all areas. The surveyor makes reference to any existing assessment reports and information provided by the Client regarding any newly identified ACM.

The re-assessments exclude the following:

- Articles belonging to the owner, tenant or occupant (e.g. stored items, furniture, appliances, etc.);
- Underground materials or equipment (e.g. vessels, drums, underground storage tanks, pipes, etc.);
- Building envelope, structural components, inaccessible or concealed materials or other items where sampling may cause consequential damage to the property.
- Energized systems (e.g. internal boiler components, elevators, mechanical or electrical components);
- Controlled products (e.g. stored chemicals, operational or process-related substances); and
- Materials not typically associated with construction (e.g. settled dust, spills, residual contamination from prior spills, etc.).

As per the original or previous assessments, concealed locations such as ceiling spaces above solid ceilings, shafts and chases are accessed via existing access panels. Our investigation does not include demolition of drywall or plaster walls to view concealed conditions. Structural items or exterior building finishes are not removed to determine the presence of concealed materials.

Existing sampling data is relied upon. The location of any additional asbestos bulk samples that are required to be collected is recorded on small scale plans. The number of asbestos bulk samples obtained, when sampling is required, is in compliance with the requirements of Table 1 of O.Reg. 278/05.

Materials listed as exclusions in the previous reports remain exclusions. If present, the following materials are presumed to be asbestos-containing and are best sampled immediately prior to commencing renovation/disturbance:

- Roofing, felts and tar
- Concrete floor levelling compound
- Elevator and lift brakes

- Electrical components or wiring within control centers, breakers, motors or lights, insulation on wiring
- Moulded plastic components (laboratory bench tops)
- Refractory materials and insulations in boilers, incinerators and stacks
- Insulation under metal clad boilers and vessels
- Vermiculite in concrete block wall cavities
- Adhesives and duct mastics (where not already sampled)
- Caulking (where not already sampled)
- Fibre reinforced paints and coatings
- Paper products (where not sampled and inaccessible)
- Soffit and fascia boards at elevated heights
- Mechanical packing, ropes and gaskets
- Fire resistant doors or metal clad finishes
- Exterior cladding (where concealed)

2.0 INFECTION CONTROL

Pinchin will follow the facility's infection control policy and procedures while performing the assessments.

The Client should communicate this proposal and the scope of the assessments to the facility's Infection Control Department and the JHSC for their review so that they are aware that the procedures for infection control during assessments will be met.

Construction of polyethylene enclosures to access ceiling spaces, and the cost for these, if required, is not included.

3.0 ANALYSIS AND IDENTIFICATION OF ASBESTOS MATERIALS

Pinchin relies on the analytical results of prior surveys. Asbestos bulk samples (if required) will be analyzed at an independent NVLAP accredited laboratory. Preliminary identification of asbestos fibres will be made using polarized light microscopy, with confirmation of the presence and type of asbestos made by dispersion staining optical microscopy. The analysis will be performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June 1993. All independent laboratories used by Pinchin, including our laboratory, are certified under the National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos analysis of bulk samples.

In Ontario an ACM is defined as materials containing 0.5% or more asbestos by weight.

The asbestos analysis is completed using a stop positive approach. Only one result meeting the above regulated criteria is required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stops analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material are analyzed if no asbestos is detected. In some cases, all samples are analyzed in the sample set regardless of result. Where building materials are described in the report as non-asbestos, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation.

Asbestos materials are evaluated in order to make recommendations regarding remedial work. The priority for remedial action is based on several factors:

- Friability (friable or non-friable).
- Condition (good, fair, poor, debris).
- Accessibility (ranking from accessible to all building users to inaccessible).
- Visibility (whether the material is obscured by other building components).
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition).

Master Template: Methodology Document for Asbestos Re-Assessment, HAZ, July 21, 2017