Project #: 13916

ASBESTOS ASSESSMENT
Gilbert Court
Memorial University of Newfoundland
St. John's, NL

Prepared for:

Sheila Miller
Director, Department of Health and Safety
Memorial University of Newfoundland
208 Elizabeth Avenue
St. John's, NL
A1B 1T5

Prepared by:

ALL-TECH
ENVIRONMENTAL SERVICES LIMITED

151 Crosbie Rd. St. John's NL, A1B 4B4
Tel: (709) 754-4146 Fax: (709) 754-4194

September 2011

EXECUTIVE SUMMARY

ALL-TECH Environmental Services Limited conducted an Asbestos Assessment at Gilbert Court, located at Memorial University of Newfoundland (MUN), St. John's, NL. The objective of the assessment was to determine the presence of asbestos containing materials throughout the building. It was determined that:

- Thirteen (13) of the twenty-seven (27) suspect asbestos samples collected contained asbestos greater than 1%. (*Newfoundland and Labrador Regulation 111/98, Asbestos Abatement Regulations, 1998 under the Occupational Health and Safety Act.)*

- Drywall joint compound was sampled and found to contain 4 - 5% Chrysotile asbestos.

- Vinyl sheet flooring was sampled and found to contain 20% Chrysotile asbestos.

- 1' x 1' vinyl floor tiles, and/or their mastics, sampled from various locations were found to contain between 2 – 7% Chrysotile asbestos.

- Asbestos containing transite panels on washroom heaters were found to contain 20% Chrysotile asbestos.

- Two types of suspect asbestos containing pipe fitting insulation was observed in select locations within the building. Material in the hallways was sampled and identified as non-asbestos containing. Visually distinguishable fittings were not sampled, however based on their age they must be considered to be asbestos containing until proven otherwise.

- Exterior green panels are suspected to be asbestos containing transite material (sampled from Cartier Court, sample #CR-34)

This summary is not to be used alone. This report must be reviewed in its entirety.

Thank you,

Carla Noseworthy

Carla Noseworthy, C.E.T.
Environmental Consultant
ALL-TECH Environmental Services Limited

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1.0 INTRODUCTION

ALL-TECH Environmental Services Limited was contracted by Sheila Miller, Director – Department of Health and Safety, Memorial University of Newfoundland (MUN), to complete an Asbestos Assessment at Gilbert Court located at Memorial University of Newfoundland, St. John's, NL. The purpose of the assessment was to identify the presence of asbestos containing materials located throughout the building. The assessment was conducted in August 2011.

2.0 ASBESTOS ASSESSMENT

Asbestos is a general term which is used to describe a group of fibrous mineral silicates. The six major types of asbestos are; chrysotile (white asbestos), crocidolite (blue), amosite (brown), anthophyllite, tremolite and actinolite. Commercially, asbestos has been used widely in such applications as fireproofing, textiles, friction products, reinforcing materials (i.e. cement pipes, sheets) and insulation (both thermal and acoustic).

Asbestos materials can be found in one of two forms; friable or non-friable. Friable asbestos material refers to material that when dry, can be crumbled, pulverized or reduced to a powder by hand pressure thus releasing fibers into the air. This type of asbestos material is hazardous due to its potential to become airborne if damaged or disturbed. Friable asbestos building products used in the past were sprayed acoustic & fire protection insulations, ceiling/wall finishes, drywall joint compounds, mechanical insulations on pipes, tanks, boilers, vessels, etc. Non-friable building products used in the past were vinyl floor tiles, gaskets, transite panels, and transite shingles. Non-friable materials if handled improperly during removal or renovations, such as cutting transite panels with an electrical tool, can cause high fiber release. Also, non-friable asbestos products can become friable if damaged through years of aging (water damage, general deterioration of materials, etc.).

Asbestos containing materials (ACM) can be properly managed and left in place depending on their location, condition, and friability. Non-friable materials receive less attention than friable materials due to the fact that the asbestos fibers in the non-friable material are bound or held tightly together, reducing the chance of fibers becoming airborne. This makes the non-friable products safer and easier to manage.

The mere presence of asbestos in building materials is not necessarily a problem; however, inhaling asbestos fibers can cause associated health problems. The hazards of asbestos exposure are directly related to the degree to which fibers are released (become airborne). Intact and undisturbed asbestos do not pose a health risk.

2.1 Scope of Work

Representative suspect asbestos containing materials were sampled from wall finishes, various types of flooring, and exterior finishes located throughout the building.

The asbestos assessment involved a visual investigation of representative building structures, wall & ceiling finishes, and flooring for the presence of asbestos materials. If these materials were suspected to contain asbestos, a bulk sample was collected of the representative material.

It should be noted that asbestos containing materials such as piping straight runs & fittings may be present behind existing drywall walls, ceilings, columns, shafts, etc. Since no destructive testing was performed during this assessment, additional care should be taken during renovations/demolition to ensure that no asbestos containing materials are to be disturbed.

2.2 Methodology

A total of twenty-seven (27) suspect asbestos bulk samples were collected from the building. Representative suspect asbestos bulk material samples from floors, wall finishes, pipe fitting insulation, ceiling tiles and their adhesive, transite paneling and light fixture heat shields were carefully collected and placed into labeled sealable plastic bags and transported to the EMSL Analytical Inc. in New Jersey, USA, for Polarized Light Microscopy/ Dispersion Staining (PLM/DS) analysis. The EPA test method for bulk analysis (EPA/600/R-93/116) states in paragraph 2.2.2 that *"the detection limit for visual estimation is a function of the quantity of the sample analyzed, the nature of matrix interference, sample preparation, and fiber size and distribution. Asbestos may be detected in concentrations of less than one percent by area if sufficient material is analyzed. Samples may contain fibers too small to be resolved by PLM (< 0.25 µm in diameter) so detection of those fibers by this method may not be possible."*

2.3 Applicable Standards

The province defines Asbestos material as "material containing greater than 1% asbestos by dry weight." Materials identified as ACM must be managed, handled and disposed of as per the Newfoundland and Labrador Regulation 111/98*, Asbestos Abatement Regulations, 1998* under the *Occupational Health and Safety Act* (O.C. 98-730).

Also, the Province of Newfoundland and Labrador have set standards for exposure to airborne asbestos fibres to as low as is reasonably achievable (ALARA) but in any case shall not exceed Threshold Limit Values (TLVs) as published by the American Conference of Governmental Industrial Hygienists (ACGIH) and are primarily used for the occupational exposure to employees and workers who from day to day come in contact with asbestos. ACGIH guidelines state the airborne asbestos limit as follows:

- Asbestos (all forms) 0.1 fibres per cubic centimetre (f/cc) as determined by air sampling following the NIOSH 7400 Asbestos and Other Fibres by Phase Contrast Microscopy.

The *Newfoundland Asbestos Abatement Regulations 111/98* requires that all employers, building owners and principal contractors follow this Regulation when handling or using asbestos in their workplace. This Regulation applies to every workplace covered under the Occupational Health and Safety Legislation where asbestos or materials containing asbestos, is likely to be handled, dealt with, disturbed or removed and includes every project, project owner, contractor, employer and employee engaged in or on the project. An owner/contractor to whom this Regulation applies shall take every reasonable precaution to ensure that every worker who is not an employee of the owner/contractor and who works in the workplace of the owner/contractor is protected and every such worker shall comply with the requirements of this Regulation.

2.4 Survey Findings

Laboratory analysis confirmed that thirteen (13) of the twenty-seven (27) bulk samples collected from the building contained asbestos greater than 1%. Table 1.0 below illustrates the results of this sampling. ***See Appendix II - Laboratory Asbestos Results.***

Table 1.0
Summary of Suspect Asbestos Containing Materials Tested
Gilbert Court
Memorial University of Newfoundland
St. John's, NL

Sample No.	Sample Description and Location	Asbestos Results
GB-1	**1' x 1' Vinyl Floor Tile, light brown with dark brown, orange – Room GB 311, living room**	**6% Chrysotile**
GB-2	1' x 1' Vinyl Floor Tile, white with brown – Room GB311, bedroom	None Detected
GB-3	1' x 1' Vinyl Floor Tile, grey with white – Room GB311, entrance	None Detected
	Mastic	None Detected
GB-4	**Vinyl Sheet Flooring, brown and red square pattern – Room GB311, washroom**	**20% Chrysotile**
GB-5	Light Fixture Heat Shield – Room GB311	None Detected
GB-6	**1' x 1' Vinyl Floor Tile, light grey with medium grey – Room GB310, living room**	**7% Chrysotile**
	Mastic	**2% Chrysotile**

GB-7	**Vinyl Sheet Flooring, light brown square pattern – Room GB310, washroom**	**20% Chrysotile**
GB-8	**1' x 1' Vinyl Floor Tile, olive green with white – Room GB 309**	**6% Chrysotile**
	Mastic	**3% Chrysotile**
GB-9	1' x 1' Vinyl Floor Tile, brown stripes – Room GB309, entrance	None Detected
	Mastic	**4% Chrysotile**
GB-10	**Vinyl Sheet Flooring, pink and blue square pattern – Room GB309, washroom**	**20% Chrysotile**
GB-11	**Transite Panel on Heater – Room GB308, washroom**	**20% Chrysotile**
GB-12	Vinyl Sheet Flooring, 9" Brown square pattern – Room GB308, washroom	None Detected
GB-13	1' x 1' Vinyl Floor Tile, grey mix - Room GB307	None Detected
	Mastic	None Detected
GB-14	2' x 4' Ceiling Tile, pinhole and fissure pattern – Room GB312	None Detected
	Mastic	None Detected
GB-15	2' x 4' Ceiling Tile, pinhole pattern – Room GB312	None Detected
GB-16	**Drywall Joint Compound – Room GB306**	**5% Chrysotile**
GB-17	Pipe Fitting Insulation – Hallway GB3C03	None Detected
GB-18	1' x 1' Vinyl Floor Tile, white with black – Room GB207	None Detected
GB-19	Vinyl Sheet Flooring, blue – Room GB209	None Detected
	Mastic	None Detected
GB-20	1' x 1' Vinyl Floor Tile, cream with brown – Room GB111, entrance	None Detected
GB-21	**Drywall Joint Compound – Room GB111**	**5% Chrysotile**
GB-22	1' x 1' Vinyl Floor Tile, grey with black dots – Room GB110	None Detected
	Mastic	None Detected

GB-23	Ceiling Panel – Vestibule GB1V03	None Detected
GB-24	**1' x 1' Vinyl Floor Tile, yellow with white – Room GB305, entrance**	**2% Chrysotile**
	Mastic	None Detected
GB-25	1' x 1' Vinyl Floor Tile, grey with white – Room GB202	None Detected
	Mastic	**2% Chrysotile**
GB-26	**Drywall Joint Compound**	**4% Chrysotile**
GB-27	Vinyl Sheet Flooring, brown and white mix – Room GB104, washroom	None Detected

Mechanical and Pipe Material

Two types of pipe fitting insulation which could potentially contain asbestos were observed in select areas throughout the building during this assessment. Samples were collected of fitting insulation in the hallways and analyzed for asbestos content using the PLM method of detection. These samples were identified as non-asbestos containing. The fittings identified in closets of the residence rooms and the mechanical room is visually distinguishable and appears to be older than those in the hallway. Those fittings must be considered to be asbestos containing until proven otherwise (see sample GB-17 in Appendix II, Photograph 1, Appendix I)

It should also be noted that asbestos containing pipe insulation may be located behind fixed wall cavities and ceiling plenums that were inaccessible at the time of assessment. During demolition precautionary measures must be taken to avoid disturbing any potential ACM in these areas.

Acoustic and Thermal Insulating Products

Acoustic and thermal insulating products were not observed within the building during the assessment.

Friable Acoustic Texture Coats and Plaster Finishes

Drywall joint compound (DJC) finishes were observed in select locations within the building during the assessment. Three (3) samples were collected and analyzed for asbestos content using the PLM method of detection. Two (2) of the three (3) samples were found to contain between 4 - 5% Chrysotile asbestos. (see samples GB-16, GB-21, GB-26 in Appendix II).

It should be noted that due to the uncertainty of when and where a specific type of drywall joint compound was used, it is to be assumed that all drywall joint compound

present in the building contains asbestos.

Friable Acoustic and Thermal Fireproofing Products

Friable acoustic and thermal fireproofing products were not observed within the building during the assessment.

Friable Ceiling Tiles / Ceiling Tile Adhesives

Two styles of 2' x 4' ceiling tiles were observed on the walls in Room GB312 during the assessment. Both samples, one with a pinhole and fissure pattern with a pink backing and the other with a pinhole pattern were sampled and analyzed for asbestos content using the PLM method of detection. Both samples were identified as non-asbestos containing. (see samples GB-14, GB-15 in Appendix II)

Ceiling tile adhesive associated with the above mentioned ceiling tiles was sampled and analyzed for asbestos content using the PLM method of detection. The sample was identified as non-asbestos containing. (see sample GB-14 in Appendix II)

Vinyl Sheet/Linoleum Flooring

Various vinyl sheet floorings which could potentially contain asbestos were identified in the building during the assessment. Six (6) samples of this flooring were sampled and analyzed for asbestos content using the PLM method of detection. Three (3) samples of the flooring were each found to contain 20% Chrysotile asbestos. (see samples GB-4, GB-7, GB-10, GB-12, GB-19, GB-27 in Appendix II, Photographs 2 - 4 in Appendix I)

Non-Friable Vinyl Floor Tiles/ Floor Tile Adhesives

Vinyl floor tiles which could potentially contain asbestos were identified during the assessment. Twelve (12) samples of 1' x 1' vinyl floor tiles were sampled and analyzed for asbestos content using the PLM method of detection. Six (6) tiles and/or their associated mastics were found to contain between 2 – 7% Chrysotile asbestos. (see samples GB-1, GB-2, GB-3, GB-6, GB-8, GB-9, GB-13, GB-18, GB-20, GB-22, GB-24, GB-25 in Appendix II, see Photographs 5 - 10, Appendix I)

Non-Friable Transite Panels, Sheeting and Shingles

Exterior green panels are suspected to be asbestos containing transite materials. Visually similar panels on exterior walls under windows were sampled from Cartier Court (sample # CR-34) and were found to contain 25% Chrysotile asbestos. As such, based on the composition and similarity of the construction of these residences, it is suspected that the panels at Gilbert Court are also asbestos containing.

Suspect asbestos containing transite paneling on washroom heaters was also observed during the assessment. One (1) sample was collected and analyzed for asbestos content

using the PLM method of detection. The sample was found to contain 20% Chrysotile asbestos. (see sample GB-11 in Appendix II, Photograph 11 of Appendix I)

Suspect asbestos containing transite was also observed as ceiling material in the vestibules. One (1) sample was collected and analyzed for asbestos content using the PLM method of detection. The sample was identified as non-asbestos containing. (see sample GB-23 in Appendix II)

Non-Friable Transite Piping

Transite piping was not observed during the assessment.

Electrical Wiring/ Lighting

One (1) type of light fixture heat shield was observed throughout the building. One (1) sample was collected and analyzed for asbestos content using the PLM method of detection. The sample was identified as non-asbestos containing (see sample GB-5, in Appendix II)

Roofing Materials

Access to the roof was not available at the time of the assessment.

Other Materials

Window caulking, interior or exterior, was not sampled during this assessment.

No other materials suspected of containing asbestos were observed during the assessment.

2.5 Recommendations

The assessment identified that numerous materials contained a concentration of asbestos equal to or greater than 1% by dry weight. According to regulations, the owner of any building/ residence is required to implement and maintain specific health and safety measures, therefore the following recommendations are provided:

- All materials listed in fair and/or poor condition are to be repaired or removed immediately. See APPENDIX III – Asbestos Building Survey Information for materials condition and locations.

- Ensure that prior to and during any major renovations/demolition extreme caution is implemented to make certain that asbestos containing materials are not disturbed. It should be noted that asbestos containing materials may be concealed behind fixed walls/ceiling plenums and under existing sub-floors.

- Ensure that when disturbing asbestos materials, the asbestos removal contractor follows all federal and provincial regulations in accordance to the Newfoundland and Labrador Regulation 111/98.

- Retain a copy of this report on-site for future reference of friable and non-friable asbestos products.

- Provide asbestos air monitoring and inspection during the removal of asbestos to ensure that all government guidelines and regulations are followed throughout the removal process.

3.0 DISCLAIMER

This report was prepared by ALL-TECH Environmental Services Limited for the sole benefit of our client Ms. Sheila Miller. The information in the report is based on information provided or obtained by ALL-TECH. The report is based on ALL-TECH's best judgment with the information provided at the time of the assessment. Any use and/or conclusions used by any third party, is the responsibility of that third party. ALL-TECH accepts no liability and/or damages occurred by any third party that uses information obtained in this report.

If you have any questions regarding this report, please do not hesitate to call me at (709) 754-4146.

Thank You,

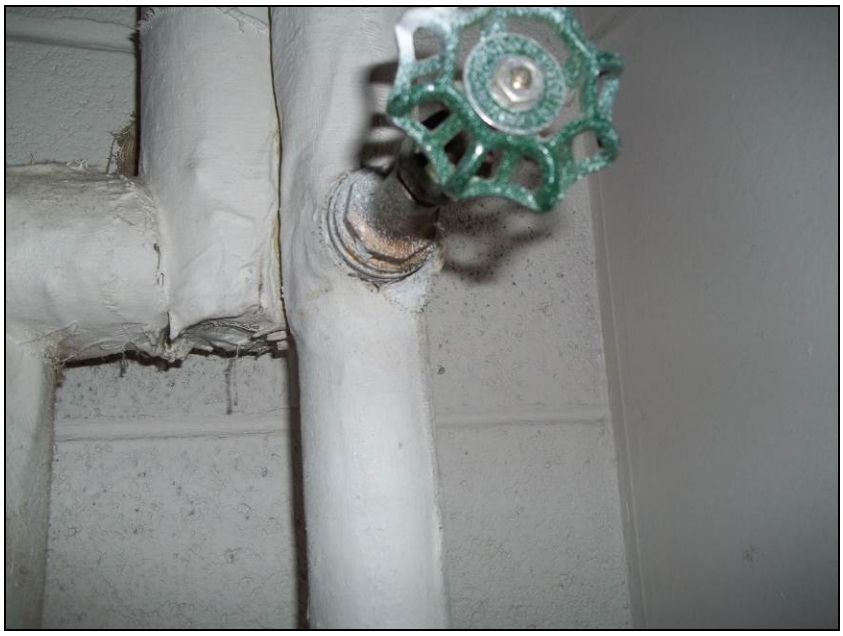
Carla Noseworthy, CET
Environmental Consultant
ALL-TECH Environmental Services Limited

Reviewed by:

Orven Newhook, B.Sc.
Project Manager
ALL-TECH Environmental Services Limited

APPENDIX I

PHOTOGRAPHS OF ASBESTOS CONTAINING MATERIALS



Photograph 1: Suspect asbestos containing pipe fitting insulation in Room GB202, in poor condition.

Photograph 2: Sample GB-4. Asbestos containing vinyl sheet flooring.

Consultant: Carla Noseworthy, CET ALL-TECH Environmental	**Building:** Gilbert Court Memorial University of Newfoundland St. John's, NL	**Date**: August 29, 2011

Photograph 3: Sample GB-7. Asbestos containing vinyl sheet flooring.

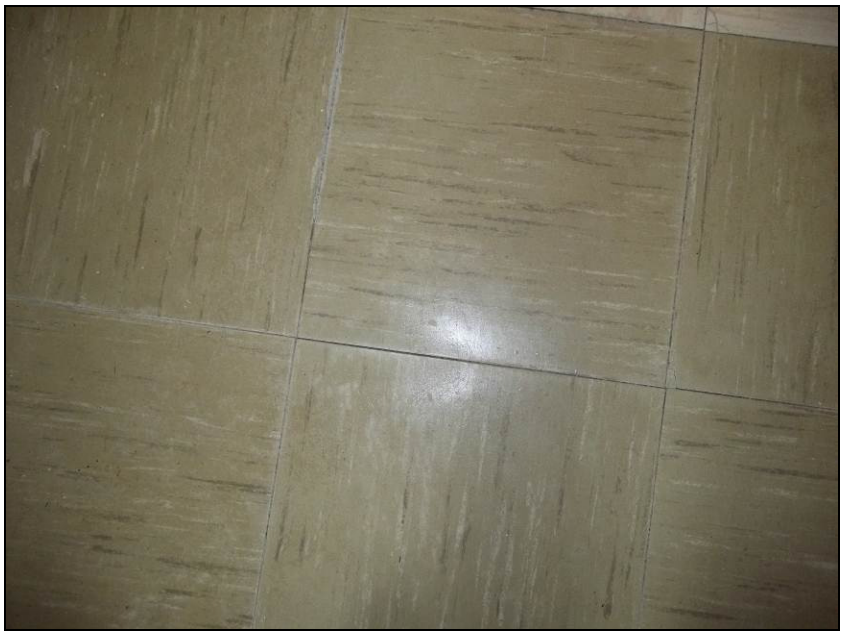
Photograph 4: Sample GB-10. Asbestos containing vinyl sheet flooring.

Consultant: Carla Noseworthy, CET ALL-TECH Environmental	**Building:** Gilbert Court Memorial University of Newfoundland St. John's, NL	**Date**: August 29, 2011

Photograph 5: Sample GB-1. Asbestos containing vinyl floor tile.

Photograph 6: Sample GB-6. Asbestos containing vinyl floor tile.

Consultant: Carla Noseworthy, CET ALL-TECH Environmental	**Building:** Gilbert Court Memorial University of Newfoundland St. John's, NL	**Date**: August 29, 2011



Photograph 7: Sample GB-8. Asbestos containing vinyl floor tile.

Photograph 8: **Sample GB-9. The vinyl floor tile was identified as non-asbestos containing. The mastic was found to contain 4% Chrysotile asbestos.**

Consultant: Carla Noseworthy, CET ALL-TECH Environmental	**Building:** Gilbert Court Memorial University of Newfoundland St. John's, NL	**Date**: August 29, 2011

Photograph 9: Sample GB-24. Asbestos containing vinyl floor tile.

Photograph 10: Sample GB-25. The vinyl floor tile was identified as non-asbestos containing. The mastic was found to contain 2% Chrysotile asbestos.

Consultant: Carla Noseworthy, CET ALL-TECH Environmental	**Building:** Gilbert Court Memorial University of Newfoundland St. John's, NL	**Date**: August 29, 2011

Photograph 11: Sample GB-11. The asbestos containing transite heater panel was found on select washroom walls.

Consultant: Carla Noseworthy, CET ALL-TECH Environmental	**Building:** Gilbert Court Memorial University of Newfoundland St. John's, NL	**Date**: August 29, 2011

APPENDIX II

LABORATORY ASBESTOS RESULTS

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
Phone: (800) 220-3675 Fax: (856) 786-5974 Email: cinnasblab@EMSL.com

Attn: **Carla Noseworthy**
All-Tech Environmental Services Limited
151 Crosbie Road
Suite 402
St. John's, NL A1B 4B4

Fax: Phone: (709) 754-4146
Project: **13916/GILBERT**

Customer ID: ATES44D
Customer PO:
Received: 08/30/11 9:30 AM
EMSL Order: 041123485

EMSL Proj:
Analysis Date: 8/31/2011

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**
GB1 *041123485-0001*	GB311-LR - 1 X 1 VT- LT BROWN W/CLK BROWN ORANGE	Beige Non-Fibrous Heterogeneous		94% Non-fibrous (other)	**6% Chrysotile**
GB2 *041123485-0002*	GB311-BR - 1 X 1 VT - WHITE W/ BROWN	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
GB3-Floor Tile *041123485-0003*	GB311-ENTRANCE - 1 X 1 VT - GREY W/ WHITE	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
GB3-Mastic *041123485-0003A*	GB311-ENTRANCE - 1 X 1 VT - GREY W/ WHITE	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
GB4 *041123485-0004*	GB311-WR - VSF - BROWN / RED SQUARE PATTERN	Brown/Red Fibrous Heterogeneous		80% Non-fibrous (other)	**20% Chrysotile**
GB5 *041123485-0005*	GB311 - LIGHT FIXTURE HEAT SHIELD	Tan Fibrous Heterogeneous	15% Cellulose 5% Glass	80% Non-fibrous (other)	**None Detected**

Report Amended: 09/08/2011 12:18:51 Replaces Report Amended: 09/01/2011 09:09:24. Reason Code: Client-Change to Location

Analyst(s)

Frank Dicrescenzo (37)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

EMSL Analytical, Inc.
200 Route 130 North, Cinnaminson, NJ 08077
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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
GB6-Floor Tile *041123485-0006*	GB310-LR - 1 X 1 VT- H GREY W/ MED GREY	Gray Non-Fibrous Heterogeneous		93% Non-fibrous (other)	7% Chrysotile
GB6-Mastic *041123485-0006A*	GB310-LR - 1 X 1 VT- H GREY W/ MED GREY	Black Non-Fibrous Heterogeneous		98% Non-fibrous (other)	2% Chrysotile
			Chrysotile found could be from contamination with positive floor tile		
GB7 *041123485-0007*	GB310-WR - VSF, LIGHT BROWN SQAURE PATTERN	Brown/Gray Fibrous Heterogeneous		80% Non-fibrous (other)	20% Chrysotile
GB8-Floor Tile *041123485-0008*	GB309-LR - 1 X1 VT - OLIVE GREEN W/ WHITE	White/Green Non-Fibrous Heterogeneous		94% Non-fibrous (other)	6% Chrysotile
GB8-Mastic *041123485-0008A*	GB309-LR - 1 X1 VT - OLIVE GREEN W/ WHITE	Black Non-Fibrous Heterogeneous		97% Non-fibrous (other)	3% Chrysotile
GB9-Floor Tile *041123485-0009*	GB309-ENTRANCE - 1 X 1 VT- BROWN STRIPES	White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	None Detected

Report Amended: 09/08/2011 12:18:51 Replaces Report Amended: 09/01/2011 09:09:24. Reason Code: Client-Change to Location

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
GB9-Mastic *041123485-0009A*	GB309-ENTRANCE - 1 X 1 VT- BROWN STRIPES	Black Non-Fibrous Heterogeneous		96% Non-fibrous (other)	**4% Chrysotile**
GB10 *041123485-0010*	GB309-WR - VSF - PINK / BLUE SQUARE PATTERN	Gray Fibrous Heterogeneous		80% Non-fibrous (other)	**20% Chrysotile**
GB11 *041123485-0011*	GB308-WR - TRANSITE PANEL ON HEATER	Gray Fibrous Heterogeneous		80% Non-fibrous (other)	**20% Chrysotile**
GB12 *041123485-0012*	GB308-WR - RSF - 9 " BROWN SQUARE	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
GB13-Floor Tile *041123485-0013*	GB307 - 1 X 1 VT-H GREY MIX	Gray/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
GB13-Mastic *041123485-0013A*	GB307 - 1 X 1 VT-H GREY MIX	Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**

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			Non-Asbestos			Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**		**% Non-Fibrous**	**% Type**
GB14-Ceiling Tile *041123485-0014*	GB312 - 2 X 4 CT - PINHOLE/FISSURE & MASTIC	Gray Fibrous Heterogeneous	70% Cellulose 20% Min. Wool		10% Non-fibrous (other)	**None Detected**
GB14-Mastic *041123485-0014A*	GB312 - 2 X 4 CT - PINHOLE/FISSURE & MASTIC	Brown Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
GB15 *041123485-0015*	GB312 - 2 X 4 CT - PINEHOLE	Gray Fibrous Heterogeneous	50% Cellulose 40% Min. Wool		10% Non-fibrous (other)	**None Detected**
GB16 *041123485-0016*	GB306 - DJC	White Non-Fibrous Heterogeneous			95% Non-fibrous (other)	**5% Chrysotile**
GB17 *041123485-0017*	GB3003 - PIPE FITTING INSULATION	Gray Fibrous Heterogeneous	40% Min. Wool		60% Non-fibrous (other)	**None Detected**
GB18 *041123485-0018*	GB207-ENTRANCE - 1 X 1 VT - WHITE W/ BLACK	White Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**

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Phone: (800) 220-3675 Fax: (856) 786-5974 Email: cinnasblab@EMSL.com

Attn: **Carla Noseworthy**
All-Tech Environmental Services Limited
151 Crosbie Road
Suite 402
St. John's, NL A1B 4B4

Fax: Phone: (709) 754-4146
Project: **13916/GILBERT**

Customer ID: ATES44D
Customer PO:
Received: 08/30/11 9:30 AM
EMSL Order: 041123485

EMSL Proj:
Analysis Date: 8/31/2011

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**
GB19-Floor Tile *041123485-0019*	GB209 - VSF - BLUE	Blue Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
GB19-Mastic *041123485-0019A*	GB209 - VSF - BLUE	Yellow Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
GB20 *041123485-0020*	GB111-ENTRANCE - 1 X 1 VT- CREAM W/ BROWN	Cream Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
GB21 *041123485-0021*	GB111 - DJC	White Non-Fibrous Heterogeneous			95% Non-fibrous (other)	**5% Chrysotile**
GB22-Floor Tile *041123485-0022*	GB110-CLOSET - 1 X 1 - GREY W/BLACK DOTS	Gray Non-Fibrous Heterogeneous			100% Non-fibrous (other)	**None Detected**
GB22-Mastic *041123485-0022A*	GB110-CLOSET - 1 X 1 - GREY W/BLACK DOTS	Black Non-Fibrous Heterogeneous	10% Cellulose 5% Synthetic		85% Non-fibrous (other)	**None Detected**

Report Amended: 09/08/2011 12:18:51 Replaces Report Amended: 09/01/2011 09:09:24. Reason Code: Client-Change to Location

Analyst(s)

Frank Dicrescenzo (37)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
GB23 *041123485-0023*	GB1V03A - CEILING PANEL	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
GB24-Floor Tile *041123485-0024*	GB305-ENTRANCE - 1 X 1 VT - YELLOW W/ WHITE	Beige Non-Fibrous Heterogeneous		98% Non-fibrous (other)	**2% Chrysotile**
GB24-Mastic *041123485-0024A*	GB305-ENTRANCE - 1 X 1 VT - YELLOW W/ WHITE	Black Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
GB25-Floor Tile *041123485-0025*	GB202 - 1 X 1 VT - GREY W/ WHITE	Gray Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**
GB25-Mastic *041123485-0025A*	GB202 - 1 X 1 VT - GREY W/ WHITE	Black Non-Fibrous Heterogeneous		98% Non-fibrous (other)	**2% Chrysotile**
GB26 *041123485-0026*	GB204 - DJC	White Non-Fibrous Heterogeneous		96% Non-fibrous (other)	**4% Chrysotile**

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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**
GB27 *041123485-0027*	GB104-WR - VSF- BROWN WHITE MIX	Brown/White Non-Fibrous Heterogeneous		100% Non-fibrous (other)	**None Detected**

Report Amended: 09/08/2011 12:18:51 Replaces Report Amended: 09/01/2011 09:09:24. Reason Code: Client-Change to Location

Analyst(s)

Frank Dicrescenzo (37)

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

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APPENDIX III

ASBESTOS BUILDING SURVEY INFORMATION

Asbestos Bldg Survey Information -- Gilbert Court

Room #	Bldg. System	Component	Material Type	Access	Conditions				Quantity	Sample No.	Sample Location	Sample Description	Result
					Good	Fair	Poor	Sprayed					
Exterior			[1]Exterior Green Panels									Suspect Transite	
Throughout Building			Drywall Joint Compound	A		X				GB-16, GB-21, GB-26			4 - 5% Chrysotile
GB101			Vinyl Floor Tile & Mastic	A	X				~ 300ft^2	GB8		1' x 1' Vinyl Floor Tile, olive green with white	6% Chrysotile & 3% Chrysotile
GB101			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB10		Pink and Blue Square Pattern	20% Chrysotile
GB101			Transite Panel on Heater	A	X				1	GB11		Grey Cement Board Panel	20% Chrysotile
GB101			[2]Pipe Fitting Insulation	A	X				~25				
GB102			Vinyl Floor Tile & Mastic	A	X				~ 300 ft^2	GB6		1' x 1' Vinyl Floor Tile, light grey with medium grey	7% Chrysotile & 2% Chrysotile
GB102			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB7		Light Brown Square Pattern	20% Chrysotile
GB102			Transite Panel on Heater	A	X				1	GB11		Grey Cement Board Panel	20% Chrysotile
GB103			Vinyl Floor Tile	A	X				~ 300 ft^2	GB1		1' x 1' Vinyl Floor Tile, light brown with dark brown, orange	6% Chrysotile
GB103			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB4		Brown and Red Square Pattern	20% Chrysotile
GB104			Vinyl Floor Tile & Mastic	A	X				~ 300ft^2	GB8		1' x 1' Vinyl Floor Tile, olive green with white	6% Chrysotile & 3% Chrysotile
GB105			Vinyl Floor Tile & Mastic	A	X				~ 300ft^2	GB8		1' x 1' Vinyl Floor Tile, olive green with white	6% Chrysotile & 3% Chrysotile
GB106			Vinyl Floor Tile	A	X				~ 300 ft^2	GB1		1' x 1' Vinyl Floor Tile, light brown with dark brown, orange	6% Chrysotile
GB106			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB4		Brown and Red Square Pattern	20% Chrysotile
GB106			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB4		Brown and Red Square Pattern	20% Chrysotile
GB106			Transite Panel on Heater	A	X				2	GB11		Grey Cement Board Panel	20% Chrysotile

Room #	Bldg. System	Component	Material Type	Access	Conditions				Quantity	Sample No.	Sample Location	Sample Description	Result
					Good	Fair	Poor	Sprayed					
GB107			Vinyl Floor Tile & Mastic	A	X				~ 300ft^2	GB8		1' x 1' Vinyl Floor Tile, olive green with white	6% Chrysotile & 3% Chrysotile
GB107			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB10		Pink and Blue Square Pattern	20% Chrysotile
GB107			Transite Panel on Heater	A	X				1	GB11		Grey Cement Board Panel	20% Chrysotile
GB108			Vinyl Floor Tile & Mastic	A	X				~ 300 ft^2	GB6		1' x 1' Vinyl Floor Tile, light grey with medium grey	7% Chrysotile & 2% Chrysotile
GB109			Vinyl Floor Tile	A	X				~ 300 ft^2	GB1		1' x 1' Vinyl Floor Tile, light brown with dark brown, orange	6% Chrysotile
GB109			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB4		Brown and Red Square Pattern	20% Chrysotile
GB110			Vinyl Floor Tile & Mastic	A	X				~ 300ft^2	GB8		1' x 1' Vinyl Floor Tile, olive green with white	6% Chrysotile & 3% Chrysotile
GB110			Mastic	A	X				~ 5ft^2	GB9		1' x 1' Vinyl Floor Tile, brown stripes	4% Chrysotile
GB110			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB10		Pink and Blue Square Pattern	20% Chrysotile
GB111			Vinyl Floor Tile & Mastic	A	X				~ 300 ft^2	GB6		1' x 1' Vinyl Floor Tile, light grey with medium grey	7% Chrysotile & 2% Chrysotile
GB111			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB7		Light Brown Square Pattern	20% Chrysotile
GB112			[2]Pipe Fitting Insulation	A	X				~25				
GB113			[2]Pipe Fitting Insulation	A	X				~10				
GB201			Vinyl Floor Tile	A	X				~ 300 ft^2	GB1		1' x 1' Vinyl Floor Tile, light brown with dark brown, orange	6% Chrysotile
GB201			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB4		Brown and Red Square Pattern	20% Chrysotile
GB202			Vinyl Floor Tile & Mastic	A	X				~ 300ft^2	GB8		1' x 1' Vinyl Floor Tile, olive green with white	6% Chrysotile & 3% Chrysotile
GB202			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB10		Pink and Blue Square Pattern	20% Chrysotile

Room #	Bldg. System	Component	Material Type	Access	Conditions				Quantity	Sample No.	Sample Location	Sample Description	Result
					Good	Fair	Poor	Sprayed					
GB202			Mastic	A	X				~ 15 ft^2	GB25	Floor, Living Room, Room GB202	1' x 1' Vinyl Floor Tile, grey with white	2% Chrysotile
GB202			[2]Pipe Fitting Insulation	A			X		1				
GB202			[2]Pipe Fitting Insulation	A	X				2				
GB202			Transite Panel on Heater	A	X				1	GB11		Grey Cement Board Panel	20% Chrysotile
GB203			Vinyl Floor Tile & Mastic	A	X				~ 300 ft^2	GB6		1' x 1' Vinyl Floor Tile, light grey with medium grey	7% Chrysotile & 2% Chrysotile
GB203			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB7		Light Brown Square Pattern	20% Chrysotile
GB203			Transite Panel on Heater	A	X				1	GB11		Grey Cement Board Panel	20% Chrysotile
GB204			Vinyl Floor Tile	A	X				~ 300 ft^2	GB1		1' x 1' Vinyl Floor Tile, light brown with dark brown, orange	6% Chrysotile
GB204			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB4		Brown and Red Square Pattern	20% Chrysotile
GB205			Vinyl Floor Tile & Mastic	A	X				~ 300ft^2	GB8		1' x 1' Vinyl Floor Tile, olive green with white	6% Chrysotile & 3% Chrysotile
GB205			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB10		Pink and Blue Square Pattern	20% Chrysotile
GB206			Vinyl Floor Tile & Mastic	A	X				~ 300ft^2	GB8		1' x 1' Vinyl Floor Tile, olive green with white	6% Chrysotile & 3% Chrysotile
GB206			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB7		Light Brown Square Pattern	20% Chrysotile
GB206			Transite Panel on Heater	A	X				2	GB11		Grey Cement Board Panel	20% Chrysotile
GB207			Vinyl Floor Tile	A	X				~ 300 ft^2	GB1		1' x 1' Vinyl Floor Tile, light brown with dark brown, orange	6% Chrysotile
GB207			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB4		Brown and Red Square Pattern	20% Chrysotile
GB208			Vinyl Floor Tile & Mastic	A	X				~ 300ft^2	GB8		1' x 1' Vinyl Floor Tile, olive green with white	6% Chrysotile & 3% Chrysotile
GB208			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB10		Pink and Blue Square Pattern	20% Chrysotile

Room #	Bldg. System	Component	Material Type	Access	Conditions				Quantity	Sample No.	Sample Location	Sample Description	Result
					Good	Fair	Poor	Sprayed					
GB209			Vinyl Floor Tile & Mastic	A	X				~ 300ft^2	GB8		1' x 1' Vinyl Floor Tile, olive green with white	6% Chrysotile & 3% Chrysotile
GB209			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB7		Light Brown Square Pattern	20% Chrysotile
GB210			Vinyl Floor Tile	A	X				~ 300 ft^2	GB1		1' x 1' Vinyl Floor Tile, light brown with dark brown, orange	6% Chrysotile
GB210			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB4		Brown and Red Square Pattern	20% Chrysotile
GB211			Vinyl Floor Tile & Mastic	A	X				~ 300ft^2	GB8		1' x 1' Vinyl Floor Tile, olive green with white	6% Chrysotile & 3% Chrysotile
GB211			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB10		Pink and Blue Square Pattern	20% Chrysotile
GB301			Vinyl Floor Tile & Mastic	A	X				~ 300 ft^2	GB6		1' x 1' Vinyl Floor Tile, light grey with medium grey	7% Chrysotile & 2% Chrysotile
GB301			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB7		Light Brown Square Pattern	20% Chrysotile
GB301			Transite Panel on Heater	A	X				1	GB11		Grey Cement Board Panel	20% Chrysotile
GB302			Vinyl Floor Tile	A	X				~ 300 ft^2	GB1		1' x 1' Vinyl Floor Tile, light brown with dark brown, orange	6% Chrysotile
GB302			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB4		Brown and Red Square Pattern	20% Chrysotile
GB303			Vinyl Floor Tile & Mastic	A	X				~ 300ft^2	GB8		1' x 1' Vinyl Floor Tile, olive green with white	6% Chrysotile & 3% Chrysotile
GB303			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB10		Pink and Blue Square Pattern	20% Chrysotile
GB304			Vinyl Floor Tile & Mastic	A	X				~ 300 ft^2	GB6		1' x 1' Vinyl Floor Tile, light grey with medium grey	7% Chrysotile & 2% Chrysotile
GB305			Vinyl Floor Tile	A	X				~ 300 ft^2	GB1		1' x 1' Vinyl Floor Tile, light brown with dark brown, orange	6% Chrysotile
GB305			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB4		Brown and Red Square Pattern	20% Chrysotile
GB305			Vinyl Floor Tile	A	X				~ 30 ft^2	GB24	Floor, Entrance, Room GB305	1' x 1' Vinyl Floor Tile, yellow with white	2% Chrysotile

Room #	Bldg. System	Component	Material Type	Access	Conditions				Quantity	Sample No.	Sample Location	Sample Description	Result
					Good	Fair	Poor	Sprayed					
GB306			Vinyl Floor Tile & Mastic	A	X				~ 300ft^2	GB8		1' x 1' Vinyl Floor Tile, olive green with white	6% Chrysotile & 3% Chrysotile
GB306			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB10		Pink and Blue Square Pattern	20% Chrysotile
GB307			Vinyl Floor Tile & Mastic	A	X				~ 300 ft^2	GB6		1' x 1' Vinyl Floor Tile, light grey with medium grey	7% Chrysotile & 2% Chrysotile
GB307			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB7		Light Brown Square Pattern	20% Chrysotile
GB308			Vinyl Floor Tile	A	X				~ 300 ft^2	GB1		1' x 1' Vinyl Floor Tile, light brown with dark brown, orange	6% Chrysotile
GB308			Transite Panel on Heater	A	X				1	GB11	Wall, washroom, Room GB308	Grey Cement Board Panel	20% Chrysotile
GB309			Vinyl Floor Tile & Mastic	A	X				~ 300 ft^2	GB8	Floor, Living Room, Room GB309	1' x 1' Vinyl Floor Tile, olive green with white	6% Chrysotile & 3% Chrysotile
GB309			Vinyl Floor Tile & Mastic	A	X				~ 15ft^2	GB8		1' x 1' Vinyl Floor Tile, olive green with white	6% Chrysotile & 3% Chrysotile
GB309			Mastic	A	X				~ 15ft^2	GB9	Floor, Entrance, Room GB309	1' x 1' Vinyl Floor Tile, brown stripes	4% Chrysotile
GB309			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB10	Floor, Washroom, Room GB309	Pink and Blue Square Pattern	20% Chrysotile
GB310			Vinyl Floor Tile & Mastic	A	X				~ 300 ft^2	GB6	Floor, Living Room, Room GB310	1' x 1' Vinyl Floor Tile, light grey with medium grey	7% Chrysotile & 2% Chrysotile
GB310			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB7	Floor, Washroom, Room GB310	Light Brown Square Pattern	20% Chrysotile
GB311			Vinyl Floor Tile	A	X				~ 300 ft^2	GB1	Floor, Living Room, Room GB311	1' x 1' Vinyl Floor Tile, light brown with dark brown, orange	6% Chrysotile

Room #	Bldg. System	Component	Material Type	Access	Conditions				Quantity	Sample No.	Sample Location	Sample Description	Result
					Good	Fair	Poor	Sprayed					
GB311			Vinyl Sheet Flooring	A	X				~ 30 ft^2	GB4	Floor, Washroom, Room GB311	Brown and Red Square Pattern	20% Chrysotile

No Access was available to the following rooms: GB213, GB313

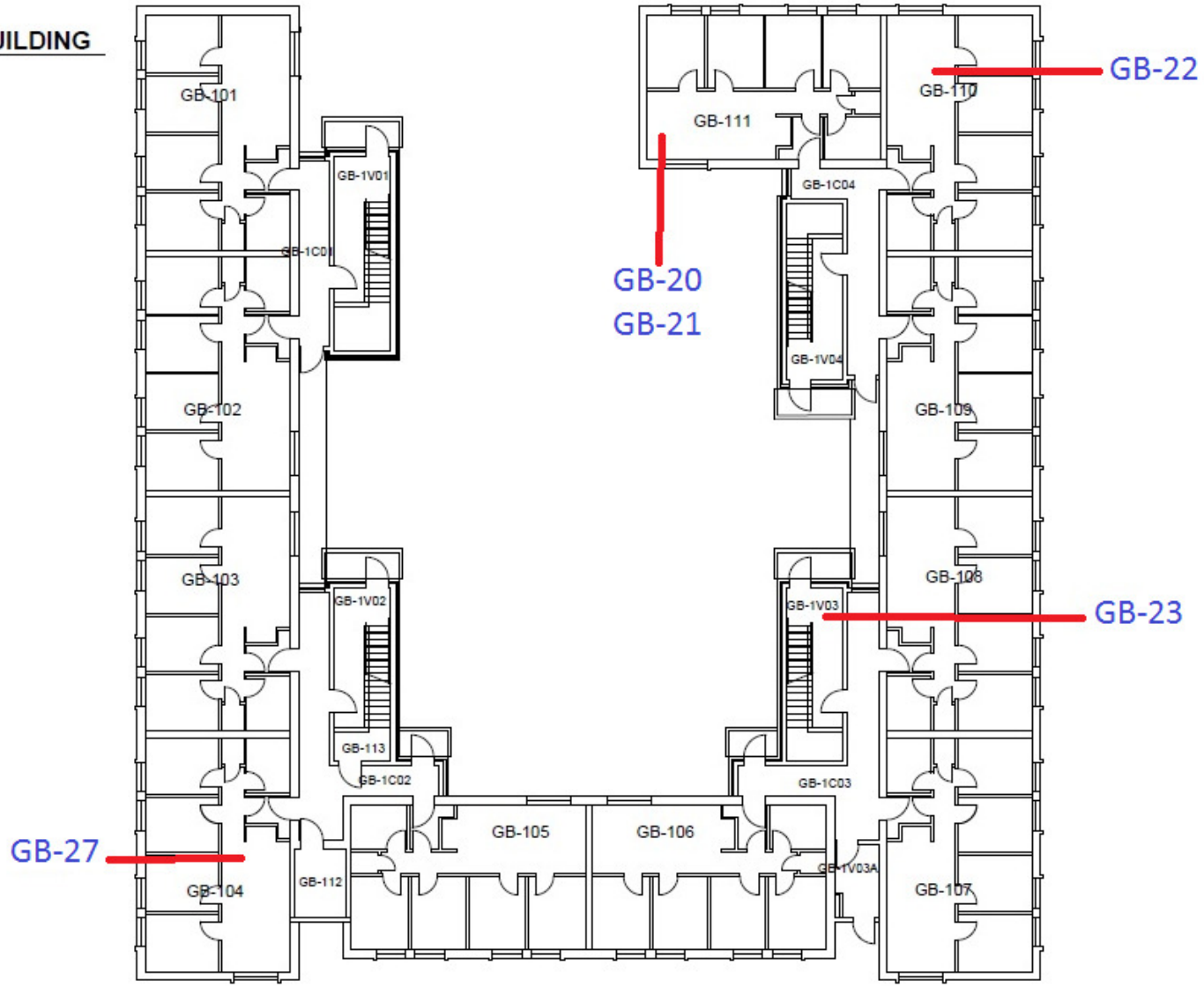
Access: *A* - Areas within reach from the floor. *B* - Frequently entered maintenance areas floor level. *C* - exposed / concealed above 8 ft, crawl space, etc.*D* - Inaccessible

[1]Suspect asbestos containing transite. Visually similar material sampled at Cartier Court (sample #CR34)
[2]Suspect asbestos containing insulation. Visually distinguishable fitting from sample GB-17 (found to be non-asbestos containing).

APPENDIX IV

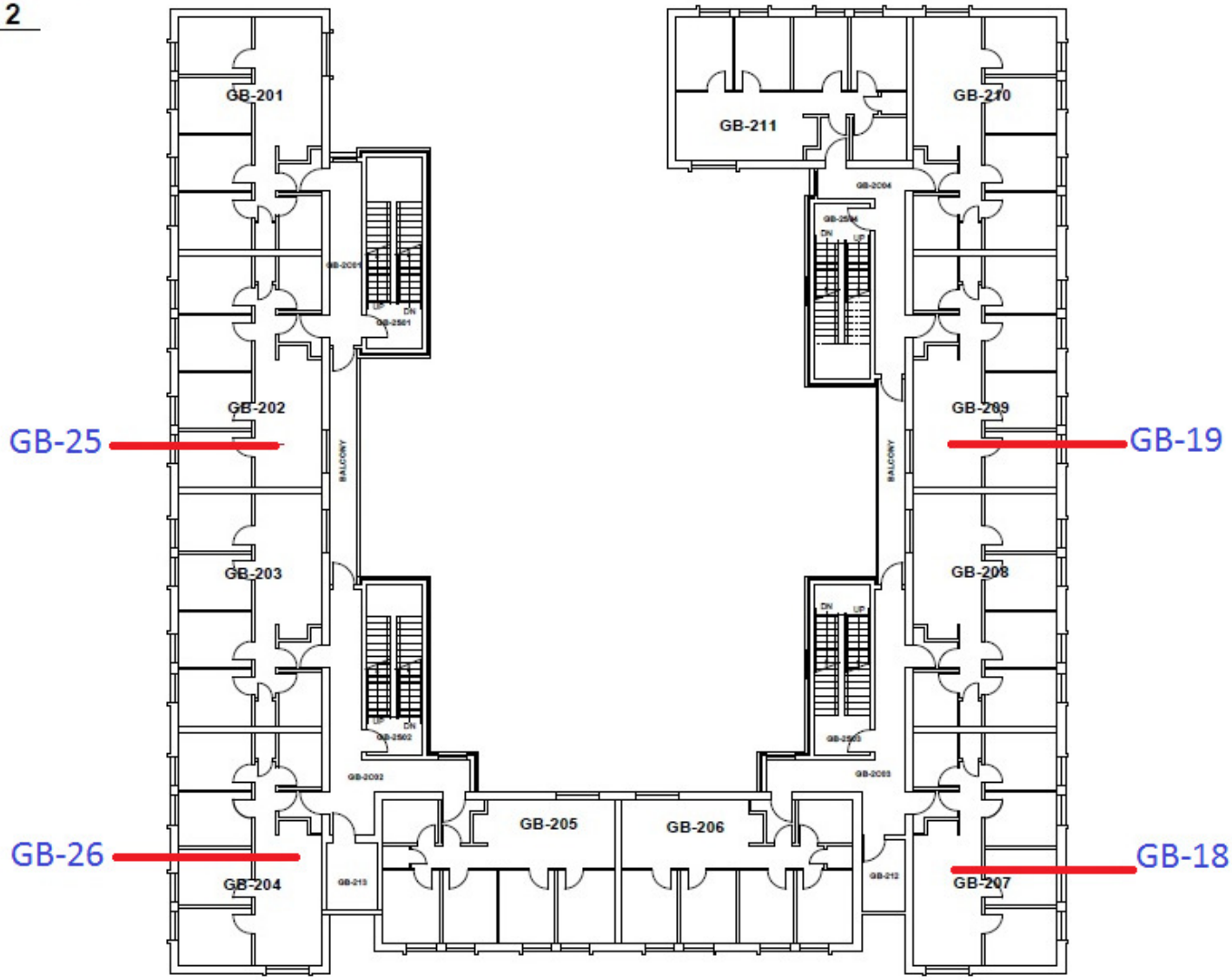
FLOOR PLANS SHOWING SAMPLING LOCATIONS

GILBERT BUILDING
LEVEL - 1



GILBERT BUILDING

LEVEL - 2



GILBERT BUILDING
LEVEL - 3