



PRE-RENOVATION DESIGNATED SUBSTANCES AND HAZARDOUS MATERIALS SURVEY



**REXDALE COMMUNITY HUB
21 PANORAMA COURT
ETOBICOKE, ON**

Prepared for:

City of Toronto

Corporate Real Estate Management

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EXECUTIVE SUMMARY

ECOH Management Inc. (ECOH) was retained by the City of Toronto to conduct a Pre-Renovation Designated Substances and Hazardous Materials assessment at Rexdale Community Hub, located at 21 Panorama Court in Etobicoke, ON. The objectives of the survey were to identify potential environmental considerations associated with building materials to be impacted by the planned renovations of specific areas of the Gymnasium & Stage within the facility, hereafter referred to as the "Project Area", and provide recommendations, as necessary, to fulfil requirements set forth within the Ministry of Labour Codes as well as the Ontario Occupational Health and Safety Act. Leanne Stevens and Sandip Cruz of ECOH performed the survey and assessment on October 11, 2023.

This executive summary provides a brief overview of the key survey findings and associated recommendations. Detailed information regarding the findings and recommendations are discussed in the body of the report.

FINDINGS

Table 1 presents a brief outline of ECOH's findings within the Project Area. For analytical results for asbestos, refer to Appendix I - Results of Bulk Sample Analysis for Asbestos & Lead. Refer to the main body of the report and Appendices II and III for specific details, quantities and locations of Designated Substances and Hazardous Materials in the Project Area.

Table 1: Summary of Findings	
Material	Findings
Asbestos	<p>Asbestos-containing materials (ACM) are present in various locations throughout the Project Area in the following forms:</p> <ul style="list-style-type: none"> • Transite Pipe (visually confirmed asbestos-containing) <ul style="list-style-type: none"> ○ Present above Stage • Vinyl Floor Tile 1 -12"x12" Beige with Brown Streaks (2% Chrysotile), associated Black Mastic is non-asbestos <ul style="list-style-type: none"> ○ Present on Stage, approx. 35 square feet POOR condition • Vinyl Floor Tile 2 -12"x12" Beige with Black Streaks (2% Chrysotile), associated Black Mastic is non-asbestos <ul style="list-style-type: none"> ○ Present in Storage Areas under Stage, approx. 50 square feet POOR condition • Drywall Joint Compound (presumed asbestos-containing*), <ul style="list-style-type: none"> ○ Present on Bulkheads above Stage, approx. 15 square feet POOR condition • Concrete Block Fill (1% Chrysotile) <ul style="list-style-type: none"> ○ Present throughout Project Area • Vermiculite Insulation (0.5-5% Actinolite) <ul style="list-style-type: none"> ○ May be present within concrete block walls throughout Project Area**

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Table 1: Summary of Findings	
Material	Findings
	Additional asbestos-containing materials may be present within concealed conditions of the Project Area (i.e., above fixed ceilings, within wall cavities, pipe chases, etc.).
Lead	<p>The following lead-containing paints (i.e., concentrations of lead equal to or greater than 0.1% by weight, or 1000 parts per million (ppm), were identified during this assessment:</p> <ul style="list-style-type: none"> • Blue Paint on Stairs Railing – 1500 ppm (lead-containing) <p>All other paints sampled as part of this assessment were non-lead-based, however, all paints are assumed to contain varying percentages or trace amounts of lead.</p> <p>No other major sources of lead or lead-containing products were identified during the survey; however, lead may be present in:</p> <ul style="list-style-type: none"> • Internal batteries associated with emergency lighting system, • Ceramic tile glazing, • Wiring connectors and electric cable sheathing, and • Solder joints on copper piping.
Mould	Mould-growth was not observed to be present in the Project Area at the time of the assessment.
Mercury	Thermostats throughout the Project Area contain mercury liquid. Minor quantities are also present as a vapour within fluorescent tubes lights and as a possible constituent of paints and adhesives.
Polychlorinated Biphenyls (PCBs)	May be present in light ballasts throughout the Project Area.
Silica	Present in all concrete and masonry products.
Other Designated Substances and Hazardous Materials	Acrylonitrile, Arsenic, Benzene, Coke Oven Emissions, Ethylene Oxide, Mould, Ozone Depleting Substances, Isocyanates, Urea Formaldehyde Foam Insulation (UFFI) and Vinyl Chloride Monomer were not noted in significant quantities or forms, if at all.
<p>* Material could not be sampled due to height restrictions</p> <p>** Presence of material could not be verified as intrusive investigations were not conducted</p>	

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RECOMMENDATIONS

The following recommendations meet the requirements of the Occupational Health and Safety Act. Asbestos recommendations meet the requirements of the Designated Substance – Regulation respecting *Asbestos on Construction Projects and in Buildings and Repair Operations*, Ontario Regulation 278/05. Based upon review of historical reports, as well as analytical results and observations of this assessment, ECOH offers the following for your consideration.

Asbestos

Based on survey results, the following conclusion are made with regards to asbestos-containing materials (ACMs) within the Project Area:

- As asbestos-containing materials (ACM) are present with the Project Area, ECOH recommends that all workers have asbestos awareness and respirator training before commencing work. Asbestos awareness training will provide on-site workers the understanding of asbestos-related health and safety issues; the ability to recognize ACM and any situation that may present a potential asbestos exposure, and' the ability to respond appropriately to an inadvertent disturbance of ACM in the work area.
- Regarding the removal or disturbance of non-friable **asbestos-containing** materials (vinyl floor tiles, concrete block fill, transite pipe), if required;
 - Type 1 Asbestos Safety Precautions should be utilized for the disturbance or removal of non-friable materials; provided that materials are wetted to control the spread of dust or fibres and work is done only by means of non-powered hand-held tools.
 - Type 2 Asbestos Safety Precautions should be utilized for the disturbance or removal of non-friable materials; if the work is done by means of power tools that are attached to dust-collecting devices equipped with HEPA filters.
 - Type 3 Asbestos Safety Precautions should be utilized for the disturbance or removal of non-friable materials; if the work is done by means of power tools that are not attached to dust-collecting devices equipped with HEPA filters.
- Regarding the removal or disturbance of non-friable **asbestos-containing** materials (drywall with joint compound), if required;
 - Type 1 Asbestos Safety Precautions should be utilized for the disturbance or removal of less than one square meter of asbestos-containing drywall with joint compound provided that the materials are wetted to control the spread of dust or fibres and work is done only by means of non-powered hand-held tools.
 - Type 2 Asbestos Safety Precautions should be utilized for the disturbance or removal of one square meter or more of asbestos-containing drywall with joint compound provided that the materials are wetted to control the spread of dust or fibres and work is done by means of non-powered hand-held tools or if the work is done by means of power tools, that are attached to dust-collecting devices equipped with HEPA filters.

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- Regarding the removal or disturbance of **asbestos-containing** vermiculite insulation, if required;
 - Type 3 Asbestos Safety Precautions should be utilized for the disturbance or removal vermiculite insulation.
- Any 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 techniques and appropriate respiratory protection.
- The asbestos-related findings of this report and any required removal of identified ACM should be used to update information within, or be inserted into, the facility's inventory of asbestos-containing building materials.
- During project work, if any additional materials are found beyond those which are described in this report or described in the existing inventory of asbestos-containing materials (i.e., materials not previously identified, or materials that are not homogenous to those previously identified, or materials that become revealed during the work), additional testing for asbestos-content should be completed immediately and prior to disturbance of the material. Alternatively, these materials can be assumed to contain asbestos, and the appropriate level of asbestos safety precautions must be implemented.
- Prior to renovation work, confirmed asbestos-containing materials that have the potential to be disturbed during the renovation work must be removed using asbestos safety procedures detailed within Ontario Regulation 278/05. Classification of the asbestos operation should be determined by an experienced and qualified person.

Lead

The removal of assumed or confirmed lead-containing construction materials (i.e., lead concentrations >0.1% or 1000ppm) should be completed in accordance with the recommendations of the Environmental Abatement Council of Canada (EACC), *EACC Lead Guideline for Construction, Renovation, Maintenance or Repair*, October 2014, which incorporates the Ontario Ministry of Labour Document, *Guideline Lead on Construction Projects*, April 2011. Renovation, demolition, or general construction work involving the removal of materials containing only *trace* concentrations of lead (i.e., lead concentrations below 0.1% [1,000 ppm] by dry weight) can be completed without lead specific safety precautions provided that:

- i. Work does not include 'fume generating activities' (heat producing) such as welding, torching, burning, high temperature cutting, etc.;
- ii. Work does not include dust-generating activities such as grinding, cutting or chemical stripping,
- iii. Dust levels are maintained below 3mg/m³, and
- iv. General health and safety construction procedures are implemented, which would include dust suppression methods, proper respiratory protection (minimum of a 1/2-face respirator) and protective clothing, as is appropriate for the work being completed.

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Materials containing even trace amounts of lead should be removed without grinding, cutting, torching, or chemical stripping. Additionally, workers should employ general safety precautions such as appropriate dust suppression methods and proper personal protective equipment.

Inhalation and ingestion are the two major routes of exposure to lead and both can be harmful depending on the exposure level. If confirmed and/or assumed lead containing materials are observed to be in good condition, exposure to lead is considered to be low or negligible.

Mercury

The presence of mercury within fluorescent tubes lights, paints and adhesives should not be considered a hazard provided the assembled units remain sealed and intact. Avoid direct skin contact with mercury and avoid inhalation of mercury vapour. Dispose of mercury following requirements of the Canada Environmental Protection Act, the Transportation of Dangerous Goods Act and provincial legislative requirements that may be applicable.

Silica

Cutting, grinding, or demolition of materials containing silica should be completed using general health and safety precautions including the use of dust suppression techniques and appropriate respiratory protection.

During major renovations, removal of materials containing silica should be removed following recommendations detailed within the Ministry of Labour document, *Guideline - Silica on Construction Projects*, dated, April 2011.

Polychlorinated Biphenyls (PCBs)

Fluorescent light ballasts should be removed and disassembled to observe serial codes which should be compared to standard PCB Identify Code literature. Ballasts with unidentifiable serial codes, or from manufacturers who are not included in the standard PCB Identifier Code literature or are not clearly labelled as “PCB Free”, or no date is clearly visible (ballasts dated 1981 or later do not contain PCBs), must be assumed to contain PCBs. Ballasts confirmed or assumed to contain PCBs must be disposed of following applicable legislative requirements (e.g., Canada Environmental Protection Act, the Transportation of Dangerous Goods Act and provincial legislative requirements as may be applicable).

This executive summary provides a brief overview of the study findings. It is not intended to substitute for reading the complete report, nor does it discuss specific issues documented in the report.

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1. INTRODUCTIONS

ECOH Management Inc. (ECOH) was retained by the City of Toronto to conduct a Pre-Renovation Designated Substances and Hazardous Materials assessment at Rexdale Community Hub, located at 21 Panorama Court in Etobicoke, ON. The objectives of the survey were to identify potential environmental considerations associated with building materials to be impacted by the planned renovations of specific areas of the Gymnasium & Stage within the facility, hereafter referred to as the "Project Area", and provide recommendations, as necessary, to fulfil requirements set forth within the Ministry of Labour Codes as well as the Ontario Occupational Health and Safety Act. Leanne Stevens and Sandip Cruz of ECOH performed the survey and assessment on October 11, 2023.

The survey included an investigation for the presence of Designated Substances including:

- Acrylonitrile
- Arsenic
- Asbestos
- Benzene
- Coke Oven Emissions
- Ethylene Oxide
- Isocyanates
- Lead
- Mercury
- Silica
- Vinyl Chloride Monomer

And for Hazardous Materials including:

- Polychlorinated Biphenyls (PCBs)
- Mould
- Ozone Depleting Substances (ODS)
- Other Hazardous Materials

The following report details the project scope of work, regulatory requirements, survey and analytical methodologies, survey findings and recommendations, and survey statement of limitations.

1.1 Regulatory Requirements

A Designated Substances and Hazardous Materials Report is completed to fulfil the Owner's requirements under Section 30 of the Ontario Occupational Health and Safety Act. Prior to tendering project work in a building, the building owner must provide this report to contractors tendering on the work.

Ministry of Labour Regulation 278/05, *Regulation respecting Asbestos on Construction Projects and in Buildings and Repair Operations*, controls the disturbance of asbestos materials on construction projects. Ministry of Environment Regulation, R.R.O. 347, controls the disposal of asbestos waste. The Ministry of Labour has also issued guidelines for the control of Lead and Silica on construction projects, these entitled, *Guideline - Lead on Construction Projects* and *Guideline - Silica on Construction Projects*.

There are no specific Ministry of Labour regulations for control of the remaining Designated Substances on construction projects. However, the Ministry of Labour actively enforces the general duty clause of the Occupational Health and Safety Act which protects workers and

provides guidance on exposure monitoring, permissible exposure levels, medical monitoring, etc., for all Designated Substances in an occupational setting.

2. SURVEY SCOPE OF WORK AND METHODOLOGY

2.1 General Approach

Details of the survey methodology, as was applied to this facility, are as follows:

- To ensure familiarity with the facility, the surveyor referred to project drawings provided by City of Toronto.
- Visual inspections of the Project Area (as denoted on the project drawings) were completed using the following protocol:
 - The survey included all Accessible areas (i.e., above false ceilings or within solid ceilings and walls where access hatches were available)
 - The survey did not include demolition of building systems or finishes to visually assess concealed conditions.
- Reporting the findings of visual inspections is completed using the following protocol:
 - Details of specific observations collected from visual inspections were used to extrapolate information for adjacent areas or areas of similar design.
 - Observations are detailed for each phase or date of construction and/or major renovation where possible.

2.2 Records Review

As part of this survey, ECOH reviewed the following report:

- *Survey for Designated Substances and Hazardous Materials, Rexdale Community Hub, 21 Panorama Court, Toronto, Ontario*, prepared for the City of Toronto by ECOH Management Inc., dated November 27, 2020. ECOH Project # 25715-B132.

2.3 Survey Drawings

Locations of Designated Substances and Hazardous Materials identified within the Project Area during the survey are illustrated on drawings (to the extent that is practicable) presented in Appendix II - Survey Drawings ("Area of Investigation") and Appendix IV – Hazardous Materials Inventory Sheet.

2.4 Asbestos Survey Methodology

2.4.1 Asbestos Survey Omissions from Scope

When conducting an asbestos survey, it is standard practice to assume that certain building materials potentially contain asbestos. Depending on the material, this assumption is undertaken for one or more of the following reasons:

1. The material is inaccessible (i.e., underground piping).
2. There is an inherent danger in sampling the material (i.e., high voltage wires).
3. Sampling will compromise the integrity of the building structure or envelope (i.e., roofing felts).

Therefore, for the purpose of this survey, ECOH assumed the following materials (if present) are asbestos-containing:

- Fire doors
- High voltage wiring
- Mechanical packing and gaskets
- Underground services or piping

In addition, no identification was made of asbestos products used in manufacturing processes or operations (i.e., manufacturing equipment, laboratories, etc.).

2.4.2 Asbestos Sampling Strategy and Analytical Methods

Bulk samples of potential asbestos-containing materials were collected for analysis during the survey. 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. Only one positive result (i.e., confirming the presence of asbestos) is required to classify a material as asbestos-containing. Therefore, ECOH's sampling strategy involves the collection of sufficient numbers of samples to meet regulatory requirements, followed by instructions to the laboratory to cease analysis when one sample within a series has already proven positive for 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 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. Samples were then analyzed following the analytical procedure prescribed by the Regulation 278/05, U.S. Environmental Protection Agency Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials. June 1993. 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.

Where possible, ECOH has used existing analytical data, rather than collect and analyze additional bulk samples. Although historical sample information is used to confirm the presence of asbestos in suspect materials, historical samples are not used in defining materials as non-asbestos. Historical sample results were only used if the surveyor, based on his/her experience, could clearly associate the sample information with the material present at the Site.

The collection of samples was performed with sufficient frequency to obtain a general pattern of asbestos use within the building. Due to building renovations or modifications that may have occurred in the past, the consistency of the application of asbestos materials may not be uniform throughout the entire facility. It is important to note that without sampling every wall, pipe section, ceiling tile, etc., it is not possible to identify the asbestos content in every material present in the building. For this reason, similar materials to those already sampled elsewhere in the building were visually identified as being the same as those samples without additional analysis.

The Chain of Custody and the Certificate of Analysis, which details analytical results referenced in the findings section, for all bulk sampling is presented within Appendix I - Results of Bulk Sample Analysis for Asbestos & Lead.

The recommendations in this report take into consideration the condition and accessibility of the asbestos material as well as other factors such as water damage, vibration, air movement and general activities in the area.

Where ACM is found to be in GOOD condition and not likely to deteriorate or fall, the general recommendation is to re-evaluate the condition of the material on an annual basis. This recommendation is subject to change if the material is located in a manner that persons untrained in asbestos awareness could physically damage it.

Where the ACM is found to be damaged, a recommendation to have the material repaired, removed, encased, or encapsulated is offered. The recommendation will also indicate which asbestos safety precautions (i.e., Type 1, Type 2 or Type 3) should be undertaken when performing the remedial work.

2.5 Analysis of Lead in Paint

The presence of lead-in-paint was assessed by the collection and submission of bulk material samples to a professional laboratory for analysis by atomic absorption spectroscopy. Lead bulk samples that are collected are placed in plastic bags, sealed, and shipped to an independent laboratory. A formal chain of custody procedure is maintained between ECOH and the sub-contracted laboratory during sample transport. All laboratories used by ECOH are accredited under the U.S. EPA National Environmental Lead Laboratory Accreditation Program (NLLAP) and/or American Industrial Hygiene Association (AIHA) Environmental Lead Laboratory Accreditation Program (ELLAP) to ensure consistent, accurate and defensible results.

For the laboratory chain of custody and the certificate of analysis, which detail analytical results for all bulk samples referenced in the Findings Sections, refer to Appendix I - Results of Bulk Sample Analysis for Asbestos & Lead.

2.6 Mould Assessment

A visual mould assessment of the Project Area was carried out during this survey included visual assessment and sampling, if required, but did not include intrusive investigation (i.e., test-cuts).

2.7 Survey of Other Hazardous Materials

Materials suspected of containing Designated Substances and Hazardous Materials, other than lead in paint or asbestos, were identified by appearance, age, and knowledge of historic applications in building construction and equipment design.

3. FINDINGS

3.1 Asbestos

The following is a brief discussion of the extent to which asbestos-containing materials (ACM) were identified in the Project Area. The discussion is organized under the headings of materials that are generally suspected of containing asbestos. Please refer to Table 2 for sample details and laboratory analysis results.

Table 2: Summary of Analysis of Asbestos Bulk Samples			
Sample Number	Sample Location	Sample Description	Results
28129-ASB-01A	Back Stage (Loc. 1067)	Black Mastic under Vinyl Floor Tile 1 - 12"x12" Beige with Brown Streaks	None Detected
28129-ASB-01B	Back Stage (Loc. 1067)	Black Mastic under Vinyl Floor Tile 1 - 12"x12" Beige with Brown Streaks	None Detected
28129-ASB-01C	Back Stage (Loc. 1067)	Black Mastic under Vinyl Floor Tile 1 - 12"x12" Beige with Brown Streaks	None Detected
28129-ASB-02A	Back Stage (Loc. 1067)	Yellow Mastic under Rubber Flooring on Stairs	None Detected
28129-ASB-02B	Back Stage (Loc. 1067)	Yellow Mastic under Rubber Flooring on Stairs	None Detected
28129-ASB-02C	Back Stage (Loc. 1067)	Yellow Mastic under Rubber Flooring on Stairs	None Detected
28129-ASB-03A	Back Stage (Loc. 1067)	Brown Vinyl Baseboard Mastic	None Detected
28129-ASB-03B	Back Stage (Loc. 1067)	Brown Vinyl Baseboard Mastic	None Detected

Table 2: Summary of Analysis of Asbestos Bulk Samples			
Sample Number	Sample Location	Sample Description	Results
28129-ASB-03C	Back Stage (Loc. 1067)	Brown Vinyl Baseboard Mastic	None Detected
28129-ASB-04A	Back Stage (Loc. 1067)	Concrete Block Mortar - Block Fill	1% Chrysotile
		Concrete Block Mortar - Mortar	None Detected
28129-ASB-04B	Back Stage (Loc. 1067)	Concrete Block Mortar - Block Fill	Positive Stop (Not Analyzed)
		Concrete Block Mortar - Mortar	None Detected
28129-ASB-04C	Back Stage (Loc. 1067)	Concrete Block Mortar - Block Fill	Positive Stop (Not Analyzed)
		Concrete Block Mortar - Mortar	None Detected
28129-ASB-05A	Back Stage (Loc. 1067)	Expansion Joint Caulking	None Detected
28129-ASB-05B	Back Stage (Loc. 1067)	Expansion Joint Caulking	None Detected
28129-ASB-05C	Back Stage (Loc. 1067)	Expansion Joint Caulking	None Detected
28129-ASB-06A	Back Stage (Loc. 1067)	Black Curtain	None Detected
28129-ASB-06B	Back Stage (Loc. 1067)	Black Curtain	None Detected
28129-ASB-06C	Back Stage (Loc. 1067)	Black Curtain	None Detected
28129-ASB-07A	Front Stage (Loc. 1067)	Blue Curtain	None Detected
28129-ASB-07B	Front Stage (Loc. 1067)	Blue Curtain	None Detected
28129-ASB-07C	Front Stage (Loc. 1067)	Blue Curtain	None Detected
28129-ASB-08A	Front Stage (Loc. 1067)	Joint Compound over Wood Panel	None Detected

Table 2: Summary of Analysis of Asbestos Bulk Samples			
Sample Number	Sample Location	Sample Description	Results
28129-ASB-08B	Front Stage (Loc. 1067)	Joint Compound over Wood Panel	None Detected
28129-ASB-08C	Front Stage (Loc. 1067)	Joint Compound over Wood Panel 1	None Detected
		Joint Compound over Wood Panel 2	None Detected
28129-ASB-09A	Storage Space under Front Stage (Loc. 1067)	Vinyl Floor Tile 2- 12"x12" Light Beige with Black Streaks	2% Chrysotile
		Black Mastic	None Detected
		Yellow Mastic	None Detected
28129-ASB-09B	Storage Space under Front Stage (Loc. 1067)	Vinyl Floor Tile 2- 12"x12" Light Beige with Black Streaks	Positive Stop (Not Analyzed)
		Black Mastic	None Detected
28129-ASB-09C	Storage Space under Front Stage (Loc. 1067)	Vinyl Floor Tile 2- 12"x12" Light Beige with Black Streaks	Positive Stop (Not Analyzed)
		Black Mastic	None Detected
- shading indicates sample result positive for asbestos (if applicable)			

3.1.1 Spray Applied Fireproofing or Thermal Insulation (Friable)

Spray applied fireproofing was not observed within the Project Area at the time of the assessment.

3.1.2 Texture Finishes (Friable)

Texture finishes were not observed within the Project Area at the time of the assessment.

3.1.3 Thermal Mechanical Insulation (Friable)

The following presents a brief description of the mechanical insulations and the systems to which they are applied.

3.1.3.1 Piping Systems

Pipe fittings (which may include elbows, valves, tees, hangers, etc.) observed throughout the Project Area are insulated with non-asbestos materials (e.g., fibreglass, foam, etc.), or not insulated.

Straight sections of pipe observed throughout the Project Area were observed to be not insulated or insulated with non-asbestos materials (e.g., fiberglass, foam, etc.).

3.1.3.2 Duct Systems

Ducts observed throughout the Project Area are insulated with non-asbestos fiberglass or are uninsulated.

3.1.3.3 Mechanical Equipment

Mechanical equipment observed throughout the Project Area are insulated with non-asbestos materials (e.g., fibreglass, foam, etc.), or not insulated.

Additional thermal mechanical insulation may be present within concealed conditions of the Project Area (i.e., above fixed ceilings, within wall cavities, pipe chases, etc.) and may not be denoted on Survey Drawings included as Appendix II.

3.2 Asbestos Cement Products (Non-Friable)

Transite Pipe was observed above the east stairs in the Back Stage (Loc. 1067). This material is **visually confirmed to be asbestos-containing**.

3.3 Acoustic Ceiling Tiles (Friable)

Ceiling tiles were not observed within the Project Area during this assessment.

3.4 Vinyl Floor Tiles (Non-Friable)

Two (2) distinct vinyl floor tiles were observed in the Project Area.

- Vinyl Floor Tile 1 (VFT1 – 12"x12" Beige with Brown Streaks) was previously sampled and determined by laboratory analysis to contain **2% Chrysotile asbestos** (*Survey for Designated Substances and Hazardous Materials*, Nov. 27, 2020).

Three (3) samples of black mastic under VFT1 were collected (28129-ASB-01A-01C) and determined by laboratory analysis to be non-asbestos.

- Approximately thirty-five (35) square feet of VFT1 were observed to be in POOR condition in the Back Stage (Loc. 1067).
- Three (3) samples of Vinyl Floor Tile 2 (VFT2 – 12"x12" Beige with Black Streaks) were collected (28129-ASB-09A-09C) and determined by laboratory analysis to contain **2% Chrysotile asbestos**.

Associated black/yellow mastic under VFT2 was determined by laboratory analysis to be non-asbestos.

- Approximately fifty (50) square feet of VFT2 was observed to be in POOR condition in the storage spaces under the Front Stage (Loc. 1067).

3.5 Vinyl Sheet Flooring (Potentially-Friable)

Vinyl sheet flooring was not observed within the Project Area during this assessment.

3.6 Drywall Joint Compound (DJC) (Non-Friable)

Drywall with joint compound were observed to be present on bulkheads in the Back Stage (Loc. 1067). These areas were out of reach with a standard 6-foot ladder and therefore not sampled. These materials are **presumed to be asbestos-containing** until sampling determines otherwise.

- Approximately fifteen (15) square feet of drywall with joint compound on horizontal bulkhead were observed to be in POOR condition in the Back Stage (Loc. 1067).

3.7 Plaster (Non-Friable)

Plaster was not observed within the Project Area during this assessment.

3.8 Mortars (Non-Friable)

Three (3) samples of concrete block mortar were collected (28129-ASB-04A-04C) and determined by laboratory analysis be non asbestos.

Block fill was adhered to the concrete block/mortar and determined by laboratory analysis to contain **1% Chrysotile asbestos**.

3.9 Firestop (Non-Friable)

Firestop was not observed within the Project Area during this assessment.

3.10 Roofing Materials (Non-Friable)

The roof areas were not included within the scope of this project and therefore not sampled. Roofing materials are **assumed** to contain asbestos until sampling proves otherwise.

3.11 Vermiculite Insulation (Friable)

Vermiculite insulation was previously sampled within the facility and determined to contain **0.5-5% Actinolite asbestos** (*Survey for Designated Substances and Hazardous Materials*, Nov. 27, 2020). This material may be present within concrete block walls in the Project Area, but its presence could not be verified as intrusive investigations were not conducted.

3.12 Other (Non-Friable)

- Three (3) samples of Yellow Mastic under Rubber Flooring on Stairs were collected (28129-ASB-02A-02C) and determined by laboratory analysis to be non-asbestos.

- Three (3) samples of Brown Vinyl Baseboard Mastic were collected in (28129-ASB-03A-03C) and determined by laboratory analysis to be non-asbestos.
- Three (3) samples of Expansion Joint Caulking were collected (28129-ASB-05A-05C) and determined by laboratory analysis to be non-asbestos.
- Three (3) samples of Black Curtain were collected (28129-ASB-06A-06C) and determined by laboratory analysis to be non-asbestos.
- Three (3) samples of Blue Curtain were collected (28129-ASB-07A-07C) and determined by laboratory analysis to be non-asbestos.
- Three (3) samples of Joint Compound over Wood Panel were collected (28129-ASB-08A-08C) and determined by laboratory analysis to be non-asbestos.

3.13 Lead

Samples of any suspected lead-containing surface coatings were collected and submitted for laboratory analysis by Flame Atomic Absorption Spectroscopy (bulk samples) during this survey. A result from a sample exceeding 1000ppm lead content indicates the material is lead-containing. All laboratories used by ECOH are accredited under the U.S. EPA National Environmental Lead Laboratory Accreditation Program (NLLAP) and/or American Industrial Hygiene Association (AIHA) Environmental Lead Laboratory Accreditation Program (ELLAP) to ensure consistent, accurate and defensible results.

Please refer to Table 3 for sample details and laboratory analysis results for paints scheduled for potential disturbance. For the laboratory chain of custody and the certificate of analysis, refer to Appendix I - Results of Bulk Sample Analysis for Asbestos & Lead.

Table 3: Summary of Analysis for Lead Samples			
Sample Number	Location	Description	Analytical Results (ppm)
28129-Pb-01	Back Stage (Loc. 1067)	Yellow Paint on Wall	640 ppm
28129-Pb-02	Back Stage (Loc. 1067)	Concrete Block Mortar	<40 mg/kg
28129-Pb-03	Back Stage (Loc. 1067)	Blue Paint on Stairs Railing	1500 ppm
28129-Pb-04	Back Stage (Loc. 1067)	Beige Paint on Folding Wall	<80 ppm
28129-Pb-05	Gym (Loc. 1068)	Dark Beige Paint on Wall	420 ppm
- shading indicates sample result positive for lead (if applicable)			

Laboratory analysis determined the following paints as lead-containing:

- **Blue Paint on Stairs Railing - 1500 ppm**

No other major sources of lead-based or lead-containing products were observed during this survey. However, lead may be present in:

- Internal batteries associated with emergency lighting system,
- Ceramic tile glazing,
- Wiring connectors and electric cable sheathing, and
- Solder joints on copper piping.

3.14 Mercury

Mercury is presumed to be present within wall-mounted thermostats throughout the Project Area.

Mercury is also present in minor quantities throughout the Project Area in the following forms:

- As a possible constituent of paints and adhesives, and
- As a vapour within fluorescent tubes lights.

3.15 Silica

Free crystalline silica, in the form of common construction sand, is present in all concrete and masonry products within the Project Area.

3.16 Mould

Mould-affected building materials were not identified within the Project Area at the time of assessment.

3.17 Ozone Depleting Substances (ODS)

Ozone depleting substances may be present in refrigeration and cooling units.

3.18 Polychlorinated Biphenyls (PCBs)

Fluorescent light ballasts observed in various locations throughout the Project Area, may contain PCBs.

3.19 Other Designated Substances and Hazardous Materials

The following Designated Substances and Hazardous Materials were not noted in significant quantities or forms, if at all, during this survey; Acrylonitrile, Arsenic, Benzene, Coke Oven Emissions, Ethylene Oxide, Isocyanates, Urea Formaldehyde Foam Insulation (UFFI), and Vinyl Chloride Monomer.

If present on site in insignificant quantities or forms, these Designated Substances and Hazardous Materials would not be expected to pose an immediate or potential risk to human health. Adequate worker protection should be achieved when implementing general health and safety precautions during general demolition or renovation activities.

4. CONCLUSIONS AND RECOMMENDATIONS

The following recommendations meet the requirements of the Occupational Health and Safety Act. Asbestos recommendations meet the requirements of the Designated Substance – Regulation respecting *Asbestos on Construction Projects and in Buildings and Repair Operations*, Ontario Regulation 278/05. Based upon review of historical reports, as well as analytical results and observations of this assessment, ECOH offers the following:

4.1 Asbestos

Based on survey results, the following conclusion are made with regards to asbestos-containing materials (ACMs) within the Project Area:

- As asbestos-containing materials (ACM) are present with the Project Area, ECOH recommends that all workers have asbestos awareness and respirator training before commencing work. Asbestos awareness training will provide on-site workers; the understanding of asbestos-related health and safety issues; the ability to recognize ACM and any situation that may present a potential asbestos exposure, and the ability to respond appropriately to an inadvertent disturbance of ACM in the work area.
- Regarding the removal or disturbance of non-friable **asbestos-containing** materials (vinyl floor tiles, concrete block fill, transite pipe), if required;
 - Type 1 Asbestos Safety Precautions should be utilized for the disturbance or removal of non-friable materials; provided that materials are wetted to control the spread of dust or fibres and work is done only by means of non-powered hand-held tools.
 - Type 2 Asbestos Safety Precautions should be utilized for the disturbance or removal of non-friable materials; if the work is done by means of power tools that are attached to dust-collecting devices equipped with HEPA filters.
 - Type 3 Asbestos Safety Precautions should be utilized for the disturbance or removal of non-friable materials; if the work is done by means of power tools that are not attached to dust-collecting devices equipped with HEPA filters.
- Regarding the removal or disturbance of non-friable **asbestos-containing** materials (drywall with joint compound), if required;
 - Type 1 Asbestos Safety Precautions should be utilized for the disturbance or removal of less than one square meter of asbestos-containing drywall with joint compound provided that the materials are wetted to control the spread of dust or fibres and work is done only by means of non-powered hand-held tools.
 - Type 2 Asbestos Safety Precautions should be utilized for the disturbance or removal of one square meter or more of asbestos-containing drywall with joint compound provided that the materials are wetted to control the spread of dust or fibres and work is done by means of non-powered hand-held tools or if the work is done by means of power tools, that they are attached to dust-collecting devices equipped with HEPA filters.

- Regarding the removal or disturbance of **asbestos-containing** vermiculite insulation, if required;
 - Type 3 Asbestos Safety Precautions should be utilized for the disturbance or removal vermiculite insulation.
- Any 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 techniques and appropriate respiratory protection.
- The asbestos-related findings of this report and any required removal of identified ACM should be used to update information within, or be inserted into, the facility's inventory of asbestos-containing building materials.
- During project work, if any additional materials are found beyond those which are described in this report or described in the existing inventory of asbestos-containing materials (i.e., materials not previously identified, or materials that are not homogenous to those previously identified, or materials that become revealed during the work), additional testing for asbestos-content should be completed immediately and prior to disturbance of the material. Alternatively, these materials can be assumed to contain asbestos, and the appropriate level of asbestos safety precautions must be implemented.
- Prior to renovation work, confirmed asbestos-containing materials that have the potential to be disturbed during the renovation work must be removed using asbestos safety procedures detailed within Ontario Regulation 278/05. Classification of the asbestos operation should be determined by an experienced and qualified person.

4.2 Lead

Any work involving the disturbance of building materials confirmed to be lead-based or lead-containing (Blue Paint on Stairs Railing-1500 ppm) should be conducted following recommendations detailed within the Ministry of Labour document *Guideline - Lead on Construction Projects*, dated April 2011, and the Environmental Abatement Council of Canada (EACC) *Lead Guideline*, dated October 2014.

4.3 Mercury

The presence of mercury within wall-mounted thermostats, fluorescent tubes lights, paints and adhesives should not be considered a hazard provided the assembled units remain sealed and intact. Avoid direct skin contact with mercury and avoid inhalation of mercury vapour. Dispose of mercury following requirements of the Canada Environmental Protection Act, the Transportation of Dangerous Goods Act and provincial legislative requirements that may be applicable.

4.4 Mould

Water-damaged and mould-affected building materials should be removed following mould remediation protocols consistent with appropriate guidelines and industry best practices (i.e., Canadian Construction Association, Standard Construction Document CCA 82, 2004; *Mould Guidelines for the Canadian Construction Industry*, and the Environmental Abatement Council of Canada (EACC) document, *Mould Abatement Guidelines*, 3rd Edition – 2015).

4.5 Silica

Cutting, grinding, or demolition of materials containing silica should be completed using general health and safety precautions including the use of dust suppression techniques and appropriate respiratory protection, as is appropriate for the work being completed.

Removal of building materials containing silica should be completed following recommendations detailed within the Ministry of Labour document, *Guideline - Silica on Construction Projects*, dated, April 2011.

4.6 Polychlorinated Biphenyls (PCBs)

Fluorescent light ballasts should be removed and disassembled to observe serial codes which should be compared to standard PCB Identify Code literature. Ballasts with unidentifiable serial codes, or from manufacturers who are not included in the standard PCB Identifier Code literature or are not clearly labelled as “PCB Free”, or no date is clearly visible (ballasts dated 1981 or later do not contain PCBs), must be assumed to contain PCBs. Ballasts confirmed or assumed to contain PCBs must be disposed of following applicable legislative requirements (e.g., Canada Environmental Protection Act, the Transportation of Dangerous Goods Act and provincial legislative requirements as may be applicable).

5. STATEMENT OF LIMITATIONS

Due to the nature of building construction, and on-going building activities, some limitations exist to the thoroughness of a building assessment. The field observations, measurements and analysis are considered sufficient in detail and scope to form a reasonable basis for the findings and conclusions presented in this report. The observations, results and conclusions drawn by ECOH 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 City of Toronto. 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 Work Area is reliable. No other warranties are implied or expressed. ECOH, to the best of its knowledge, believes this report to be accurate, however, ECOH cannot guarantee the completeness or accuracy of information supplied to ECOH by third parties. It should also be noted that any investigation regarding the presence of hazardous materials in the work area is based on interpretation of conditions determined at specific sampling locations, and conditions may vary between sampling locations.

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

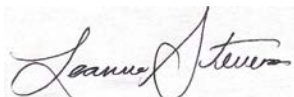
6. CLOSURE

We trust this report meets your requirements. If you have any question, please contact the undersigned at 905-795-2800.

ECOH

Environmental Consulting
Occupational Health

Prepared by:



Leanne Stevens
Environmental Technologist

Reviewed by:



Sandip Cruz, M.Env.Sc.
Senior Environmental Scientist

Reviewed by:



Steve Bizi
Senior Project Manager

APPENDIX I

Results of Bulk Sample Analysis for Asbestos & Lead



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: 552315694

Customer ID: 55ECOH45

Customer PO: 28129

Project ID:

Attention: L Stevens
ECOH Management, Inc.
75 Courtneypark Drive West
Unit 1
Mississauga, ON L5W 0E3

Project: 28129 21 Panorama ct

Phone: (905) 795-2800

Fax: (905) 795-2870

Received Date: 10/11/2023 4:03 PM

Analysis Date: 10/18/2023

Collected Date: 10/11/2023

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
28129-ASB-01 A 552315694-0001	Black Mastic under Vinyl Floor Tile 1 - 12"x12" Beige with Brown Streaks (Back Stage)	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28129-ASB-01 B 552315694-0002	Black Mastic under Vinyl Floor Tile 1 - 12"x12" Beige with Brown Streaks (Back Stage)	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28129-ASB-01 C 552315694-0003	Black Mastic under Vinyl Floor Tile 1 - 12"x12" Beige with Brown Streaks (Back Stage)	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28129-ASB-02 A 552315694-0004	Yellow Mastic under Rubber Flooring on Stairs (Back Stage)	Tan/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28129-ASB-02 B 552315694-0005	Yellow Mastic under Rubber Flooring on Stairs (Back Stage)	Tan/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28129-ASB-02 C 552315694-0006	Yellow Mastic under Rubber Flooring on Stairs (Back Stage)	Tan/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28129-ASB-03 A 552315694-0007	Brown Vinyl Baseboard Mastic (Back Stage)	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28129-ASB-03 B 552315694-0008	Brown Vinyl Baseboard Mastic (Back Stage)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28129-ASB-03 C 552315694-0009	Brown Vinyl Baseboard Mastic (Back Stage)	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28129-ASB-04 A-Block Fill 552315694-0010	Concrete Block Mortar (Back Stage)	White Non-Fibrous Homogeneous		99% Non-fibrous (Other)	1% Chrysotile
28129-ASB-04 A-Mortar 552315694-0010A	Concrete Block Mortar (Back Stage)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28129-ASB-04 B-Block Fill 552315694-0011	Concrete Block Mortar (Back Stage)				Positive Stop (Not Analyzed)
28129-ASB-04 B-Mortar 552315694-0011A	Concrete Block Mortar (Back Stage)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 10/18/2023 13:18:57



EMSL Canada Inc.

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

EMSL Canada Order: 552315694

Customer ID: 55ECOH45

Customer PO: 28129

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
28129-ASB-04 C-Block Fill	Concrete Block Mortar (Back Stage)				Positive Stop (Not Analyzed)
552315694-0012					
28129-ASB-04 C-Mortar	Concrete Block Mortar (Back Stage)	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
552315694-0012A					
28129-ASB-05 A	Expansion Joint Caulking (Back Stage)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
552315694-0013					
28129-ASB-05 B	Expansion Joint Caulking (Back Stage)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
552315694-0014					
28129-ASB-05 C	Expansion Joint Caulking (Back Stage)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
552315694-0015					
28129-ASB-06 A	Black Curtain (Back Stage)	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
552315694-0016					
28129-ASB-06 B	Black Curtain (Back Stage)	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
552315694-0017					
28129-ASB-06 C	Black Curtain (Back Stage)	Black Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
552315694-0018					
28129-ASB-07 A	Blue Curtain (Front Stage)	Blue Fibrous Homogeneous	80% Synthetic	20% Non-fibrous (Other)	None Detected
552315694-0019					
28129-ASB-07 B	Blue Curtain (Front Stage)	Blue Fibrous Homogeneous	80% Synthetic	20% Non-fibrous (Other)	None Detected
552315694-0020					
28129-ASB-07 C	Blue Curtain (Front Stage)	Blue Fibrous Homogeneous	70% Synthetic	30% Non-fibrous (Other)	None Detected
552315694-0021					
28129-ASB-08 A	Joint Compound Over Wood Panel (Front Stage)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
552315694-0022					
28129-ASB-08 B	Joint Compound Over Wood Panel (Front Stage)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
552315694-0023					
28129-ASB-08 C-Joint Compound 1	Joint Compound Over Wood Panel (Front Stage)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
552315694-0024					
28129-ASB-08 C-Joint Compound 2	Joint Compound Over Wood Panel (Front Stage)	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
552315694-0024A					
28129-ASB-09 A-Floor Tile	Vinyl Floor Tile 2 - 12"x12" Beige with Black Streaks (Storage Space under Stage)	Beige Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
552315694-0025					
28129-ASB-09 A-Mastic 1	Vinyl Floor Tile 2 - 12"x12" Beige with Black Streaks (Storage Space under Stage)	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
552315694-0025A					

Initial report from: 10/18/2023 13:18:57



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EMSL Canada Order: 552315694

Customer ID: 55ECOH45

Customer PO: 28129

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
28129-ASB-09 A-Mastic 2 552315694-0025B	Vinyl Floor Tile 2 - 12"x12" Beige with Black Streaks (Storage Space under Stage)	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28129-ASB-09 B-Floor Tile 552315694-0026	Vinyl Floor Tile 2 - 12"x12" Beige with Black Streaks (Storage Space under Stage)				Positive Stop (Not Analyzed)
28129-ASB-09 B-Mastic 552315694-0026A	Vinyl Floor Tile 2 - 12"x12" Beige with Black Streaks (Storage Space under Stage)	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28129-ASB-09 C-Floor Tile 552315694-0027	Vinyl Floor Tile 2 - 12"x12" Beige with Black Streaks (Storage Space under Stage)				Positive Stop (Not Analyzed)
28129-ASB-09 C-Mastic 552315694-0027A	Vinyl Floor Tile 2 - 12"x12" Beige with Black Streaks (Storage Space under Stage)	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

Kira Ramphal (21)

Vanessa Gallego (10)

Matthew Davis or other approved signatory
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

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

Initial report from: 10/18/2023 13:18:57



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

552315694

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

Company: ECOH		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: 75 Courtneypark Dr. W., Unit 1		<i>Third Party Billing requires written authorization from third party</i>	
City: Mississauga	State/Province: Ontario	Zip/Postal Code: L5W 0E3	Country: Canada
Report To (Name):	Leanne Stevens		Fax #: 905-795-2870
Telephone #: 519-580-8083	Email Address:		lstevens@ecoh.ca, scruz@ecoh.ca, sbizi@ecoh.ca
Project Name/Number:	28129 21 Panorama Ct		
Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email		Purchase Order:	U.S. State Samples Taken:
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hours	<input type="checkbox"/> 6 Hours	<input type="checkbox"/> 24 Hrs	<input type="checkbox"/> 48 Hrs
<input type="checkbox"/> 3 Days	<input type="checkbox"/> 4 Days	<input checked="" type="checkbox"/> 5 Days	<input type="checkbox"/> 10 Days
<small>*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.</small>			
PCM - Air <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA PLM - Bulk (reporting limit) <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input checked="" type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravometric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198-1 (friable in NY) <input type="checkbox"/> NYS 198-1 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)		TEM - Air <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 TEM - Bulk <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec 2.5 TEM - Water: EPA 100.2 Fibres > 10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fibre Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	
		TEM-Dust <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) Soil/Rock/Vermiculite <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative)	
<input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group			
Samplers Name: Leanne Stevens		Samplers Signature: LS	
Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
28129-ASB- 01 A	Black Mastic under Vinyl Floor Tile 1 - 12"x12" Beige with Brown Streaks (Back Stage)	N/A	October 11, 2023
28129-ASB- 01 B	Black Mastic under Vinyl Floor Tile 1 - 12"x12" Beige with Brown Streaks (Back Stage)	N/A	October 11, 2023
28129-ASB- 01 C	Black Mastic under Vinyl Floor Tile 1 - 12"x12" Beige with Brown Streaks (Back Stage)	N/A	October 11, 2023
28129-ASB- 02 A	Yellow Mastic under Rubber Flooring on Stairs (Back Stage)	N/A	October 11, 2023
28129-ASB- 02 B	Yellow Mastic under Rubber Flooring on Stairs (Back Stage)	N/A	October 11, 2023
28129-ASB- 02 C	Yellow Mastic under Rubber Flooring on Stairs (Back Stage)	N/A	October 11, 2023
28129-ASB- 03 A	Brown Vinyl Baseboard Mastic (Back Stage)	N/A	October 11, 2023
28129-ASB- 03 B	Brown Vinyl Baseboard Mastic (Back Stage)	N/A	October 11, 2023
28129-ASB- 03 C	Brown Vinyl Baseboard Mastic (Back Stage)	N/A	October 11, 2023
Client Sample # (s): 28129-ASB-01A - 28129-ASB-09C		Total # of Samples: 27	
Relinquished (Client): Leanne Stevens		Date: October 11, 2023	Time: 4:00pm
Received (Lab): UAB SS		Date: 10/11/2023	Time: 4:03 PM
Comments/Special Instructions: (47)		W	



Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

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 2756 SLOUGH STREET
 MISSISSAUGA, ON L4T 1G3
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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
28129-ASB- 04 A	Concrete Block Mortar (Back Stage)	N/A	October 11, 2023
28129-ASB- 04 B	Concrete Block Mortar (Back Stage)	N/A	October 11, 2023
28129-ASB- 04 C	Concrete Block Mortar (Back Stage)	N/A	October 11, 2023
28129-ASB- 05 A	Expansion Joint Caulking (Back Stage)	N/A	October 11, 2023
28129-ASB- 05 B	Expansion Joint Caulking (Back Stage)	N/A	October 11, 2023
28129-ASB- 05 C	Expansion Joint Caulking (Back Stage)	N/A	October 11, 2023
28129-ASB- 06 A	Black Curtain (Back Stage)	N/A	October 11, 2023
28129-ASB- 06 B	Black Curtain (Back Stage)	N/A	October 11, 2023
28129-ASB- 06 C	Black Curtain (Back Stage)	N/A	October 11, 2023
28129-ASB- 07 A	Blue Curtain (Front Stage)	N/A	October 11, 2023
28129-ASB- 07 B	Blue Curtain (Front Stage)	N/A	October 11, 2023
28129-ASB- 07 C	Blue Curtain (Front Stage)	N/A	October 11, 2023
28129-ASB- 08 A	Joint Compound Over Wood Panel (Front Stage)	N/A	October 11, 2023
28129-ASB- 08 B	Joint Compound Over Wood Panel (Front Stage)	N/A	October 11, 2023
28129-ASB- 08 C	Joint Compound Over Wood Panel (Front Stage)	N/A	October 11, 2023
28129-ASB- 09 A	Vinyl Floor Tile 2 - 12"x12" Beige with Black Streaks (Storage Space under Stage)	N/A	October 11, 2023
28129-ASB- 09 B	Vinyl Floor Tile 2 - 12"x12" Beige with Black Streaks (Storage Space under Stage)	N/A	October 11, 2023
28129-ASB- 09 C	Vinyl Floor Tile 2 - 12"x12" Beige with Black Streaks (Storage Space under Stage)	N/A	October 11, 2023

***Comments/Special Instructions:**

**EMSL Canada Inc.**

2756 Slough Street, Mississauga, ON L4T 1G3

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

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

EMSL Canada Or 552315693

CustomerID: 55ECOH45

CustomerPO: 28129

ProjectID:

Attn: **L Stevens**
ECOH Management, Inc.
75 Courtneypark Drive West
Unit 1
Mississauga, ON L5W 0E3

Phone: (905) 795-2800
 Fax: (905) 795-2870
 Received: 10/11/2023 04:03 PM
 Collected: 10/11/2023

Project: 28129 21 Panorama ct

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

<i>Client SampleDescription</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight</i>	<i>RDL</i>	<i>Lead Concentration</i>
28129-Pb-01 552315693-0001	10/11/2023	10/12/2023	0.2559 g	80 ppm	640 ppm
	Site: Yellow Paint on Wall (Back Stage)				
28129-Pb-03 552315693-0003	10/11/2023	10/12/2023	0.2546 g	80 ppm	1500 ppm
	Site: Blue Paint on Stairs Railing (Back Stage)				
28129-Pb-04 552315693-0004	10/11/2023	10/12/2023	0.2578 g	80 ppm	<80 ppm
	Site: Beige Paint on Folding Wall (Back Stage)				
28129-Pb-05 552315693-0005	10/11/2023	10/12/2023	0.2563 g	80 ppm	420 ppm
	Site: Dark Beige Paint on Wall (Gym)				

Rowena Fanto, Lead Supervisor
 or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

* Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Canada Inc. Mississauga, ON AIHA LAP, LLC-ELLAP Accredited #196142

Initial report from 10/18/2023 08:57:29



EMSL Canada Inc.

2756 Slough Street, Mississauga, ON L4T 1G3

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

<http://www.EMSL.com>

torontolab@emsl.com

EMSL Canada Or 552315693
CustomerID: 55ECOH45
CustomerPO: 28129
ProjectID:

Attn: **L Stevens**
ECOH Management, Inc.
75 Courtneypark Drive West
Unit 1
Mississauga, ON L5W 0E3

Phone: (905) 795-2800
Fax: (905) 795-2870
Received: 10/11/2023 04:03 PM
Collected: 10/11/2023

Project: 28129 21 Panorama ct

Test Report: Lead by Flame AAS (SW 846 3050B/7000B)*

<i>Client SampleDescription</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Weight (g)</i>	<i>RDL</i>	<i>Lead Concentration</i>
28129-Pb-02	10/11/2023	10/12/2023	0.5013 g	40 mg/Kg	<40 mg/Kg
552315693-0002	Site: Concrete Block Mortar (Back Stage)				

Rowena Fanto, Lead Supervisor
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted.

* Analysis following Lead in Soil/Solids by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 40 mg/kg based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Canada Inc. Mississauga, ON

Initial report from 10/18/2023 08:57:29



Lead (Pb) Chain of Custody
EMSL Order Number (Lab Use Only):

552315693

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

Company: ECOH		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small>	
Street: 75 Courtneypark Dr. W., Unit 1		<i>Third Party Billing requires written authorization from third party</i>	
City: Mississauga	State/Province: Ontario	Zip/Postal Code: L5W 0E3	Country: Canada
Report To (Name): Leanne Stevens		Telephone #: 905-795-2800	
Email Address: lstevens@ecoh.ca, scruz@ecoh.ca, sbizi@ecoh.ca		Fax #: 905-795-2870	Purchase Order:
Project Name/Number: 28129 21 Panorama ct		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken:		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

3 Hour
 6 Hour
 24 Hour
 48 Hour
 72 Hour
 96 Hour
 1 Week
 2 Week

*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide

Matrix	Method	Instrument	Reporting Limit	Check
Chips <input type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input checked="" type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%	<input checked="" type="checkbox"/>
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter	<input type="checkbox"/>
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter	<input type="checkbox"/>
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter	<input type="checkbox"/>
Wipe* <small>ASTM <input type="checkbox"/> non-ASTM <input type="checkbox"/> *If no box is checked, non-ASTM Wipe is assumed</small>	SW846-7000B	Flame Atomic Absorption	10 µg/wipe	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	1.0 µg/wipe	<input type="checkbox"/>
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)	<input type="checkbox"/>
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)	<input type="checkbox"/>
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)	<input type="checkbox"/>
Wastewater <small>Unpreserved <input type="checkbox"/> Preserved with HNO₃ pH <2 <input type="checkbox"/></small>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA200.7	ICP-AES	0.020 mg/L (ppm)	<input type="checkbox"/>
Drinking Water <small>Unpreserved <input type="checkbox"/> Preserved with HNO₃ pH <2 <input type="checkbox"/></small>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)	<input type="checkbox"/>
	EPA 200.8	ICP-MS	0.0031mg/L (ppm)	<input type="checkbox"/>
TSP/SPM Filter	40 CFR Part 50 (2013)	ICP-MS	1.2 µg/filter	<input type="checkbox"/>
Other:				<input type="checkbox"/>

Name of Sampler: Joey Huynh **Signature of Sampler:**

Sample #	Location	Volume/Area	Date/Time Sampled
28129-Pb- 01	Yellow Paint on Wall (Back Stage)	N/A	October 11, 2023
28129-Pb- 02	Concrete Block Mortar (Back Stage)	N/A	October 11, 2023
28129-Pb- 03	Blue Paint on Stairs Railing (Back Stage)	N/A	October 11, 2023
28129-Pb- 04	Beige Paint on Folding Wall (Back Stage)	N/A	October 11, 2023
28129-Pb- 05	Dark Beige Paint on Wall (Gym)	N/A	October 11, 2023

Client Sample # (s): 28129-Pb-01 - 28129-Pb-05 **Total # of Samples:** 5

Relinquished (Client): Leanne Stevens **Date:** October 11, 2023 **Time:** 4:00pm

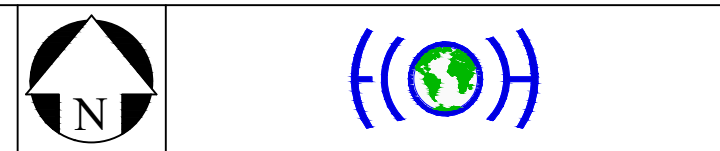
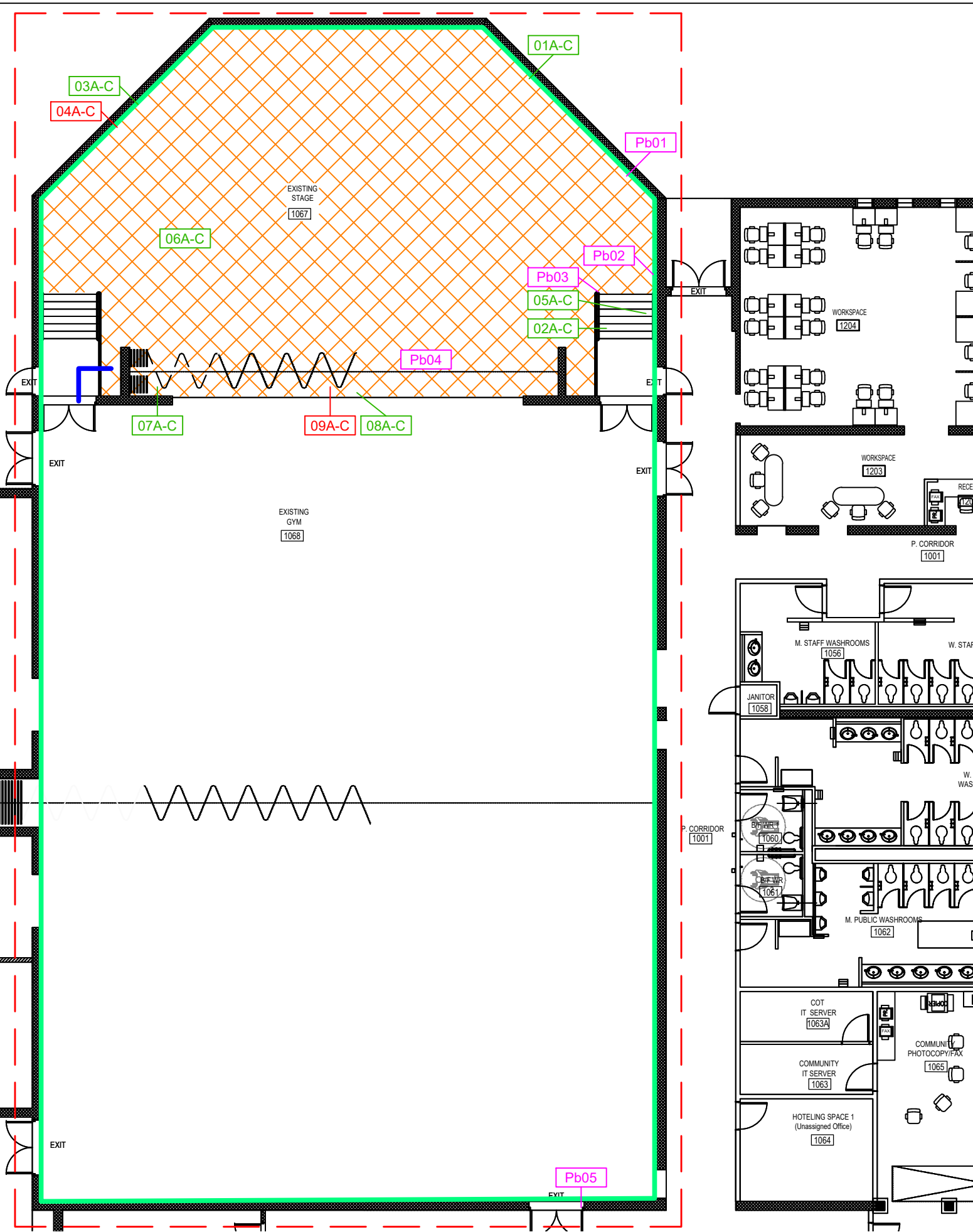
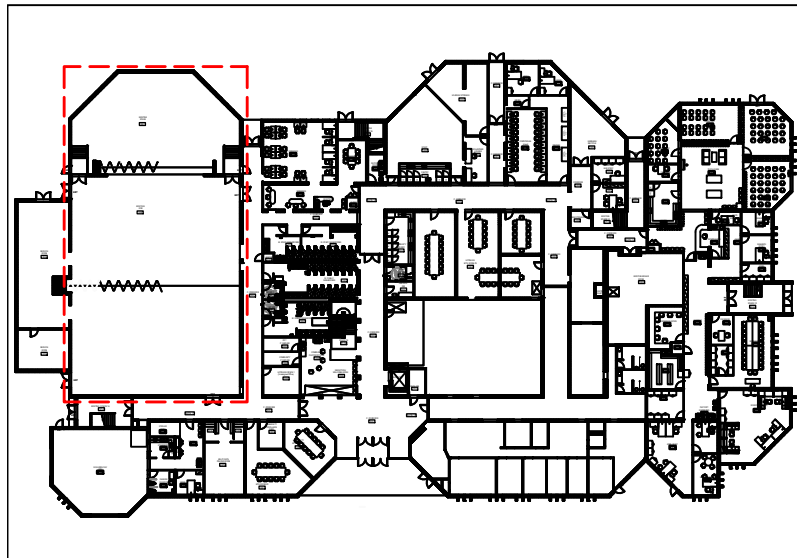
Received (Lab): *UMB SSCM* **Date:** 10/11/2023 **Time:** 4:03 PM

Comments/Special Instructions:

W

APPENDIX II

Survey Drawings (“Area of Investigation”)



Legend

- Project Area
- 01a Positive Asbestos Bulk Sample Location (28129-ASB-xx)
- 01a Negative Asbestos Bulk Sample Location (28129-ASB-xx)
- Pb01 Lead Bulk Sample Location (28129-Pb-xx)
- Asbestos-Containing Transite Pipe
- Asbestos-Containing Concrete Block Mortar
- Asbestos-Containing Vinyl Floor Tile

All information relating to room size and location is approximate and for visual aid only. ECOH does not guarantee the drawing to be complete, absolute, accurate or current. The drawing should not be used by any party in lieu of obtaining architectural drawings.

Figure 1

Gym and Stage Floor Plan

BUILDING NAME: Rexdale Community Hub		
LOCATION: 21 Panorama Court, Etobicoke, Ontario		
PROJECT: Pre-Renovation Designated Substances Survey		
CLIENT: City of Toronto		
PROJECT NUMBER: 28129	DATE: Oct. 2023	DRW BY: EM
CAD FILE: FIGS P28129 Cot 21 Panorama DSS	SCALE: Not to Scale	CHK BY: SC

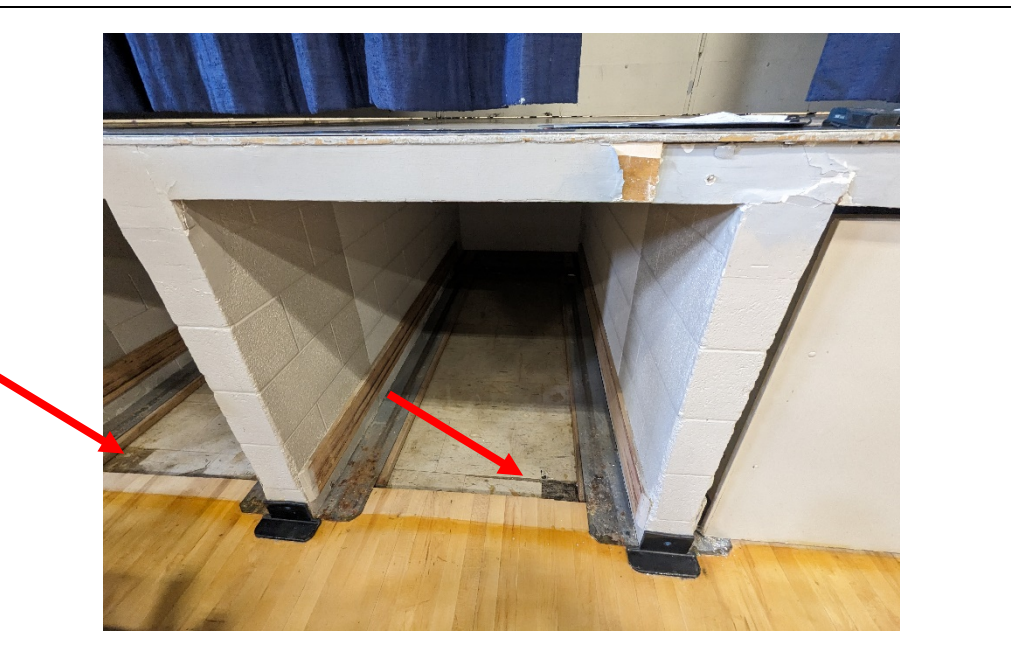
APPENDIX III

Site Photographs



Client Name: City of Toronto	Site Location: 21 Panorama Court, Etobicoke, ON	ECOH Project No.: 28129
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Photo No. 1.	
Date: October 11, 2023	
Location: Stage (Loc. 1067)	
Description: Representative photo of POOR condition Vinyl Floor Tile 1 - 12"x12" Beige with Brown Streaks, asbestos-containing 2% Chrysotile.	

Photo No. 2.	
Date: October 11, 2023	
Location: Storage Areas under Stage (Loc. 1067)	
Description: Representative photo of POOR condition Vinyl Floor Tile 2 - 12"x12" Beige with Black Streaks, asbestos-containing 2% Chrysotile.	



SITE PHOTOGRAPHS

Appendix III

Client Name: City of Toronto	Site Location: 21 Panorama Court, Etobicoke, ON	ECOH Project No.: 28129
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Photo No. 3.	
Date: October 11, 2023	
Location: Throughout Project Area	
Description: Concrete Block Fill is asbestos-containing 1% Chrysotile.	

Photo No. 4.	
Date: October 11, 2023	
Location: Stage (Loc. 1067)	
Description: Representative photo of POOR drywall joint compound bulkhead, presumed asbestos-containing.	



Client Name: City of Toronto	Site Location: 21 Panorama Court, Etobicoke, ON	ECOH Project No.: 28129
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Photo No. 5.	
Date: October 11, 2023	
Location: Stage (Loc. 1067)	
Description: Transite pipe visually confirmed to be asbestos-containing .	

Photo No. 6.	
Date: October 11, 2023	
Location: Throughout Project Area	
Description: Representative photo of concrete blocks that may have asbestos-containing (0.5-5% Actinolite) vermiculite insulation within.	



SITE PHOTOGRAPHS

Appendix III

Client Name: City of Toronto	Site Location: 21 Panorama Court, Etobicoke, ON	EOH Project No.: 28129
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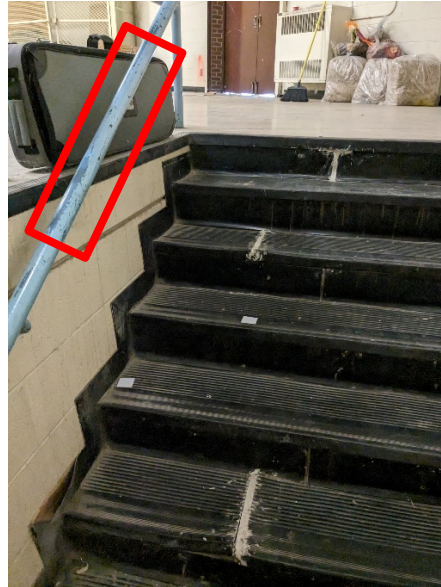
Photo No. 7.

Date: October 11, 2023

Location: Back Stage (Loc. 1067)

Description:

Blue paint on stairs railing,
lead-containing 1500 ppm.



APPENDIX IV

Hazardous Materials Inventory Sheet

APPENDIX IV - HAZARDOUS MATERIAL INVENTORY SHEET

Building Address:	21 Panorama Court, Toronto, ON	Date(s) of Current Reassessment:	October 11, 2023
Building Name:	Rexdale Community Hub	Organization Completing Reassessment:	ECOH

Summary of Findings

Location Number	Location Name	Building System	Material Observed	Potential Hazardous Material	Sample ID	Analytical Result	Quantity	Condition	Notes/Required Action
1067	Existing Stage	Floor	Vinyl Floor Tile 1	Asbestos	15170-B132-09A-C	3% Chrysotile	2665 ft²	Good	12"x12" Beige with streaks Sampled during ECOH 2014 Reassessment Survey
1067	Existing Stage	Floor	Vinyl Floor Tile 1	Asbestos	15170-B132-09A-C	3% Chrysotile	35 ft²	Poor	12"x12" Beige with streaks 35 square feet in poor condition adjacent to exit door
1067	Existing Stage	Floor	Vinyl Floor Tile 1 - Mastic	Asbestos	28129-ASB-01A-C	None Detected	N/A	N/A	Black Mastic
1067	Existing Stage	Floor	Vinyl Floor Tile 2	Asbestos	28129-ASB-09A-C	2% Chrysotile	300 ft²	Good	12"x12" Beige with Black Streaks Observed under stage storage area
1067	Existing Stage	Floor	Vinyl Floor Tile 2	Asbestos	28129-ASB-09A-C	2% Chrysotile	50 ft²	Poor	12"x12" Beige with Black Streaks 50 square feet observed in POOR condition in various locations under the stage
1067	Existing Stage	Floor	Vinyl Floor Tile 2 - Mastic	Asbestos	28129-ASB-09A-C	None Detected	N/A	N/A	Observed under stage storage area
1067	Existing Stage	Floor	Mastic - Yellow	Asbestos	28129-ASB-02A-C	None Detected	N/A	N/A	Mastic under rubber flooring on stairs (back stage)
1067	Existing Stage	Floor	Brown Vinyl Baseboard Mastic	Asbestos	28129-ASB-03A-C	None Detected	N/A	N/A	Back Stage
1067	Existing Stage	Wall	Vermiculite Insulation*	Asbestos	Not Sampled	Visually consistent with 11-1706-1,2,3 (0.5-5% Actinolite)	120 ft²	Unknown	*Potentially present Within block walls Sampled by Fisher Environmental 2011, but specific sampling location not specified
1067	Existing Stage	Wall	Concrete Block Mortar	Asbestos	28129-ASB-04A-C	None Detected	N/A	N/A	
1067	Existing Stage	Wall	Concrete Block Fill	Asbestos	28129-ASB-04A-C	1% Chrysotile	2600 ft²	Good	
1067	Existing Stage	Wall	Concrete Block Mortar	Lead	28129-Pb-02	<40 ppm (NEGATIVE - Trace concentrations only)	N/A	N/A	Back Stage
1067	Existing Stage	Wall	Expansion Joint Caulking	Asbestos	28129-ASB-05A-C	None Detected	N/A	N/A	White Caulking
1067	Existing Stage	Wall	Black Curtain	Asbestos	28129-ASB-06A-C	None Detected	N/A	N/A	
1067	Existing Stage	Wall	Blue Curtain	Asbestos	28129-ASB-07A-C	None Detected	N/A	N/A	
1067	Existing Stage	Wall	Joint Compound	Asbestos	28129-ASB-08A-C	None Detected	N/A	N/A	Joint compound over wood panels
1067	Existing Stage	Wall	Drywall Joint Compound	Asbestos	Not Sampled	Assumed	485 ft²	Good	
1067	Existing Stage	Wall	Drywall Joint Compound	Asbestos	Not Sampled	Assumed	15 ft²	Poor	Approx. 15 square feet observed in POOR condition on horizontal bulkhead above stage (beyond the reach of a standard 6-foot ladder)
1067	Existing Stage	Wall	Paint - Yellow	Lead	28129-Pb-01	640ppm (NEGATIVE - Trace concentrations only)	N/A	N/A	Back Stage

APPENDIX IV - HAZARDOUS MATERIAL INVENTORY SHEET

Location Number	Location Name	Building System	Material Observed	Potential Hazardous Material	Sample ID	Analytical Result	Quantity	Condition	Notes/Required Action
1067	Existing Stage	Wall	Paint - Blue	Lead	28129-Pb-03	1500 ppm POSITIVE	50 LF	Good	Blue paint on railings - Back Stage
1067	Existing Stage	Wall	Paint - Beige	Lead	28129-Pb-04	<80 ppm (NEGATIVE - Trace concentrations only)	N/A	N/A	Beige Paint on Folding Wall - Back Stage
1067	Existing Stage	Structure	Steel	N/A	N/A	N/A	N/A	N/A	
1067	Existing Stage	Pipe	Transite	Asbestos	Not Sampled	Visually Confirmed	60 LF	Good	Behind hatch on wall on east side of stairs
1068	Existing Gym	Floor	Hardwood	N/A	N/A	N/A	N/A	N/A	
1068	Existing Gym	Wall	Vermiculite Insulation*	Asbestos	Not Sampled	Visually consistent with 11-1706-1,2,3 (0.5-5% Actinolite)	Unknown	Unknown	*Potentially present Within block walls Sampled by Fisher Environmental 2011, but specific sampling location not specified
1068	Existing Gym	Wall	Paint - Dark Beige	Lead	28129-Pb-05	420 ppm (NEGATIVE - Trace concentrations only)	N/A	N/A	Dark beige paint of Gym walls
1068	Existing Gym	Wall	Concrete Block Mortar	Asbestos	Not Sampled	None Detected	N/A	N/A	
1068	Existing Gym	Wall	Concrete Block Fill	Asbestos	Not Sampled	Visually consistent with 28129-ASB-04 1% Chrysotile	6400 ft ²	Good	
1068	Existing Gym	Structure	Steel	N/A	N/A	N/A	N/A	N/A	
1068	Existing Gym	Pipe	Transite	Asbestos	Not Sampled	Visually Confirmed	10 LF	Good	East side of gym
<i>Surveyor's Field Notes</i>									