



Westview Elementary School

Window and Door Replacement

Designated Substance Audit Report

Project Location:

60 Rolston Drive, Hamilton, ON

Prepared for:

Hamilton-Wentworth District School Board
20 Education Court, P.O. Box 2558
Hamilton, ON L8N 3L1

Prepared by:

MTE Consultants Inc.
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February 27, 2024

MTE File No.: 54678-100





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1.0 INTRODUCTION

1.1 Authorization

MTE Consultants Inc. (MTE) was retained by Hamilton-Wentworth District School Board (the Client) to conduct a Designated Substance Audit for Westview Elementary School located at 60 Rolston Drive in Hamilton, Ontario.

The purpose of the audit was to identify the presence of Designated Substances within the building(s) in accordance with Section 30 of the Occupational Health & Safety Act (OHSA), in advance of building renovation. This report meets the requirements of Section 30 of the OHSA and the requirements of Ontario Regulation (O. Reg.) 278/05.

2.0 SCOPE OF WORK

As requested by the Client, this assessment was limited to exterior doors and associated materials, as well as windows and associated materials throughout the building. These areas are referred to in the following sections as the “Subject Areas”.

The Scope of Work for this assessment was completed by MTE and included the following activities:

- Review of existing or historical reports and documentation pertaining to Designated Substances within the building;
- Visual inspection of accessible locations within the Subject Areas to identify the following suspect Designated Substances and Hazardous Building Materials:
 - Asbestos;
 - Lead;
 - Mercury;
 - Silica;
 - Mould growth;
 - Ozone Depleting Substances; and,
 - Polychlorinated Biphenyls limited to fluorescent light ballasts/sealants.
- The following Designated Substances are not expected to be present due to the building use or in a form that is hazardous: Acrylonitrile, Arsenic, Benzene, Coke Oven Emissions, Ethylene Oxide, Isocyanates, and Vinyl Chloride;
- Collection of bulk building material samples suspected to contain asbestos;
- Collection of paint scrape samples suspected to contain lead;
- Collection of sealant samples to determine Polychlorinated Biphenyl (PCB) content;
- Submission of samples to an accredited and/or qualified laboratory;
- Interpretation of laboratory results; and,
- Preparation of this report of findings and recommendations.

3.0 METHODOLOGY AND ASSESSMENT CRITERIA

This audit was conducted using visual and laboratory identification methods for the assessment of materials outlined in Section 2.0 and their corresponding location and use. Materials that are determined to be asbestos-containing materials (ACM) are further classified by their friability

and condition. The areas outlined in Section 2.0 were inspected and limited to building components, materials and service connections. Notwithstanding that reasonable attempts were made to identify all Designated Substances, the possibility of concealed substances and material exists and may not become visible until substantial demolition has occurred and therefore are currently undocumented. All work was conducted in accordance with industry accepted methods and MTE Standard Operating Procedures and did not include the following:

- Materials indicated in this report as “Potentially Concealed”;
- Locations that may be hazardous to the surveyor (located at heights, electrical equipment, confined spaces);
- Where invasive inspection could cause consequential damage to the property or impair the integrity of the equipment, such as roof system, exterior finishes, underground services or components of mechanical equipment;
- Locations concealed by building finishes that require substantial demolition or removal for access or determination of quantities (plumbing or electrical lines);
- Non-permanent items or personal contents, furnishings; and,
- Settled dust or airborne agents unless otherwise stated.

4.0 ASSESSMENT AND RESULTS

An inspection of the building was conducted by MTE on January 11, 2024.

The proposed project is expected to disturb exterior doors and frames, and associated hardware, sealants, concrete block walls, frames and glazing as well as windows and associated materials.

A description of the building and assessed finishes is provided below. Refer to Section 4.1 for a summary of findings.

Building Element	Description
Exterior Finishes	Concrete Brick veneer and mortar Hard texture finish on overhangs Sealants
Building Structure	Structural steel Concrete Concrete block
Electrical/Plumbing Systems	Fluorescent Light tubes
Floor Finishes	Vinyl floor tiles Terrazzo
Wall Finishes	Concrete block Metal panels
Ceiling Finishes	Drywall 2' x 4' Small fissure pinhole patten ceiling tiles (1993 manufacturing date stamp) 2'x4' Pinhole pattern ceiling tiles 1' x 1' Hole pattern ceiling tiles

4.1 Findings and Analytical Results

A summary of sampling locations and analytical results are included in **Appendix A**.

Laboratory certificates of analysis are included in **Appendix B**.

Figures of inspected areas are included in **Appendix C**.

A photographic log is included in **Appendix D**.

A detailed summary of findings and recommended actions is provided in **Table 4.4 of Appendix A**.

4.1.1 Asbestos

Asbestos was used in building materials throughout the years with a peak usage in the 1950s and 1960s. While the manufacture of most ACM was banned in the 1970s, buildings constructed in the 1980s have the potential for ACM as well. In 1986, legislation limiting the use of asbestos in consumer products was introduced.

As part of this inspection, a total of 48 bulk samples of suspect ACM were submitted for asbestos analysis with a total of 43 analyses being performed. The difference between the number of samples submitted and the number of samples analysed can be a function of either the stop-positive method or the requirement of analyzing multiple layers, performed by the laboratory, from a single sample reported as additional samples or subsets of a sample.

Bulk samples were submitted to Paracel Laboratories Ltd. (Paracel), in Mississauga, Ontario for asbestos analysis. Paracel is certified under the Canadian Association of Laboratory Accreditation to perform asbestos analysis of bulk samples (accreditation number A3762). Laboratory analysis was conducted in accordance with the United States Environmental Protection Agency (USEPA), Test Method EPA/600-R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, June, 1993 by Polarized Light Microscopy (PLM) as prescribed by O. Reg. 278/05.

Based on the laboratory results, ACM was confirmed present at the time of the inspection. In addition, suspect ACM may potentially be concealed by building finishes.

4.1.2 Lead

Lead was historically used in mortar pigments, ceramic glazing; plumbing solder, electrical equipment and electronics solder, in pipe gaskets as packing in cast iron bell and spigot joints of sanitary drains, flexible plumbing connections, flashing panels, acoustical dampeners, phone cable casing and some architectural applications. In buildings constructed after 1990, these applications are no longer applicable outside of specialized uses (shielding for medical imaging etc.).

As part of this inspection, a total of 2 paint scrape samples were collected from surfaces and represent the paint colours observed throughout the Subject Areas.

Samples were submitted for laboratory analysis by ASTM D3335-85A "Standard Method to Test for Low Concentrations of Lead in Paint by Atomic Absorption Spectrophotometry" following MOE Method E3470 Inductively Coupled Plasma Optical Emission Spectrometry to Paracel Laboratories Ltd., in Hamilton, Ontario. Paracel is accredited by the Canadian Association of Laboratory Accreditation to perform bulk lead analysis of paint.

Based on the laboratory results, low level lead-containing materials were confirmed present at the time of the inspection.

4.1.3 Mercury

Mercury is typically used in building service applications such as fluorescent light tubes, compact fluorescent bulbs, metal halide (sodium halide) lamp bulbs, and neon lights as a vapour. Mercury may exist in thermostats and pipe or mechanical equipment thermometers as a liquid. Mercury is presumed to be present in the above materials.

While sources of mercury may be present, no mercury-containing materials will be impacted by the proposed work.

4.1.4 Silica

Silica is present in rock, stone, soil, and sand. Masonry products such as concrete block, brick, and mortar, as well as concrete and associated products contain silica. Due to its ubiquitous nature, silica was historically used in a wide variety of building materials and is still used today in new construction.

Building materials that are presumed to contain silica were visually identified at the time of the inspection.

4.1.5 Mould

No water damaged or mould growth impacted building materials were observed during the inspection.

4.1.6 Polychlorinated Biphenyls (PCB)

While sources of PCB's may be present in light ballasts, no PCB equipment will be impacted by the proposed work.

As part of this inspection, a total of 8 sealant samples were collected from building components which may be disturbed during the proposed project OR observed throughout the building/Subject Area. Samples were collected and submitted to Paracel for laboratory analysis under US EPA Method 8082A for PCBs. In Ontario, under Ontario Regulation 362, a PCB-containing solid is defined as any material or substance other than a PCB liquid that contains or is contaminated with PCBs at a concentration greater than 50 µg/g by weight of PCBs.

Based on the laboratory results, PCB-containing sealants were confirmed present at the time of the inspection.

4.1.7 Ozone-Depleting Substances (ODS)

ODS are chemical compounds that include chlorofluorocarbons (cfcs), hydrochlorofluorocarbons (hcfcs), halons, methyl bromide, carbon tetrachloride, hydrobromofluorocarbons, chlorobromomethane, and methyl chloroform which are widely used in cooling and refrigeration. The use of ODS is regulated under Ontario Regulation 463/10 *Ozone Depleting Substances and Other Halocarbons Made under the Environmental Protection Act*.

Building components presumed to contain ODS were identified at the time of the inspection.

4.2 Conclusions and Recommendations

A detailed summary of recommended actions is provided in **Table 4.4 of Appendix A**.

In accordance with Section 30 of OHSA and Section 8 of O. Reg. 278/05, the Owner must provide a copy of this report to all contractors doing work at the building. The Owner must also provide a copy of this report to all prospective contractors.

Should any additional suspect Designated Substances be discovered during building renovation demolition, work in the vicinity should cease and the materials should not be disturbed until proper notification, testing and abatement instructions are provided. All waste generated as a result of any and all work at the Site must be handled, transported and disposed of in accordance with Ontario Regulation 347 made under the Environmental Protection Act and local by-laws. Based on the assessment findings and analytical results, the following abatement measures are presented. It should be noted that the recommended actions are the minimum required actions, as prescribed by the appropriate Acts, regulations, guidelines, standards, codes and general best practice measures.

4.2.1 Asbestos

ACMs were identified during the assessment. If these materials, including those deemed or suspected, will be disturbed, or will likely be disturbed, during building maintenance, renovations, construction, or demolition activities, they must be handled and disposed of in accordance with the procedures prescribed by O. Reg. 278/05.

All asbestos work must be conducted by contractors who are trained in the type of asbestos operations required, and should be overseen by a qualified third party Health, Safety and Environmental professional. In order to conduct Type 3 asbestos operations, contractors must be certified as Asbestos Abatement Workers AAW (Trade code 253W) and Asbestos Abatement Supervisors AAS (Trade code 253S) by The Ministry of Training, Colleges and Universities (Ministry of Advanced Education and Skills Development) as prescribed by Section 20 of O. Reg. 278/05. Suspect or visually confirmed ACM must be deemed to be asbestos-containing and treated as if they contain a type of asbestos other than Chrysotile.

ACM may be present in concealed locations and if construction, renovation, alteration, or maintenance activities are planned, invasive inspections of concealed locations for potential ACM must be performed prior to such activities.

Should any suspect ACM be discovered during the course of construction, renovation, alteration, or maintenance activities, work which disturbs the material must cease immediately. Suspect ACM must be treated as asbestos-containing or sampled prior to disturbance to assess the presence of asbestos.

There are no requirements under current legislation to remove ACM from a building simply because it is present. However, O. Reg. 278/05 requires that an Asbestos Management Program be implemented and maintained by the owner/employer where ACM is identified or suspected present.

4.2.2 Lead

No lead-containing materials were confirmed present during the assessment, however, low level lead-containing paint is present and the following general procedures are recommended as a precautionary measure as per the Environmental Abatement Council of Canada's (EACC) *Lead Guideline for Construction, Renovation, Maintenance or Repair (October 2014)*:

- General dust control;
- The washing of hands and face at on-site facilities;
- No smoking, eating, chewing gum or drinking in the work area; and,

- No removal of painted surfaces by means of abrasive blasting.

4.2.3 Mercury

No mercury-containing materials will be impacted by the proposed project. No special requirements for management, handling and disposal by the owner, constructor, contractor, sub-contractors and workers apply.

4.2.4 Silica

Silica is presumed to be present; therefore, special requirements for management and handling are required. The contractor should also consult MOL Occupational Health and Safety Branch's Guideline: *Silica on Construction Projects* (April 2011) for the procedures and methods required to remove and dispose of silica-containing materials.

4.2.5 Mould

No water damage or suspect mould growth was observed during the assessment therefore no special management and handling requirements are warranted.

4.2.6 Polychlorinated Biphenyls (PCB)

PCB-containing sealant was identified within the Subject Areas; therefore, special management, handling and disposal requirements apply to the proposed work.

Statutory Orders and Regulations (SOR)/2008-273, the *PCB Regulations*, made under the *Canadian Environmental Protection Act*, permits the storage of up to 100 kg of solid PCB-containing waste, or 100 L of liquid PCB-containing waste, or any lesser amount up to 1 kg of PCBs without the requirement for site registration as an authorized storage facility. All waste must be stored in properly labelled containers. All PCB waste should be stored in a safe and secure location and in such a manner as to prevent the release of PCBs into the environment in case of accidental damage and/or spillage. Once these thresholds are reached, the Owner has 30 days to send the waste to an authorized PCB storage or destruction facility. It should be noted that there is no Small Quantities Exemption for PCB wastes and disposal of PCB waste must be conducted in accordance with O. Reg. 362.

4.2.7 Ozone Depleting Substances (ODS)

Building components presumed to contain ODS were identified and special requirements for management, handling and disposal by the owner, constructor, contractor, sub-contractors and workers apply.

Under current legislation, there are no requirements to remove ODSs from service simply because they are present. However, prior to commencing any work where this equipment will be dismantled, destroyed or disposed of, the refrigerant must be drained by a licensed technician and tagged with a notice indicating that the equipment no longer contains refrigerant. The appropriate notices or records shall be maintained in accordance with O. Reg. 463/10 for a minimum of two (2) years and shall include, but not be limited to, service records, transfers/releases of refrigerants, refrigerant types and refrigerant systems.

5.0 LIMITATIONS

Services performed by **MTE Consultants Inc.** (MTE) were conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the Environmental Engineering & Consulting profession. No other representation expressed or implied as to the accuracy of the information, conclusions or recommendations is included or intended in this report.

This report was completed for the sole use of MTE and the Client. It was completed in accordance with the approved Scope of Work referred to in Section 2.0. As such, this report may not deal with all issues potentially applicable to the site and may omit issues that are or may be of interest to the reader. MTE makes no representation that the present report has dealt with all-important environmental features, except as provided in the Scope of Work. All findings and conclusions presented in this report are based on site conditions, as they existed during the time period of the investigation. This report is not intended to be exhaustive in scope or to imply a risk-free facility.

Any use which a third party makes of this report, or any reliance on, or decisions to be made based upon it, are the responsibility of such third parties. MTE accepts no responsibility for liabilities incurred by or damages, if any, suffered by any third party as a result of decisions made or actions taken, based upon this report. Others with interest in the site should undertake their own investigations and studies to determine how or if the condition affects them or their plans.

It should be recognized that the passage of time might affect the views, conclusions and recommendations (if any) provided in this report because environmental conditions of a property can change. Should additional or new information become available, MTE recommends that it be brought to our attention in order that we may re-assess the contents of this report.

All of which is respectfully submitted,

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Appendix A

Tables

TABLE 4.1: BULK ASBESTOS SAMPLE SUMMARY TABLE

Sample #	Location	Material Description	Asbestos Results (% Type)	Is Material ACM
S01A	1st Level Ceiling	2'x4' Pinhole Pattern Ceiling Tile	ND	No
S01B	1st Level Ceiling	2'x4' Pinhole Pattern Ceiling Tile	ND	No
S01C	1st Level Ceiling	2'x4' Pinhole Pattern Ceiling Tile	ND	No
S02A	Room 123	1'x1' Hole Pattern Ceiling Tile	ND	No
S02B	Room 123	1'x1' Hole Pattern Ceiling Tile	ND	No
S02C	Room 123	1'x1' Hole Pattern Ceiling Tile	ND	No
S03A	Stairwell	Black Sealant	ND	No
S03B	Stairwell	Black Sealant	ND	No
S03C	Stairwell	Black Sealant	ND	No
S04A	2nd Level Windows	Light Gray Sealant	ND	No
S04B	2nd Level Windows	Light Gray Sealant	ND	No
S04C	2nd Level Windows	Light Gray Sealant	ND	No
S05A	Room 123 Ceiling	Drywall Joint Compound	1% Chrysotile	Yes
S05B	Room 123 Ceiling	Drywall Joint Compound	1% Chrysotile	Yes
S05C	Room 123 Ceiling	Drywall Joint Compound	1% Chrysotile	Yes
S06A	Room 123	12"x12" Gray Fleck Vinyl Floor Tile	ND	No
		Black Mastic	1% Chrysotile	Yes
S06B	Room 123	12"x12" Gray Fleck Vinyl Floor Tile	ND	No
		Black Mastic	1% Chrysotile	Yes
S06C	Room 123	12"x12" Gray Fleck Vinyl Floor Tile	ND	No
		Black Mastic	1% Chrysotile	Yes
S07A	Room 123	Black Sealant	1% Chrysotile	Yes
S07B	Room 123	Black Sealant	1% Chrysotile	Yes
S07C	Room 123	Black Sealant	1% Chrysotile	Yes
S08A	Interior Walls	Concrete Block Mortar	ND	No
S08B	Interior Walls	Concrete Block Mortar	ND	No
S08C	Interior Walls	Concrete Block Mortar	ND	No
S09A	Ceiling Cavity	Fireproofing	10% Chrysotile	Yes
S09B	Ceiling Cavity	Fireproofing	10% Chrysotile	Yes
S09C	Ceiling Cavity	Fireproofing	10% Chrysotile	Yes
S10A	1st Level Windows	Light Gray Sealant	ND	No
S10B	1st Level Windows	Light Gray Sealant	ND	No
S10C	1st Level Windows	Light Gray Sealant	ND	No
S11A	Exterior Windows	Black Glazing	ND	No
S11B	Exterior Windows	Black Glazing	ND	No
S11C	Exterior Windows	Black Glazing	ND	No
S12A	Exterior Door	Gray Sealant	ND	No
S12B	Exterior Door	Gray Sealant	ND	No
S12C	Exterior Door	Gray Sealant	ND	No
S13A	Exterior Overhang	Hard Texture Coat	ND	No
S13B	Exterior Overhang	Hard Texture Coat	ND	No
S13C	Exterior Overhang	Hard Texture Coat	ND	No
S14A	Exterior	Brick Mortar	ND	No
S14B	Exterior	Brick Mortar	ND	No
S14C	Exterior	Brick Mortar	ND	No
S15A	Exterior Windows	Gray Sealant	ND	No
S15B	Exterior Windows	Gray Sealant	ND	No
S15C	Exterior Windows	Gray Sealant	ND	No
S16A	Exterior Door	Cracked Gray Sealant	ND	No
S16B	Exterior Door	Cracked Gray Sealant	ND	No
S16C	Exterior Door	Cracked Gray Sealant	ND	No

NA: Not Analyzed due to stop positive method ND: No asbestos fibres detected above the laboratory minimum detection limit

A bulk material sample containing 0.5% or more asbestos therefore establishes that material as asbestos-containing. In accordance with Table 1 of O. Reg. 278/05, a minimum number of samples for the material to be classified as non asbestos. A homogeneous material is defined by O. Reg. 278/05 "as material that is uniform in colour and texture". Homogeneous samples are identified by an alphabetical suffix to sample names to represent multiple samples of a homogeneous material. When a homogeneous material is analysed it is determined to be asbestos-containing upon the first positive detection of asbestos equal to or greater than 0.5%. Subsequent samples of the same material are therefore not analysed. Some bulk samples are comprised of multiple layers and as such will require multiple analysis. In such cases each layer is isolated at the laboratory and analysed individually to determine asbestos content. As a result the laboratory may report additional samples beyond the submitted number of samples or include multiple analyses as subsets within a sample.

TABLE 4.2: LEAD IN PAINT SAMPLE SUMMARY TABLE

Sample #	Location	Material	Lead Content (ug/g)	Classification
LP1	Exterior	Blue Paint	570	Low Level Lead-Containing
LP2	Interior Walls/Frames	Beige Paint	626	Low Level Lead-Containing
<p>"<": The samples analysed reported concentrations of lead to be less than 1000 ug/g and are therefore classified as low level lead-containing. However, no lead concentrations were reported above the sample specific laboratory detection limit.</p>				
<p>As outlined in EACO's Lead Guideline for Construction, Renovation, Maintenance or Repair (October 2014), for the purpose of classifying surface coatings and mortars by laboratory analysis, any material containing lead at a concentration:</p> <ul style="list-style-type: none"> • Greater than 0.5% by weight (5,000 µg/g, mg/kg, ppm) is considered lead-based; • Between 0.1 % and 0.5% by weight (1,000 to 5,000 µg/g, mg/kg, ppm) is considered lead-containing; or • Less than 0.1% (1,000 µg/g, mg/kg, ppm) is considered low level lead-containing. 				

TABLE 4.3: BULK PCB SAMPLE SUMMARY TABLE

Sample #	Location	Material Description	PCB Content (ug/g)	Classification
PCB1	Exterior Doors	Cracked Gray Sealant	<5	Non PCB-Containing
PCB2	Exterior Windows	Gray Sealant	<5	Non PCB-Containing
PCB3	Exterior Doors	Gray Sealant	200	PCB-Containing
PCB4	Exterior Windows	Black Glazing	<5	Non PCB-Containing
PCB5	Interior Windows 1st Level	Light Gray Sealant	<5	Non PCB-Containing
PCB6	Interior Side of Exterior Door Room 123	Black Sealant	<5	Non PCB-Containing
PCB7	Interior Windows 2nd Level	Light Gray Sealant	<5	Non PCB-Containing
PCB8	Stairwell Windows	Black Sealant	<5	Non PCB-Containing

As outlined in the Statutory Orders and Regulations (SOR)/2008-273, the PCB Regulations, made under the Canadian Environmental Protection Act, 1999, any material containing PCB at a concentration:

- Greater than 50 µg/g is considered PCB-Containing

Table 4.4 - Summary of Designated Substances and Recommended Actions

Westview Elementary School, 60 Rolston Drive, Hamilton, ON

Material	Location(s)	Material Description	Management Requirements If No Impacts to Material	Recommended Actions If Material Will Be Or Likely Be Impacted By Maintenance, Renovation, Construction or Demolition Activities
Potential Friable Asbestos Debris	Above Ceiling Tiles Throughout	Debris from Spray on Fireproofing May be Present Lying on Surface Above Ceiling Tiles	In place management in accordance with O. Reg. 278/05	Removal of ceiling tiles in accordance with O. Reg. 278/05 Removing all or part of a false ceiling to obtain access to a work area, if asbestos-containing material is likely to be lying on the surfaces of the false ceiling as a Type 2 Operation
Asbestos Friable	Throughout Building in Ceiling Cavities	Spray on Fire Proofing	In place management in accordance with O. Reg. 278/05	Removal in accordance with O. Reg. 278/05 < 1m ² as a Type 2 Operation and for > 1m ² as a Type 3 Operation
Asbestos Non-Friable	Classroom 123	Black Mastic Associated with 12"x12" Gray Fleck Pattern Vinyl Floor Tile	In place management in accordance with O. Reg. 278/05	Removal in accordance with O. Reg. 278/05 as a Type 1 Operation

Table 4.4 - Summary of Designated Substances and Recommended Actions

Westview Elementary School, 60 Rolston Drive, Hamilton, ON

Material	Location(s)	Material Description	Management Requirements If No Impacts to Material	Recommended Actions If Material Will Be Or Likely Be Impacted By Maintenance, Renovation, Construction or Demolition Activities
Asbestos Non-Friable	Classroom 123 - Interior Side of Exterior Door	Black Sealant	In place management in accordance with O. Reg. 278/05	Removal in accordance with O. Reg. 278/05 as a Type 1 Operation
Asbestos Non-Friable	Classroom 123 Ceiling	Drywall	In place management in accordance with O. Reg. 278/05	Removal in accordance with O. Reg. 278/05 < 1m ² as a Type 1 Operation and for > 1m ² as a Type 2 Operation - Hand tools only in conjunction with dust suppression
Potentially Concealed Asbestos	Fire Rated Doors Throughout Building	Door Core Insulation	In place management in accordance with O. Reg. 278/05	Invasive inspection prior to maintenance/renovations/construction/demolition activities, if present and sampling confirms as ACM, removal in accordance with O. Reg. 278/05
Potentially Concealed Asbestos	Wall Cavities	Vermiculite Loose-Fill Insulation	In place management in accordance with O. Reg. 278/05	Invasive inspection prior to maintenance/renovations/construction/demolition activities, if present and sampling confirms as ACM, removal in accordance with O. Reg. 278/05
Potentially Concealed Asbestos	Concealed by 1"x1" Ceiling Tiles	Mastic	In place management in accordance with O. Reg. 278/05	Invasive inspection prior to maintenance/renovations/construction/demolition activities, if present and sampling confirms as ACM, removal in accordance with O. Reg. 278/05

Table 4.4 - Summary of Designated Substances and Recommended Actions

Westview Elementary School, 60 Rolston Drive, Hamilton, ON

Material	Location(s)	Material Description	Management Requirements If No Impacts to Material	Recommended Actions If Material Will Be Or Likely Be Impacted By Maintenance, Renovation, Construction or Demolition Activities
Low Level Lead-Containing Paint	Exterior	Blue Paint	None	General hygiene procedures during renovation activities: <ul style="list-style-type: none"> • General dust control, • Washing of hands and face at on-site facilities, • No smoking, eating, chewing gum or drinking in the work area, • No abrasive blasting.
	Interior Walls	Beige Paint		
Silica	Throughout Interior and Exterior of Building	Brick and Mortar, Terrazzo, Concrete, Fill and Hardscaping	None	Conduct any work during renovation, demolition activities in accordance with the Ministry of Labour Guideline Silica on Construction Projects
PCBs	Exterior Doors	Exterior Gray Sealant on Door Frames	In place management in accordance with (SOR)/2008-273	Implement worker hygiene program to control worker exposure, limited to gloves for removal of PCB materials in good condition. If material is cracking and damaged, respiratory protection is also recommended (Air purifying half-mask respirator with N-100, R-100 or P-100 particulate filter) as a precaution. Management and storage in accordance with (SOR)/2008-273 and/or disposal in accordance with O. Reg. 362
ODS	2nd Level Classrooms	Window Mounted Air Conditioning Unit(s)	None	Prior to the removal and disposal of equipment suspected of containing ODS, a licensed technician should be retained to drain and tag the equipment in a manner authorized under O. Reg. 463/10

Table 4.4 - Summary of Designated Substances and Recommended Actions

Westview Elementary School, 60 Rolston Drive, Hamilton, ON

Material	Location(s)	Material Description	Management Requirements If No Impacts to Material	Recommended Actions If Material Will Be Or Likely Be Impacted By Maintenance, Renovation, Construction or Demolition Activities
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Notes:

- 1) A copy of this report should be provided to all prospective contractors prior to quotation, in accordance with Section 30 of the Occupational Health and Safety Act.
- 2) Recommended actions are the minimum required actions, as prescribed by the appropriate Acts, regulations, guidelines, standards, codes and general best practice measures. Prior to demolition, the Contractor may choose to alter the approach and combine or break out sections of work. This is acceptable provided that the appropriate Acts, regulations, guidelines, standards and codes are followed and afford protection for the health and safety of workers, occupants and the public that is at least equal to the protection that would be provided by complying with the minimum requirements.
- 3) All waste generated is subject to characterization and disposal in accordance with Ontario Regulation 347.

Appendix B

Laboratory Certificates of Analysis

Certificate of Analysis

MTE Consultants Inc. (Burlington)

1016 Sutton Drive, Unit A
Burlington, ON L7L 6B8
Attn: Gavin Oakes

Client PO:
Project: 54678-100
Custody:

Report Date: 19-Jan-2024
Order Date: 15-Jan-2024

Order #: 2403039

This Certificate of Analysis contains analytical data applicable to the following samples as submitted :

Parcel ID	Client ID
2403039-01	S01A
2403039-02	S01B
2403039-03	S01C
2403039-04	S02A
2403039-05	S02B
2403039-06	S02C
2403039-07	S03A
2403039-08	S03B
2403039-09	S03C
2403039-10	S04A
2403039-11	S04B
2403039-12	S04C
2403039-13	S05A
2403039-14	S05B
2403039-15	S05C
2403039-16	S06A
2403039-17	S06A
2403039-18	S06B
2403039-19	S06B
2403039-20	S06C
2403039-21	S06C
2403039-22	S07A
2403039-23	S07B
2403039-24	S07C
2403039-25.1	S08A
2403039-25.2	S08A

Approved By:



Emma Diaz
Senior Analyst

Any use of these results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that our employees or agents shall not under any circumstances be liable to you in connection with this work.

Certificate of Analysis

Client: MTE Consultants Inc. (Burlington)

Client PO:

Report Date: 19-Jan-2024

Order Date: 15-Jan-2024

Project Description: 54678-100

2403039-26.1	S08B
2403039-26.2	S08B
2403039-27.1	S08C
2403039-27.2	S08C
2403039-28	S09A
2403039-29	S09B
2403039-30	S09C
2403039-31	S10A
2403039-32	S10B
2403039-33	S10C
2403039-34	S11A
2403039-35	S11B
2403039-36	S11C
2403039-37	S12A
2403039-38	S12B
2403039-39	S12C
2403039-40	S13A
2403039-41	S13B
2403039-42	S13C
2403039-43	S14A
2403039-44	S14B
2403039-45	S14C
2403039-46	S15A
2403039-47	S15B
2403039-48	S15C
2403039-49	S16A
2403039-50	S16B
2403039-51	S16C

Certificate of Analysis
 Client: MTE Consultants Inc. (Burlington)
 Client PO:

Report Date: 19-Jan-2024
 Order Date: 15-Jan-2024
 Project Description: 54678-100

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2403039-01	11-Jan-24	Grey	Ceiling Tile	No	Client ID: S01A	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
2403039-02	11-Jan-24	Grey	Ceiling Tile	No	Client ID: S01B	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
2403039-03	11-Jan-24	Grey	Ceiling Tile	No	Client ID: S01C	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
2403039-04	11-Jan-24	Grey	Ceiling Tile	No	Client ID: S02A	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
2403039-05	11-Jan-24	Grey	Ceiling Tile	No	Client ID: S02B	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
2403039-06	11-Jan-24	Grey	Ceiling Tile	No	Client ID: S02C	
					Cellulose	40
					MMVF	30
					Non-Fibers	30
2403039-07	11-Jan-24	Black	Sealant	No	Client ID: S03A	
					Non-Fibers	100
2403039-08	11-Jan-24	Black	Sealant	No	Client ID: S03B	
					Non-Fibers	100

Certificate of Analysis
 Client: MTE Consultants Inc. (Burlington)
 Client PO:

Report Date: 19-Jan-2024
 Order Date: 15-Jan-2024
 Project Description: 54678-100

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2403039-09	11-Jan-24	Black	Sealant	No	Client ID: S03C Non-Fibers	100
2403039-10	11-Jan-24	Grey	Sealant	No	Client ID: S04A Non-Fibers	100
2403039-11	11-Jan-24	Grey	Sealant	No	Client ID: S04B Non-Fibers	100
2403039-12	11-Jan-24	Grey	Sealant	No	Client ID: S04C Non-Fibers	100
2403039-13	11-Jan-24	Beige	Drywall Joint Compound	Yes	Client ID: S05A Chrysotile Non-Fibers	1 99
2403039-14	11-Jan-24	Beige	Drywall Joint Compound	Yes	Client ID: S05B Chrysotile Non-Fibers	1 99
2403039-15	11-Jan-24	Beige	Drywall Joint Compound	Yes	Client ID: S05C Chrysotile Non-Fibers	1 99
2403039-16	11-Jan-24	Grey	Vinyl Floor Tile	No	Client ID: S06A Non-Fibers	100
2403039-17	11-Jan-24	Black	Mastic	Yes	Client ID: S06A Chrysotile Non-Fibers	1 99
2403039-18	11-Jan-24	Grey	Vinyl Floor Tile	No	Client ID: S06B Non-Fibers	100

Certificate of Analysis
 Client: MTE Consultants Inc. (Burlington)
 Client PO:

Report Date: 19-Jan-2024
 Order Date: 15-Jan-2024
 Project Description: 54678-100

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2403039-19	11-Jan-24	Black	Mastic	Yes	Client ID: S06B	
					Chrysotile	1
					Non-Fibers	99
2403039-20	11-Jan-24	Grey	Vinyl Floor Tile	No	Client ID: S06C	
					Non-Fibers	100
2403039-21	11-Jan-24	Black	Mastic	Yes	Client ID: S06C	
					Chrysotile	1
					Non-Fibers	99
2403039-22	11-Jan-24	Black	Sealant	Yes	Client ID: S07A	
					Chrysotile	1
					Non-Fibers	99
2403039-23	11-Jan-24	Black	Sealant	Yes	Client ID: S07B	
					Chrysotile	1
					Non-Fibers	99
2403039-24	11-Jan-24	Black	Sealant	Yes	Client ID: S07C	
					Chrysotile	1
					Non-Fibers	99
2403039-25.1	11-Jan-24	White	Mortar	No	Client ID: S08A	
					Non-Fibers	100
2403039-25.2	11-Jan-24	Grey	Mortar	No	Client ID: S08A	
					Non-Fibers	100
2403039-26.1	11-Jan-24	White	Mortar	No	Client ID: S08B	
					Non-Fibers	100
2403039-26.2	11-Jan-24	Grey	Mortar	No	Client ID: S08B	
					Non-Fibers	100

Certificate of Analysis
Client: MTE Consultants Inc. (Burlington)
Client PO:

Report Date: 19-Jan-2024
Order Date: 15-Jan-2024
Project Description: 54678-100

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2403039-27.1	11-Jan-24	White	Mortar	No	Client ID: S08C	
					Non-Fibers	100
2403039-27.2	11-Jan-24	Grey	Mortar	No	Client ID: S08C	
					Non-Fibers	100
2403039-28	11-Jan-24	Grey	Fireproofing	Yes	Client ID: S09A	
						[Z-01]
					Chrysotile	10
					Non-Fibers	90
2403039-29	11-Jan-24	Grey	Fireproofing	Yes	Client ID: S09B	
						[Z-01]
					Chrysotile	10
					Non-Fibers	90
2403039-30	11-Jan-24	Grey	Fireproofing	Yes	Client ID: S09C	
						[Z-01]
					Chrysotile	10
					Non-Fibers	90
2403039-31	11-Jan-24	Grey	Sealant	No	Client ID: S10A	
					Non-Fibers	100
2403039-32	11-Jan-24	Grey	Sealant	No	Client ID: S10B	
					Non-Fibers	100
2403039-33	11-Jan-24	Grey	Sealant	No	Client ID: S10C	
					Non-Fibers	100
2403039-34	11-Jan-24	Black	Sealant	No	Client ID: S11A	
					Non-Fibers	100
2403039-35	11-Jan-24	Black	Sealant	No	Client ID: S11B	
					Non-Fibers	100
2403039-36	11-Jan-24	Black	Sealant	No	Client ID: S11C	
					Non-Fibers	100

Certificate of Analysis
 Client: MTE Consultants Inc. (Burlington)
 Client PO:

Report Date: 19-Jan-2024
 Order Date: 15-Jan-2024
 Project Description: 54678-100

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2403039-37	11-Jan-24	Beige	Sealant	No	Client ID: S12A Non-Fibers	100
2403039-38	11-Jan-24	Beige	Sealant	No	Client ID: S12B Non-Fibers	100
2403039-39	11-Jan-24	Beige	Sealant	No	Client ID: S12C Non-Fibers	100
2403039-40	11-Jan-24	White	Texture Coat	No	Client ID: S13A Non-Fibers	100
2403039-41	11-Jan-24	White	Texture Coat	No	Client ID: S13B Non-Fibers	100
2403039-42	11-Jan-24	White	Texture Coat	No	Client ID: S13C Non-Fibers	100
2403039-43	11-Jan-24	Grey	Mortar	No	Client ID: S14A Non-Fibers	100
2403039-44	11-Jan-24	Grey	Mortar	No	Client ID: S14B Non-Fibers	100
2403039-45	11-Jan-24	Grey	Mortar	No	Client ID: S14C Non-Fibers	100
2403039-46	11-Jan-24	Beige	Sealant	No	Client ID: S15A Non-Fibers	100
2403039-47	11-Jan-24	Beige	Sealant	No	Client ID: S15B Non-Fibers	100
2403039-48	11-Jan-24	Beige	Sealant	No	Client ID: S15C Non-Fibers	100

Certificate of Analysis
 Client: MTE Consultants Inc. (Burlington)
 Client PO:

Report Date: 19-Jan-2024
 Order Date: 15-Jan-2024
 Project Description: 54678-100

Asbestos, PLM Visual Estimation **MDL - 0.5%**

Parcel ID	Sample Date	Colour	Description	Asbestos Detected	Material Identification	% Content
2403039-49	11-Jan-24	Beige	Sealant	No	Client ID: S16A Non-Fibers	100
2403039-50	11-Jan-24	Beige	Sealant	No	Client ID: S16B Non-Fibers	100
2403039-51	11-Jan-24	Beige	Sealant	No	Client ID: S16C Non-Fibers	100

* MMVF: Man Made Vitreous Fibers: Fiberglass, Mineral Wool, Rockwool, Glasswool

** Analytes in bold indicate asbestos mineral content.

Analysis Summary Table

Analysis	Method Reference/Description	Lab Location	Lab Accreditation	Analysis Date
Asbestos, PLM Visual Estimation	AppE to SubE of 40CFR Part763 and EPA/600/R-93/116	1 - Mississauga	CALA 3762	19-Jan-24

Mississauga Lab: 15 - 6800 Kitimat Rd Mississauga, Ontario, L5N 5M1

Qualifier Notes

Sample Qualifiers :

Z-01: Sample contains vermiculite.

Work Order Revisions | Comments

None



Client Name: MTE Consultants Inc.	Project Reference: 54678-100
Contact Name: Gavin Oakes	Quote #:
Address: 1016 Sutton Drive, Burlington	PO #:
	Email Address: mchown@mte85.com
Telephone: 905 639 2552	goakes@mte85.com

Turnaround Time:

Immediate 1 Day
 4 Hour 2 Day
 8 Hour 3 Day
 Regular

Date Required: _____

ASBESTOS & MOLD ANALYSIS

Matrix: Air Bulk Tape Lift Swab Other Regulatory Guideline: ON QC AB SK Other:

Analyses: Microscopic Mold Culturable Mold Bacteria GRAM PCM Asbestos PLM Asbestos Chatfield Asbestos TEM Asbestos

Sample ID	Sampling Date	Air Volume (L)	Analysis Required	Asbestos - Bulk	
				Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) *	Positive Stop?
1 S01A-C	01/11		PLM	Ceiling tile	<input type="checkbox"/>
2 S02A-C				Ceiling tile	<input type="checkbox"/>
3 S03A-C				Sealant	<input type="checkbox"/>
4 S04A-C				Sealant	<input type="checkbox"/>
5 S05A-C				drywall joint compound	<input type="checkbox"/>
6 S06A-C				wall floor tile - mastic	<input type="checkbox"/>
7 S07A-C				Sealant	<input type="checkbox"/>
8 S08A-C				mortar	<input type="checkbox"/>
9 S09A-C				fire protection	<input type="checkbox"/>
10 S10A-C				Sealant	<input type="checkbox"/>
11 S11A-C				Sealant	<input type="checkbox"/>
12 S12A-C				Sealant	<input type="checkbox"/>

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

Comments: _____ Method of Delivery: Paracel

Relinquished By (Sign):	Received at Depot:	Received at Lab:	Verified By:
Relinquished By (Print): M. Marchan	Date/Time: 01/12/24	Date/Time: Jan 15/24	Date/Time: Jan 15/24



Chain of Custody
(Lab Use Only)

Page 2 of 2

Client Name: MTE Consultants Inc.	Project Reference: 54678-100
Contact Name: Gavin Oakes	Quote #:
Address: 1016 Sutton Drive, Burlington	PO #:
	Email Address: mchown@mte85.com
Telephone: 905 639 2552	goakes@mte85.com

Turnaround Time:

Immediate 1 Day
 4 Hour 2 Day
 8 Hour 3 Day
 Regular

Date Required: _____

ASBESTOS & MOLD ANALYSIS

Matrix: Air Bulk Tape Lift Swab Other Regulatory Guideline: ON QC AB SK Other:

Analyses: Microscopic Mold Culturable Mold Bacteria GRAM PCM Asbestos PLM Asbestos Chatfield Asbestos TEM Asbestos

Parcel Order Number: 2403039		Asbestos - Bulk				
Sample ID	Sampling Date	Air Volume (L)	Analysis Required	Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) *	Positive Stop?	
1	01/11	1	PLM	Leather coat	<input checked="" type="checkbox"/>	
2	1	1	1	Insulator	<input checked="" type="checkbox"/>	
3	1	1	1	Sealant	<input checked="" type="checkbox"/>	
4	1	1	1	Sealant	<input checked="" type="checkbox"/>	
5					<input type="checkbox"/>	
6					<input type="checkbox"/>	
7					<input type="checkbox"/>	
8					<input type="checkbox"/>	
9					<input type="checkbox"/>	
10					<input type="checkbox"/>	
11					<input type="checkbox"/>	
12					<input type="checkbox"/>	

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

Comments: _____ Method of Delivery: *Parcel*

Relinquished By (Sign): <i>[Signature]</i>	Received at Depot:	Received at Lab: <i>[Signature]</i>	Verified By: <i>[Signature]</i>
Relinquished By (Print): <i>Melanie Chan</i>	Date/Time: <i>01/12/24</i>	Date/Time: <i>Jan 17 24</i>	Date/Time: <i>Jan 15 24</i>

Certificate of Analysis

MTE Consultants Inc. (Burlington)

1016 Sutton Drive, Unit A
Burlington, ON L7L 6B8
Attn: Gavin Oakes

Client PO:
Project: 54678-100
Custody:

Report Date: 18-Jan-2024
Order Date: 15-Jan-2024

Order #: 2403048

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Parcel ID	Client ID
2403048-01	LP1 - Blue
2403048-02	LP2 - Beige

Approved By:



Milan Ralitsch, PhD
Senior Technical Manager

Any use of these results implies your agreement that our total liability in connection with this work, however arising shall be limited to the amount paid by you for this work, and that our employees or agents shall not under circumstances be liable to you in connection with this work

Certificate of Analysis

Report Date: 18-Jan-2024

Client: MTE Consultants Inc. (Burlington)

Order Date: 15-Jan-2024

Client PO:

Project Description: 54678-100

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Metals, ICP-MS	EPA 6020 - Digestion - ICP-MS	17-Jan-24	18-Jan-24

Qualifier Notes:

None

Sample Data Revisions

None

Work Order Revisions/Comments:

None

Other Report Notes:

- n/a: not applicable
- ND: Not Detected
- MDL: Method Detection Limit
- Source Result: Data used as source for matrix and duplicate samples
- %REC: Percent recovery.
- RPD: Relative percent difference.

Certificate of Analysis
 Client: MTE Consultants Inc. (Burlington)
 Client PO:

Report Date: 18-Jan-2024
 Order Date: 15-Jan-2024
 Project Description: 54678-100

Sample Results

Lead					Matrix: Paint	
Parcel ID	Client ID	Sample Date	Units	MDL	Result	
2403048-01	LP1 - Blue	11-Jan-24	ug/g	5	570	
2403048-02	LP2 - Beige	11-Jan-24	ug/g	5	626	

Laboratory Internal QA/QC

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Matrix Blank									
Lead	ND	5	ug/g						
Matrix Duplicate									
Lead	566	5	ug/g	570			0.76	50	
Matrix Spike									
Lead	71.1	5.00	ug/g	22.8	96.5	70-130			



TRUSTED.
RESPONSIVE.
RELIABLE.

Parcel ID: 2403048



Client Name: MTE Consultants Inc.	Project Reference: 54678-100	Page 1 of 1
Contact Name: Gavin Oakes	Quote #	Turnaround Time: <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input checked="" type="checkbox"/> Regular
Address: 1016 Sutton Drive, Burlington	PO #	
Telephone: 905 639 2552	Email Address: mchown@mte85.com goakes@mte85.com	Date Required:

Criteria: O. Reg. 153/04 (As Amended) Table ___ RSC Filing O. Reg. 558/00 PWQO CCME SUB (Storm) SUB (Sanitary) Municipality: _____ Other: _____

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken		Required Analyses														
				Date	Time	PHCS F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWS)	Lead							
1 101 - Blue	P	1	1	01/11	7:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2 102 - Beige	P	1	1	01/11	7:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:

Relinquished By (Sign):	Received by Driver/Depot:	Received at Lab: Km	Verified By: C-Pky
Relinquished By (Print): Melani Chown	Date/Time:	Date/Time: 1/15/24 12:55	Date/Time: 01/15/24 13:13
Date/Time: 01/15/24	Temperature: _____ °C	Temperature: _____ °C	pH Verified [] By: _____

Certificate of Analysis

MTE Consultants Inc. (Burlington)

1016 Sutton Drive, Unit A
Burlington, ON L7L 6B8
Attn: Gavin Oakes

Client PO:
Project: 54678-100
Custody:

Report Date: 18-Jan-2024
Order Date: 15-Jan-2024

Order #: 2403084

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Parcel ID	Client ID
2403084-01	PCB1
2403084-02	PCB2
2403084-03	PCB3
2403084-04	PCB4
2403084-05	PCB5
2403084-06	PCB6
2403084-07	PCB7
2403084-08	PCB8

Approved By:



Dale Robertson, BSc

Laboratory Director

Certificate of Analysis

Report Date: 18-Jan-2024

Client: **MTE Consultants Inc. (Burlington)**

Order Date: 15-Jan-2024

Client PO:

Project Description: 54678-100

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
PCBs, total	SW846 8082A - GC-ECD	16-Jan-24	17-Jan-24

Certificate of Analysis

Report Date: 18-Jan-2024

Client: MTE Consultants Inc. (Burlington)

Order Date: 15-Jan-2024

Client PO:

Project Description: 54678-100

Client ID:	PCB1	PCB2	PCB3	PCB4		
Sample Date:	11-Jan-24 07:00	11-Jan-24 07:00	11-Jan-24 07:00	11-Jan-24 07:00	-	-
Sample ID:	2403084-01	2403084-02	2403084-03	2403084-04		
Matrix:	Other	Other	Other	Other		
MDL/Units						

PCBs

PCBs, total	5 ug/g	<5	<5	200	<5	-	-
Decachlorobiphenyl	Surrogate	87%	89%	93%	110%	-	-

Certificate of Analysis

Report Date: 18-Jan-2024

Client: MTE Consultants Inc. (Burlington)

Order Date: 15-Jan-2024

Client PO:

Project Description: 54678-100

Client ID:	PCB5	PCB6	PCB7	PCB8		
Sample Date:	11-Jan-24 07:00	11-Jan-24 07:00	11-Jan-24 07:00	11-Jan-24 07:00	-	-
Sample ID:	2403084-05	2403084-06	2403084-07	2403084-08		
Matrix:	Other	Other	Other	Other		
MDL/Units						

PCBs

PCBs, total	5 ug/g	<5	<5	<5	<5	-	-
Decachlorobiphenyl	Surrogate	109%	123%	113%	130%	-	-

Certificate of Analysis

Report Date: 18-Jan-2024

Client: MTE Consultants Inc. (Burlington)

Order Date: 15-Jan-2024

Client PO:

Project Description: 54678-100

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
PCBs								
PCBs, total	ND	5	ug/g					
Surrogate: Decachlorobiphenyl	6.27		%	125	60-140			

Certificate of Analysis

Report Date: 18-Jan-2024

Client: MTE Consultants Inc. (Burlington)

Order Date: 15-Jan-2024

Client PO:

Project Description: 54678-100

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
PCBs									
PCBs, total	ND	5	ug/g	ND			NC	40	
Surrogate: Decachlorobiphenyl	5.72		%		114	60-140			

Certificate of Analysis

Report Date: 18-Jan-2024

Client: MTE Consultants Inc. (Burlington)

Order Date: 15-Jan-2024

Client PO:

Project Description: 54678-100

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
PCBs									
PCBs, total	24	5	ug/g	ND	120	60-140			
Surrogate: Decachlorobiphenyl	6.72		%		134	60-140			

Certificate of Analysis

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Qualifier Notes:

Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

Any use of these results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that our employees or agents shall not under any circumstances be liable to you in connection with this work.



Parcel ID: 2403084



Head Office
300-2319 St. Laurent Blvd.
Ottawa, Ontario K1G 4J8
p: 1-800-749-1947
e: paraceleparacellabs.com

Chain of Custody
(Lab Use Only)

Page 1 of 1

Client Name: MTE Consultants Inc.	Project Reference: 54678-100	Turnaround Time: <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input checked="" type="checkbox"/> Regular Date Required:
Contact Name: Gavin Oakes	Quote #	
Address: 1016 Sutton Drive, Burlington	PO #	
Telephone: 905 639 2552	Email Address: mchown@mte85.com goakes@mte85.com	
Criteria: <input type="checkbox"/> O. Reg. 153/04 (As Amended) Table ___ <input type="checkbox"/> RSC Filing <input type="checkbox"/> O. Reg. 558/00 <input type="checkbox"/> PWQO <input type="checkbox"/> CCME <input type="checkbox"/> SUB (Storm) <input type="checkbox"/> SUB (Sanitary) Municipality: _____ <input type="checkbox"/> Other: _____		

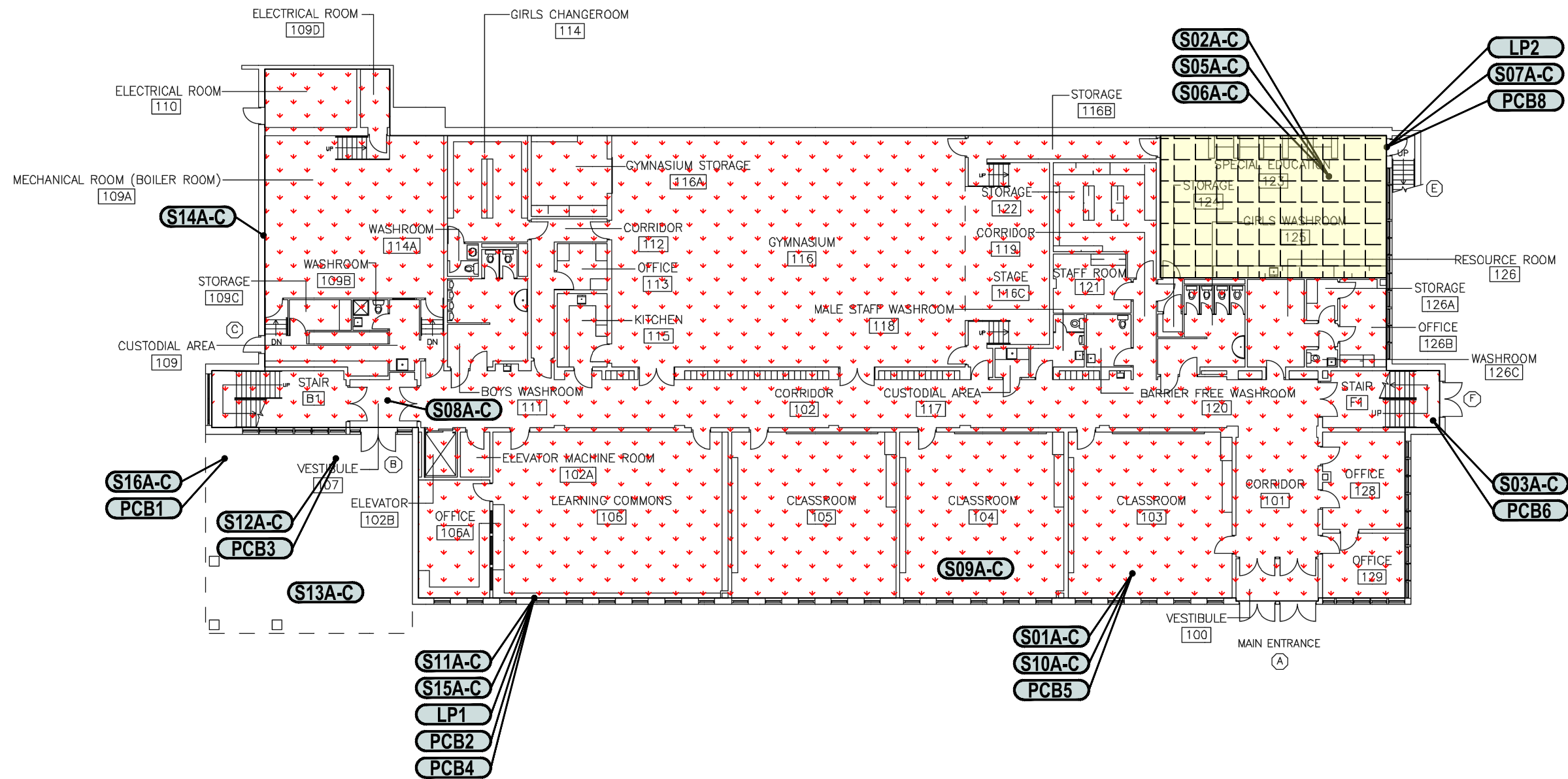
Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)

Parcel Order Number: 2403084		Matrix	Air Volume	# of Containers	Sample Taken		Required Analyses											
Sample ID/Location Name					Date	Time	PHCs F1-F4+BTEX	VOCs	PAHs	Metals by ICP	Hg	CrVI	B (HWS)	PCB				
1	PCB1	0			01/11	7:00	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	PCB2						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	PCB3						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	PCB4						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	PCB5						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	PCB6						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	PCB7						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	PCB8						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10							<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments:			Method of Delivery: <i>Permit</i>		
Relinquished By (Sign): <i>[Signature]</i>	Received by Driver/Depot: <i>[Signature]</i>	Received at Lab: <i>SO</i>	Verified By: <i>SS</i>		
Relinquished By (Print): <i>Melanie Chouh</i>	Date/Time: <i>Jan 15/24 11:30</i>	Date/Time: <i>Jan 16, 2024 9:50am</i>	Date/Time: <i>Jan 16 24 1109</i>		
Date/Time: <i>01/15/24</i>	Temperature: _____ °C	Temperature: _____ °C	pH Verified [] By:		

Appendix C

Figures



Notes:
 ALL DRAWINGS TO BE REFERENCED WITH THE DSA REPORT. LOCATIONS AND QUANTITIES ARE APPROXIMATE.
 ALL KNOWN OR SUSPECT DESIGNATED SUBSTANCES ARE NOT DEPICTED ON THIS FIGURE. REFER TO THE DSA REPORT FOR A COMPLETE LIST OF IDENTIFIED KNOWN AND SUSPECT DESIGNATED SUBSTANCES.
 THIS FIGURE IS COLOUR DEPENDENT. PHOTOCOPIES MAY ALTER INTERPRETATION OF FIGURE. ALWAYS REFER TO ORIGINAL DRAWINGS AND DSA REPORT.

Designated Substances and Hazardous Materials Legend

- S07A-C Sample Identification
- Asbestos Containing Mastic
- Asbestos Containing Spray On Fire Proofing

NOTE:
 * Drywall Joint Compound Ceiling in Classroom 123 Contains Asbestos.
 * Black Sealant on Exterior Door in Classroom 123 Contains Asbestos.



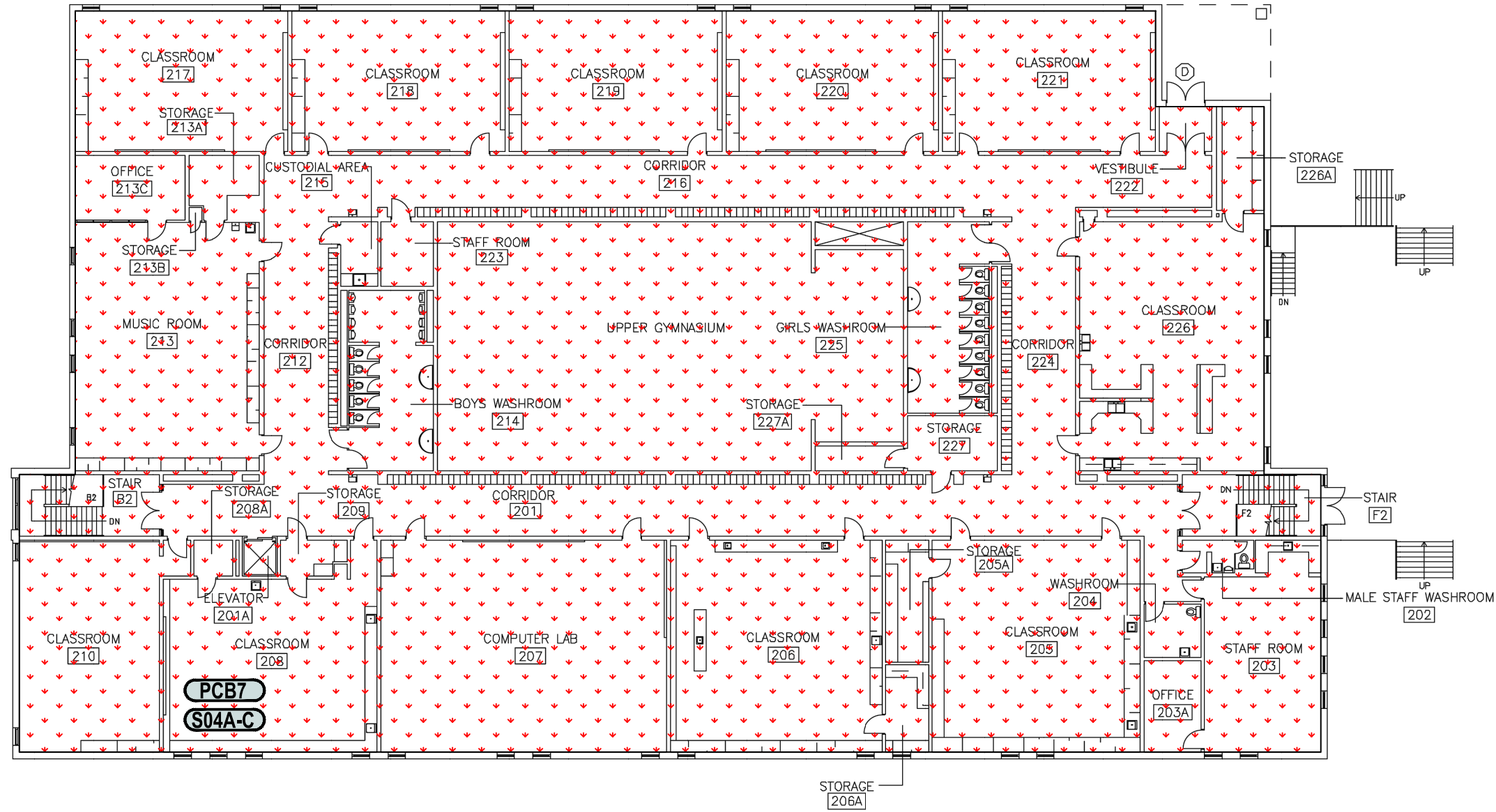
Ph. (905) 639-2552 www.mte85.com

CLIENT
 Hamilton-Wentworth District School Board

PROJECT
 DESIGNATED SUBSTANCE AND HAZARDOUS MATERIALS SURVEY

DRAWING
 FIRST FLOOR
 WESTVIEW ELEMENTARY SCHOOL
 60 ROLSTON DRIVE
 HAMILTON, ONTARIO

Project Manager	G. OAKES	Date	JANUARY 2024
Baseplan By	MTE	Project No.	54678-100
Figure By	SXS	Drawing No.	1.0
Scale	N.T.S.		



Notes:
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Designated Substances and Hazardous Materials Legend

- S04A-C Sample Identification
- Asbestos Containing Spray On Fire Proofing



Ph. (905) 639-2552 www.mte85.com

CLIENT
 Hamilton-Wentworth District School Board

PROJECT
 DESIGNATED SUBSTANCE AND HAZARDOUS MATERIALS SURVEY

DRAWING
 SECOND FLOOR
 WESTVIEW ELEMENTARY SCHOOL
 60 ROLSTON DRIVE
 HAMILTON, ONTARIO

Project Manager	G. OAKES	Date	JANUARY 2024
Baseplan By	MTE	Project No.	54678-100
Figure By	SXS	Drawing No.	2.0
Scale	N.T.S.		

Appendix D

Photographic Log



Photograph No. 1 – 2’x4’ pinhole pattern ceiling tiles are non-asbestos.



Photograph No. 2 – 1’x1’ pinhole pattern ceiling tiles in classroom 123 are non-asbestos, however suspect asbestos containing mastic may be concealed underneath.



Photograph No. 3 – Black sealant on the door inside classroom 123 contains asbestos.



Photograph No. 4 – Black mastic under 12"x12" gray fleck pattern vinyl floor tiles in classroom 123 contains asbestos.



Photograph No. 5 – Drywall joint compound on the ceiling in classroom 123 contains asbestos.



Photograph No. 6 – Gray exterior sealant around exterior doors and panels contains PCBs.



Photograph No. 7 – Fireproofing present within ceiling cavities throughout contains asbestos.



Photograph No. 8 – Window mounted air-conditioners may contain ODSs.