



Public Works
Hamilton Water, City of Hamilton
330 Wentworth Street North, Hamilton ON
L8L5W2

November 27, 2024

Attention: Hugh Leavens, C. Tech. PMP - Project Manager, Capital Delivery

Subject: Project-Specific, Pre-Demolition Designated Substances Survey
Barton-Tiffany Lands, Hamilton, Ontario

Englobe File No.: 02410660.000

1 Introduction

Englobe Corp. (Englobe) was retained by The City of Hamilton (the Client) to conduct a Project-Specific, Pre-Demolition Designated Substance Survey (DSS) of the property located at Barton-Tiffany Lands in Hamilton, Ontario.

This DSS has been prepared in response to the building owner's legal obligations under Section 30 of the Occupational Health and Safety Act (OHSA), R.S.O 1990, Chapter 0.1. The Act defines Designated Substances that may be present within buildings or structures and sets forth regulations for managing and handling these Designated Substances. Section 30 of the Act requires that, prior to beginning a construction project, including building demolition or renovation, a document detailing the presence of these substances must be available to contractors and subcontractors requesting tenders or directly awarded the work.

2 Scope of Work

Englobe's scope of work included performing a Designated Substance Survey within accessible project-specific work areas. The survey work included the 11 designated substances listed in Section 30 of the OHSA, R.S.O. 1990, Chapter 0.1. Designated Substances, as identified under the OHSA, are as follows:

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

Other Hazardous Materials that are not classified as Designated Substances, but were included as part of the survey and considered pertinent due to applicable regulations, best practice guidelines and/or potential risks to human health and/or the environment, are:

- Polychlorinated Biphenyls (PCBs)
- Ozone Depleting Substances (ODSs)
- Mould
- Other hazardous materials, as deemed pertinent

Englobe's scope of work did not include reviewing materials (if any) below grade.

3 Methodology

The field program for this survey was completed by Englobe on November 22, 2024. The field program included a visual assessment of the project area and bulk material sampling. The purpose of the survey program was to identify designated substances and hazardous materials on site that may be disturbed during project-specific demolition work operations.

Materials suspected of containing designated substances were visually identified based on the surveyor's knowledge of the historical composition of building products. Materials suspected of containing designated substances were identified by appearance, age, and knowledge of historical applications. Visual identification of materials suspected to contain asbestos, or lead (in paint) was supported by the collection and analysis of a limited number of representative samples, where applicable.

In Ontario, a material is defined as an Asbestos-Containing Material (ACM) if the material has a minimum asbestos content of 0.5 per cent (%) by dry weight, as per Ontario Regulation (O. Reg.) 278/05 *Designated Substance - Asbestos on Construction Projects and in Buildings and Repair Operations* enabled under the *OHSA (R.S.O. 1990, Chapter 0.1)*, as amended. ACMs can be divided into two categories: friable and non-friable material. A friable ACM is a material that can be crumbled, powdered, or pulverized by hand pressure and can readily release fibres when disturbed. Common applications of friable ACMs are sprayed or trowelled surfacing materials (e.g., sprayed fireproofing and textured coatings) as well as mechanical and thermal insulation. Non-friable materials are materials that will generally release fibres only when cut or shaped. Common non-friable ACMs include vinyl floor products, caulking applications, plaster, asbestos textile products and asbestos cement products (Transite). Some of these products may become friable with time or when disturbed.

Bulk samples of suspected ACMs were collected by Englobe during the site investigations. Samples were collected in order to meet the bulk sampling requirements stipulated in O. Reg. 278/05, as amended. The bulk samples were submitted to and analyzed by EMSL Canada (EMSL). EMSL is certified under the National Institute of Science and Technology's National Voluntary Laboratory Accreditation Program (NVLAP) to perform asbestos bulk sample analysis (NVLAP No. 200877-0). The bulk samples were analyzed using a combination of dispersion staining and polarised light microscopy (PLM). This analytical method complies with the United States Environmental Protection Agency (U.S. EPA) Method 600/R-93/116 dated July 1993, which is the regulatory approved protocol for bulk asbestos analysis in Ontario.

With regards to lead in paint, although the Ontario Ministry of Labour, Training and Skills Development (MLTSD) has published a guideline for control of lead exposures on construction projects in Ontario, it does not include criteria for the classification of lead-paint. Instead, it uses presumed airborne lead concentrations for specific tasks as criteria for classifying work. The Environmental Abatement Council of Canada (EACC) has published the Lead Guideline for Construction, Renovation, Maintenance or Repair (October 2014). This document outlines that paints or surface coatings containing less than or equal to 0.1% lead by weight (1,000 ug/g or 1,000 mg/kg or 1,000 ppm lead) are considered low-level lead paints or surface coatings. If these

materials (and the surfaces to which they are applied) are disturbed in a non-aggressive manner, performed using normal dust control procedures and are completed so that the TWA (Time Weighted Average) for PNOS (Particles Not Otherwise Specified) is not exceeded, then worker protection from the inhalation of lead is not required. For the purposes of this survey, surface coating applications having a lead concentration above 5,000 ppm (0.5%), above 1,000 ppm, but below 5,000 ppm and below 1,000 ppm are considered lead-based, lead-containing and low-level lead paints, respectively.

Representative photographs are included in Appendix A. Laboratory certificates of analysis are included in Appendix B.

4 Findings

The findings associated with the project specific work areas are presented in the following sub-sections.

4.1 Asbestos

Table 1 below presents the analytical results of the asbestos sampling performed by Englobe:

Table 1: Summary of Bulk Samples Analyzed for Asbestos Content			
Sample I.D.	Sample Location	Sample Description	Asbestos Content
02410660.000-DSS-1A	Exterior, Central Area of the Barton- Tiffany lands	Grey Concrete Block Mortar on Wall	None Detected
02410660.000-DSS-1B	Exterior, Central Area of the Barton- Tiffany lands	Grey Concrete Block Mortar on Wall	None Detected
02410660.000-DSS-1C	Exterior, Central Area of the Barton- Tiffany lands	Grey Concrete Block Mortar on Wall	None Detected
02410660.000-DSS-2A	Exterior, Central Pile of Debris	Dark Grey Brick Mortar	None Detected
02410660.000-DSS-2B	Exterior, Central Pile of Debris	Dark Grey Brick Mortar	None Detected

Table 1: Summary of Bulk Samples Analyzed for Asbestos Content			
Sample I.D.	Sample Location	Sample Description	Asbestos Content
02410660.000-DSS-2C	Exterior, Central Pile of Debris	Dark Grey Brick Mortar	None Detected
02410660.000-DSS-3A	Exterior, Central Pile of Debris	Brown Leveling Compound	None Detected
02410660.000-DSS-3B	Exterior, Central Pile of Debris	Brown Leveling Compound	None Detected
02410660.000-DSS-3C	Exterior, Central Pile of Debris	Brown Leveling Compound	None Detected
02410660.000-DSS-4A	Exterior, South Side of the Barton- Tiffany lands	Black Asphalt	None Detected
02410660.000-DSS-4B	Exterior, South Side of the Barton- Tiffany lands	Black Asphalt	None Detected
02410660.000-DSS-4C	Exterior, South Side of the Barton- Tiffany lands	Black Asphalt	None Detected
02410660.000-DSS-5A	Exterior, Central Pile of Debris	White Plater Debris	None Detected
02410660.000-DSS-5A	Exterior, Central Pile of Debris	2 nd Layer - White/Grey Plater Debris	None Detected

Table 1: Summary of Bulk Samples Analyzed for Asbestos Content			
Sample I.D.	Sample Location	Sample Description	Asbestos Content
02410660.000-DSS-5B	Exterior, Central Pile of Debris	White Plater Debris	None Detected
02410660.000-DSS-5B	Exterior, Central Pile of Debris	2 nd Layer - White Plater Debris	None Detected
02410660.000-DSS-5C	Exterior, Central Pile of Debris	White Plater Debris	None Detected
02410660.000-DSS-5C	Exterior, Central Pile of Debris	2 nd Layer - White Plater Debris	None Detected

Based on the analytical results presented in Table 1, none of the sampled materials contain regulated amounts of asbestos.

4.2 Lead

Table 2 below presents the analytical results of the lead sampling performed by Englobe:

Table 2: Summary of Bulk Samples Analyzed for Lead Content			
Sample I.D.	Sample Location	Sample Description	Lead Concentration
02410660.000-DSS-LP01	Exterior, Southeast Corner	Blue Paint on Metal Post	<81 ppm
02410660.000-DSS-LP02	Exterior, Middle of the Land	Black Paint on Metal Post	1100 ppm
02410660.000-DSS-LP03	Exterior, Vertical Stack adjacent to the Southeast Sidewalk	Yellow Paint on Vertical Stack	890 ppm

Note: **Bold** items contain greater than 1,000 ppm of lead.

Based on the analytical results presented in Table 2, paint described as Blue (applied to metal posts) in the Project Area is considered to be low-lead level paint. Paint described as Yellow (applied on Vertical Stack) in the Project Area is considered to be low-lead level paint.

Paint described as Black (applied to metal posts) in the Project Area is considered to be lead-containing.

4.3 Silica

Based on the historical composition of building materials, silica is assumed to be present in asphalt, levelling compounds, concrete, concrete block, and mortar.

4.4 Mercury

Mercury was not observed to be present at the time of assessment.

4.5 PCBs

PCBs are hazardous chemicals which were used in the manufacturing of a variety of equipment, such as electrical equipment, heat exchangers, hydraulic systems, and for several other specialized applications. PCBs are commonly found within electrical ballasts manufactured prior to 1981, found within fluorescent light fixtures and high intensity discharge (HID) lamps.

PCBs were not observed to be present at the time of the assessment.

4.6 Other Designated Substances and Hazardous Materials

The following other Designated Substances and Hazardous Materials were neither observed, nor suspected of being present, in forms or quantities that would impact work operations of the planned project:

- Acrylonitrile
- Arsenic
- Benzene
- Coke Oven Emissions
- Ethylene Oxide
- Isocyanates
- Vinyl Chloride
- ODSs

5 Conclusions and Recommendations

Based on bulk sampling, laboratory analyses, and observations made during the site investigation, the following Designated Substances and other hazardous materials have been confirmed within the project area and are anticipated to be disturbed:

- Lead

Englobe's recommendations for these designated substances, which are based upon both regulatory compliance and best practice guidelines, are included in the following sections below.

It should be noted that some hazardous building materials may be concealed and thus may not have been visible or apparent at the time of Englobe's site survey. Should any unidentified suspect hazardous materials be encountered as part of future work, these materials are to be treated as hazardous and handled accordingly, unless sampling proves otherwise.

5.1 Lead

The Occupational Health and Safety Branch of the Ontario MLTSD have published a guideline entitled “*Guideline: Lead on Construction Projects*”. This document classifies all lead disturbances as Type 1, Type 2a, Type 2b, Type 3a or Type 3b work, and assigns different levels of respiratory protection and work procedures for each classification.

Black paint on metal posts in the Project Area are considered to be lead-containing. Disturbance of these materials will require lead precautionary measures in accordance with the above-noted guideline.

The disposal of construction waste containing lead is governed by O. Reg. 347/90 - General - Waste Management, as amended. The transport of the waste to the disposal site is controlled by the *Ontario Dangerous Goods Transportation Act*. Materials with elevated concentrations of lead are subject to toxicity characteristic leaching procedure (TCLP) testing to determine toxicity with respect to lead prior to disposal, in accordance with O.Reg. 347/90, as amended.

5.2 Silica

The Occupational Health and Safety Branch of the Ontario MLTSD have published *Guideline: Silica on Construction Projects*. This document classifies all silica disturbances as Type 1, Type 2 or Type 3 work, and assigns different levels of respiratory protection and work procedures for each classification. This guideline should be followed during disturbance of silica-containing materials.

As a general rule, it is preferable to use more stringent dust suppression techniques and engineering controls as opposed to relying on respiratory protection to control worker exposure. Respiratory protection should only be relied on as a last resort when dust suppression techniques and engineering controls fail to control worker exposure.

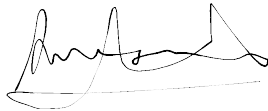
The TWA exposure limit (TWAEL) for airborne silica is prescribed by O. Reg. 490/09, as amended. Work procedures and personal protective equipment must be used to ensure that workers are not exposed to airborne silica levels that exceed the TWAEL.

6 Closure

A Statement of Limitations, which forms an integral part of this report, is attached.

We trust that the information contained herein meets your needs. Should you have any questions or comments, please do not hesitate to contact us.

For Englobe Corp.



Ali Jamali Ialeh, B.Eng., EIT, WRT
Environmental Scientist
HHS, GTA & SWO



Steve March OH&S (dipl.), AMRT, WRT
Operational Team Leader
HHS, GTA & SWO

APPENDIX A

Representative Photographs



eNGLOBE



Photo 1. Representative view of lead-containing black paint applied to metal posts.

APPENDIX B

Laboratory Certificate of Analysis



eNGLOBE



EMSL Canada Inc.

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EMSL Canada Order 552419182
Customer ID: 55DST80
Customer PO: 02410660.000
Project ID:

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Phone: (519) 624-9804
Fax: (519) 624-5916
Collected: 11/22/2024
Received: 11/22/2024
Analyzed: 11/25/2024

Proj: 02410660.000

Summary Test Report for Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05

Client Sample ID: 02410660.000-DSS-01A

Lab Sample ID: 552419182-0001

Sample Description: Grey Concrete Block Mortar on Wall Located in the Central Area of the Barton-Tiffany lands

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2024	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 02410660.000-DSS-01B

Lab Sample ID: 552419182-0002

Sample Description: Grey Concrete Block Mortar on Wall Located in the Central Area of the Barton-Tiffany lands

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2024	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 02410660.000-DSS-01C

Lab Sample ID: 552419182-0003

Sample Description: Grey Concrete Block Mortar on Wall Located in the Central Area of the Barton-Tiffany lands

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2024	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 02410660.000-DSS-02A

Lab Sample ID: 552419182-0004

Sample Description: Dark Grey Brick Mortar, Central Pile of Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2024	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 02410660.000-DSS-02B

Lab Sample ID: 552419182-0005

Sample Description: Dark Grey Brick Mortar, Central Pile of Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2024	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 02410660.000-DSS-02C

Lab Sample ID: 552419182-0006

Sample Description: Dark Grey Brick Mortar, Central Pile of Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2024	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 02410660.000-DSS-03A

Lab Sample ID: 552419182-0007

Sample Description: Brown Leveling Compound, Central Pile of Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2024	Gray	0.0%	100.0%	None Detected	



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Customer ID: 55DST80
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Project ID:

Summary Test Report for Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05

Client Sample ID: 02410660.000-DSS-03B **Lab Sample ID:** 552419182-0008

Sample Description: Brown Leveling Compound, Central Pile of Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2024	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 02410660.000-DSS-03C **Lab Sample ID:** 552419182-0009

Sample Description: Brown Leveling Compound, Central Pile of Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2024	Brown/Gray	0.0%	100.0%	None Detected	

Client Sample ID: 02410660.000-DSS-05A-White **Lab Sample ID:** 552419182-0013

Sample Description: Suspect White Plater Debris, Central Pile of Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2024	White	0.0%	100.0%	None Detected	

Client Sample ID: 02410660.000-DSS-05A-Grey **Lab Sample ID:** 552419182-0013A

Sample Description: Suspect White Plater Debris, Central Pile of Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2024	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 02410660.000-DSS-05B-White **Lab Sample ID:** 552419182-0014

Sample Description: Suspect White Plater Debris, Central Pile of Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2024	White	0.0%	100.0%	None Detected	

Client Sample ID: 02410660.000-DSS-05B-Grey **Lab Sample ID:** 552419182-0014A

Sample Description: Suspect White Plater Debris, Central Pile of Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2024	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 02410660.000-DSS-05C-White **Lab Sample ID:** 552419182-0015

Sample Description: Suspect White Plater Debris, Central Pile of Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2024	White	0.0%	100.0%	None Detected	

Client Sample ID: 02410660.000-DSS-05C-Grey **Lab Sample ID:** 552419182-0015A

Sample Description: Suspect White Plater Debris, Central Pile of Debris

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/25/2024	Gray	0.0%	100.0%	None Detected	



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EMSL Canada Order 552419182
Customer ID: 55DST80
Customer PO: 02410660.000
Project ID:

Summary Test Report for Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05

Analyst(s): _____

Antonio Peluso PLM (10)
Vanessa Gallego PLM (5)

Reviewed and approved by:

Matthew Davis or other approved signatory
or Other Approved Signatory

None Detected = <0.1%. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This is a summary report; official reports are available on LabConnect or upon request and 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: 11/25/2024 15:11:49



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Phone: (519) 624-9804
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Received: 11/22/2024 03:49 PM
Analysis Date: 11/25/2024
Collected: 11/22/2024

Project: **02410660.000**

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 with Milling and Gravimetric Reduction. Quantitation with 400 Point Count Procedure.

SAMPLE ID	DESCRIPTION	APPEARANCE	(% Matrix Organic Acid)		NON- ASBESTOS % Fibrous	NON- ASBESTOS % NON-FIBROUS	ASBESTOS % TYPES
02410660.000-DSS-04A 552419182-0010	Black Asphalt Located in the South Side of the Barton-Tiffany lands	Black Non-Fibrous Homogeneous	8.6	0.0		91.4 Non-fibrous (other)	None Detected
02410660.000-DSS-04B 552419182-0011	Black Asphalt Located in the South Side of the Barton-Tiffany lands	Black Non-Fibrous Homogeneous	4.9	0.0		95.1 Non-fibrous (other)	None Detected
02410660.000-DSS-04C 552419182-0012	Black Asphalt Located in the South Side of the Barton-Tiffany lands	Black Non-Fibrous Homogeneous	7.8	0.0		92.2 Non-fibrous (other)	None Detected

Analyst(s)

Diana Costantino (2)
Vanessa Gallego (1)


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. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. EMSL suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. Estimation of uncertainty is available on request.

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

Initial report from 11/25/2024 15:12:00



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Received: 11/22/2024 03:49 PM
Collected: 11/22/2024

Project: **02410660.000**

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>
LP01 552419186-0001	11/22/2024	11/25/2024	0.2468 g	81 ppm	<81 ppm
Site: Blue Paint on blue post located in the southeast corner					
LP02 552419186-0002	11/22/2024	11/25/2024	0.2475 g	81 ppm	1100 ppm
Site: Black paint on black post located in the middle of the land					
LP03 552419186-0003	11/22/2024	11/25/2024	0.2493 g	80 ppm	890 ppm
Site: Yellow paint on vertical stack adjacent to the southeast sidewalk					

Rowena Fanto, Lead Supervisor
or other approved signatory

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* 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 11/25/2024 14:18:05



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CustomerID: 55DST80
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Phone: (519) 624-9804
Fax: (519) 624-5916
Received: 11/22/2024 03:49 PM
Collected: 11/22/2024

Project: **02410660.000**

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>
LB01 552419186-0004	11/22/2024	11/25/2024	0.5001 g	40 mg/Kg	42 mg/Kg
Site: Concrete block mortar located inside pile of debris in the center of the Barton-Tiffany Lands					
LB02 552419186-0005	11/22/2024	11/25/2024	0.5009 g	40 mg/Kg	96 mg/Kg
Site: Brick mortar located inside pile of debris in the center of Barton-Tiffany Lands					

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 11/25/2024 14:18:05

APPENDIX C

Statement of Limitations



eNGLOBE

Statement of Limitations

This report (hereinafter, the "Report") was prepared by Englobe Corporation (hereinafter the "Company") and is provided for the sole and exclusive use and benefit of City of Hamilton (the "Client"). Ownership in and copyright for the contents of the Report belong to the Company.

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This Report should be considered in its entirety; selecting specific portions of the Report may result in the misinterpretation of the content.

The work performed by the Company was carried out in accordance with the terms and conditions specified in the Professional Services Agreement between the Company and the Client, in accordance with currently accepted engineering standards and practices and in a manner consistent with the level of skill, care and competence ordinarily exercised by members of the same profession currently practicing under similar conditions and like circumstances in the same jurisdiction in which the services were provided. Standards, guidelines, and practices may change over time; those which were applied to produce this Report may be obsolete or unacceptable later.

The findings, recommendations, suggestions, or opinions expressed in this Report reflect the Company's best professional judgment based on observations and/or information reasonably available at the time the work was performed, as appropriate for the scope, work schedule and budgetary constraints established by the Client. No other warranty or representation, expressed or implied, is included in this Report including, but not limited to, that the Report deals with all issues potentially applicable to the site and/or that the Report deals with any and all of the important features of the site, except as expressly provided in the scope of work.

This Report has been prepared for the specific site, development, building, design or building assessment objectives and/or purposes that were described to the Company by the Client. The applicability and reliability of the content of this Report, subject to the limitations provided herein, are only valid to the extent that there has been no material alteration or variation thereto, and the Company expressly disclaims any obligation to update the Report. However, the Company reserves the right to amend or supplement this Report based on additional information, documentation or evidence made available to it.

The Company makes no representation concerning the legal significance of its findings, nor as to the present or future value of the property, or its fitness for a particular purpose and hereby disclaims any responsibility or liability for consequential financial effects on transactions or property values, or requirements for follow-up actions and costs.

Since the passage of time, natural occurrences, and direct or indirect human intervention may affect the views, conclusions, and recommendations (if any) provided in this Report, it is intended for immediate use.

This Statement of Limitations forms an integral part of the Report.

In preparing this Report, the Company has relied in good faith on information provided by others and has assumed that such information is factual, accurate and complete. The Company accepts no responsibility or liability for any deficiency, misstatement or inaccuracy in this Report resulting from the information provided, concealed, or not fully disclosed by those individuals.

The assessment should not be considered a comprehensive audit that covers and eliminates all present, past, and future risks. The information presented in this Report is based on data collected during the completion of the site assessment conducted. The overall site/building conditions were extrapolated based on information collected at specific sampling locations. Professional judgement was exercised in gathering and analyzing data; however, no sampling methodology can completely eliminate the possibility of obtaining partially imprecise or incomplete information; it can only reduce the possibility to an acceptable level. Consequently, the actual site/building conditions between the sampling points may vary. In addition, analysis has been carried out only for the parameters identified, and it should not be inferred that other hazardous materials are not present.

It is recommended practice that the Company be retained during subsequent phases of the project, to confirm that the conditions throughout the site do not deviate materially from those encountered throughout the sampling program.

Any description of the site and its physical setting documented in this Report is presented for informational purposes only, to provide the reader a better understanding of the site and scope of work.

Any results from a third-party laboratory or other subcontractors reported herein have been carried out by others, and the Company cannot warrant their accuracy.

This Report is based on the assumption that the design features relevant to our work will be in accordance with applicable codes, standards, and guidelines of practice and constructed substantially in accordance with the Report. If there are any changes to the site development or building construction features, or there is any additional information that was not otherwise available at the time the work was performed, the Company should be retained to review the implications thereof to the contents of this Report. The design recommendations expressed in this Report are applicable only to the project described therein.

No attempt was made to dismantle, inspect, or test existing equipment other than that which is specifically noted in the report.