

Appendix A

Phase Two Conceptual Site Model (CSM)



eNGLOBE



Subject: **Phase Two Conceptual Site Model**
424 Churchill Avenue North, Ottawa, ON
 Englobe reference: 02103035.000

The following document presents the Phase Two Conceptual Site Model (CSM) for the property located at 424 Churchill Avenue North, Ottawa, Ontario (the “Property”). The Phase Two CSM is part of the report entitled *“Phase Two Environmental Site Assessment, 424 Churchill Avenue North, Ottawa, Ontario”* prepared by Englobe for Churchill Properties Inc.

The Property is located on the northwest corner of the intersection of Byron Avenue and Churchill Avenue North, in Ottawa, Ontario and is irregular in shape, with a total area of approximately 1,006 square metres (0.1 hectares, **see Figure 1**). The Property was previously occupied by a commercial dry cleaner and laundromat and associated parking area. In May 2025, the commercial building on the site was demolished.

The Property is in Commercial Property Use as defined by the Ministry of the Environment, Conservation and Parks (MECP). It is understood that the proposed redevelopment of the Property will result in a change in land use from Commercial to Residential.

It is understood that the Property will be redeveloped for residential use with a seven (7) storey, 58-unit mid-rise apartment building with a 3-level underground parking garage.

The following details are presented in relation to the Property:

CRITERIA	DISCUSSION			
1. Provide a narrative description and assessment of,				
i. areas where potentially contaminating activity has occurred,	i. Potentially Contaminating Activities (PCAs) were identified within the Phase One ESA for the Property. The PCAs were identified as being both on the Property and within the Study Area (see Figure 2). Justification regarding if the PCAs have the potential to cause and Area of Potential Environmental Concern (APEC) on the Property and further information regarding the PCAs are provided below.			
	Location of PCA	PCA	Potential APEC (Yes/No)	Justification
	424 Churchill Avenue North On the Property	37. Operation of Dry Cleaning Equipment (where chemicals are used)	Yes (APEC 1)	Site Reconnaissance: Former Dry-cleaner and laundromat identified. On-Site building demolished in May 2025. PCA has potential to cause and APEC on the Property.

424 Churchill Avenue North On the Property	PCA Others 1. Application of salt for de-icing purposes for the safety of vehicular or pedestrian traffic	Yes (APEC 2)	Site Reconnaissance: asphalt parking and driveway where de icing activities occurred. PCA has potential to cause and APEC on the Property.
Byron Avenue South Side of Byron Avenue, South of the Property	46. Rail Yards, Tracks and Spurs	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
412 Churchill Avenue North 35m North of the Property	31. Ink Manufacturing, Processing and Bulk Storage	Yes (APEC 3)	Upgradient PCA does have potential to cause an APEC on the Property due to distance from the Property.
	33. Metal Treatment, Coating, Plating and Finishing	Yes (APEC 3)	Upgradient PCA does have potential to cause an APEC on the Property due to distance from the Property.
408 Churchill Avenue North 40m North of the Property	28. Gasoline and Associated Products Storage in Fixed Tanks	Yes (APEC 3)	Upgradient PCA does have potential to cause an APEC on the Property due to distance from the Property.
352 Richmond Road 50m North of the Property	37. Operation of Dry Cleaning Equipment (where chemicals are used)	Yes (APEC 3)	Upgradient PCA does have potential to cause an APEC on the Property due to distance from the Property.
345 Ravenhill Avenue 60m South of the Property	28. Gasoline and Associated Products Storage in Fixed Tanks	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
518 Byron Avenue 87m Southwest of the Property	PCA Others 3 - Spill	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
326 Richmond Road 82m Northeast of the Property	31. Ink Manufacturing, Processing and Bulk Storage	Yes (APEC 3)	Upgradient PCA does have potential to cause an APEC on the Property due to distance from the Property.

	337 Richmond Road	10. Commercial Autobody Shops	Yes (APEC 3)	Upgradient PCA does have potential to cause an APEC on the Property due to distance from the Property.
	90m North of the Property	PCA Others. 2 - Salt Storage	Yes (APEC 3)	Upgradient PCA does have potential to cause an APEC on the Property due to distance from the Property.
	449 Churchill Avenue North 113m South of the Property	28. Gasoline and Associated Products Storage in Fixed Tanks	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	357 Richmond Road 119m Northwest of the Property	37. Operation of Dry Cleaning Equipment (where chemicals are used)	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	450 Churchill Avenue 105m South of the Property	28. Gasoline and Associated Products Storage in Fixed Tanks	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	347 Richmond Road 133m Northwest of the Property	28. Gasoline and Associated Products Storage in Fixed Tanks	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	372 Richmond Road 80m West of the Property	28. Gasoline and Associated Products Storage in Fixed Tanks	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	312 Richmond Road 133m Northeast of the Site	37. Operation of Dry Cleaning Equipment (where chemicals are used)	No	Upgradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	300 Richmond Road 133m Northeast of the Site	10. Commercial Autobody Shops	No	Upgradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.

	314 Richmond Road 125m Northeast of the Site	54. Textile Manufacturing and Processing	No	Upgradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	384 Richmond Road 141m West of the Property	37. Operation of Dry Cleaning Equipment (where chemicals are used)	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	371 Richmond Road 132m Northwest of the Property	10. Commercial Autobody Shops	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	388 Richmond Road 155m West of the Property	PCA Others 3 - Spill	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	319 Richmond Road 115m Northeast of the Property	28. Gasoline and Associated Products Storage in Fixed Tanks	No	Upgradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
		10. Commercial Autobody Shops	No	Upgradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	389 Danforth Avenue 168m West of the Property	PCA Others 5 - Spill	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	298 Richmond Road 230m Northeast of the Property	28. Gasoline and Associated Products Storage in Fixed Tanks	No	Upgradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
		10. Commercial Autobody Shops	No	Upgradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.

	383 Winona Avenue 186m Northeast of the Property	31. Ink Manufacturing, Processing and Bulk Storage	No	Upgradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	311 Richmond Road 170m Northeast of the Property	31. Ink Manufacturing, Processing and Bulk Storage	No	Upgradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	394 Richmond Road 185m West of the Property	10. Commercial Autobody Shops	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	376 Madison Avenue 173m Northwest of the Property	10. Commercial Autobody Shops	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	376 Churchill Avenue 174m North of the Property	28. Gasoline and Associated Products Storage in Fixed Tanks	No	Cross-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
		31. Ink Manufacturing, Processing and Bulk Storage	No	Cross-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
		PCA Others 4 - Manufacturing	No	Cross-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	307/307 A Richmond Road 180m Northeast of the Property	28. Gasoline and Associated Products Storage in Fixed Tanks	No	Upgradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
		10. Commercial Autobody Shops	No	Upgradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.

	377 Churchill Avenue 175m North of the Property	34. Metal Fabrication	No	Cross-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	375 Churchill Avenue 183m North of the Property	54. Textile Manufacturing and Processing	No	Cross-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	393 Richmond Road 200m West of the Property	PCA Others 4 - Manufacturing	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	433 Roosevelt Avenue 194m Southwest of the Property	10. Commercial Autobody Shops	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	397 Richmond Road 200m West of the Property	39. Paints Manufacturing, Processing and Bulk Storage	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	277 Richmond Road 250m Northeast of the Property	10. Commercial Autobody Shops	No	Upgradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	348 Whitby Avenue 217m North of the Property	PCA Others 3 - Spill	No	Cross-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	363 Churchill Avenue 220m North of the Property	31. Ink Manufacturing, Processing and Bulk Storage	No	Cross-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
		PCA Others 3 - Spill	No	Cross-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.

	364 Churchill Avenue 227m North of the Property	31. Ink Manufacturing, Processing and Bulk Storage	No	Cross-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	276 Richmond Road 250m Northeast of the Property	10. Commercial Autobody Shops	No	Upgradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	282 Richmond Road 250m Northeast of the Property	37. Operation of Dry Cleaning Equipment (where chemicals are used)	No	Upgradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	290 Picton Avenue 250m Northeast of the Property	43. Plastics (including Fibreglass) Manufacturing and Processing	No	Upgradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	400 Athlone Avenue 250m East of the Property	PCA Others 3 - Spill	No	Upgradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
	416 Richmond Rd 250m West of Property	31. Ink Manufacturing, Processing and Bulk Storage	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.
		28. Gasoline and Associated Products Storage in Fixed Tanks	No	Down-gradient PCA does not have potential to cause an APEC on the Property due to distance from the Property.

PCA locations in the table above are approximate only and based upon the records review from the Phase One ESA.

ii. areas of potential environmental concern, and	ii. The following Areas of Potential Environmental Concern (APECs) resulting from PCAs were identified by the Phase One ESA, the locations of APECs, the Contaminants of Potential Concern (COPCs) and the media affected are described below. The specific locations of each APEC and the location of the associated PCA are shown on Figure 2 and 2A .
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APEC	Location of PCA	PCA	COPCs	Media Potentially Impacted
APEC 1: Southern portion of Site around Site building	On-Site Property	PCA 37: Operation of Dry-Cleaning Equipment (where chemicals are used)	VOCs, PAHs, BTEX, PHCs	Soil & Groundwater
APEC 2: Parking Lot area surrounding Site building	On-Site Property	PCA Others 1: De-icing Activities	Soil: Na+, Cl-, GW: SAR, EC	Soil & Groundwater
APEC 3: Northern Property Boundary	412-414 Churchill Avenue North	PCA 31: Ink Manufacturing, processing and bulk Storage	PHCs (F1-F4), VOCs, BTEX, PAH	Soil & Groundwater
	35m North of Site	PCA 33: Metal Treatment, coating, plating and finishing	Metals, As, Sb, Se (Hydride Forming Metals), PHCs (F1-F4), VOCs, BTEX, PAH	
	408 Churchill Avenue North	PCA 28: Gasoline and associated products storage in fixed tanks	Metals, As, Sb, Se (Hydride Forming Metals), PHCs (F1-F4), VOCs, BTEX, PAH	
	40m North of Site	PCA 37: Operation of Dry-Cleaning Equipment (where chemicals are used)	VOCs, PAHs, BTEX	
	352 Richmond Road	PCA 31: Ink Manufacturing, processing and bulk Storage	PHCs (F1-F4), VOCs, BTEX, PAH	
	50m North of Site	PCA 10: Commercial Auto Body Shops	Metals, As, Sb, Se (Hydride Forming Metals), PHCs (F1-F4), VOCs, BTEX, PAH	
326 Richmond Road	PCA 31: Ink Manufacturing, processing and bulk Storage	PHCs (F1-F4), VOCs, BTEX, PAH		
82m Northeast of Site	PCA 10: Commercial Auto Body Shops	Metals, As, Sb, Se (Hydride Forming Metals), PHCs (F1-F4), VOCs, BTEX, PAH		
337 Richmond Road	PCA 10: Commercial Auto Body Shops	Metals, As, Sb, Se (Hydride Forming Metals), PHCs (F1-F4), VOCs, BTEX, PAH		
95m North of Site	PCA 10: Commercial Auto Body Shops	Metals, As, Sb, Se (Hydride Forming Metals), PHCs (F1-F4), VOCs, BTEX, PAH		

		PCA Other 2: Salt Storage	Soil: Na+, Cl-, GW: SAR, EC	
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iii. any subsurface structures and utilities on, in or under the Property that may affect contaminant distribution and transport.	iii. There was one building on the Property that was serviced with municipal water via underground pipes. The building was serviced with below ground natural gas lines and municipal sanitary sewers. There was a former dry-cleaner and laundromat outlet at the Property. No subsurface structures were identified on the Site aside from municipal servicing coming into the Site. Contaminant distribution may be affected by buried utilities and structures which may serve as preferential pathways for the migration of COCs. As of May 2025, the on-Site building has been demolished. As such, the Property is currently vacant.
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2. Provide a narrative description of and, as appropriate, figures illustrating, the physical setting of the Property and any areas under it including,

i. stratigraphy from ground surface to the deepest aquifer or aquitard investigated,	<p>The physical setting of the Property is shown on Figure 1. Cross-sections which illustrate the Property’s stratigraphy are shown on Figures 6A to 6C, 7A to 7C, 8A to 8C, 9A to 9C, 10A to 10C, 11A to 11C, 12A to 12C, and 13A to 13C.</p> <p><u>Surface Coverings</u></p> <p>At existing grade, all boreholes except MW23-02 and MW23-03 encountered a pavement structure consisting of 100 to 140 mm of asphalt. MW23-02 and MW23-03 encountered a building concrete slab consisting of 25 to 152 mm of concrete.</p> <p><u>Fill Material</u></p> <p>Beneath the surface coverings, the general soil stratigraphy at the Site is characterized as a thin layer of fill material, characterized mainly by reworked native soil consisting of silty sand to sandy silt with trace to some gravel (0.1 to 0.5 m thick). At MW23-02 and MW23-03 (boreholes beneath the former building footprint) a layer of fill material consisting of sand and gravel assumed to be a base layer related to the former Site building (0.1-0.5m thick) was encountered overlaying the underlying native soils and/or bedrock.</p> <p><u>Silty Sand to Sandy Silt Glacial Till</u></p> <p>Underlying the fill material at the Site, the boreholes consist of a layer of silty sand to sandy silt glacial till with trace gravel and trace clay at all borehole locations (0.5 to 0.7 m thick), with the exception of borehole MW23-03 where only sand and gravel (0.1 m thick) were encountered beneath the building slab. This deposit was encountered at depths of 0.1 to 0.2 m below grade (Elev. 75.8 mASL at MW25-2 to 74.8 mASL at MW25-1) and extended to depths of 0.45 to 1.2 m</p>
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below grade (Elev. 74.8 mASL at MW24-1 to 74.2 mASL at MW21-01). This deposit was found to be brown to orange in colour and moist.

Bedrock

Bedrock was encountered during the subsurface investigation of the Property. Bedrock consisted of limestone, dolostone, shale, and sandstone of the Simcoe Group, Gull River Formation. Bedrock was encountered at depths of 0.1 to 1.2 m below grade (Elev. 74.8 mASL at MW24-1 to 73.5 mASL at MW23-02)

Soil Texture

A total of four (4) soil samples and one (1) duplicate from selected boreholes were submitted for grain size analysis, in order to determine the soil texture at the Site.

Subsection 42(1) of O.Reg. 153/04 states the following:

‘If the qualified person determines that at least 1/3 of the soil at the property, measured by volume, consists of coarse textured soil, the qualified person shall apply the standard for coarse textured soil.’

Four soil samples, MW21-01 SS2, MW21-03 SS1, MW25-4A SS1, and MW25-2A SS1 and one Duplicate (MW25-2A SS1) were submitted to Bureau Veritas Laboratories, Ottawa, Ontario for grain size analysis. Additionally, BV Labs conducted a lab duplicate of MW25-2A SS1 for QA/QC purposes. Based on the results, three (3) of the four (4) submitted soil samples locations contained more than 50% by mass of particles that are smaller than 75 micrometres in mean diameter as illustrated in the Table below.

Soil Sample Identifier	% <0.075mm	%>0.075mm	Soil Texture as Per Section 42 of O.Reg 153/04
MW21-01 SS2	78	22	Medium-Fine
MW21-03 SS1	80	20	Medium-Fine
MW25-4A SS1	79.4	19.6	Medium-Fine
MW25-2A SS1	33	67	Coarse
MW25-2A SS1 (Duplicate)	40.2	59.8	Coarse
MW25-2A SS1 (Lab Duplicate)	33.3	66.7	Coarse

Based on the results of the grain size analysis conducted at four locations across the Site and analysis of Site Stratigraphy from borehole logs across the Site the QP is of the opinion that greater than 2/3 of the soil at the property by volume consists of medium-fine textured soils. Therefore, fine-medium grained soil texture was selected for comparison of analytical data to applicable provincial

	standards. The grain size analyses are presented in Appendix B of the Phase One and Two ESA Summary Document (Appendix E of the Risk Assessment Report).
<p>ii. hydrogeological characteristics, including aquifers, aquitards and, in each hydrostratigraphic unit where one or more contaminants are present at concentrations above the applicable site condition standards, lateral and vertical hydraulic gradients,</p>	<p>ii. <u>Aquifers and Aquitards</u></p> <p><u>Silty Sand to Sandy Silt</u> The water table at the Property is located below within the bedrock. Water, if any, encountered within the Silty Sand to Sandy Silt surficial soils is expected to migrate downwards into the underlying fractured bedrock.</p> <p><u>Bedrock</u> Based on the observed groundwater conditions, one unconfined aquifer is present at the Site. The groundwater levels in wells screened within the bedrock at the Site have been measured between approximately 4.76 mbgs and 6.86 mbgs.</p> <p><u>Hydraulic Conductivities</u> Hydraulic conductivity tests were used to estimate the Site-specific in-situ horizontal hydraulic conductivity of the geological materials intercepted at the well screens of MW23-02, MW23-03, and MW23-04. These hydraulic conductivity tests were performed using short-duration pumping and recovery test methods on August 17, 2023.</p> <p>At MW23-02, MW23-03, and MW23-04, the hydraulic conductivity tests were performed using a submersible pump to stress the bedrock aquifer to induce the drawdown and then measure the groundwater responses during the pumping and recovery. Water levels were recorded electronically with a datalogger during the recovery phases of the hydraulic conductivity tests.</p> <p>The hydraulic conductivity testing results indicated that the estimated horizontal hydraulic conductivity values ranged from 4.76×10^{-8} m/s to 5.91×10^{-8} m/s for the monitoring wells MW23-02 and MW23-03, respectively, while values ranging from 1.08×10^{-5} m/s (observation well data) to 5.51×10^{-5} m/s (pumping well data) were estimated from the results of a short duration recovery test carried out in MW23-04, as summarized in the table below.</p>

Well ID	Screened Interval [m bgs / m asl]	Sample Number/ Description	Horizontal Hydraulic Conductivity [m/s]	Data Analysis Method
WELLS SCREENED IN BEDROCK				
MW23-02	6.2 - 9.2 / 67.4 - 64.4	N/A = Assumed Limestone similar to MW23-01	4.76E-08	Bouwer-Rice (1976)
MW23-03	6.2 - 9.2 / 69.8 - 66.7	N/A = Assumed Limestone similar to MW23-01	5.91E-08	Dagan (1978)
MW23-04	4.6 - 8.2 / 71.2 - 67.6	N/A = Assumed Limestone similar to MW23-01	1.08E-05	Theis (1935) - Observation wells
MW23-04	4.6 - 8.2 / 71.2 - 67.6	N/A = Assumed Limestone similar to MW23-01	5.51E-05	Theis (1935) - Pumping Well
Bedrock Mean Hydraulic Conductivity (m/s)			1.14E-06	

Ground Water Hydraulic Gradients

Horizontal Hydraulic Gradients

The horizontal hydraulic gradient is calculated using the following equation:

$$I = \Delta h / \Delta s$$

where:

I = horizontal hydraulic gradient,

Δh (m) = ground water elevation difference; and,

Δs (m) = separation distance

For the unconfined, bedrock aquifer, the horizontal hydraulic gradient was determined to be 0.034 to the south to southwest. Based on ground water levels measured on October 5, 2023. The estimated ground water flow direction (contours) can be found in **Figure 3B**. Additional monitoring of ground water elevations took place on April 29, 2021 and March 28, 2025. These events confirmed the ground water flow direction established in 2023. Ground water contours from all three dates are shown on **Figure 3A-3C**.

Vertical Hydraulic Gradients

The vertical hydraulic gradient was calculated using the nested monitoring wells MW25-1A and MW25-1B at the southwest portion of the Property. The vertical hydraulic gradient is calculated using the following equation:

$$I = \Delta h / \Delta s$$

where:

I = vertical hydraulic gradient,

Δh (m) = ground water elevation difference; and,

Δs (m) = difference in elevation of the centre of the well screens of the nested wells or thickness of the confining layer

	The vertical hydraulic gradient was determined to be 1.28 down between boreholes monitoring wells MW25-1A and MW25-1B based on groundwater elevations from March 28, 2025.		
iii. approximate depth to bedrock,	iii. Bedrock was encountered during the subsurface investigation of the Property. Bedrock consisted of limestone, dolostone, shale, and sandstone of the Simcoe Group, Gull River Formation. Bedrock was encountered at depths of <0.1 to 1.2 m below grade (Elev. 74.8 mASL at MW24-1 to 73.5 mASL at MW23-02)		
iv. approximate depth to water table,	iv. Based upon the ground water elevations measured throughout the investigation, the highest groundwater level was measured at El. 70.16 masl (4.76 mbgs) at monitoring well MW25-1A.		
v. any respect in which section 35, 41 or 43.1 of the regulation applies to the property,	v. Section 35 applies if	Does the Sensitivity Classification Apply to Site?	
		(i) The full depth generic site condition standards in a non-potable ground water condition	Yes
		(ii) The stratified site condition standards in a non-potable ground water condition	No
		(iii) The property, and all other properties located, in whole or in part, within 250 metres of the boundaries of the property, are supplied by a municipal drinking water system	Yes
		(iv) The record of site condition does not specify agricultural or other use as the type of property use	Yes
		(v) The property is located in an area designated in the municipal official plan as a well- head protection area or other designation identified by the municipality for the protection of ground water	No
		(vi) The property or one of the properties in the phase one study area has a well-used or intended for use as a source of water for human consumption or agriculture.	No
		(vii) A person authorized by the owner of a property has given the clerk of the municipality a written notice of intention to apply the standards in preparing a record of site condition for the property; the single tier municipality has given written notice that it does not object to the application of the standards	Yes
	Section 41 applies if	(i) The property is within an area of natural significance	No
		(ii) The property includes or is adjacent to an area of natural significance or part of such an area	No
		(iii) The property includes land that is within 30 m of an area of natural significance or part of such an area	No

		(iv) The soil at property has a pH value for surface soil less than 5 or greater than 9	No
		(v) The soil at property has a pH value for sub-surface soil less than 5 or greater than 11	No
		(vi) A qualified person is of the opinion that, given the characteristics of the property and the certifications the qualified person would be required to make in a record of site condition in relation to the property as specified in Schedule A, it is appropriate to apply this section to the property.	No
	Section 43.1 applies if	(i) The property is a shallow soil property	Yes
		(ii) The property includes all or part of a water body or is adjacent to a water body or includes land that is within 30 m of a water body	No

- The Property is located in Ottawa where municipal water drawn from a surface water source (Ottawa River) is provided to the Property and all properties within 250 m of the Property;
- Englobe contacted the Clerk of the City of Ottawa on behalf of the Client and received a letter dated March 13, 2024 permitting the use of non-potable assessment criteria (a copy is appended to the Risk Assessment report).
- Section 43.1 of the Regulation does apply to the Property as the Property is considered a shallow soil property as bedrock across the property is located at depths ranging from 0.1 to 1.2 mbgs.

vi. areas on, in or under the phase two property where excess soil is finally placed, and

vi. No soils have been imported or placed on, in or under the Property since the first site reconnaissance completed for the Phase One ESA in March 2023.

vii. approximate locations, if known, of any proposed buildings and other structures.

vii. The former dry-cleaning and laundromat building on the Property, which was situated on the southcentral and eastern portion of the Property, has been demolished. The Property undergoing a redevelopment seven (7) storey, 58-unit mid-rise apartment building with a three (3)-level underground parking garage which will cover a majority of the Site area.

The proposed building including the underground footprint of the lowest proposed parking level (P3) will occupy the majority of the Property

The excavation for the P3 parking level will extend into the bedrock.

3. Provide, where a contaminant is present on, in or under the Property at a concentration greater than the applicable site condition standard, identification of

i. each area where a contaminant is present on, in or under the Property at a concentration greater than the applicable site condition standard,

i.

Soil:

Applicable site conditions standards were met in the earth fill material and native soil located on the Phase Two Property in all boreholes with the exception of the exceedances in the following areas.

- PHC F4 Gravimetric impact was noted within MW23-01 in the soil from 0.3-0.9 m (74.97-74.37 masl) during the subsurface investigation of the property conducted in 2023.
- Barium impact was noted within MW23-01 in the soil from 0.3-0.9 m (74.97-74.37 masl) during the subsurface investigation of the property conducted in 2023.
- Lead impact was noted within MW23-04 in the soil from 0.0-0.3 m (75.77-75.47 masl) during the subsurface investigation of the property conducted in 2023.
- Sodium Adsorption Ratio impacts were noted within MW25-1A in the soil from 0.2-0.4 m (74.7-74.5 masl) during the subsurface investigation of the property conducted in 2025.*
- Lead and Electrical Conductivity impacts were noted within MW25-3 in the soil from 0.3-0.4 m (74.9-74.8 masl) during the subsurface investigation of the property conducted in 2025.*
- Sodium Adsorption Ratio impacts were noted within MW25-4A in the soil from 0.35-0.7 m (75.05-74.47 masl) during the subsurface investigation of the property conducted in 2025.*
- Copper, Lead, and Zinc impacts were noted within MW25-5 in soil from 0.4-0.6 m (75.1-74.9 masl). Sodium Adsorption Ratio impacts were noted within MW25-1A in the soil from 0.2-0.4 m (74.7-74.5 masl) during the subsurface investigation of the property conducted in 2025

Groundwater:

Applicable site condition standards were met in the groundwater located on the Phase Two Property in all boreholes with the exception of the exceedances in the following areas.

- Exceedances of the applicable SCS for PHCs, PHC F2 and PHC F3 were encountered in MW21-02 during groundwater sampling conducted April 30, 2021.
- An exceedance of the applicable SCS for PHC F1 was encountered in MW23-02 during groundwater sampling conducted August 28, 2023 and during a subsequent sampling event on November 29, 2023.
- An exceedance of the applicable SCS for Chloride was encountered in MW25-1A during groundwater sampling conducted April 17, 2025*.
- An exceedance of the applicable SCS for Chloride was encountered in MW25-2A during groundwater sampling conducted April 16, 2025*.

- An exceedance of the applicable SCS for Chloride was encountered in MW25-5 during groundwater sampling conducted April 17, 2025*.
- Exceedances of the applicable SCS for VOCs cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride were encountered in MW21-01 during groundwater sampling conducted April 30, 2021.
- Exceedances of the applicable SCS for VOCs, 1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride were encountered in MW21-02 during groundwater sampling conducted April 30, 2021.
- Exceedances of the applicable SCS for VOCs, Tetrachloroethylene, and Trichloroethylene, were encountered in MW21-03 during groundwater sampling conducted April 30, 2021 and during a subsequent sampling event on August 15, 2023.
- Exceedances of the applicable SCS for VOCs, 1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride were encountered in MW23-01 during groundwater sampling conducted August 28, 2023. A subsequent groundwater sampling event on November 28, 2023 encountered exceedances of cis-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride.
- Exceedances of the applicable SCS for VOCs, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride were encountered in MW23-02 during groundwater sampling conducted September 13, 2023. Subsequent groundwater sampling events on November 29, 2023 and January 25, 2024 encountered exceedances of cis-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride.
- Exceedances of the applicable SCS for VOCs, 1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride were encountered in MW23-03 during groundwater sampling conducted August 14, 2023.
- Exceedances of the applicable SCS for VOCs, Tetrachloroethylene, and Trichloroethylene, were encountered in MW23-04 during groundwater sampling conducted August 14, 2023.
- Exceedances of the applicable SCS for VOCs, Benzene, 1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride were encountered in MW25-1A during groundwater sampling conducted April 17, 2025.
- Exceedances of the applicable SCS for VOCs, cis-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride were encountered in MW25-1B during groundwater sampling conducted April 21, 2025.

	<ul style="list-style-type: none"> • Exceedances of the applicable SCS for VOCs, cis-1,2-Dichloroethylene, Tetrachloroethylene, and Trichloroethylene, were encountered in MW25-2A during groundwater sampling conducted April 16, 2025. • Exceedances of the applicable SCS for VOCs, cis-1,2-Dichloroethylene, Tetrachloroethylene, and Trichloroethylene, were encountered in MW25-2B during groundwater sampling conducted April 17, 2025. • Exceedances of the applicable SCS for VOCs, Benzene, cis-1,2-Dichloroethylene, Trichloroethylene, and Vinyl Chloride were encountered in MW25-4A during groundwater sampling conducted April 17, 2025. • Exceedances of the applicable SCS for VOCs, Benzene, cis-1,2-Dichloroethylene, and Vinyl Chloride were encountered in MW25-4B during groundwater sampling conducted April 21, 2025. • Exceedances of the applicable SCS for VOCs, 1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride were encountered in MW25-5 during groundwater sampling conducted April 17, 2025. • There was no evidence of free product, including but not limited to, any visible PHC film or sheen present in any ground water sample retrieved from the Property. <p>*Note: Section 49.1 paragraph 1 of the regulation is being relied upon. EC and SAR impacts were noted within the soil samples and Chloride impacts were noted in groundwater samples. Paragraph 1 of Section 49.1 of O.Reg. 153/04 states that apparent exceedances of EC and SAR in soil and sodium and chloride exceedances in groundwater are deemed not to be exceedances if the Qualified Person attributes these results to the use of de-icing salt application to surfaces for the safety of vehicular and pedestrian traffic under conditions of snow and ice or both. A review of the analytical results indicated that elevated EC and SAR in soil and Chloride exceedances in groundwater were associated with the locations of on-Site parking lots, or sidewalks and roadways on adjacent properties. As such the applicable Site condition standard for EC, SAR and Chloride are deemed not to be exceedances</p>
<p>ii. the contaminants associated with each of the areas referred to in subparagraph i,</p>	<p>ii.</p> <ul style="list-style-type: none"> • APEC 1: VOCs (1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride), PHCs (F1 [C6-C10] - BTEX, PHC F1 [C6-C10]), and PAHs (Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Dibenz[a,h]anthracene, Fluoranthene, Indeno[1,2,3-cd]pyrene, and Benzo[k]fluoranthene) • APEC 2: VOCs (1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride), PHCs (PHC F2, PHC F3, and F4 Gravimetric), Metals and Inorganics (Barium, Copper, Lead, Zinc, Sodium Absorption Ratio, Electrical Conductivity, and Chloride), PAHs

	<p>(Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Dibenz[a,h]anthracene, Fluoranthene, Indeno[1,2,3-cd]pyrene, and Benzo[k]fluoranthene), BTEX (Benzene)</p> <ul style="list-style-type: none"> • APEC 3: VOCs (1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride), PHCs (PHC F2, PHC F3, and F4 Gravimetric), Metals and Inorganics (Barium, Copper, Lead, Zinc, Sodium Absorption Ratio, Electrical Conductivity, and Chloride), BTEX (Benzene)
<p>iii. each medium in which a contaminant associated with an area referred to in subparagraph i is present,</p>	<p>iii.</p> <p>Soil:</p> <p><u>APEC 1:</u></p> <ul style="list-style-type: none"> • Metals: Lead • PAHs: Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Dibenz[a,h]anthracene, Fluoranthene, Indeno[1,2,3-cd]pyrene, and Benzo[k]fluoranthene <p><u>APEC 2:</u></p> <ul style="list-style-type: none"> • Metals and Inorganics : Barium, Copper, Lead, Zinc, Sodium Absorption Ratio, and Electrical Conductivity. • PHCs: PHC F4 Gravimetric • PAHs: Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Dibenz[a,h]anthracene, Fluoranthene, Indeno[1,2,3-cd]pyrene, and Benzo[k]fluoranthene <p><u>APEC 3:</u></p> <ul style="list-style-type: none"> • Metals and Inorganics : Barium, Copper, Lead, and Zinc. • PHCs: PHC F4 Gravimetric <p>Groundwater:</p> <p><u>APEC 1:</u></p> <ul style="list-style-type: none"> • PHC: PHC F1 (C6-C10) - BTEX, PHC F1 (C6-C10) • VOC: 1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride <p><u>APEC 2:</u></p> <ul style="list-style-type: none"> • PHC: PHC F2 (C10-C16), PHC F3 (C16-C34) • VOC: 1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride • BTEX: Benzene

APEC 3:

- PHC: PHC F2 (C10-C16), PHC F3 (C16-C34)
- VOC: 1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride
- BTEX: Benzene

There was no evidence of free product, including but not limited to, any visible PHC film or sheen present in any ground water sample retrieved from the Property.

*Note: Section 49.1 paragraph 1 of the regulation is being relied upon. EC and SAR impacts were noted within the soil samples and Chloride impacts were noted in groundwater samples. Paragraph 1 of Section 49.1 of O.Reg. 153/04 states that apparent exceedances of EC and SAR in soil and sodium and chloride exceedances in groundwater are deemed not to be exceedances if the Qualified Person attributes these results to the use of de-icing salt application to surfaces for the safety of vehicular and pedestrian traffic under conditions of snow and ice or both. A review of the analytical results indicated that elevated EC and SAR in soil and Chloride exceedances in groundwater were associated with the locations of on-Site parking lots, or sidewalks and roadways on adjacent properties. As such the applicable Site condition standard for EC, SAR and Chloride are deemed not to be exceedances

iv. a description and assessment of what is known about each of the areas referred to in subparagraph i,

iv.

1. APEC 1 covers the southeastern portion of the Phase Two Property and is the result of potential on-site sources, specifically the former dry-cleaning operation associated with the former on-Site building. The dry-cleaning chemical storage and dry-cleaning operations were observed to have occurred in the western portion of the on-Site building based on the Site reconnaissance conducted in 2023. The APEC includes the southeastern portion of the Property including the entirety of the former building footprint. The soil in the southeastern portion of the APEC is impacted with PAHs (Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Dibenz[a,h]anthracene, Fluoranthene, Indeno[1,2,3-cd]pyrene, and Benzo[k]fluoranthene) , at MW25-02A. The soil in the south-central portion of the APEC is impacted with Metals (Lead) at MW23-04. Soil sampling was not conducted on the eastern portion of the APEC as this area was occupied by the basement of the former site building which was constructed directly overtop of bedrock at the Site. As a result, there were not sufficient amounts of soil to submit for laboratory analysis beneath the eastern portion of the former Site building which had a basement (<0.1 m of soils beneath the building foundation above bedrock). Groundwater in APEC 1 is impacted with VOCs (1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride), at MW21-03, MW23-03, MW23-02, MW23-04, MW25-2A and MW25-2B, and PHCs (PHC F1 (C6-C10) - BTEX, PHC F1 (C6-C10)) at MW23-02. The exceedances are likely attributed to the former dry-cleaning building in the vicinity of aforementioned Boreholes and Monitoring Wells.

	<p>2. APEC 2 covers the northern, western and southern portions of the Phase Two Property surrounding the former Site building and is the result of de-icing activities conducted on the asphalt parking lot covered surfaces of the Property. The COPCs are EC, SAR, Sodium and Chloride. Section 49.1 paragraph 1 of the regulation is being relied upon. EC and SAR impacts were noted within the soil samples and Chloride impacts were noted in groundwater samples. Paragraph 1 of Section 49.1 of O.Reg. 153/04 states that apparent exceedances of EC and SAR in soil and sodium and chloride exceedances in groundwater are deemed not to be exceedances if the Qualified Person attributes these results to the use of de-icing salt application to surfaces for the safety of vehicular and pedestrian traffic under conditions of snow and ice or both. A review of the analytical results indicated that elevated EC and SAR in soil at MW25-4A and MW25-03 and chloride exceedances in groundwater at MW25-1A, and MW25-2A were associated with the locations of on-Site parking lots, or sidewalks and roadways on adjacent properties.</p> <p>3. APEC 3 which covers the northern portion of the Phase Two Property is the result of potential off-Site sources resulting from PCAs identified on neighbouring properties upgradient (north to northeast) of the Property. The APEC includes a northern portion of the Property. The soil in the eastern portion of the APEC is impacted with PHCs (F4 Gravimetric) at MW23-01. The native in the southern portion of the APEC is impacted with Metals (Barium, Lead, Copper, Zinc) at MW25-5, and MW23-01. Groundwater in APEC 3 is impacted with VOCs (1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride) at MW25-4A, MW25-4B, MW21-01, MW23-01, MW21-02, MW25-5, MW25-1A, MW25-1B, BTEX (Benzene) at MW25-4B, and PHCs (PHC F2 (C10-C16) and PHC F3 (C16-C34)) at MW21-02. The exceedances are likely attributed to off-Site PCAs identified north and northeast of the Phase Two Property and the aforementioned Boreholes and Monitoring Wells.</p>
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<p>v. for each parameter group as defined in the Analytical Protocol for which a contaminant has been analysed, the distribution, in each of the areas referred to in subparagraph i, of each contaminant present in the area at a concentration</p>	<p>v.</p> <p><u>Soil Exceedances:</u></p> <ul style="list-style-type: none"> - Metals and Inorganics, Barium at MW23-01 (0.3-0.9 mbgs), Copper and Zinc at MW25-5 (0.4-0.6 mbgs, and Lead at MW25-5 (0.4-0.6 mbgs), MW25-3 (0.03-0.4 mbgs), and MW23-04 (0-0.4 mbgs): <ul style="list-style-type: none"> o Horizontal delineation achieved by MW25-2A, MW25-1A, MW25-4A, MW23-03, the northern, western and southern property boundaries. o Vertical delineation was achieved by Bedrock ranging from 0.1-1.2 mbgs across the Site. - Petroleum Hydrocarbons (PHCs) F4 (Gravimetric) at MW23-01 (0.3-0.9 mbgs): <ul style="list-style-type: none"> o Lateral delineation was achieved by MW21-01, MW25-1A, MW21-02, and MW23-04. o Vertical delineation was achieved by Bedrock ranging from 0.1-1.2 mbgs across the Site. - Polycyclic Aromatic Hydrocarbons (PAHs):
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greater than the applicable site condition standard, for each medium in which the contaminant is present, together with figures showing the distribution,

- Lateral delineation was achieved by MW23-01, MW25-1A, MW23-03, and the southern property boundary
- Vertical delineation was achieved by Bedrock ranging from 0.1-1.2 mbgs across the Site.

These exceedances of the MECP Table 7 SCS in soil at the Site were all observed in the soil on Site which ranges from 0 to 1.2 mbgs or bedrock. These impacts are vertically delineated by bedrock. Though some soil samples at the Site meet the MECP Table 7 SCS, it is assumed that all the fill material across the Site is impacted. The proposed development at the Site, which includes a 58-unit mid-rise apartment building with a 3-level underground parking garage covering a majority of the Site, will result in the removal of all fill material and bedrock from the Site from property line to property line. As such, all exceedances of metals and inorganics of the Table 7 SCS will be removed from the Site to facilitate the proposed development.

Ground water Exceedances:

- Petroleum Hydrocarbons (PHCs), PHC F1 at MW23-02:
 - Lateral delineation was achieved by MW25-2A, MW25-1A, MW23-01, and MW23-04,
 - Vertical delineation was achieved by MW25-3 and MW24-1
- Petroleum Hydrocarbons (PHCs), PHC F2 and F3 at MW21-01:
 - Lateral delineation was achieved by MW25-4A, MW25-5, MW23-01, MW24-1 and the northern Property boundary. Non-Standard Delineation will be applied to address PHC F2 and PHC F3 impacts in groundwater at the Site.
 - Vertical delineation was achieved by MW25-4A, MW25-4B, and MW24-1
- Volatile Organic Compounds (VOCs) including BTEX
 - VOC impacts have been vertically delineated by MW25-3 and MW24-1. Due to the groundwater impact observed in some of the monitoring wells located on the property boundaries. Non-Standard Delineation will be applied to address VOC impacts in groundwater at the Site.

There was no evidence of free product, including but not limited to, any visible PHC film or sheen present in any ground water sample retrieved from the Property.

vi. anything known about the reason for the discharge into the natural environment of the contaminants present on, in or under the Property at a concentration

vi. The contaminants of concern (COCs) present at a concentration greater than the applicable site condition standards at the Property are likely the result of existing and/or previous activities which resulted in their discharge. Each COC may be attributed to the PCAs at the Property. Each PCA, its resulting APEC, and reason for contaminant discharge at the Property are detailed below:

1. APEC 1: The soil in the area of the APEC is impacted with Metals and Inorganics (Lead), PAHs (Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Dibenz[a,h]anthracene, Fluoranthene, Indeno[1,2,3-cd]pyrene, and Benzo[k]fluoranthene). The groundwater in the area of the APEC is impacted with VOCs (1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride), and PHCs (F1-BTEX, and F1)The QP is of the opinion that the soil and groundwater impacts are the result of potential

<p>greater than the applicable site condition standard,</p>	<p>on-site sources, specifically the dry-cleaning operation associated with the former on-Site building (PCA #37).</p> <ol style="list-style-type: none"> 2. APEC 2: The soil in the vicinity of APEC 2 APEC is impacted with Metals and Inorganics (Barium, Copper, Lead, Zinc, Sodium Absorption Ratio, and Electrical Conductivity), PHCs: (F4 Gravimetric) and PAHs (Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Dibenz[a,h]anthracene, Fluoranthene, Indeno[1,2,3-cd]pyrene, and Benzo[k]fluoranthene). Groundwater in the vicinity of APEC 2 is impacted with PHCs (F2 (C10-C16) and F3 (C16-C34)), VOCs (1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride), BTEX (Benzene) and Inorganics (Chloride). The QP is of the opinion that the soil and groundwater impacts of SAR, EC and Chloride impacts are likely the result of potential on-site sources, specifically application of de-icing salts for the purposes of vehicular and pedestrian safety in the winter months for which Section 49.1 paragraph 1 of the regulation is being relied upon. The QP is of the opinion that the soil and groundwater impacts of VOCs, PHCs, PAHs, BTEX and Metals are likely the result of both on and off-Site PCAs captured by APEC 1 and APEC 3 respectively due to the overlapping of the APEC areas on the Site. 3. APEC 3: The soil in the vicinity of the APEC is impacted with Metals and Inorganics (Barium, Copper, Lead, Zinc, and Sodium Absorption Ratio) and PHCs (F4 Gravimetric). Groundwater in the vicinity of APEC 2 is impacted with PHCs (F2 (C10-C16), and F3 (C16-C34)), VOCs (1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride), BTEX (Benzene), and Inorganics (Chloride). The QP is of the opinion that soil and groundwater impacts of SAR and Chloride are due to the overlapping of APEC 3 with APEC 2 on-Site as described above. It is the opinion of the QP that the presence of the remaining impacts within the APEC are is due to a combination of on-Site sources including PCA 37 - Operation of Dry-Cleaning equipment on-Site due to the overlap of areas between APEC 1 and APEC 3, and off-Site sources upgradient of the Site including; PCA 31 - Ink Manufacturing, Processing and Bulk Storage; PCA 33 - Metal Treating, Coating, plating and finishing; PCA 28 - Gasoline and associated products storage in fixed tanks; PCA 37 - Operation of Dry-cleaning equipment; and PCA 10: Commercial Auto Body Shops.
<p>vii. anything known about migration away from any area of potential environmental concern of the contaminants present on, in or under the</p>	<p>vii. No horizontal migration of Metals, PHC, and PAHs in soil is observed on the Property based on the delineation completed in the boreholes advanced onsite. Horizontal delineation of Metals and PAHs has been achieved in the soil in part to the property lines. However, it is unlikely for the observed Metals, PHC, and PAHs contaminants to migrate horizontally within the soil in the absence of ground water.</p> <p>No vertical migration of Metals, PHC, and PAHs contaminants of concern in soil is observed on the Property based on the delineation completed in the boreholes advanced it is unlikely for the observed Metals, PHC, and PAH contaminants to migrate vertically within through bedrock.</p>

<p>Property at a concentration greater than the applicable site condition standard, including the identification of any preferential pathways,</p>	<p>The groundwater PHC contamination identified at MW23-02 has have been vertically and horizontally delineated using monitoring wells that are from within the same aquifer, namely MW25-2A, MW25-1A, MW23-01, MW23-04, MW25-3 and MW24-1.</p> <p>Groundwater PHC contamination at MW21-01 have been vertically delineated using monitoring wells that are from within the same aquifer, namely MW25-3 and MW24-1. Horizontal delineation was achieved using monitoring wells that are from within the same aquifer, namely MW25-4A, MW25-5, MW23-01, and the northern property boundary. Due to the groundwater impact observed in some of the monitoring wells located near the northern property boundary the Phase Two CSM will apply non-Standard delineation to address horizontal extents of these PHC impacts in groundwater at the Site.</p> <p>Groundwater VOC including BTEX contamination have been vertically delineated by MW25-3 and MW24-1. Due to the groundwater impact observed in some of the monitoring wells located on the property boundaries the Phase Two CSM will apply non-Standard delineation to address horizontal extents of VOC including BTEX impacts in groundwater at the Site.</p>
<p>viii. climatic or meteorological conditions that may have influenced distribution and migration of the contaminants, such as temporal fluctuations in ground water levels, and</p>	<p>viii.</p> <p>VOCs, PHCs and BTEX were identified as COCs within the ground water on the Property at MW21-03, MW23-03, MW25-5, MW21-02, MW25-4A, MW25-4B, MW21-01, MW23-01, MW25-1A, MW25-1B, MW23-02, MW25-2A, MW25-2B, and MW23-04. Results from ground water samples taken at MW25-3 and MW24-1, which are screened within the bedrock, show that the vertical migration of these VOC parameters is unlikely. Horizontal migration of these contaminants is also unlikely to be affected by climatic or meteorological effects. Due to the depth to ground water at the Property, it is unlikely that seasonal fluctuations in ground water levels would influence the distribution and migration of COCs.</p> <p>Metals, PHCs, and PAHs were identified as COCs within the soil at the Property. The migration of these Metals, PHC, and PAH parameters may potentially be affected by infiltration, which may cause an increase in the vertical migration. However, due to the depth of bedrock (0.1-1.2 mbgs), it is unlikely that the contaminants would vertically migrate to the aquifer. Moreover, Metals and PAHs were not identified as COCs within the ground water at the Property. Horizontal migration of these contaminants is unlikely to be affected by climatic or meteorological effects. Due to the depth to ground water at the Property, it is unlikely that seasonal fluctuations in ground water levels would influence the distribution and migration of COCs.</p> <p>The majority of the Property will be covered by the building and any portions of the property not covered by the building will be covered by hard and/or fill surface cap. Future climatic or meteorological influence from adverse weather events on the migration of soil and ground water contamination on the Property is expected to be minimal due to limited infiltration and depth to ground water found within the bedrock (4.76 mbgs).</p>
<p>ix. if applicable, information</p>	<p>ix.</p>

concerning soil vapour intrusion of the contaminants into buildings including,

A. relevant construction features of a building, such as a basement or crawl space,

B. building heating, ventilating and air conditioning design and operation, and

C. subsurface utilities.

- A. The Property was previously developed with a dry-cleaner, one commercial-use building with one partial basement level, and an at-grade parking lot. The future development at the Property proposes one (1) 7-storey residential building with three (3) levels of underground parking.
- B. Future HVAC systems present in any future building on the property may affect the distribution and transport of contamination. The details for each component are shown below:

Heating: Depending on the method of heat distribution within the future building, the systems may provide a significant transport pathway for the potential volatile contaminants of concern.

Ventilation: the future building ventilation systems may be passive or active in nature and may pose a potential transport pathway for the volatile contaminants of concerns in the air.

Air Conditioning: Distribution may involve ventilation ducts, which may result in the migration of air within the building across the site.

It is common for the bedding surrounding underground utilities to provide a preferential pathway for ground water and as such act as a potential method of migration for ground water contamination. The underground utilities at the Property include connections to municipal storm and sanitary sewers, watermains, underground hydro, fiber optic cables/communication cables, and gas mains.

Soil at the Property has been identified to be impacted with Metals, PHCs, and PAHs whereas VOCs, and PHCs have been identified in the Property's ground water. Soil vapour intrusion is considered to be possible for the volatile COCs identified as detailed below:

Metals

Barium, Copper, Lead and Zinc were identified as a COCs in the soil on the Property. Metal parameters are not considered volatile and are not considered contribute to the potential sub-slab vapour intrusion into buildings.

PHCs

F4 Gravimetric was identified as a COC in soil on the Property. PHC F4 is not considered to contribute to the potential sub-slab vapour intrusion into buildings. PHC F1 (C6-C10) minus BTEX, PHC F1 (C6-C10), F2 (C10-C16), and PHC F3 (C16-C34) were identified as COCs in the soil on the Property. PHC F1 (C6-C10) minus BTEX, PHC F1 (C6-C10) and F2 (C10-C16) may contribute to the potential sub-slab vapour intrusion into buildings based on MECP consideration of Henry's Law Constant and vapour pressure.

PAHs

Anthracene, Benz[a]anthracene, Benzo[a]pyrene, Benzo[b]fluoranthene, Dibenz[a,h]anthracene, Fluoranthene, Indeno[1,2,3-cd]pyrene, and Benzo[k]fluoranthene were identified as COCs in the soil on the Property. Anthracene may contribute to the potential sub-slab vapour intrusion into future buildings based on MECP consideration of Henry's Law Constant and vapour pressure.

VOCs

1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and Vinyl Chloride were identified as COCs in the groundwater on the Property. These compounds may contribute to the potential sub-slab vapour intrusion into buildings based on MECP consideration of Henry's Law Constant and vapour pressure.

BTEX

Benzene was identified as COCs in the groundwater on the Property. Benzene may contribute to the potential sub-slab vapour intrusion into buildings based on MECP consideration of Henry's Law Constant and vapour pressure.

4. Provide, where contaminants on, in or under the Property are present at concentrations greater than the applicable site condition standard, two or more cross-sections showing, by parameter group as defined in the Analytical Protocol for which a contaminant has been analysed,

i. the lateral and vertical distribution of each contaminant in each area where the contaminant is present at a concentration greater than the applicable site condition standard in soil, ground water and sediment,

i. the lateral and vertical distribution of each contaminant is provided in the following Figures as follows:

- Figure 6A Soil Exceedances - Plan View - PHCs
- Figure 6B Soil Exceedances - Cross Section A-A' - PHCs
- Figure 6C Soil Exceedances - Cross Section B-B' - PHCs
- Figure 7A Soil Exceedances - Plan View - VOCs including BTEX
- Figure 7B Soil Exceedances - Cross Section A-A' - VOCs including BTEX
- Figure 7C Soil Exceedances - Cross Section B-B' - VOCs including BTEX
- Figure 8A Soil Exceedances - Plan View - Metals, Inorganics and HFMs
- Figure 8B Soil Exceedances - Cross Section A-A' - Metals, Inorganics and HFMs
- Figure 8C Soil Exceedances - Cross Section B-B' - Metals, Inorganics and HFMs
- Figure 9A Soil Exceedances - Plan View - PAHs
- Figure 9B Soil Exceedances - Cross Section A-A' - PAHs
- Figure 9C Soil Exceedances - Cross Section B-B' - PAHs
- Figure 10A Ground Water Exceedances - Plan View - PHCs
- Figure 10B Ground Water Exceedances - Cross Section A-A' - PHCs
- Figure 10C Ground Water Exceedances - Cross Section B-B' - PHCs
- Figure 11A Ground Water Exceedances - Plan View - VOCs including BTEX
- Figure 11B Ground Water Exceedances - Cross Section A-A' - VOCs including BTEX

Figure 11C Ground Water Exceedances - Cross Section B-B' - VOCs including BTEX

Figure 12A Ground Water Exceedances - Plan View - Metals, Inorganics and HFMs

Figure 12B Ground Water Exceedances - Cross Section A-A' - Metals, Inorganics and HFMs

Figure 12C Ground Water Exceedances - Cross Section B-B' - Metals, Inorganics and HFMs

Figure 13A Ground Water Exceedances - Plan View - PAHs

Figure 13B Ground Water Exceedances - Cross Section A-A' - PAHs

Figure 13C Ground Water Exceedances - Cross Section B-B' - PAHs

ii. approximate depth to water table in each area referred to in subparagraph i,

ii. Based on ground water readings measured on April 22, 2021 and April 9, 2025, the depth to ground water in the bedrock aquifer ranged was as follows:

Sample Location	Elevation at ground surface (masl)	Measurement Date (dd/mm/yyyy)	Groundwater Depth (m bgs)	Groundwater Elevation (masl)
MW21-01	75.423	22/04/2021	10.92	64.50
		29/04/2021	6.46	68.96
		05/10/2023	6.07	69.35
MW21-02	75.457	29/04/2021	6.80	68.66
		08/15/2023	5.65	69.81
		05/10/2023	6.68	68.78
MW21-03	75.416	22/04/2021	10.83	64.59
		29/04/2021	6.92	68.50
		15/08/2023	6.71	68.71
MW23-01	75.268	14/08/2023	5.89	69.38
		28/08/2023	7.00	68.27
		05/10/2023	6.47	66.80
		28/11/2023	13.57	61.70
		07/04/2025	11.95	63.32
		09/04/2025	12.55	62.72
MW23-02	73.571	14/08/2023	3.90	69.67
		28/08/2023	4.60	68.97
		13/09/2023	3.90	69.67
		28/11/2023	4.83	68.74
		25/01/2024	3.9	69.67
MW23-03	75.923	14/08/2023	6.20	69.72
		28/08/2023	6.89	69.03
MW23-04	75.752	14/08/2023	5.90	69.85
		05/10/2023	6.79	68.96
		07/04/2025	5.52	70.23
		09/04/2025	5.62	70.13
MW24-1	75.376	01/24/2024	11.44	63.94
		01/25/2024	11.33	64.05

			07/04/2025	11.14	64.24
			09/04/2025	21.30	54.08
MW25-1A	74.922		28/03/2025	5.31	69.61
			01/04/2025	4.76	70.16
			07/04/2025	4.86	70.06
			09/04/2025	4.90	70.02
MW25-1B	74.912		28/03/2025	11.39	63.52
			01/04/2025	11.52	63.39
			07/04/2025	11.50	63.41
			09/04/2025	11.47	63.44
MW25-2A	75.942		28/03/2025	6.40	69.54
			01/04/2025	5.63	70.31
			07/04/2025	5.76	70.18
			09/04/2025	5.78	70.16
MW25-2B	75.903		28/03/2025	7.10	68.80
			01/04/2025	6.85	69.05
			07/04/2025	6.28	69.62
			09/04/2025	5.84	70.06
MW25-3	75.154		28/03/2025	8.42	66.73
			01/04/2025	8.60	66.55
			07/04/2025	12.62	62.53
			09/04/2025	13.53	61.62
MW25-4A	75.322		28/03/2025	5.97	69.35
			01/04/2025	5.45	69.87
			07/04/2025	5.46	69.86
			09/04/2025	5.40	69.92
MW25-4B	75.357		28/03/2025	13.59	61.77
			01/04/2025	13.62	61.74
			07/04/2025	13.66	61.70
			09/04/2025	14.00	61.36
MW25-5	75.53		28/03/2025	6.16	69.38
			01/04/2025	5.58	69.96
			07/04/2025	5.60	69.94
			09/04/2025	5.60	69.94

Based on measured groundwater elevation data, The QP is of the opinion that the groundwater conditions observed on April 29, 2021, October 5, 2023, and March 28, 2025 are the most representative of the stabilized groundwater elevations at the Site accounting for temporal and seasonal variation across multiple years. Based on the stabilized groundwater elevations observed on these dates the flow direction of the shallow aquifer on the Site is toward the south-southwest. Groundwater flow direction contour figures are attached as Figure 3A, 3B, and 3C.

While fluctuations in water table elevation have undoubtedly occurred over time due to climatic or meteorological changes, it is expected that these fluctuations would have been regional in nature. Given the effectively immobile nature of the identified soil contaminants, it is not expected that climatic or meteorological changes would have significantly affected migration of contaminants at the Site. Additionally, based on several rounds of water level measurements, water table

	fluctuations are less than 1 m. This would not exert a strong influence on the migration of the VOCs in groundwater. It could result in some vertical “smearing” of the impacts in ground water.
iii. stratigraphy from ground surface to the deepest aquifer or aquitard investigated, and	iii. Stratigraphy in cross-sectional view is provided on Figures 6B, 6C, 7B, 7C, 8B, 8C, 9B, 9C, 10B, 10C, 11B, 11C, 12B, 12C, 13B, and 13C.
iv. any subsurface structures and utilities that may affect contaminant distribution and transport in each area referred to in subparagraph i.	<p>There was one building on the Property that is serviced with municipal water via underground pipes. The building was serviced with below ground gas lines and municipal sanitary sewers.</p> <p>In May 2025, the former Site building, its associated underground structures and the service garage building were all demolished.</p> <p>Based on the depth of the COCs observed at the Property, it is concluded that former buried utilities and structures could have serve as preferential pathways for the migration of COCs.</p>

5. Provide, for each area where a contaminant is present on, in or under the property at a concentration greater than the applicable site condition standard for the contaminant, a diagram identifying, with narrative explanatory notes,

i. the release mechanisms,	<p><u>Potential Exposure Pathways and Receptors</u></p> <p>The proposed future use of the Property is a mix of commercial and residential use. The surrounding land use consists of residential, and commercial use.</p> <p>A description of the (i) release mechanisms, (ii) contaminant transport pathway, and (iii, iv, v) receptors at the Property are depicted in Figures 15 - Ecological Conceptual Site Model and Figure 14 - Human Health Conceptual Site Model. These figures depict the release mechanisms, contaminant transport pathways, human and ecological receptors, receptor exposure points and routes of exposure for the COCs identified on, in or under the Phase Two Property.</p> <p><u>Human Exposure Pathways</u></p> <p>The following presents the human receptors and pathways:</p> <ul style="list-style-type: none"> • Direct contact with soil (via incidental ingestion and dermal contact) and exposure by a resident, subsurface worker, and outdoor worker (on-Site); • Inhalation of soil particulates and exposure by residents(on-Site), subsurface worker, outdoor worker, and property visitors (on-and off-Site); • Inhalation of vapour in indoor air sourced from soil and groundwater and exposure by an indoor worker (on and off-Site), resident (on and off-Site) and property visitor (on and off-Site); • Inhalation of vapour in outdoor air sourced from soil and groundwater and exposure by residents(on and off-Site), property visitor (on and off-Site), subsurface worker, and outdoor worker(on-and off-Site);
ii. contaminant transport pathway,	
iii. the human and ecological receptors located on, in or under the Property,	
iv. receptor exposure points, and	
v. routes of exposure.	

- Inhalation of vapour in trench air sourced from soil and ground water and exposure by a subsurface worker (on-and off-Site);
- Based on the depth to groundwater at the Site and the non-potable nature of the Stie direct contact with groundwater (via incidental ingestion and dermal contact) and exposure by a subsurface worker (on-and off-Site) is not considered to be a complete pathway;
- Vapour skin contact was considered to be a complete exposure pathway for all receptors however was considered to be negligible; and

Ecological Exposure Pathways

The following presents the ecological receptors and pathways:

- Direct contact with soil (via dermal contact and ingestion) by mammals and birds however dermal contact was considered to be negligible;
- Direct contact with soil and exposure by soil invertebrates and plants (root uptake);
- Indirect contact with soil (via ingestion of vegetation and/or prey that have accumulated COCs from soil and exposure by mammals and birds);
- Inhalation of vapours sourced from soil by mammal and birds was considered to be a complete but negligible exposure pathway;
- Inhalation of soil particles by mammals and birds was considered to be a complete but negligible exposure pathway;
- Stem/foliar uptake of vapours sourced from soil by plants was considered to be a complete but negligible exposure pathway;
- Stem/foliar deposition of soil particles and subsequent uptake by plants was considered to be a complete but negligible exposure pathway;
- Based on the depth to groundwater at the Site and the location of groundwater within bedrock contact with ecological receptors was assumed to be incomplete.
- Potential discharge of ground water to the Ottawa River located approximately 650 m west-northwest of the Site was evaluated for off-Site aquatic receptors and reptiles and amphibians but assumed to be incomplete due to the distance to the waterbody.

6. If a non-standard delineation was conducted in accordance with section 7.1 of this Schedule as part of preparing the phase two environmental site assessment report, provide a narrative description of how the non-standard delineation

6.

Non-Standard Lateral Delineation of VOCs including BTEX in Groundwater

The following groundwater samples exceeded the applicable site condition standards for Benzene, 1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Tetrachloroethylene, Trichloroethylene, and/or Vinyl Chloride, as illustrated on the plan view, **see Figure 11:**

Sample			MW21-01	MW21-02	MW21-03		MW23-01	
Date			30-Apr-21	30-Apr-21	30-Apr-21	15-Aug-23	28-Aug-23	28-Nov-23
Screen Interval (mbgs)			8.1-11.1	7.0-10.0	9.8-12.8		13.5-16.5	
Parameter	Units	MECP T7 RPI	Result	Result	Result	Result	Result	Result
Benzene	µg/L	0.5	<0.2	<0.2	<0.2	<0.17	0.22	0.25
1,1-Dichloroethylene	µg/L	0.5	<0.2	0.66	<0.2	<0.2	1.2	<0.2
Cis-1,2-Dichloroethylene	µg/L	1.6	220	860	1.5	<0.5	630	40
Trans-1,2-Dichloroethylene	µg/L	1.6	3.7	12	<0.5	<0.5	4.7	0.69
Tetrachloroethylene	µg/L	0.5	930	890	32	2.4	13	0.57
Trichloroethylene	µg/L	0.5	100	160	2	0.72	110	1.2

satisfies the requirements in that section.

Vinyl Chloride	µg/L	0.5	7	31	<0.2	<0.2	100	7.3
Sample			MW23-11 (DUP of MW23-01)	MW23-02			MW23-03	MW25-1A
Date			28-Aug-23	13-Sep-23	29-Nov-23	25-Jan-24	14-Aug-23	17-Apr-25
Screen Interval (mbgs)			13.5-16.5	6.0-9.0			6.2-9.2	7.0-10.0
Parameter	Units	MECP T7 RPI	Result	Result	Result	Result	Result	Result
Benzene	µg/L	0.5	<0.17	<0.2	<0.17	<0.2	<0.2	0.57
1,1-Dichloroethylene	µg/L	0.5	1.2	<0.2	0.25	<0.2	2	0.61
Cis-1,2-Dichloroethylene	µg/L	1.6	590	16	33	27	940	300
Trans-1,2-Dichloroethylene	µg/L	1.6	4.6	1.7	0.94	1.4	14	4.5
Tetrachloroethylene	µg/L	0.5	12	720	1400	730	9.6	120
Trichloroethylene	µg/L	0.5	110	44	120	51	23	98
Vinyl Chloride	µg/L	0.5	100	0.96	4	3.2	88	41

Sample			MW25-1B	MW25-2A	DUP250416 (Dup of MW25-2A)	MW25-2B	MW25-4A	MW25-4B
Date			21-Apr-25	16-Apr-25	16-Apr-25	17-Apr-25	21-Apr-25	21-Apr-25
Screen Interval (mbgs)			12.2-15.2	7.0-10.0		11.9-14.9	7.0-10.0	11.9-14.9
Parameter	Units	MECP T7 RPI	Result	Result	Result	Result	Result	Result
Benzene	µg/L	0.5	<0.17	0.33	0.28	<0.17	0.91	0.65
1,1-Dichloroethylene	µg/L	0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Cis-1,2-Dichloroethylene	µg/L	1.6	50	11	11	5.4	210	24
Trans-1,2-Dichloroethylene	µg/L	1.6	0.93	1.1	1.1	1.1	1.5	<0.5
Tetrachloroethylene	µg/L	0.5	2.2	39	31	17	0.25	<0.2
Trichloroethylene	µg/L	0.5	4.9	25	23	5.3	0.51	0.47
Vinyl Chloride	µg/L	0.5	0.7	0.22	<0.2	<0.2	60	5

Sample			MW25-5	MW23-04
Date			17-Apr-25	14-Aug-23
Screen Interval (mbgs)			7.0-10.0	4.5-7.5
Parameter	Units	MECP T7 RPI	Result	Result
Benzene	µg/L	0.5	<0.17	<0.17
1,1-Dichloroethylene	µg/L	0.5	0.62	<0.2
Cis-1,2-Dichloroethylene	µg/L	1.6	390	<0.5
Trans-1,2-Dichloroethylene	µg/L	1.6	8.4	<0.5
Tetrachloroethylene	µg/L	0.5	1.1	8.4
Trichloroethylene	µg/L	0.5	5.7	0.65
Vinyl Chloride	µg/L	0.5	95	<0.2

The vertical delineation of the abovementioned VOC groundwater exceedances was achieved by MW25-3 and MW24-1 and depicted on **Figures 11B and 11C** of the drawing set.

The area of VOC groundwater impacts is bounded laterally as follows;

- North: North Property Boundary
- East: East Property Boundary

- West: West Property Boundary
- South: South Property Boundary

Lateral delineation was not achieved in any direction. The application of non-standard delineation is requested based on the following:

- It was determined that APEC 1, and APEC 3, which cover a majority of the Property, are associated with VOC contamination. VOCs were assessed at worst case locations (based on field screening) and/or at depths where impacts were identified during various field investigations including, but not limited to, former dry-cleaning building, and the northern property boundary affected by upgradient off-Site PCAs.
- A sufficient number of samples were analysed within the aforementioned APECs in order to appropriately assess the groundwater conditions within each APEC and throughout the Property.
- The Site is currently vacant, and the Risk Assessment will have measures in place to control the contaminants encountered below the base of excavation for the proposed building.
- The QP is of the opinion that the maximum concentration of VOCs was obtained, and further delineation would not provide meaningful information that would impact the conclusions of the Risk Assessment.

Non-Standard Lateral Delineation of PHC F2 & PHC F3 in Groundwater

The following groundwater samples exceeded the applicable site condition standards for PHCs, PHC F2 and PHC F3, as illustrated on the plan view, **see Figure 10**.

Sample			MW21-02
Date			30-Apr-21
Screen Interval (mbgs)			7.0-10.0
Parameter	Units	MECP T7 RPI	Result
PHC F2	µg/L	150	370
PHC F3	µg/L	500	750

The vertical delineation of the abovementioned PHC groundwater exceedances was achieved by MW25-4A, MW25-4B, and MW24-1 and depicted on **Figures 10B and 10C** of the drawing set.

The area of PHC groundwater impacts is bounded laterally as follows;

- North: North Property Boundary
- East: MW24-4A, MW23-01, MW24-1
- West: MW25-5
- South: MW23-01, MW25-5, MW24-1

Lateral delineation was not achieved to the north. The application of non-standard delineation is requested based on the following:

- It was determined that APEC 3, which covers the entire northern portion of the Property, is associated with PHC contamination from off-Site sources upgradient (north/northeast) of

	<p>the Property. The direction of groundwater flow at the Site was measured to be south to southwest based on multiple rounds of groundwater level observations accounting for temporal and seasonal variation. Under the groundwater flow regime at the Site, off-Site sources of PHC contamination are present north/northeast of the Site.</p> <ul style="list-style-type: none"> • PHCs were assessed at worst case locations (based on field screening) and/or at depths where impacts were identified during various field investigations including, but not limited to, downgradient of off-Site PCAs with the potential to cause PHC contamination, and the northern property boundary affected by upgradient off-Site PCAs. • A sufficient number of samples were analysed within the aforementioned APECs in order to appropriately assess the groundwater conditions within each APEC and throughout the Property. • The Site is currently vacant, and the Risk Assessment will have measures in place to control the contaminants encountered below the base of excavation for the proposed building. • The QP is of the opinion that the maximum concentration of PHC F2 and PHC F3 was obtained, and further delineation would not provide meaningful information that would impact the conclusions of the Risk Assessment.
<p>7. If the exemption set out in paragraph 1 or 2 of section 49.1 of the regulation is being relied upon, provide a statement as to the reliance upon the exemption and a narrative description of the rationale for relying upon the exemption, which may be based on information gathered during the site investigation.</p>	<p>7. Section 49.1 paragraph 1 of the regulation is being relied upon. EC and SAR impacts were noted within the soil samples and Chloride impacts were noted in groundwater samples. Paragraph 1 of Section 49.1 of O.Reg. 153/04 states that apparent exceedances of EC and SAR in soil and sodium and chloride exceedances in groundwater are deemed not to be exceedances if the Qualified Person attributes these results to the use of de-icing salt application to surfaces for the safety of vehicular and pedestrian traffic under conditions of snow and ice or both. A review of the analytical results indicated that elevated EC and SAR in soil and Chloride exceedances in groundwater were associated with the locations of on-Site parking lots, or sidewalks and roadways on adjacent properties. As such the applicable Site condition standard for EC, SAR and Chloride are deemed not to be exceedances</p>
<p>8. If the exemption set out in paragraph 3 of section 49.1 of the regulation is being relied upon, provide,</p>	
<p>i. a statement as to the reliance</p>	<p>i. Not Applicable</p>

upon the exemption,	
ii. a narrative description of the rationale for relying upon the exemption, which may be based on information gathered during the site investigation, and	ii. Not Applicable
iii. one or more cross-sections and one or more figures in plan view of the Property that demonstrate, through identification of sample locations, sample depths and contaminant concentrations, the distribution of the contaminant in question laterally and vertically and the range of concentrations of that contaminant on, in or under the Property.	iii. Not Applicable

CONCLUSION

It is the opinion of the QP_{ESA-RA} that contaminant delineation is complete in accordance with O. Reg. 153/04 as amended. Therefore, no further subsurface investigation is required in relation to assessing the environmental quality of soil and ground water at the Phase Two Property. A Record of Site Condition based on a Risk Assessment may be filed on the Environmental Registry with the information provided in the Phase Two CSM.

Figures




eNGLOBE



Note

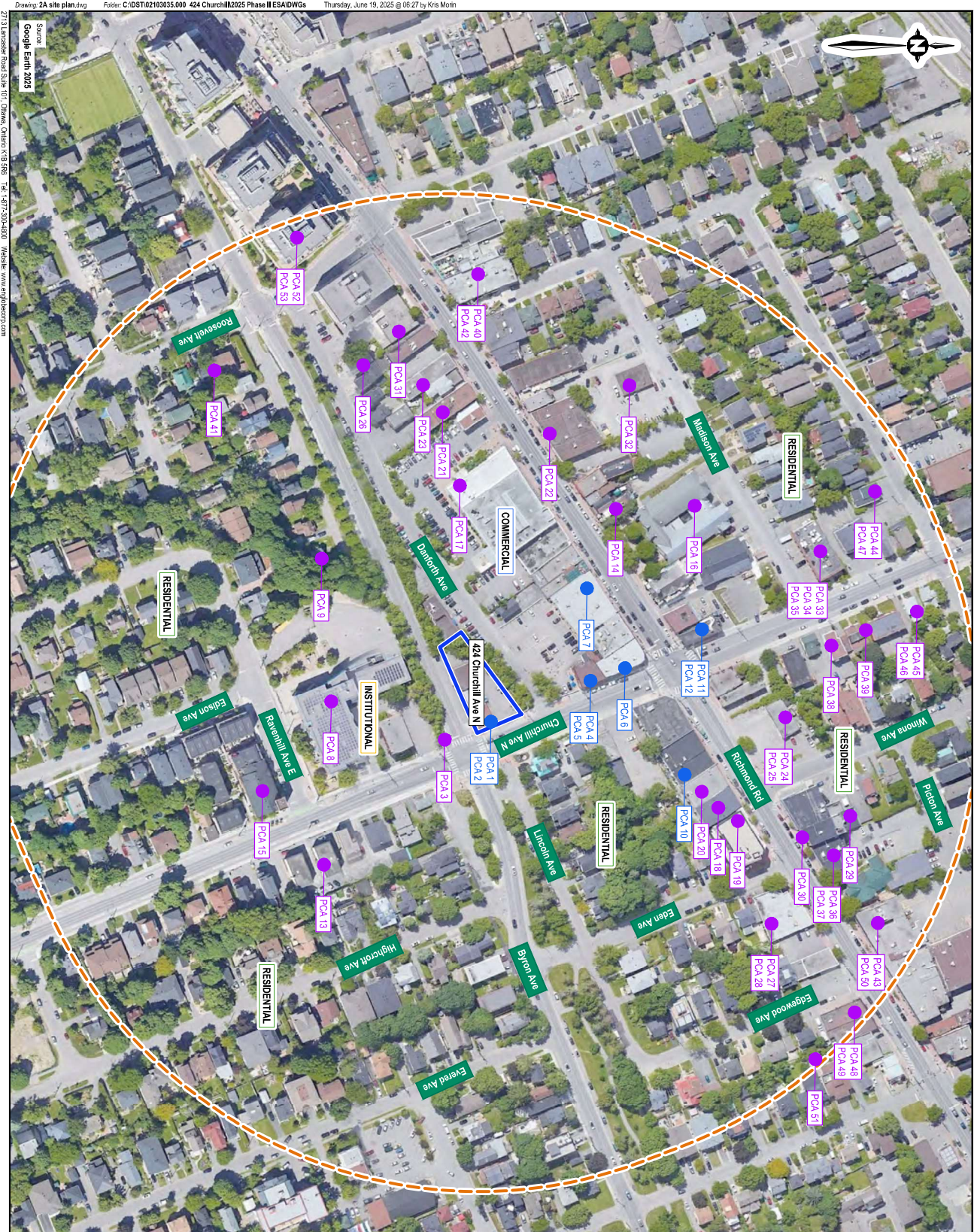
- 1. This drawing shall be read in conjunction with the associated technical report.


E	06/19/2025	Preliminary	
Revision	Date	Issue	Approval

Client Churchill Properties Inc.		Site 424 Churchill Avenue North, Ottawa, ON	
	Report Title Phase Two Environmental Site Assessment	Designed By C.O.	Date June 2025
	Drawing Title Site Location Map	Drawn By K.M.	Project No. 02103035.000
		Approved By	Figure No. 1
		Scale As shown	

Drawing: 1 site location.dwg Folder: C:\DST\02103035.000 424 Churchill\025 Phase II ESA\DWGS Thursday, June 19, 2025 @ 06:25 by Kris Morin

27131 University Road Suite 101, Ottawa, Ontario K1S 5R6 Tel: 437-230-8800 Website: www.engagecorp.com





Note

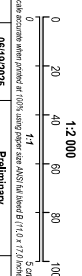
- This drawing shall be read in conjunction with the associated technical report.
- Refer to Fig. 2B for PCA details.

Legend

- Phase One, Phase Two and Record of Site Condition (RSO) Property Boundary
- Phase One Study Area
- Potentially Contaminating Activity
- Potentially Contaminating Activity Contributing to APEC

Scale

1:2,000



Scale accurate when printed at 100% magnification. Size: A3 (11.7 x 16.5 inches).

Client	Churchill Properties Inc.		
Site	424 Churchill Avenue North, Ottawa, ON		
Report Title	Phase Two Environmental Site Assessment		
Drawing Title	Potentially Contaminating Activities (PCAs)		
Designed By	C.O.	Scale	As shown
Drawn By	K.M.	Date	June 2025
Approved By		Project No.	02103035.000
Figure No.	2A		

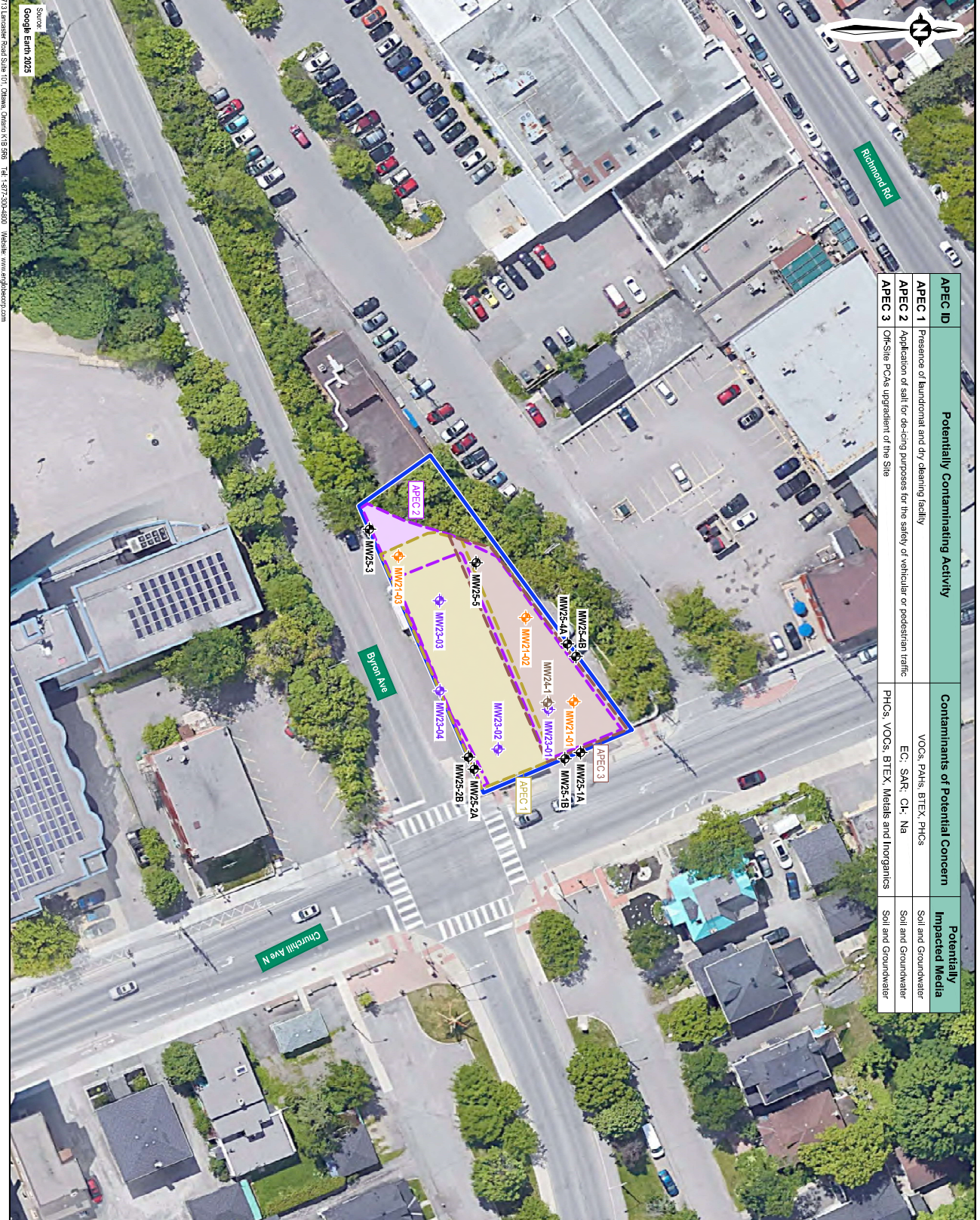
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PCA ID	O.Reg 153/04 PCA No.	PCA Property Address	Historical and/or Current Activities
PCA 1	37 - Operation of dry cleaning equipment (where chemicals are used)	424 Church Hill Avenue North	Presence of laundromat and dry cleaning facility
PCA 2	Underdefined PCA - Application of salt for de-icing purposes for the safety of vehicular or pedestrian traffic	424 Church Hill Avenue North	Application of salt for de-icing purposes for the safety of vehicular or pedestrian traffic
PCA 3	46 - Rail yards, tracks and spurs	Byron Avenue	Historical presence of an electric rail line right of way
PCA 4	31 - Ink manufacturing, processing and bulk storage	412 Church Hill Avenue North	Historical presence of commercial printers (Westboro Printers Ltd. from 1965 to 1996)
PCA 5	33 - Metal treatment, coating, plating and finishing	412 Church Hill Avenue North	Historical presence of a plate making and engraver workshop (Alber & Son Engravers)
PCA 6	28 - Gasoline and associated products storage in fixed tanks	408 Church Hill Avenue North	Record of 3000 Gallon fuel oil UST in 1968
PCA 7	37 - Operation of dry cleaning equipment (where chemicals are used)	354 Richmond Road	Historical presence of dry cleaner
PCA 8	28 - Gasoline and associated products storage in fixed tanks	345 Rawenhill Avenue	Record of 3000 Gallon bunker oil UST in 1961
PCA 9	Underdefined PCA - Spill	518 Byron Avenue	Historic 400 L kerosene oil spill
PCA 10	31 - Ink manufacturing, processing and bulk storage	322 Richmond Road	Valberg Imaging
PCA 11	10 - Commercial antibody shops	337 Richmond Road	Record of motor vehicle repair shops (Westboro Police Village) including record of heavy equipment storage
PCA 12	Underdefined PCA - Salt storage	337 Richmond Road	Record of salt and sand storage
PCA 13	28 - Gasoline and associated products storage in fixed tanks	448 Church Hill Avenue North	Record of historic fuel oil UST, previously leaking and removed in 1973
PCA 14	37 - Operation of dry cleaning equipment (where chemicals are used)	357 Richmond Road	Record of laundries and cleaners (superior services store)
PCA 15	28 - Gasoline and associated products storage in fixed tanks	450 Church Hill Avenue North	Record of 3000 Gallon fuel oil UST in 1968
PCA 16	28 - Gasoline and associated products storage in fixed tanks	347 Richmond Road	Record of 1000 Gallon fuel oil AST in concrete bunker in 1953
PCA 17	28 - Gasoline and associated products storage in fixed tanks	372 Richmond Road	Historical presence of gasoline service station
PCA 18	37 - Operation of dry cleaning equipment (where chemicals are used)	312 Richmond Road	Record of laundries and cleaners (Cody's Cleaners)
PCA 19	10 - Commercial antibody shops	300 Richmond Road	Historic records of auto body garages
PCA 20	54 - Textile manufacturing and processing	314 Richmond Road	Cut and sew clothing manufacturing
PCA 21	37 - Operation of dry cleaning equipment (where chemicals are used)	384 Richmond Road	Record of laundries and cleaners (Palmer Cleaners)
PCA 22	10 - Commercial antibody shops	371 Richmond Road	Record of motor vehicle repair shops (Westboro Motor Sales Ltd.)
PCA 23	Underdefined PCA - Spill	388 Richmond Road	Historic records of fuel spills
PCA 24	28 - Gasoline and associated products storage in fixed tanks	319 Richmond Road	Historical presence of gasoline service station with USTs
PCA 25	10 - Commercial antibody shops	319 Richmond Road	Historical presence of general automotive repair shop in 2013 (Avenues Garage Ltd.)
PCA 26	Underdefined PCA - Spill	389 Danforth Avenue	Historical record of fuel spill of unknown volume
PCA 27	28 - Gasoline and associated products storage in fixed tanks	298 Richmond Road	Two records of 2 fuel oil USTs
PCA 28	10 - Commercial antibody shops	298 Richmond Road	Record of motor vehicle repair shop
PCA 29	31 - Ink manufacturing, processing and bulk storage	383 Wiltona Avenue	Presence of commercial printing facility
PCA 30	31 - Ink manufacturing, processing and bulk storage	311 Richmond Road	Presence of commercial printing facility
PCA 31	10 - Commercial antibody shops	384 Richmond Road	Record of motor vehicle repair shop (Archie Macdonald Ltd. New and Used Cars)
PCA 32	10 - Commercial antibody shops	376 Madison Avenue	Record of motor vehicle repair shop (Lyle Robbing Services Ltd.)
PCA 33	28 - Gasoline and associated products storage in fixed tanks	376 Church Hill Avenue North	Record of oil UST
PCA 34	31 - Ink manufacturing, processing and bulk storage	376 Church Hill Avenue North	Records of publishing and commercial printing industries
PCA 35	Underdefined PCA - Manufacturing	376 Church Hill Avenue North	Record of industrial machinery manufacturing
PCA 36	28 - Gasoline and associated products storage in fixed tanks	307 Richmond Road	Record of fuel oil UST in 1963 and fuel oil AST in 1963
PCA 37	10 - Commercial antibody shops	307 Richmond Road	Record of motor vehicle repair shops (unnamed auto body repairs)
PCA 38	34 - Metal manufacturing	377 Church Hill Avenue North	Record of jewelry and silversware manufacturing
PCA 39	54 - Textile manufacturing and processing	375 Church Hill Avenue North	Presence of cut and sew clothing company
PCA 40	Underdefined PCA - Manufacturing	383 Richmond Road	Wood counter manufacturing
PCA 41	10 - Commercial antibody shops	433 Rosevelt Avenue	Record of motor vehicle repair shop (The Registered Trimmer)
PCA 42	39 - Paints manufacturing, processing and bulk storage	387 Richmond Road	Record of paint storage (Stained Glass Stuff)
PCA 43	10 - Commercial antibody shops	277 Richmond Road	Record of motor vehicle repair shops (unnamed auto body repairs)
PCA 44	Underdefined PCA - Spill	348 Whiby Avenue	Record of historic kerosene oil spill of unknown quantity
PCA 45	31 - Ink manufacturing, processing and bulk storage	363 Church Hill Avenue North	Record of combined publishing and printing (Saratime Publications Inc.)
PCA 46	Underdefined PCA - Spill	363 Church Hill Avenue North	Record of historic 140 L hydraulic fluid spill
PCA 47	31 - Ink manufacturing, processing and bulk storage	364 Church Hill Avenue North	Historic record of plate-making, typesetting and bindery industry operations (Metrotype Graphics Ltd.)
PCA 48	10 - Commercial antibody shops	276 Richmond Road	Unnamed gas and auto repair centre
PCA 49	37 - Operation of dry cleaning equipment (where chemicals are used)	282 Richmond Road	Record of laundries and cleaners (Sparkle Cleaners)
PCA 50	43 - Plastics (including Fibreglass) manufacturing and processing	290 Picton Avenue	Historic plastic product manufacturing
PCA 51	Underdefined PCA - Spill	400 Athlone Avenue	Record of historic hydraulic fluid spill of unknown quantity
PCA 52	31 - Ink manufacturing, processing and bulk storage	416 Richmond Road	Historic commercial printing operations
PCA 53	28 - Gasoline and associated products storage in fixed tanks	416 Richmond Road	Historic record of UST



Note
 1. This drawing shall be read in conjunction with the associated technical report.
 2. Refer to Fig. 2A for PCA locations.

Revised By	C.O.	Scale	
Drawn By	K.M.	Date	June 2025
Approved By		Project No.	02103035.000
Figure No.	2B		

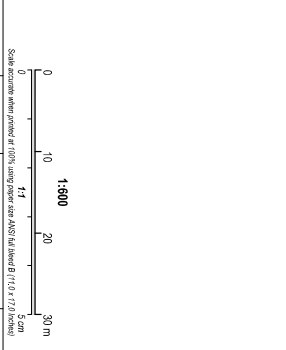


APEC ID	Potentially Contaminating Activity	Contaminants of Potential Concern	Potentially Impacted Media
APEC 1	Presence of landnormal and dry cleaning facility	VOCS, PAHs, BTEX, PHCS	Soil and Groundwater
APEC 2	Application of salt for de-icing purposes for the safety of vehicular or pedestrian traffic	EC, SAR, CH, Na	Soil and Groundwater
APEC 3	On-Site PCAs upgrade of the Site	PHCs, VOCS, BTEX, Metals and Inorganics	Soil and Groundwater



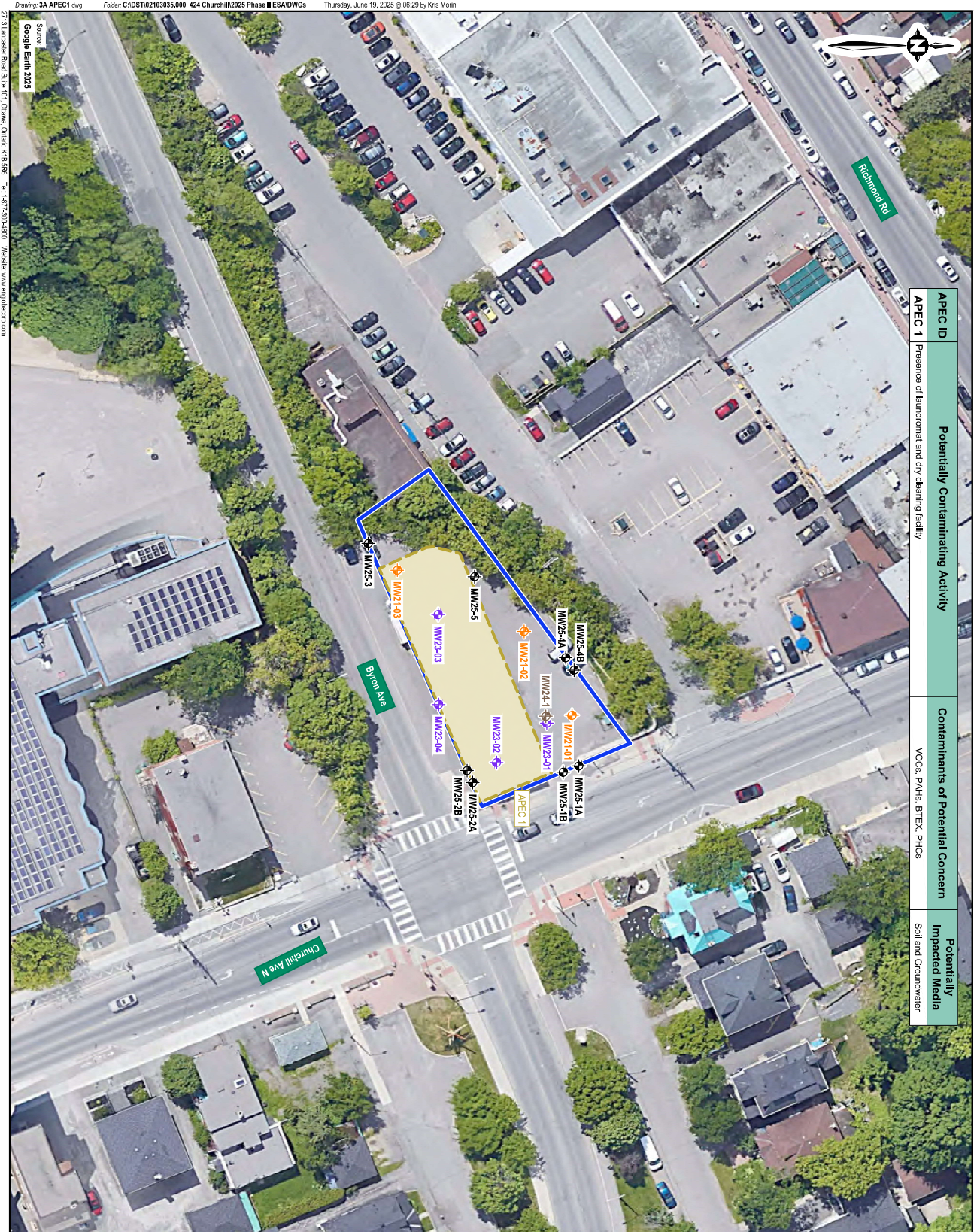
Note
1. This drawing shall be read in conjunction with the associated technical report.

- Legend**
- RSC Property Boundary
 - APEC 1
 - APEC 2
 - APEC 3
 - Location of Monitoring Well (Englobe, 2021)
 - Location of Monitoring Well (Englobe, 2023)
 - Location of Deep Monitoring Well (Englobe, 2024)
 - Location of Monitoring Well (Englobe, 2025)



Client	Churchill Properties Inc.		
Site	424 Churchill Avenue North, Ottawa, ON		
Report Title	Phase Two Environmental Site Assessment		
Drawing Title	Areas of Potential Environmental Concern		
Designed By	C.O.	Scale	As shown
Drawn By	K.M.	Date	June 2025
Approved By		Project No.	02103035.000
Figure No.	3		

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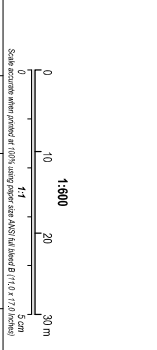


APEC ID	Potentially Contaminating Activity	Contaminants of Potential Concern	Potentially Impacted Media
APEC 1	Presence of landrational and dry cleaning facility	VOCs, PAHs, BTEX, PHCS	Soil and Groundwater



Note
1. This drawing shall be read in conjunction with the associated technical report.

- Legend**
- RSC Property Boundary
 - APEC 1
 - Location of Monitoring Well (Englobe, 2021)
 - Location of Monitoring Well (Englobe, 2023)
 - Location of Deep Monitoring Well (Englobe, 2024)
 - Location of Monitoring Well (Englobe, 2025)



Revision	Date	Issue	Approval
E	06/19/2025	Preliminary	

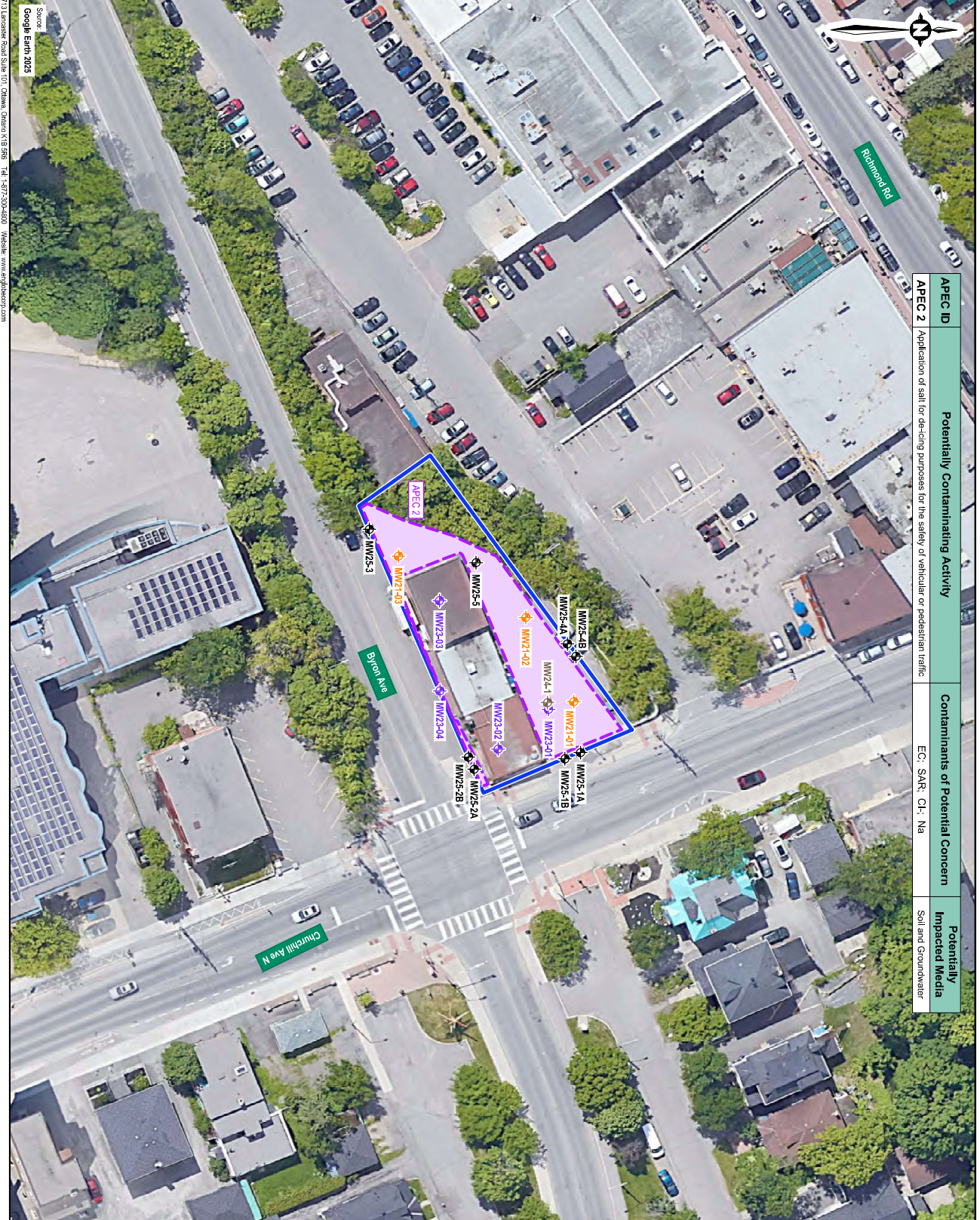
Client
Churchill Properties Inc.

Site
424 Churchill Avenue North, Ottawa, ON

Report Title
Phase Two Environmental Site Assessment

Drawing Title
Areas of Potential Environmental Concern

Designed By	C.O.	Scale	As shown
Drawn By	K.M.	Date	June 2025
Approved By		Project No.	02103035.000
Figure No.	3A		

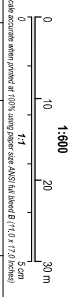


APEC ID	Potentially Contaminating Activity	Contaminants of Potential Concern	Potentially Impacted Media
APEC 2	Application of salt for de-icing purposes for the safety of vehicular or pedestrian traffic	EC, SAR, Cl-, Na	Soil and Groundwater



Note
1. This drawing shall be read in conjunction with the associated technical report.

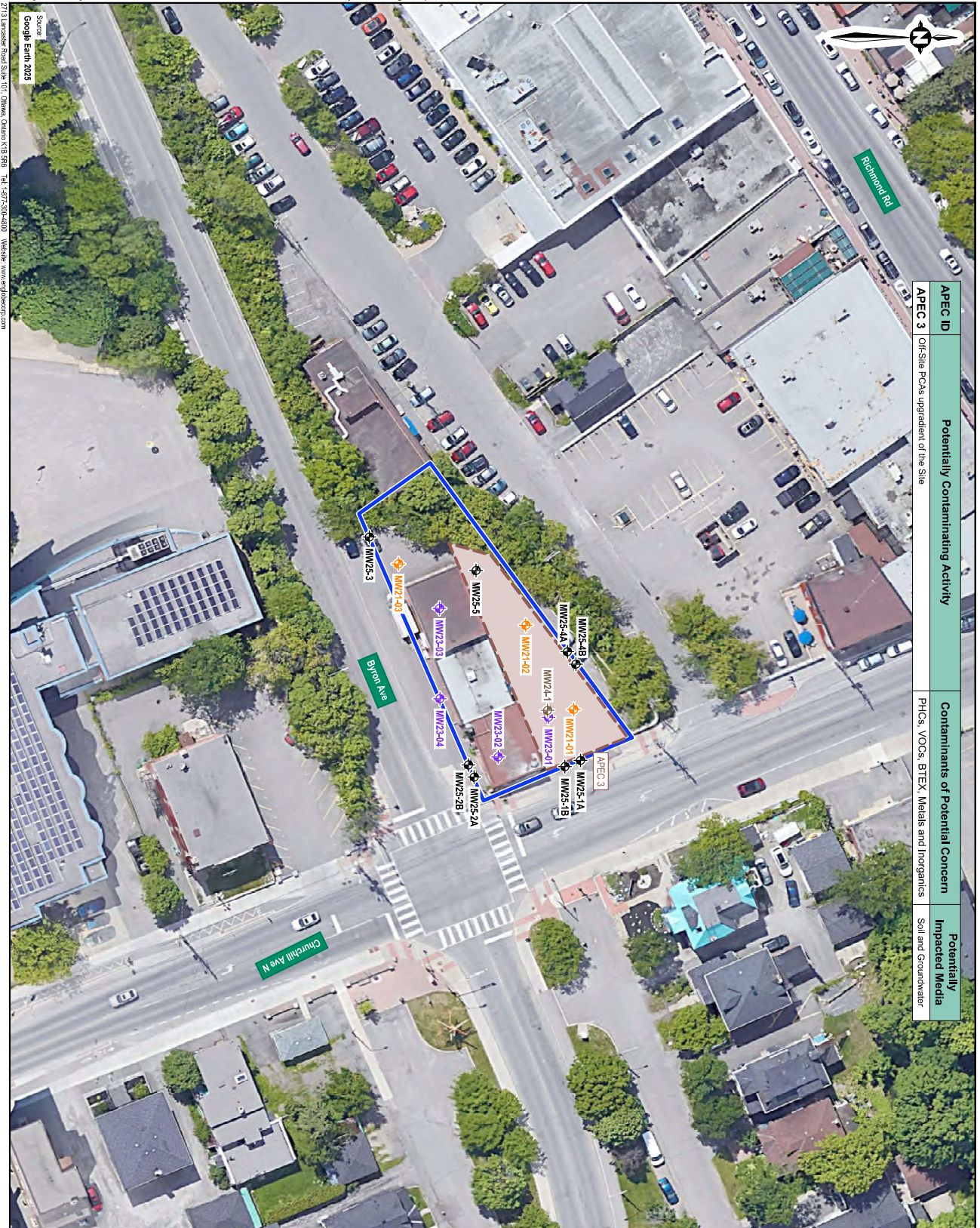
- Legend**
- RSC Property Boundary
 - APEC 2
 - ◆ Location of Monitoring Well (Englobe, 2021)
 - ◆ Location of Monitoring Well (Englobe, 2023)
 - ◆ Location of Deep Monitoring Well (Englobe, 2024)
 - ◆ Location of Monitoring Well (Englobe, 2025)



Client	Churchill Properties Inc.		
Site	424 Churchill Avenue North, Ottawa, ON		
Report Title	Phase Two Environmental Site Assessment		
Drawing Title	Areas of Potential Environmental Concern		
Designed By	C.O.	Scale	As shown
Drawn By	K.M.	Date	June 2025
Approved By		Project No.	02103035.000
Figure No.	3B		

Source: Google Earth 2025
27131 Kavanagh Road Suite 101, Ottawa, Ontario K1S 5R9 Tel: 437-230-4800 Website: www.engllobe.com

Source: Google Earth 2025
 2713 University Road Suite 101 Ottawa, Ontario K1S 5R6 Tel: 437-230-4800 Website: www.engllobe.com

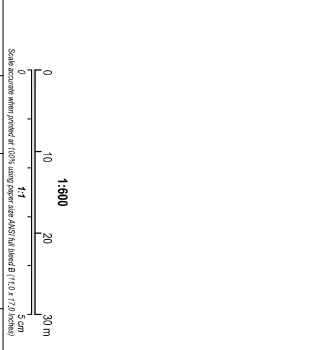


APEC ID	Potentially Contaminating Activity	Contaminants of Potential Concern	Potentially Impacted Media
APEC 3	On-Site RCAs upgrade of the site	PHCs, VOCs, BTEX, Metals and Inorganics	Soil and Groundwater



Note
 1. This drawing shall be read in conjunction with the associated technical report.

- Legend**
- RSC Property Boundary
 - APEC 3
 - Location of Monitoring Well (Englobe, 2021)
 - Location of Monitoring Well (Englobe, 2023)
 - Location of Deep Monitoring Well (Englobe, 2024)
 - Location of Monitoring Well (Englobe, 2025)



Revision	Date	Issue	Approval
E	06/19/2025	Preliminary	

Client: **Churchill Properties Inc.**
 Site: **424 Churchill Avenue North, Ottawa, ON**
 Report Title: **Phase Two Environmental Site Assessment**

Drawing Title: **Phase Two Environmental Site Assessment**

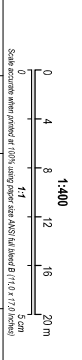
Designed By	Scale	As shown
C.O.		
Drawn By	Date	June 2025
K.M.		
Approved By	Project No.	02103035.000
Figure No.	3C	

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Note
1. This drawing shall be read in conjunction with the associated technical report.

- Legend**
- Phase One, Phase Two and Record of Site Condition (RSO) Property Boundary
 - ◆ Approximate Location of Monitoring Well
 - 68.88 Measured Groundwater Elevation (masl) (April 29, 2021)
 - Groundwater Contour (masl) (April 29, 2021)
 - Interpreted Groundwater Flow Direction (April 29, 2021)



Client		Churchill Properties Inc.	
Site		424 Churchill Avenue North, Ottawa, ON	
Report Title		Phase Two Environmental Site Assessment	
Drawing Title			
Shallow Aquifer Groundwater Contours and Interpreted Flow Direction - April 29, 2021			
Designed By	C.O.	Scale	As shown
Drawn By	K.M.	Date	June 2025
Approved By		Project No.	02103035.000
Figure No.	4A		

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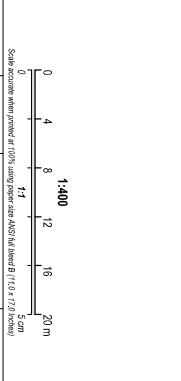


Note

1. This drawing shall be read in conjunction with the associated technical report.

Legend

- ▬ Phase One, Phase Two and Record of Site Condition (RSO) Property Boundary
- ⬇ Approximate Location of Monitoring Well
- 69.28 Measured Groundwater Elevation (masl) (October 5, 2023)
- Groundwater Contour (masl) (October 5, 2023)
- ➔ Interpreted Groundwater Flow Direction (October 5, 2023)

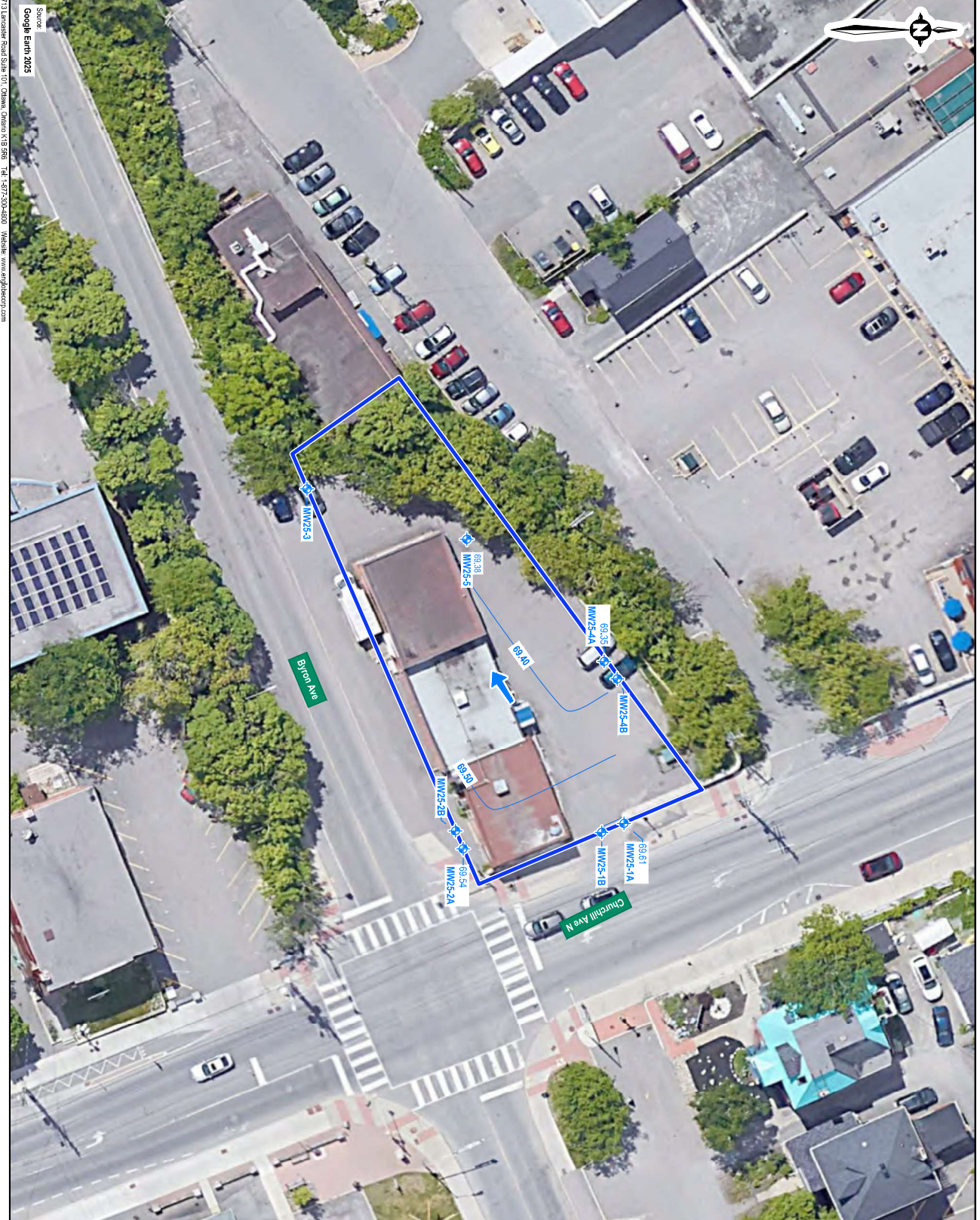


Revision	Date	Issue	Approval
E	06/19/2025	Preliminary	

Client: **Churchill Properties Inc.**
 Site: **424 Churchill Avenue North, Ottawa, ON**
 Report Title: **Phase Two Environmental Site Assessment**

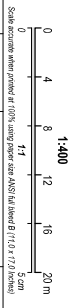
Designed By	C.O.	Scale	As shown
Drawn By	K.M.	Date	June 2025
Approved By		Project No.	02103035.000
Figure No.	4B		

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Note
1. This drawing shall be read in conjunction with the associated technical report.

- Legend**
- Phase One, Phase Two and Record of Site Condition (RSO) Property Boundary
 - Approximate Location of Monitoring Well
 - 69.38 Measured Groundwater Elevation (masl) (March 2025)
 - Groundwater Contour (masl) (March 2025)
 - Interpreted Groundwater Flow Direction (March 2025)

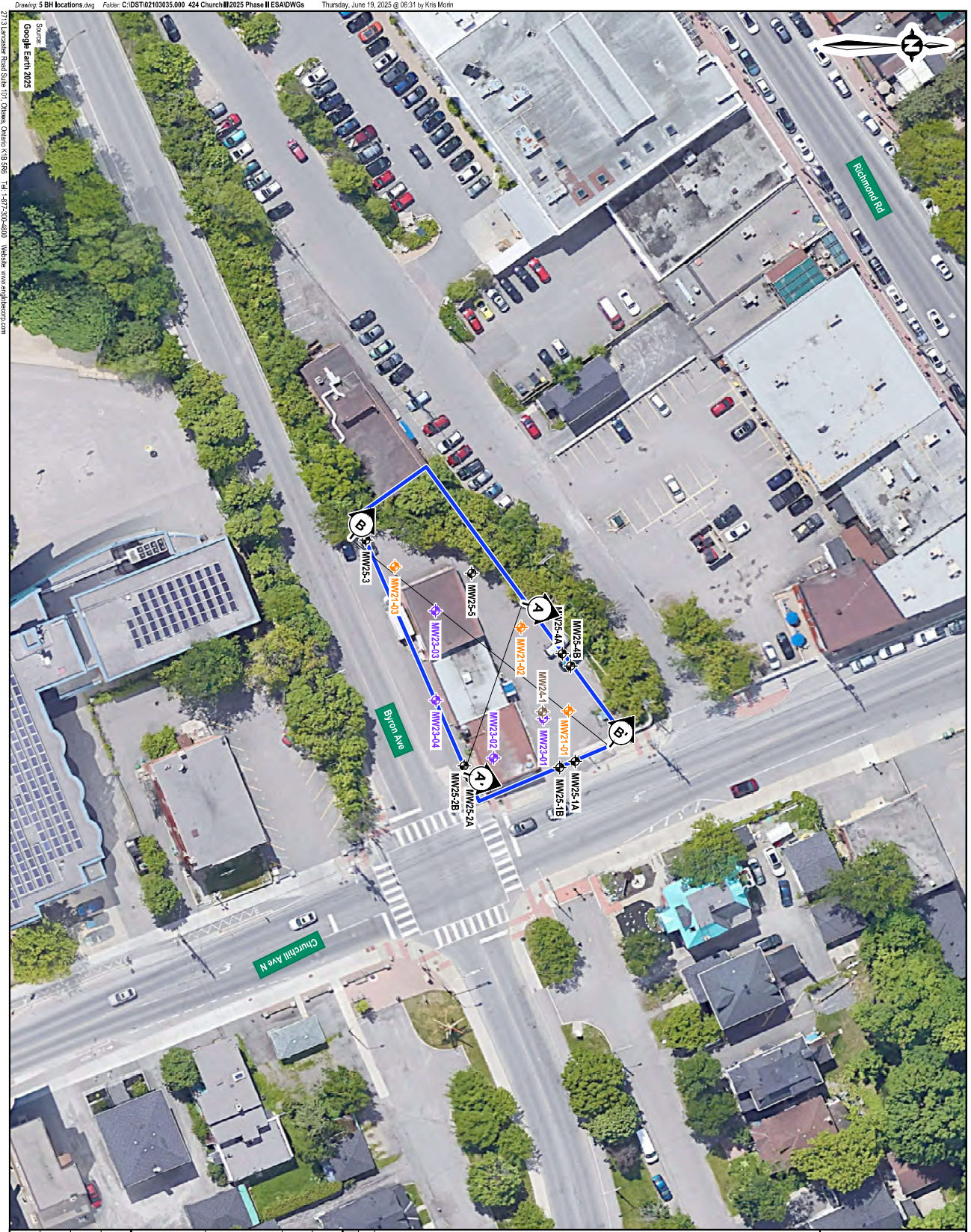


Revision	Date	Issue	Approval
E	06/19/2025	Preliminary	

Client: **Churchill Properties Inc.**
 Site: **424 Churchill Avenue North, Ottawa, ON**
 Report Title: **Phase Two Environmental Site Assessment**

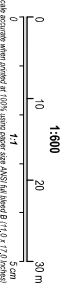
Designed By	Scale	As shown
C.O.		
Drawn By	Date	June 2025
K.M.		
Approved By	Project No.	02103035.000
Figure No.	4C	

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Note
1. This drawing shall be read in conjunction with the associated technical report.

- Legend**
- Phase One, Phase Two and Record of Site Condition (RSO) Property Boundary
 - ◆ Location of Monitoring Well (Englobe, 2021)
 - ◆ Location of Monitoring Well (Englobe, 2023)
 - ◆ Location of Deep Monitoring Well (Englobe, 2024)
 - ◆ Location of Monitoring Well (Englobe, 2025)
 - Cross Section Reference



Revision	Date	Issue	Approval
E	06/19/2025	Preliminary	

Client: **Churchill Properties Inc.**

Site: **424 Churchill Avenue North, Ottawa, ON**

Report Title: **Phase Two Environmental Site Assessment**

Drawing Title: **Cross Section Locations**

Designed By	Scale	As shown
C.O.		

Drawn By	Date	June 2025
K.M.		

Approved By	Project No.	02103035.000

Figure No. **5**

Note

- This drawing shall be read in conjunction with the associated technical report.
- NV: Sample reached baseline at C50. Sample meets SCS

Legend

- Phase One, Phase Two and Record of Site Condition (RSO) Property Boundary
- Soil Sample Meets Applicable Table 7 SCS for PHCs
- Soil Sample Exceeds Applicable Table 7 SCS for PHCs
- Soil Sample Not Analyzed
- Inferred Extent of PHC Contamination in Soil

Revision	Date	Issue	Approval
E	06/19/2025	Preliminary	

Client: **Churchill Properties Inc.**

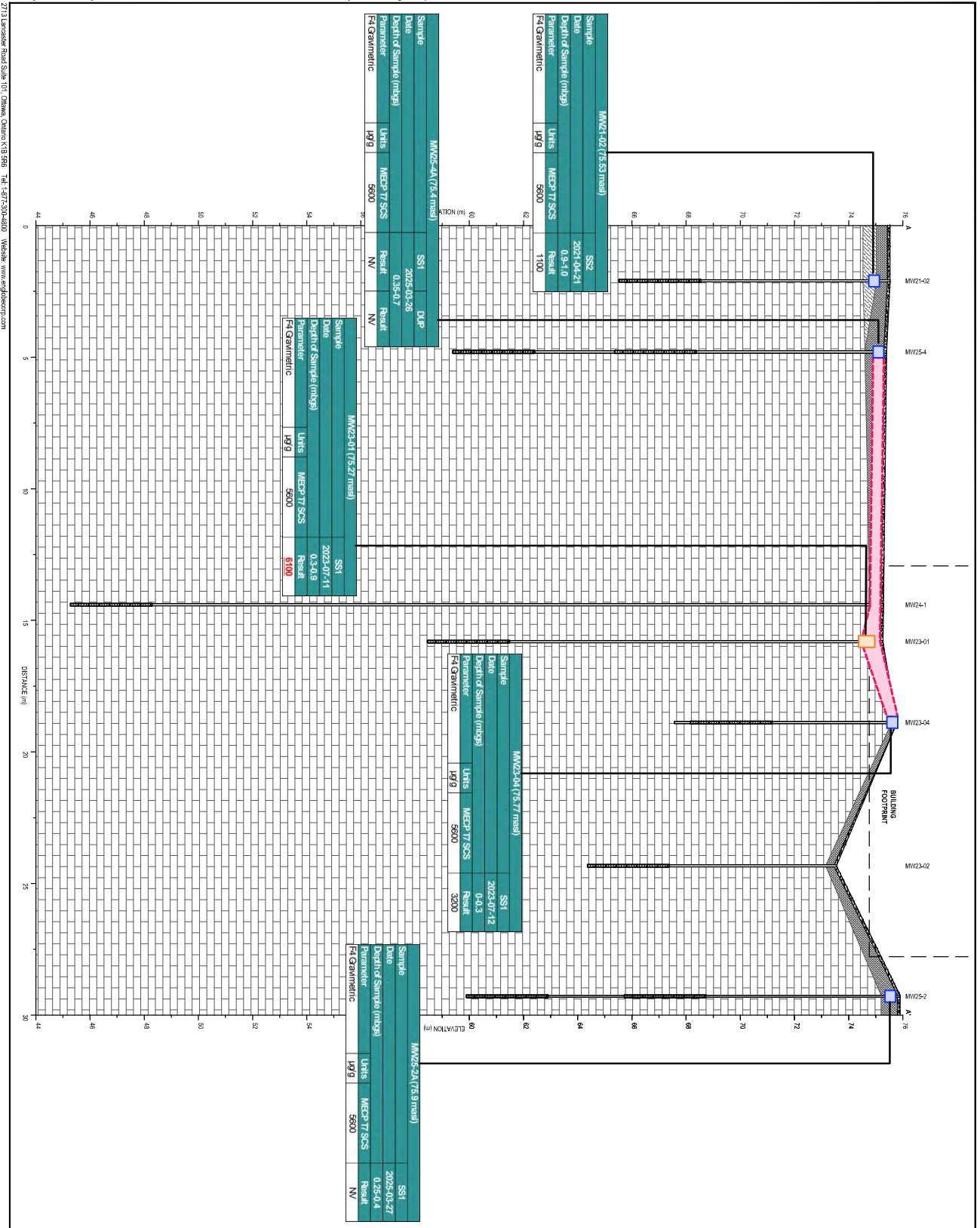
Site: **424 Churchill Avenue North, Ottawa, ON**

Report Title: **Phase Two Environmental Site Assessment**

Drawing Title: **PHCs in Soil**

Designed By	C.O.	Scale	As shown
Drawn By	K.M.	Date	June 2025
Approved By		Project No.	021103035.000
Figure No.	6A		

Sample	Date	Depth of Sample (mbsj)	Parameter	Units	MECP 7 SCS	Result
MW21-01 (75.37 mass)	2025-04-21	0.9-1.2	MECP 7 SCS			NV
			Fluorine	mg/kg	5000	NV
			Chlorine	mg/kg	5000	NV
			Iron	mg/kg	5000	NV
			Manganese	mg/kg	5000	NV
			Cadmium	µg/kg	5000	NV
			Lead	µg/kg	5000	NV
			Mercury	µg/kg	5000	NV
			Copper	µg/kg	5000	NV
			Zinc	µg/kg	5000	NV
			Vanadium	µg/kg	5000	NV
			Chromium	µg/kg	5000	NV
			Barium	µg/kg	5000	NV
			Magnesium	µg/kg	5000	NV
			Strontium	µg/kg	5000	NV
			Aluminum	µg/kg	5000	NV
			Sulfur	µg/kg	5000	NV
			Phosphorus	µg/kg	5000	NV
			Calcium	µg/kg	5000	NV
			Sodium	µg/kg	5000	NV
			Potassium	µg/kg	5000	NV
			Silicon	µg/kg	5000	NV
			Titanium	µg/kg	5000	NV
			Zirconium	µg/kg	5000	NV
			Boron	µg/kg	5000	NV
			Fluorine	µg/kg	5000	NV
			Chlorine	µg/kg	5000	NV
			Iron	µg/kg	5000	NV
			Manganese	µg/kg	5000	NV
			Cadmium	µg/kg	5000	NV
			Lead	µg/kg	5000	NV
			Mercury	µg/kg	5000	NV
			Copper	µg/kg	5000	NV
			Zinc	µg/kg	5000	NV
			Vanadium	µg/kg	5000	NV
			Chromium	µg/kg	5000	NV
			Barium	µg/kg	5000	NV
			Magnesium	µg/kg	5000	NV
			Strontium	µg/kg	5000	NV
			Aluminum	µg/kg	5000	NV
			Sulfur	µg/kg	5000	NV
			Phosphorus	µg/kg	5000	NV
			Calcium	µg/kg	5000	NV
			Sodium	µg/kg	5000	NV
			Potassium	µg/kg	5000	NV
			Silicon	µg/kg	5000	NV
			Titanium	µg/kg	5000	NV
			Zirconium	µg/kg	5000	NV
			Boron	µg/kg	5000	NV
			Fluorine	µg/kg	5000	NV
			Chlorine	µg/kg	5000	NV
			Iron	µg/kg	5000	NV
			Manganese	µg/kg	5000	NV
			Cadmium	µg/kg	5000	NV
			Lead	µg/kg	5000	NV
			Mercury	µg/kg	5000	NV
			Copper	µg/kg	5000	NV
			Zinc	µg/kg	5000	NV
			Vanadium	µg/kg	5000	NV
			Chromium	µg/kg	5000	NV
			Barium	µg/kg	5000	NV
			Magnesium	µg/kg	5000	NV
			Strontium	µg/kg	5000	NV
			Aluminum	µg/kg	5000	NV
			Sulfur	µg/kg	5000	NV
			Phosphorus	µg/kg	5000	NV
			Calcium	µg/kg	5000	NV
			Sodium	µg/kg	5000	NV
			Potassium	µg/kg	5000	NV
			Silicon	µg/kg	5000	NV
			Titanium	µg/kg	5000	NV
			Zirconium	µg/kg	5000	NV
			Boron	µg/kg	5000	NV
			Fluorine	µg/kg	5000	NV
			Chlorine	µg/kg	5000	NV
			Iron	µg/kg	5000	NV
			Manganese	µg/kg	5000	NV
			Cadmium	µg/kg	5000	NV
			Lead	µg/kg	5000	NV
			Mercury	µg/kg	5000	NV
			Copper	µg/kg	5000	NV
			Zinc	µg/kg	5000	NV
			Vanadium	µg/kg	5000	NV
			Chromium	µg/kg	5000	NV
			Barium	µg/kg	5000	NV
			Magnesium	µg/kg	5000	NV
			Strontium	µg/kg	5000	NV
			Aluminum	µg/kg	5000	NV
			Sulfur	µg/kg	5000	NV
			Phosphorus	µg/kg	5000	NV
			Calcium	µg/kg	5000	NV
			Sodium	µg/kg	5000	NV
			Potassium	µg/kg	5000	NV
			Silicon	µg/kg	5000	NV
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			Vanadium	µg/kg	5000	NV
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			Barium	µg/kg	5000	NV
			Magnesium	µg/kg	5000	NV
			Strontium	µg/kg	5000	NV
			Aluminum	µg/kg	5000	NV
			Sulfur	µg/kg	5000	NV
			Phosphorus	µg/kg	5000	NV
			Calcium	µg/kg	5000	NV
			Sodium	µg/kg	5000	NV
			Potassium	µg/kg	5000	NV
			Silicon	µg/kg	5000	NV
			Titanium	µg/kg	5000	NV
			Zirconium	µg/kg	5000	NV
			Boron	µg/kg	5000	NV
			Fluorine	µg/kg	5000	NV
			Chlorine	µg/kg	5000	NV
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			Manganese	µg/kg	5000	NV
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			Vanadium	µg/kg	5000	NV
			Chromium	µg/kg	5000	NV
			Barium	µg/kg	5000	NV
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			Potassium	µg/kg	5000	NV
			Silicon	µg/kg	5000	NV
			Titanium	µg/kg	5000	NV
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			Vanadium	µg/kg	5000	NV
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			Silicon	µg/kg	5000	NV
			Titanium	µg/kg	5000	NV
			Zirconium	µg/kg	5000	NV
			Boron	µg/kg	5000	NV
			Fluorine	µg/kg	5000	NV
			Chlorine	µg/kg	5000	NV
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			Fluorine	µg/kg	5000	NV
			Chlorine	µg/kg	5000	NV
			Iron	µg/kg	5000	NV
			Manganese	µg/kg	5000	NV
			Cadmium	µg/kg	5000	NV
			Lead	µg/kg	5000	NV
			Mercury	µg/kg	5000	NV
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			Zinc	µg/kg	5000	NV
			Vanadium	µg/kg	5000	NV
			Chromium	µg/kg		



Note

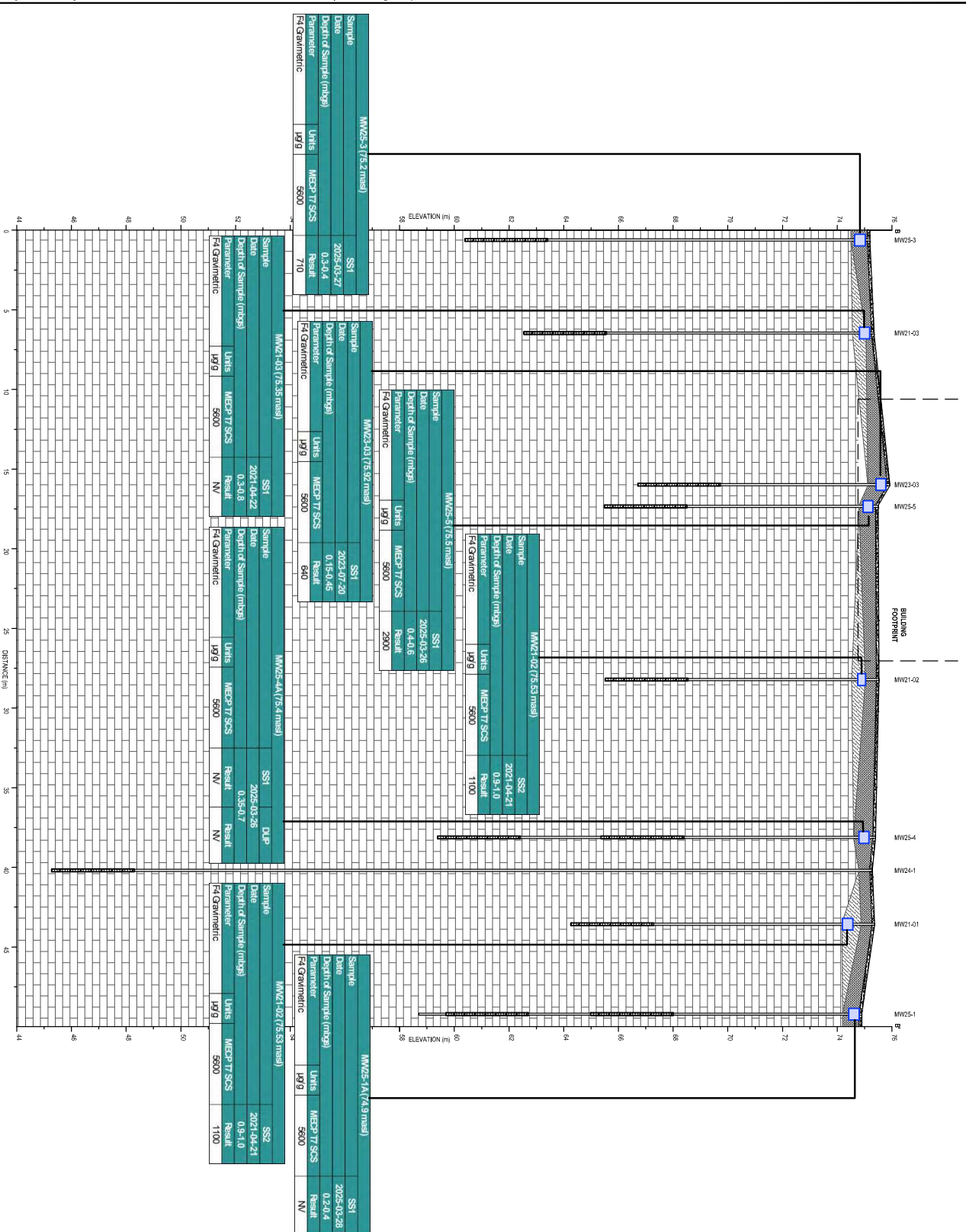
1. This drawing shall be read in conjunction with the associated technical report.
2. Vertical delineation achieved by bedrock located 0.1' - 1.2' mags across the site.

Legend

- Asphalt
- Fill
- Sandy Silt
- Limestone Bedrock
- Monitoring Well Screened Interval
- Soil Sample Excavate MECP Table 7 SCS for PHCs
- Soil Sample Meets MECP Table 7 SCS for PHCs
- Inferred Extents of PHC Contamination in Soil

Site	424 Churchill Avenue North, Ottawa, ON		
Client	Churchill Properties Inc.		
Revision	Date	Issue	Approval
E	06/19/2025	Preliminary	Approval
<p>Phase Two Environmental Site Assessment</p> <p>Cross Section A-A' - PHCs in Soil</p> <p>Scale: As shown</p> <p>Drawn By: K.M. Date: June 2025</p> <p>Approved By: Project No. 02103035.000</p> <p>Figure No. 6B</p>			

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Note

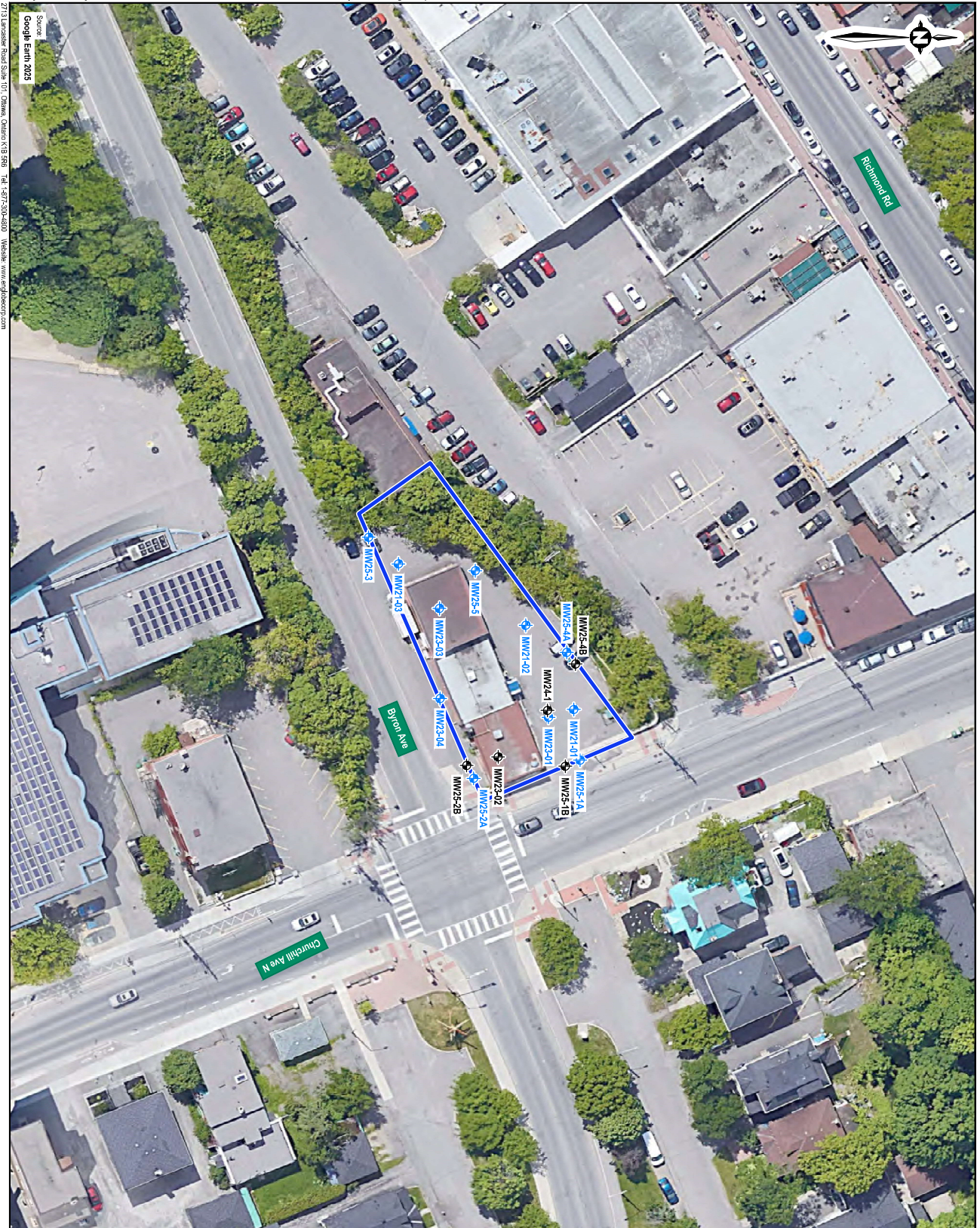
1. This drawing shall be read in conjunction with the associated technical report.
2. Vertical delineation achieved by bedrock located 0.1' - 1.2' mbsg across the site.

Legend

- Asphalt
- Fill
- Sandy Silt
- Limestone Bedrock
- Monitoring Well Screened Interval
- Soil Sample Exceeds MECP Table 7 SCS for PHCs
- Soil Sample Meets MECP Table 7 SCS for PHCs
- Inferred Extents of PHC Contamination in Soil

Site	424 Churchill Avenue North, Ottawa, ON		
Client	Churchill Properties Inc.		
Revision	06/19/2025	Preliminary	Approved
Drawn By	C.O.	Scale	As shown
Checked By	K.M.	Date	June 2025
Approved By		Project No.	02103035.000
Figure No.	6C		

Source: Google Earth 2025
 27131 Lancaster Road Suite 101 Ottawa, Ontario K1S 5R6 Tel: 467-230-8800 Website: www.engllobe.com

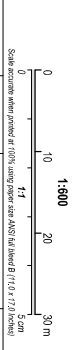


Note

1. This drawing shall be read in conjunction with the associated technical report.

Legend

- Phase One, Phase Two and Record of Site Condition (RSO) Property Boundary
- Soil Sample Meets Applicable Table 7 SCS for VOCs
- Soil Sample Not Analyzed



Revision	Date	Issue	Approval
E	06/19/2025	Preliminary	

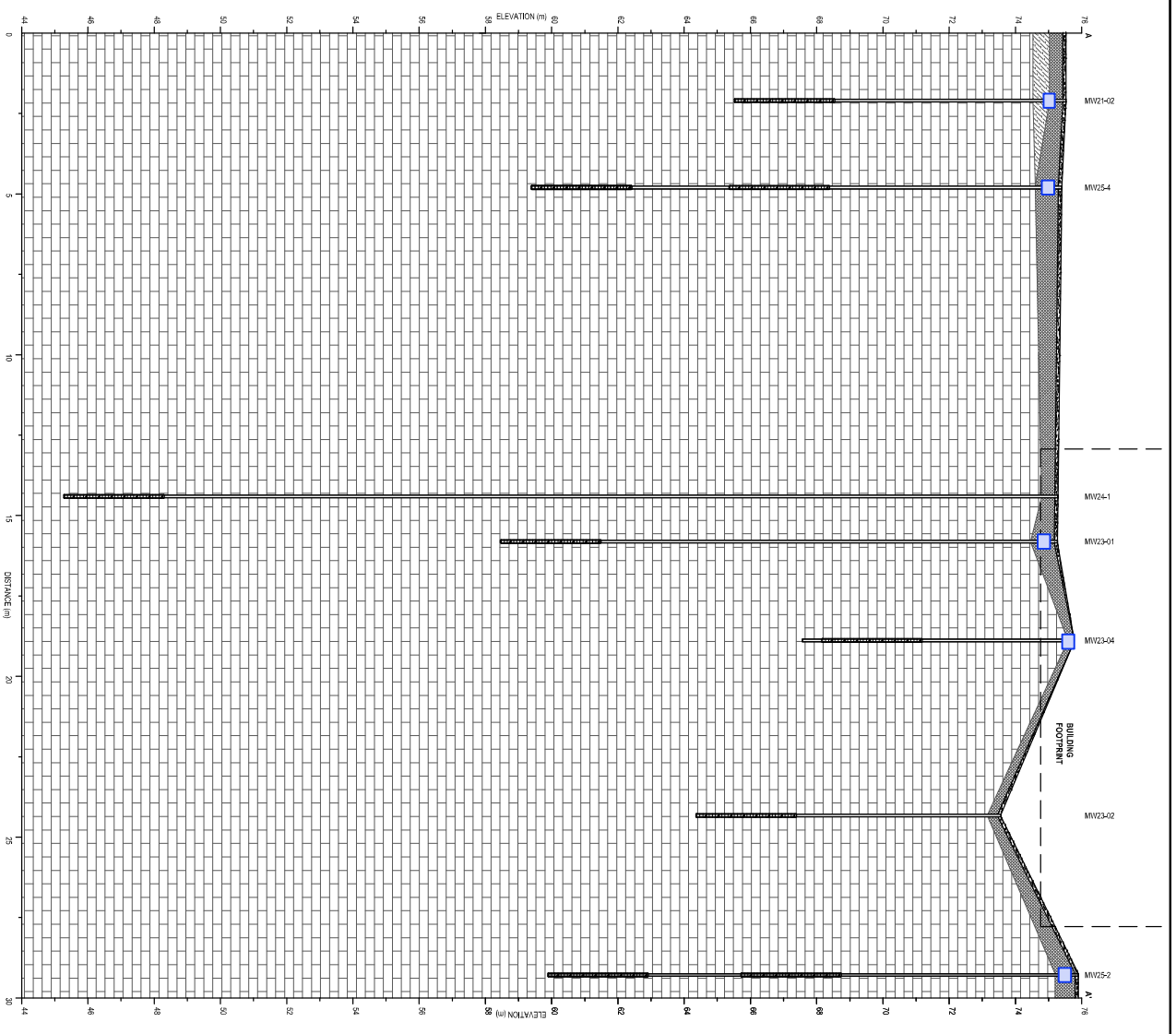
Client: **Churchill Properties Inc.**

Site: **424 Churchill Avenue North, Ottawa, ON**

Report Title: **Phase Two Environmental Site Assessment**

Drawing Title: **VOCs in Soil**

Designed By	Scale	As shown
C.O.	As shown	
Drawn By	Date	June 2025
K.M.	June 2025	
Approved By	Project No.	02103035.000
Figure No.	7A	

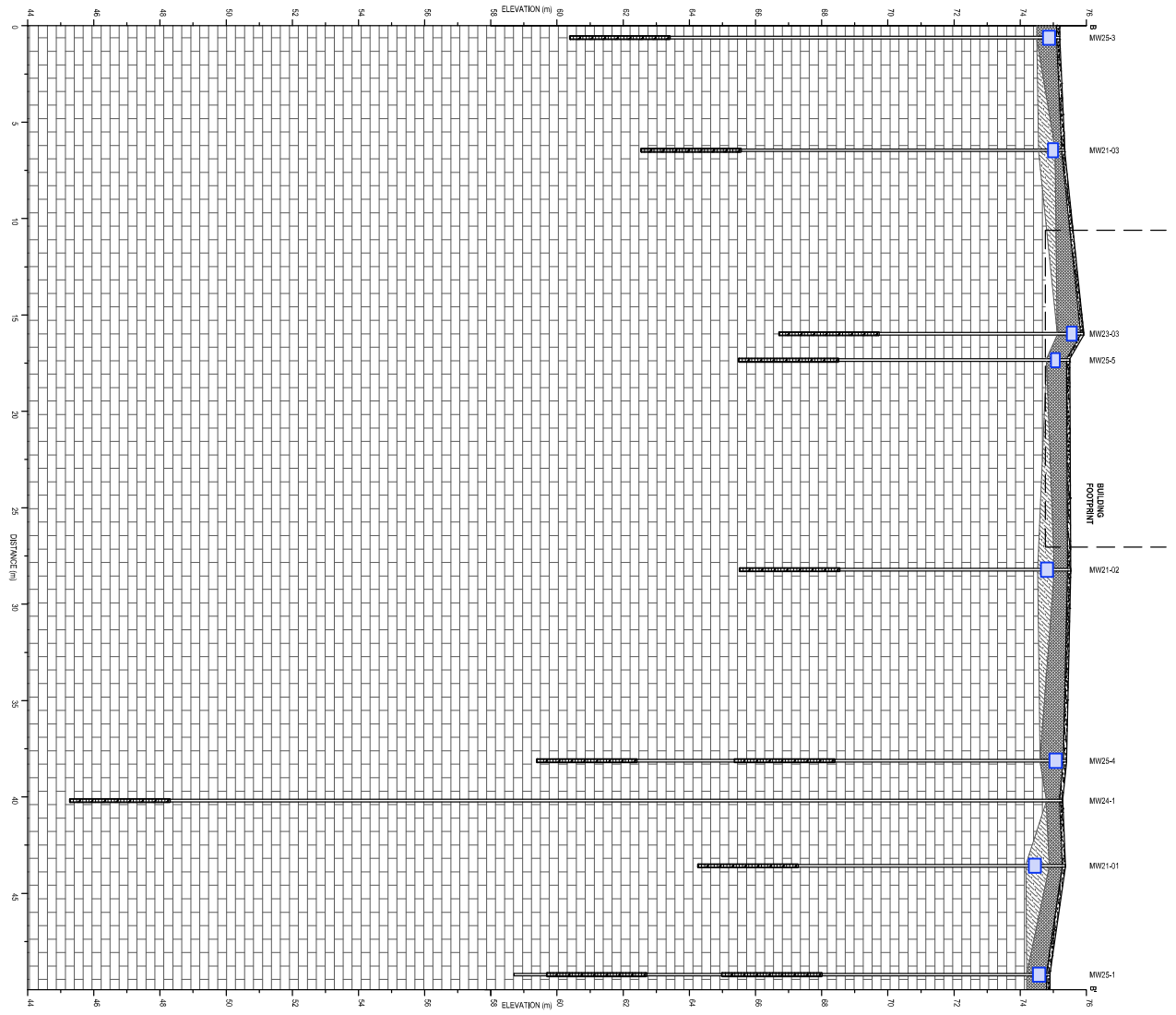


Note
1. This drawing shall be read in conjunction with the associated technical report.

- Legend**
- Asphalt
 - Fill
 - Sandy Silt
 - Limestone Bedrock
 - Monitoring Well Screened Interval
 - Soil Sample Exceeds MECF Table 7 SCS for VOCs
 - Soil Sample Meets MECF Table 7 SCS for VOCs
 - Inferred Extents of VOCs Contamination in Soil

E	06/19/2025	Preliminary	Approval
Revision	Date	Issue	Approval
Churchill Properties Inc.			
Site 424 Churchill Avenue North, Ottawa, ON			
Report Title Phase Two Environmental Site Assessment			
Drawing Title Cross Section A-A - VOCs in Soil			
Designed By	C.O.	Scale	As shown
Drawn By	K.M.	Date	June 2025
Approved By		Project No.	02103035.000
Figure No.	7B		

27131 Erasmaster Road Suite 101 Ottawa, Ontario K1B 5R9 Tel: 1-877-230-4400 Website: www.engelobe.com

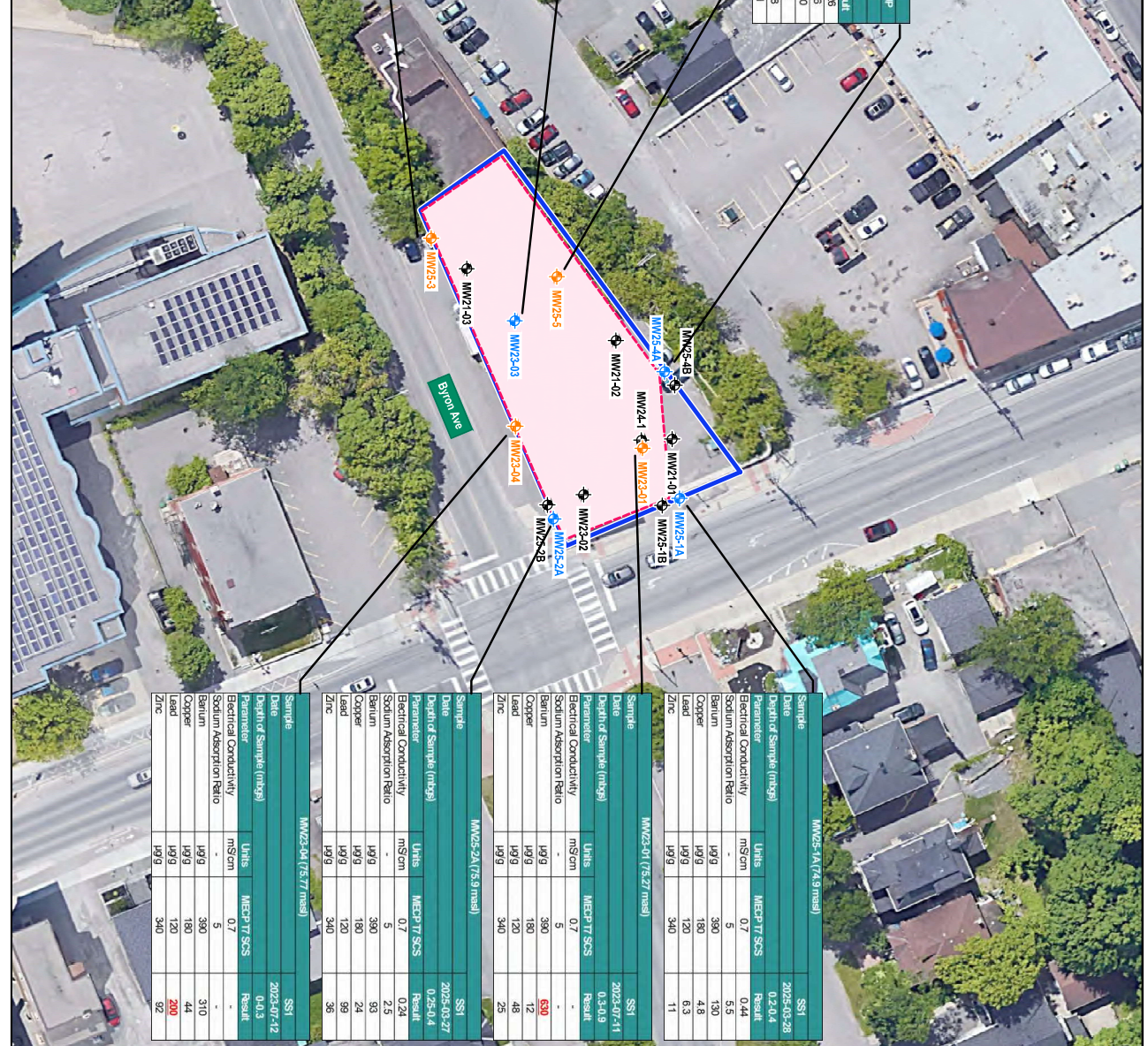


Note
1. This drawing shall be read in conjunction with the associated technical report.

- Legend**
- Asphalt
 - Fill
 - Sandy Silt
 - Limestone Bedrock
 - Monitoring Well Screened Interval
 - Soil Sample Exceeds MECF Table 7 SCS for VOCs
 - Soil Sample Meets MECF Table 7 SCS for VOCs
 - Inferred Extents of VOCs Contamination in Soil

E	06/19/2025	Preliminary	Approval
Revision	Date	Issue	Approval
Churchill Properties Inc.			
Site 424 Churchill Avenue North, Ottawa, ON			
Report Title Phase Two Environmental Site Assessment			
Drawing Title Cross Section B-B' - VOCs in Soil			
Designed By	C.O.	Scale	As shown
Drawn By	K.M.	Date	June 2025
Approved By		Project No.	02103035.000
Figure No.	7C		

Source: Google Earth 2025
 27131 University Road Suite 101, Ottawa, Ontario K1S 5R8 Tel: 1-877-250-8807 Website: www.engllobe.com



MW25-4A (75.4 mass)			
Sample	Parameter	Units	SS1 Result
Date	Depth of Sample (m/ft)	MCEP/T/SCS	2025-03-26 0.13/0.4
Electrical Conductivity	mS/cm	0.7	0.24
Sodium Adsorption Ratio	-	5	4.7
Berium	µg/g	390	260
Copper	µg/g	180	210
Lead	µg/g	120	6.7
Zinc	µg/g	340	8.1

MW25-5 (75.5 mass)			
Sample	Parameter	Units	SS1 Result
Date	Depth of Sample (m/ft)	MCEP/T/SCS	2025-03-26 0.14/0.6
Electrical Conductivity	mS/cm	0.7	-
Sodium Adsorption Ratio	-	5	-
Berium	µg/g	390	270
Copper	µg/g	180	1000
Lead	µg/g	120	210
Zinc	µg/g	340	1400

MW25-03 (75.3 mass)			
Sample	Parameter	Units	SS1 Result
Date	Depth of Sample (m/ft)	MCEP/T/SCS	2025-03-26 0.13/0.45
Electrical Conductivity	mS/cm	0.7	-
Sodium Adsorption Ratio	-	5	-
Berium	µg/g	390	180
Copper	µg/g	180	27
Lead	µg/g	120	46
Zinc	µg/g	340	57

MW25-3 (75.2 mass)			
Sample	Parameter	Units	SS1 Result
Date	Depth of Sample (m/ft)	MCEP/T/SCS	2025-03-27 0.13/0.4
Electrical Conductivity	mS/cm	0.7	0.24
Sodium Adsorption Ratio	-	5	3.6
Berium	µg/g	390	130
Copper	µg/g	180	63
Lead	µg/g	120	280
Zinc	µg/g	340	140

MW25-1A (74.9 mass)			
Sample	Parameter	Units	SS1 Result
Date	Depth of Sample (m/ft)	MCEP/T/SCS	2025-03-28 0.2/0.4
Electrical Conductivity	mS/cm	0.7	0.44
Sodium Adsorption Ratio	-	5	5.5
Berium	µg/g	390	130
Copper	µg/g	180	4.8
Lead	µg/g	120	6.3
Zinc	µg/g	340	11

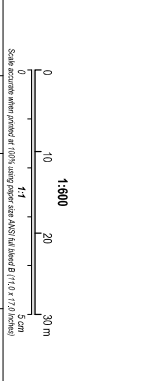
MW25-2A (75.27 mass)			
Sample	Parameter	Units	SS1 Result
Date	Depth of Sample (m/ft)	MCEP/T/SCS	2025-07-11 0.3/0.9
Electrical Conductivity	mS/cm	0.7	-
Sodium Adsorption Ratio	-	5	6.90
Berium	µg/g	390	12
Copper	µg/g	180	4.8
Lead	µg/g	120	25
Zinc	µg/g	340	-

MW25-2A (75.9 mass)			
Sample	Parameter	Units	SS1 Result
Date	Depth of Sample (m/ft)	MCEP/T/SCS	2025-03-27 0.25/0.4
Electrical Conductivity	mS/cm	0.7	0.24
Sodium Adsorption Ratio	-	5	2.5
Berium	µg/g	390	93
Copper	µg/g	180	24
Lead	µg/g	120	99
Zinc	µg/g	340	36

MW25-04 (75.77 mass)			
Sample	Parameter	Units	SS1 Result
Date	Depth of Sample (m/ft)	MCEP/T/SCS	2025-07-12 0.4/1.3
Electrical Conductivity	mS/cm	0.7	-
Sodium Adsorption Ratio	-	5	-
Berium	µg/g	390	310
Copper	µg/g	180	44
Lead	µg/g	120	200
Zinc	µg/g	340	92

Note
 1. This drawing shall be read in conjunction with the associated technical report.
 2. - Parameter not analyzed

Legend
 Phase One, Phase Two and Record of Site Condition (RSO) Property Boundary
 Soil Sample Meets Applicable Table 7 SCS for Metals
 Soil Sample Exceeds Applicable Table 7 SCS for Metals
 Soil Sample Not Analyzed
 Interred Extent of Metal Contamination in Soil



Client: **Churchill Properties Inc.**

Site: **424 Churchill Avenue North, Ottawa, ON**

Report Title: **Phase Two Environmental Site Assessment**

Drawing Title: **Metals, Hydride Forming Metals (HfMs), EC, and SAR in Soil**

Designed By: **C.O.** Scale: **As shown**

Drawn By: **K.M.** Date: **June 2025**

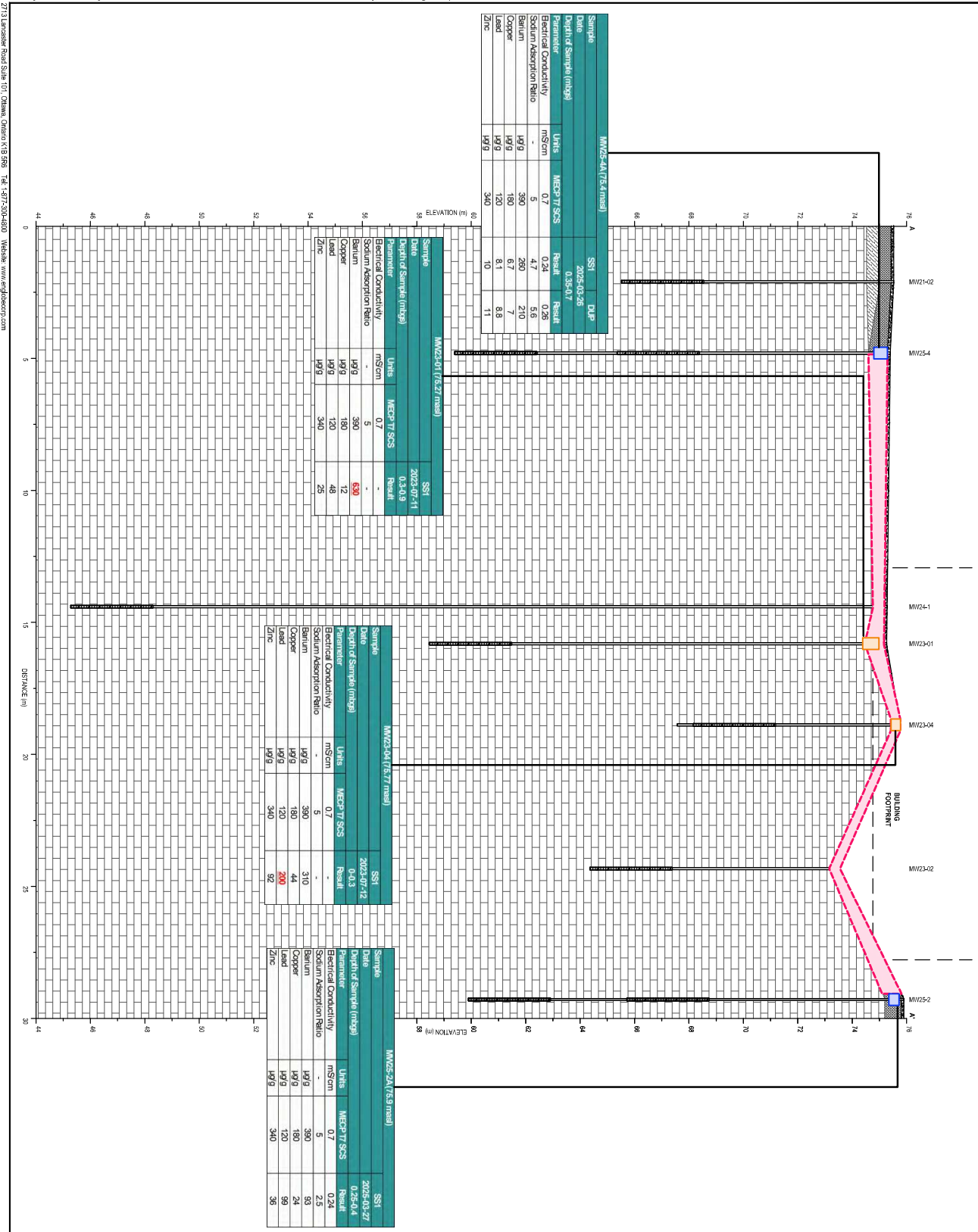
Approved By: **[Signature]** Project No: **02103035.000**

Figure No: **8A**

Revision: **06/19/2025** Preliminary Approval



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Sample	SS1	DUP
Depth of Sample (m)g	2023-03-26	
Parameter	Result	Result
Electrical Conductivity	0.24	0.26
Sodium Adsorption Ratio	0.24	0.26
Barium	4.7	5.6
Copper	280	210
Lead	6.7	7
Zinc	8.1	8.8

Sample	SS1	DUP
Date	2023-07-11	
Depth of Sample (m)g	0.3-0.9	
Parameter	Result	Result
Electrical Conductivity	-	-
Sodium Adsorption Ratio	-	-
Barium	180	12
Copper	120	48
Lead	340	25
Zinc		

Sample	SS1	DUP
Date	2023-07-12	
Depth of Sample (m)g	0.1-3	
Parameter	Result	Result
Electrical Conductivity	-	-
Sodium Adsorption Ratio	-	-
Barium	380	310
Copper	180	44
Lead	120	200
Zinc	340	92

Sample	SS1	DUP
Date	2025-03-27	
Depth of Sample (m)g	0.25-0.4	
Parameter	Result	Result
Electrical Conductivity	0.24	0.25
Sodium Adsorption Ratio	0.24	0.25
Barium	390	93
Copper	180	24
Lead	120	99
Zinc	340	36



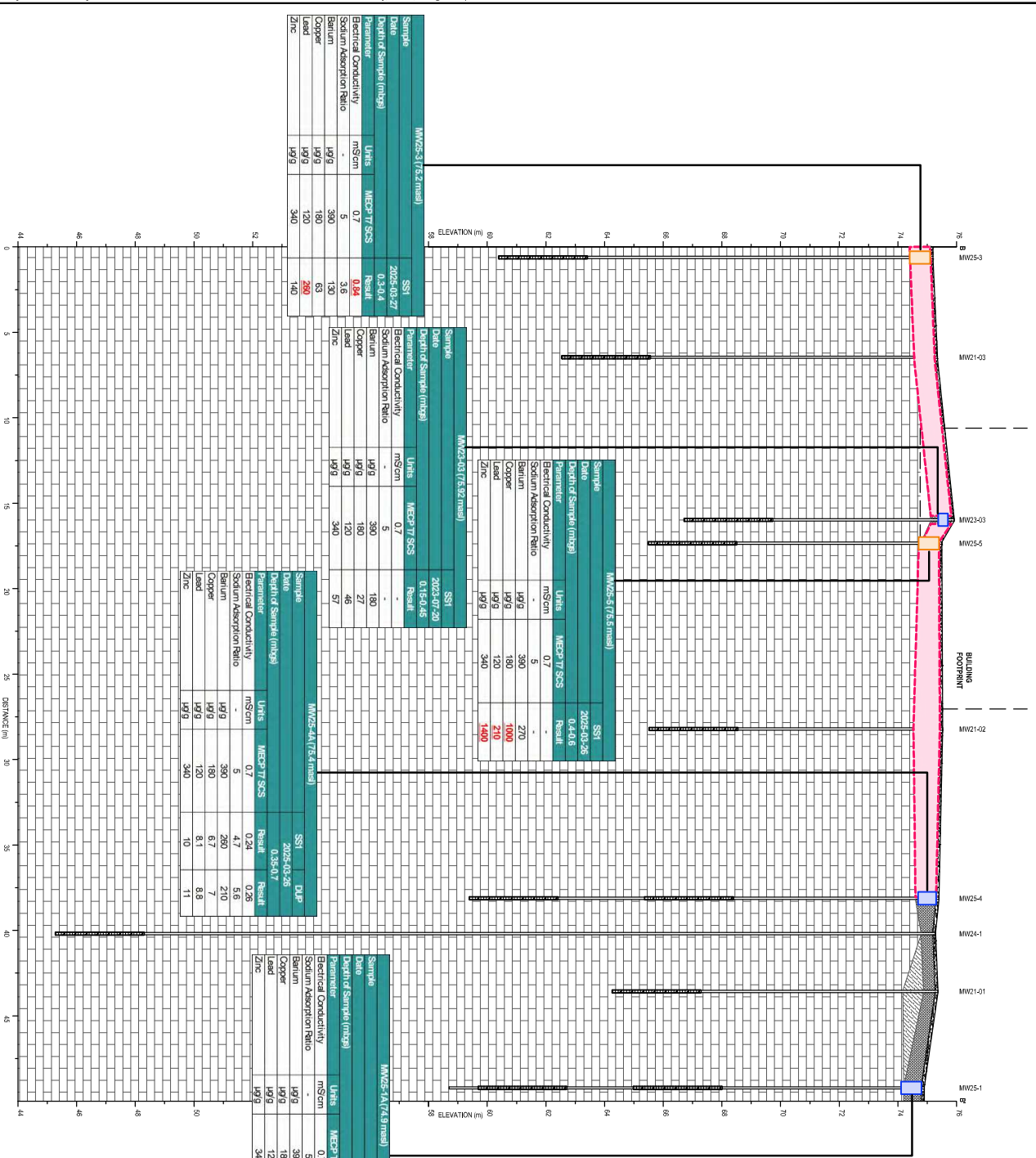
- NOTE**
- This drawing shall be read in conjunction with the associated technical report.
 - Analytical results on this figure include the following method groups: Metals: As, Se, Sb
 - Vertical delineation achieved by bedrock located 0.1 - 1.2 mgs across the site.

Legend

- Asphalt
- Fill
- Sandy Silt
- Limestone Bedrock
- Monitoring Well Screened Interval
- Soil Sample Exceeds MECP Table 7 SCS for Metals
- Soil Sample Meets MECP Table 7 SCS for Metals
- Interred Extents of Metals Contamination in Soil

E	06/19/2025	Preliminary	Approval
Revision	Date	Issue	Approval
Churchill Properties Inc.			
Site 424 Churchill Avenue North, Ottawa, ON			
Report Title Phase Two Environmental Site Assessment			
Drawing Title Cross Section A-A - Metals, Hydrate-Forming Metals (HfMs), EC, and SAR in Soil			
Designed By	C.O.	Scale	As shown
Drawn By	K.M.	Date	June 2025
Approved By		Project No.	02103035,000
Figure No.	8B		

27131 Encloser Road Suite 101, Ottawa, Ontario K1S 8P8 Tel: 437-230-4800 Website: www.engagecorp.com



MW25-1(73.2 m)			
Sample	Units	MECP 7/ SCS	SS1
Date	0.3-0.4		2025-03-27
Depth of Sample (m)			
Parameter	Units	MECP 7/ SCS	Result
Electrical Conductivity	mS/cm	0.7	0.84
Sodium Adsorption Ratio	-	5	3.6
Barium	µg/g	390	53
Copper	µg/g	120	260
Zinc	µg/g	340	140

MW25-1(73.4 m)			
Sample	Units	MECP 7/ SCS	SS1
Date	0.1-0.45		2025-03-26
Depth of Sample (m)			
Parameter	Units	MECP 7/ SCS	Result
Electrical Conductivity	mS/cm	0.7	0.84
Sodium Adsorption Ratio	-	5	3.6
Barium	µg/g	390	53
Copper	µg/g	120	260
Zinc	µg/g	340	140

MW25-1(73.5 m)			
Sample	Units	MECP 7/ SCS	SS1
Date	0.1-0.6		2025-03-26
Depth of Sample (m)			
Parameter	Units	MECP 7/ SCS	Result
Electrical Conductivity	mS/cm	0.7	0.84
Sodium Adsorption Ratio	-	5	3.6
Barium	µg/g	390	53
Copper	µg/g	120	260
Zinc	µg/g	340	140

MW25-4(73.4 m)			
Sample	Units	MECP 7/ SCS	SS1
Date	0.38-0.7		2025-03-26
Depth of Sample (m)			
Parameter	Units	MECP 7/ SCS	Result
Electrical Conductivity	mS/cm	0.7	0.84
Sodium Adsorption Ratio	-	5	3.6
Barium	µg/g	390	53
Copper	µg/g	120	260
Zinc	µg/g	340	140

MW25-4(74.9 m)			
Sample	Units	MECP 7/ SCS	SS1
Date	0.2-0.4		2025-03-26
Depth of Sample (m)			
Parameter	Units	MECP 7/ SCS	Result
Electrical Conductivity	mS/cm	0.7	0.84
Sodium Adsorption Ratio	-	5	3.6
Barium	µg/g	390	53
Copper	µg/g	120	260
Zinc	µg/g	340	140



Note

- This drawing shall be read in conjunction with the associated technical report.
- Analytical results on the figure include the following method groups: Metals: As, Se, Sb
Metals: As, Se, Sb
3. Vertical delineation achieved by bedrock located 0.1 - 1.2 mgs across the site.

Legend

- Asphalt
- Fill
- Sandy Silt
- Limestone Bedrock
- Monitoring Well Screened Interval
- Soil Sample Exceeds MECP Table 7 SCS for Metals
- Soil Sample Meets MECP Table 7 SCS for Metals
- Inferred Extents of Metals Contamination in Soil

Revision	06/19/2025	Preliminary	Approval
Client	Churchill Properties Inc.		
Site	424 Churchill Avenue North, Ottawa, ON		
Report Title	Phase Two Environmental Site Assessment		
Designed By	C.O.	Scale	As shown
Drawn By	K.M.	Date	June 2025
Approved By		Project No.	02103035.000
Figure No.	8C		

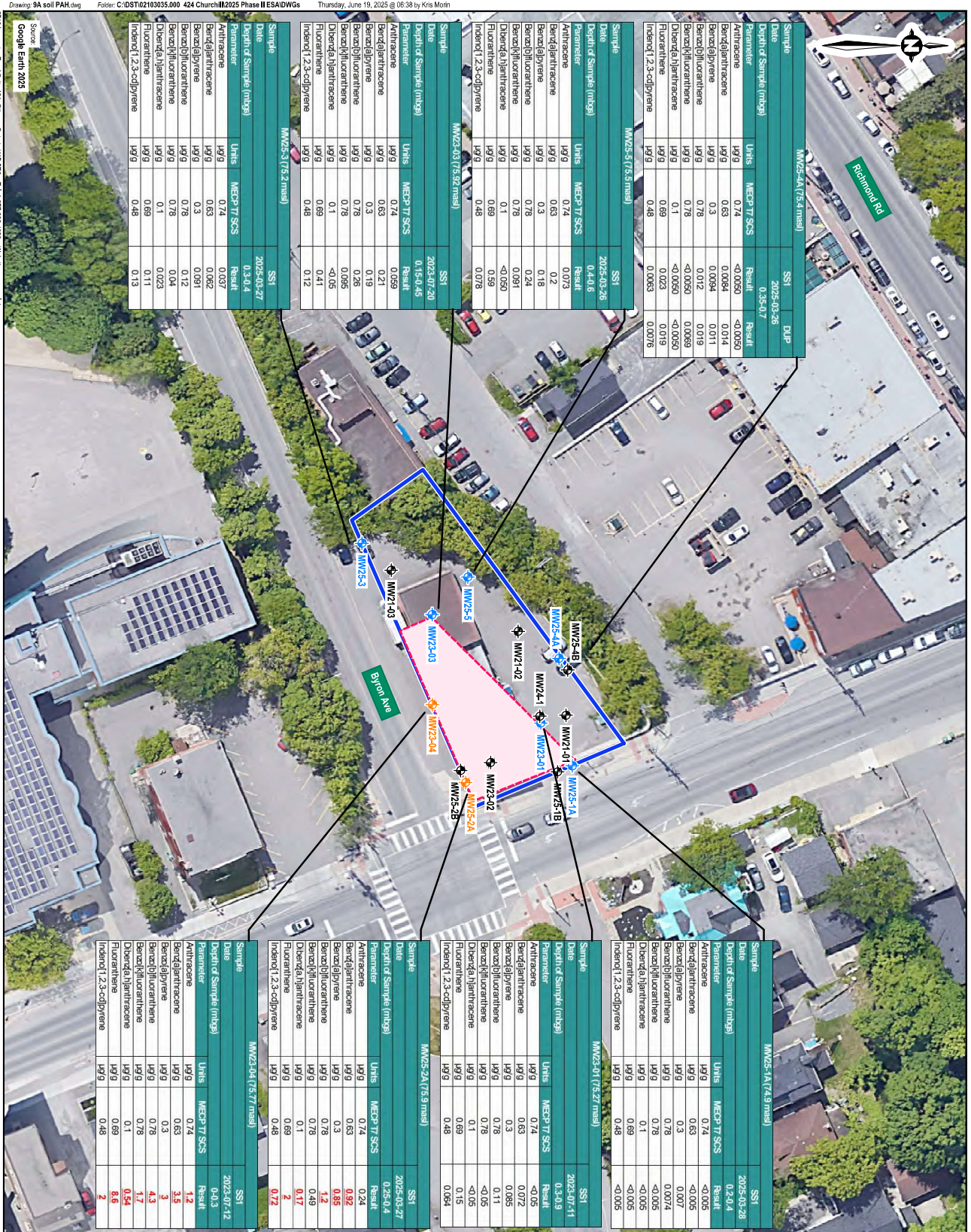
Note
1. This drawing shall be read in conjunction with the associated technical report.

Legend
 Phase One, Phase Two and Record of Site Condition (RSC) Property Boundary
 Soil Sample Meets Applicable Table 7 SCS for PAHs
 Soil Sample Exceeds Applicable Table 7 SCS for PAHs
 Soil Sample Not Analyzed
 Interred Extent of PAH Contamination in Soil

Sample	Depth of Sample (m/bgs)	Units	MECP/T/SCS	Result	SS1
Anthracene	19/9	0.74	0.63	<0.050	0.24
Benzo[a]anthracene	19/9	0.3	0.3	<0.0074	0.85
Benzo[b]fluoranthene	19/9	0.78	0.78	<0.050	1.2
Benzo[k]fluoranthene	19/9	0.1	0.1	<0.0050	0.49
Chloro[a]naphthalene	19/9	0.69	0.69	<0.050	0.17
Fluoranthene	19/9	0.48	0.48	<0.050	2
Indeno[1,2,3-cd]pyrene	19/9	0.48	0.48	<0.050	0.72

Sample	Depth of Sample (m/bgs)	Units	MECP/T/SCS	Result	SS1
Anthracene	19/9	0.74	0.63	<0.050	0.24
Benzo[a]anthracene	19/9	0.3	0.3	<0.0074	0.85
Benzo[b]fluoranthene	19/9	0.78	0.78	<0.050	1.2
Benzo[k]fluoranthene	19/9	0.1	0.1	<0.0050	0.49
Chloro[a]naphthalene	19/9	0.69	0.69	<0.050	0.17
Fluoranthene	19/9	0.48	0.48	<0.050	2
Indeno[1,2,3-cd]pyrene	19/9	0.48	0.48	<0.050	0.72

Sample	Depth of Sample (m/bgs)	Units	MECP/T/SCS	Result	SS1
Anthracene	19/9	0.74	0.63	<0.050	0.24
Benzo[a]anthracene	19/9	0.3	0.3	<0.0074	0.85
Benzo[b]fluoranthene	19/9	0.78	0.78	<0.050	1.2
Benzo[k]fluoranthene	19/9	0.1	0.1	<0.0050	0.49
Chloro[a]naphthalene	19/9	0.69	0.69	<0.050	0.17
Fluoranthene	19/9	0.48	0.48	<0.050	2
Indeno[1,2,3-cd]pyrene	19/9	0.48	0.48	<0.050	0.72



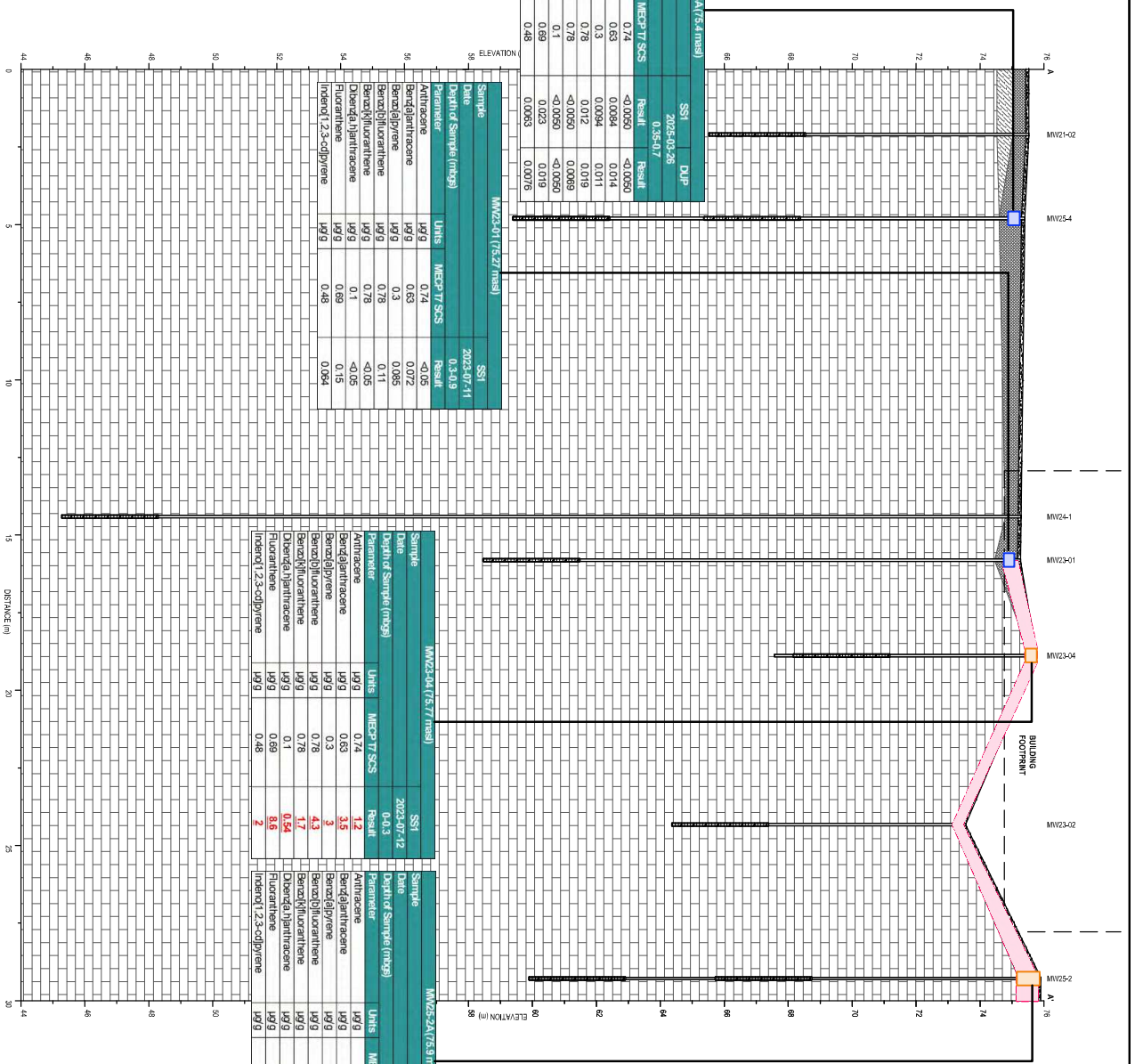
Sample	Depth of Sample (m/bgs)	Units	MECP/T/SCS	Result	SS1
Anthracene	19/9	0.74	0.63	<0.050	0.24
Benzo[a]anthracene	19/9	0.3	0.3	<0.0074	0.85
Benzo[b]fluoranthene	19/9	0.78	0.78	<0.050	1.2
Benzo[k]fluoranthene	19/9	0.1	0.1	<0.0050	0.49
Chloro[a]naphthalene	19/9	0.69	0.69	<0.050	0.17
Fluoranthene	19/9	0.48	0.48	<0.050	2
Indeno[1,2,3-cd]pyrene	19/9	0.48	0.48	<0.050	0.72

Sample	Depth of Sample (m/bgs)	Units	MECP/T/SCS	Result	SS1
Anthracene	19/9	0.74	0.63	<0.050	0.24
Benzo[a]anthracene	19/9	0.3	0.3	<0.0074	0.85
Benzo[b]fluoranthene	19/9	0.78	0.78	<0.050	1.2
Benzo[k]fluoranthene	19/9	0.1	0.1	<0.0050	0.49
Chloro[a]naphthalene	19/9	0.69	0.69	<0.050	0.17
Fluoranthene	19/9	0.48	0.48	<0.050	2
Indeno[1,2,3-cd]pyrene	19/9	0.48	0.48	<0.050	0.72

Sample	Depth of Sample (m/bgs)	Units	MECP/T/SCS	Result	SS1
Anthracene	19/9	0.74	0.63	<0.050	0.24
Benzo[a]anthracene	19/9	0.3	0.3	<0.0074	0.85
Benzo[b]fluoranthene	19/9	0.78	0.78	<0.050	1.2
Benzo[k]fluoranthene	19/9	0.1	0.1	<0.0050	0.49
Chloro[a]naphthalene	19/9	0.69	0.69	<0.050	0.17
Fluoranthene	19/9	0.48	0.48	<0.050	2
Indeno[1,2,3-cd]pyrene	19/9	0.48	0.48	<0.050	0.72

Sample	Depth of Sample (m/bgs)	Units	MECP/T/SCS	Result	SS1
Anthracene	19/9	0.74	0.63	<0.050	0.24
Benzo[a]anthracene	19/9	0.3	0.3	<0.0074	0.85
Benzo[b]fluoranthene	19/9	0.78	0.78	<0.050	1.2
Benzo[k]fluoranthene	19/9	0.1	0.1	<0.0050	0.49
Chloro[a]naphthalene	19/9	0.69	0.69	<0.050	0.17
Fluoranthene	19/9	0.48	0.48	<0.050	2
Indeno[1,2,3-cd]pyrene	19/9	0.48	0.48	<0.050	0.72

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MW25-4A (75.4 masl)			SS1			DQP		
Sample	Date	Depth of Sample (mbs)	Units	MECP 7 SCS	Result	Units	MECP 7 SCS	Result
Anthracene	19/9	0.74	U9/9	0.63	<0.0050	U9/9	0.63	<0.0050
Benz[a]anthracene	19/9	0.3	U9/9	0.0084	0.014	U9/9	0.3	0.011
Benz[b]fluoranthene	19/9	0.78	U9/9	0.012	0.019	U9/9	0.78	0.019
Benz[k]fluoranthene	19/9	0.1	U9/9	<0.0050	0.0069	U9/9	0.1	0.0069
Dibenz[a,h]anthracene	19/9	0.89	U9/9	0.023	<0.0050	U9/9	0.89	<0.0050
Fluoranthene	19/9	0.48	U9/9	0.0063	0.076	U9/9	0.48	0.076

MW23-04 (75.27 masl)			SS1			DQP		
Sample	Date	Depth of Sample (mbs)	Units	MECP 7 SCS	Result	Units	MECP 7 SCS	Result
Anthracene	19/9	0.74	U9/9	0.63	<0.05	U9/9	0.74	<0.05
Benz[a]anthracene	19/9	0.3	U9/9	0.072	0.11	U9/9	0.3	0.085
Benz[b]fluoranthene	19/9	0.78	U9/9	0.11	<0.05	U9/9	0.78	<0.05
Benz[k]fluoranthene	19/9	0.1	U9/9	<0.05	0.15	U9/9	0.1	<0.05
Dibenz[a,h]anthracene	19/9	0.89	U9/9	0.15	0.064	U9/9	0.89	0.064
Fluoranthene	19/9	0.48	U9/9	0.064	0.064	U9/9	0.48	0.064

MW23-04 (75.77 masl)			SS1			DQP		
Sample	Date	Depth of Sample (mbs)	Units	MECP 7 SCS	Result	Units	MECP 7 SCS	Result
Anthracene	19/9	0.74	U9/9	0.63	1.2	U9/9	0.74	3.5
Benz[a]anthracene	19/9	0.3	U9/9	0.3	4.3	U9/9	0.3	1.7
Benz[b]fluoranthene	19/9	0.78	U9/9	0.78	1.7	U9/9	0.78	0.54
Benz[k]fluoranthene	19/9	0.1	U9/9	0.1	0.54	U9/9	0.1	0.88
Dibenz[a,h]anthracene	19/9	0.89	U9/9	0.89	0.88	U9/9	0.89	0.88
Fluoranthene	19/9	0.48	U9/9	0.48	2	U9/9	0.48	2

MW25-2A (75.9 masl)			SS1			DQP		
Sample	Date	Depth of Sample (mbs)	Units	MECP 7 SCS	Result	Units	MECP 7 SCS	Result
Anthracene	19/9	0.74	U9/9	0.63	0.24	U9/9	0.74	0.92
Benz[a]anthracene	19/9	0.3	U9/9	0.3	0.85	U9/9	0.3	1.2
Benz[b]fluoranthene	19/9	0.78	U9/9	0.78	0.49	U9/9	0.78	0.17
Benz[k]fluoranthene	19/9	0.1	U9/9	0.1	0.17	U9/9	0.1	2
Dibenz[a,h]anthracene	19/9	0.89	U9/9	0.89	0.17	U9/9	0.89	0.17
Fluoranthene	19/9	0.48	U9/9	0.48	0.72	U9/9	0.48	0.72

Note
 1. This drawing shall be read in conjunction with the associated technical report.
 2. Vertical delineation achieved by bedrock located 0.1' - 1.2' mags across the Site.

- Legend**
- Asphalt
 - Fill
 - Sandy Silt
 - Limestone Bedrock
 - Monitoring Well Screened Interval
 - Soil Sample Exceeds MECP Table 7 SCS for PAHs
 - Soil Sample Meets MECP Table 7 SCS for PAHs
 - Inferred Extents of PAH Contamination in Soil

ENLOBE

424 Church Properties Inc.

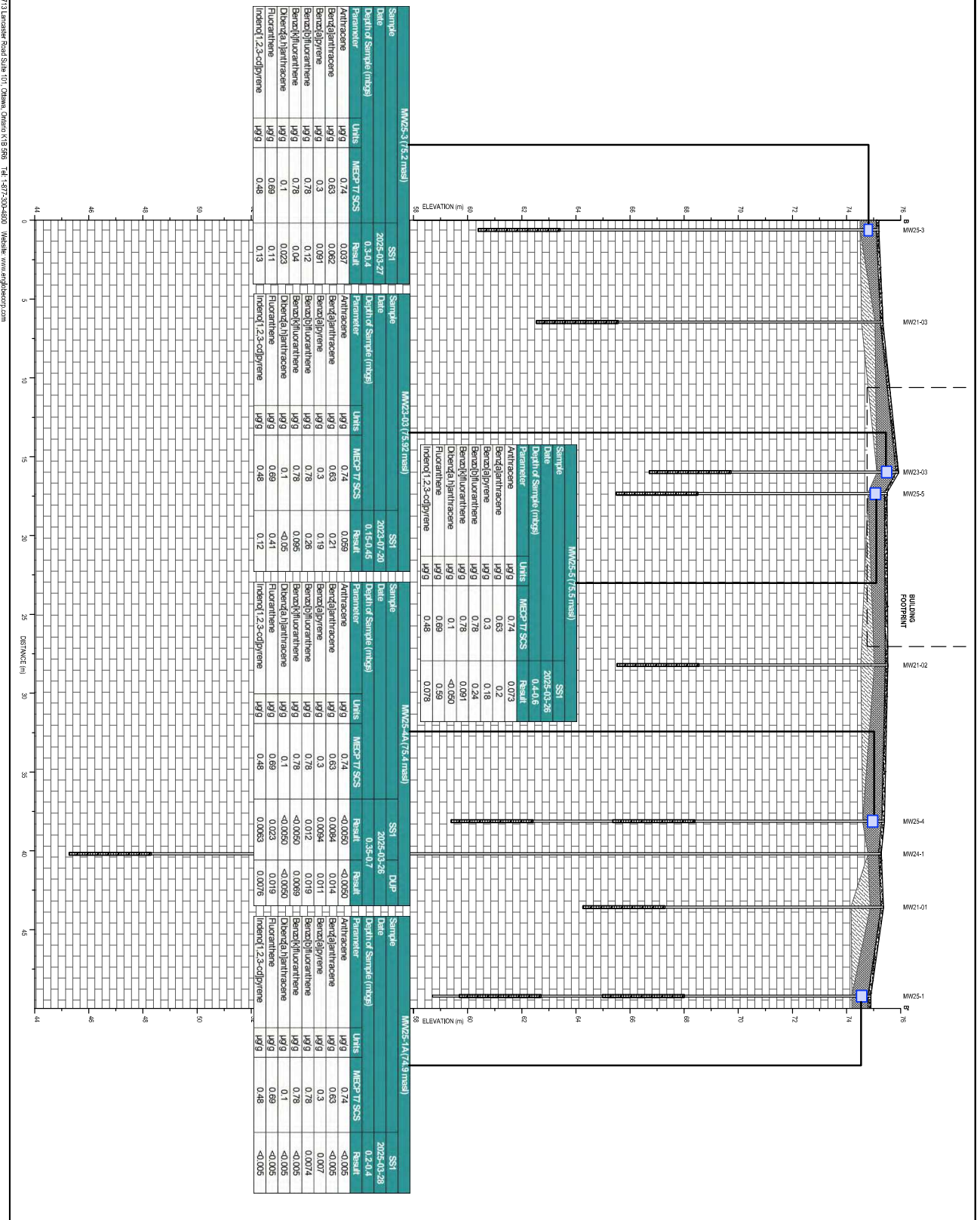
Phase Two Environmental Site Assessment

Cross Section A-A' - PAHs in Soil

Designed By: C.O. Scale: As shown
 Drawn By: K.M. Date: June 2025
 Approved By: Project No. 02103035.000
 Figure No. 9B

Revision	Date	Issue	Approval
E	06/19/2025	Preliminary	Approval

Site: 424 Church Avenue North, Ottawa, ON
 Report Title: Phase Two Environmental Site Assessment



ENLOBE

Legend

- Asphalt
- Fill
- Sandy Silt
- Limestone Bedrock
- Monitoring Well Screened Interval
- Soil Sample Exceeds MECP Table 7 SCS for PAHs
- Soil Sample Meets MECP Table 7 SCS for PAHs
- Inferred Extents of PAH Contamination in Soil

Note

- This drawing shall be read in conjunction with the associated technical report.
- Vertical definition achieved by bedrock located 0.1' - 1.2 mbs across the site.

Phase Two Environmental Site Assessment

Cross Section B-B' - PAHs in Soil

Designed By: C.O. Scale: As shown

Drawn By: K.M. Date: June 2025

Approved By: Project No. 02103035.000

Figure No. **9C**

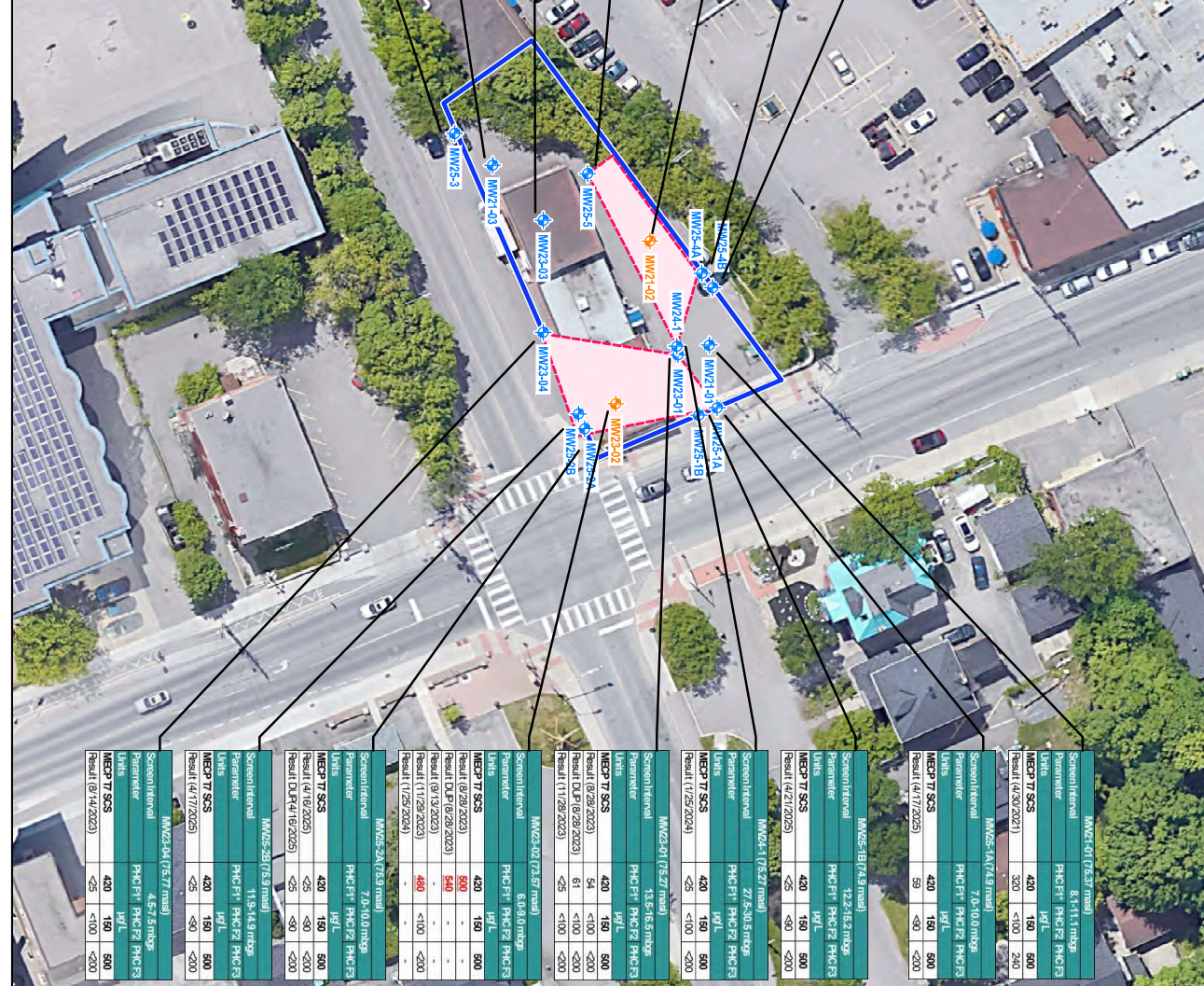
Revision	Date	Issue	Approval
E	06/19/2025	Preliminary	Approved

Site: 424 Churchill Avenue North, Ottawa, ON

Client: Churchill Properties Inc.

27131 Alexander Road Suite 101, Ottawa, Ontario K1S 5R6 Tel: 467-230-8800 Website: www.engllobe.com

Source: Google Earth 2025



ENGLOBE

Note

- This drawing shall be read in conjunction with the associated technical report.
- ↑: Higher of PHC FI and PHC FI minus BTEX concentrations
- ⋅: Parameter not analyzed on specified date.

Legend

- Phase One, Phase Two and Record of Site Condition (ROSO) Property Boundary
- Groundwater Sample Meets Applicable Table 7 SCS for PHCs
- Groundwater Sample Exceeds Applicable Table 7 SCS for PHCs
- Interred Extent of PHC Contamination in Groundwater

Scale

0 10 20 30 m

0 10 20 30 m

Scale reference when printed (100% map scale size) (1:10,000) (1:10,000)

Revision

Revision	Date	Issue	Approval
E	06/19/2025	Preliminary	

Client

Churchill Properties Inc.

Site

424 Churchill Avenue North, Ottawa, ON

Report Title

Phase Two Environmental Site Assessment

Drawing Title

PHCs in Groundwater

Designed By

C.O.

Drawn By

K.M.

Approved By

Scale

As shown

Date

June 2025

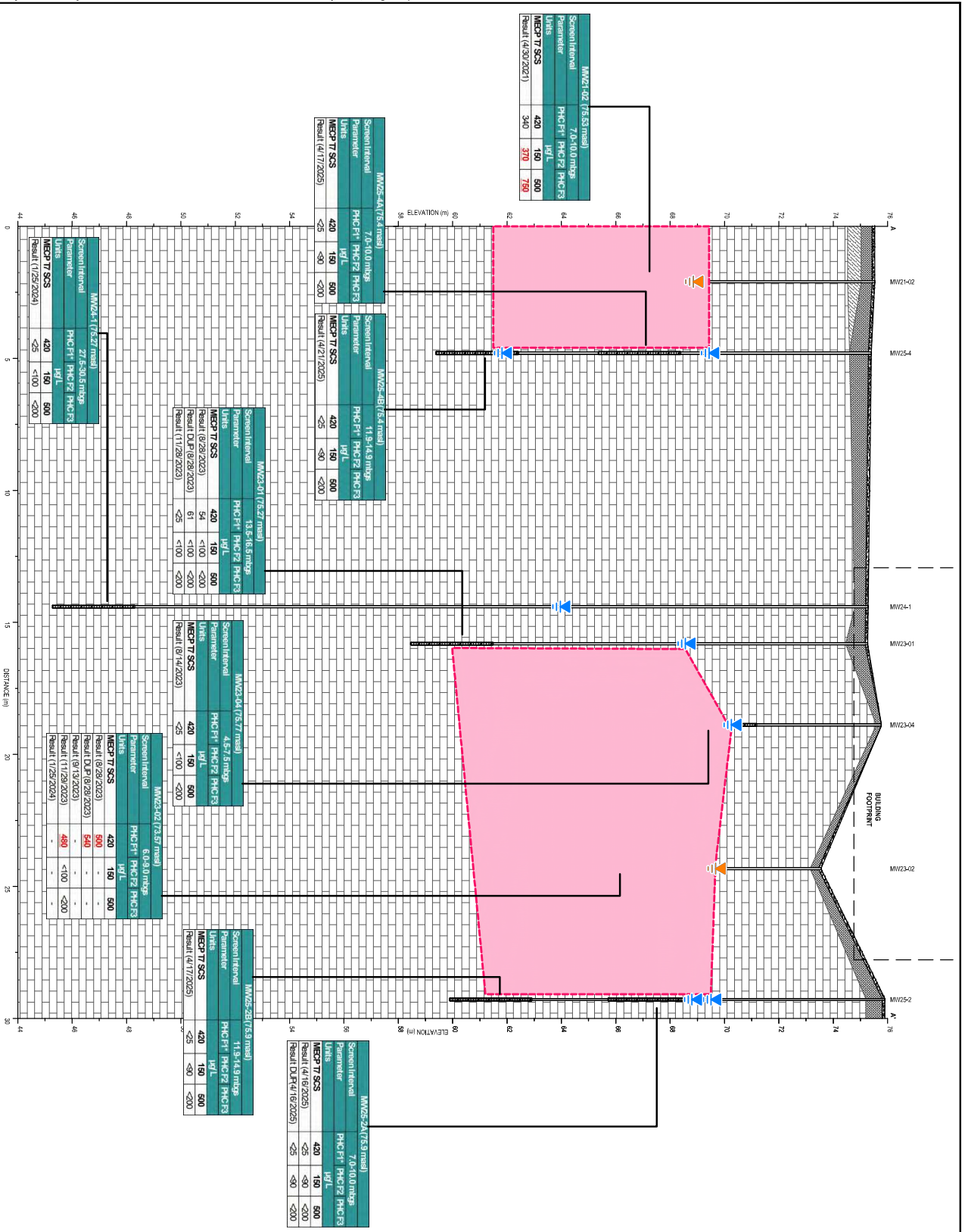
Project No.

02103035.000

Figure No.

10A

27131 Specialist Road Suite 101, Ottawa, Ontario K1B 5R9 Tel: 437-230-0800 Website: www.engagecorp.com



ENLOBE

Note

1. This drawing shall be read in conjunction with the associated technical report.

Legend

- Asphalt
- Fill
- Sandy Silt
- Limestone Bedrock
- Monitoring Well Screened Interval
- GW Sample Exceeds MECP Table 7 SCS for PHCs
- GW Sample Meets MECP Table 7 SCS for PHCs
- Intended Extents of PHC Contamination in Groundwater

Figure No. 10B

Phase Two Environmental Site Assessment

Cross Section A-A - PHCs in Groundwater

Site: 424 Churchill Avenue North, Ottawa, ON

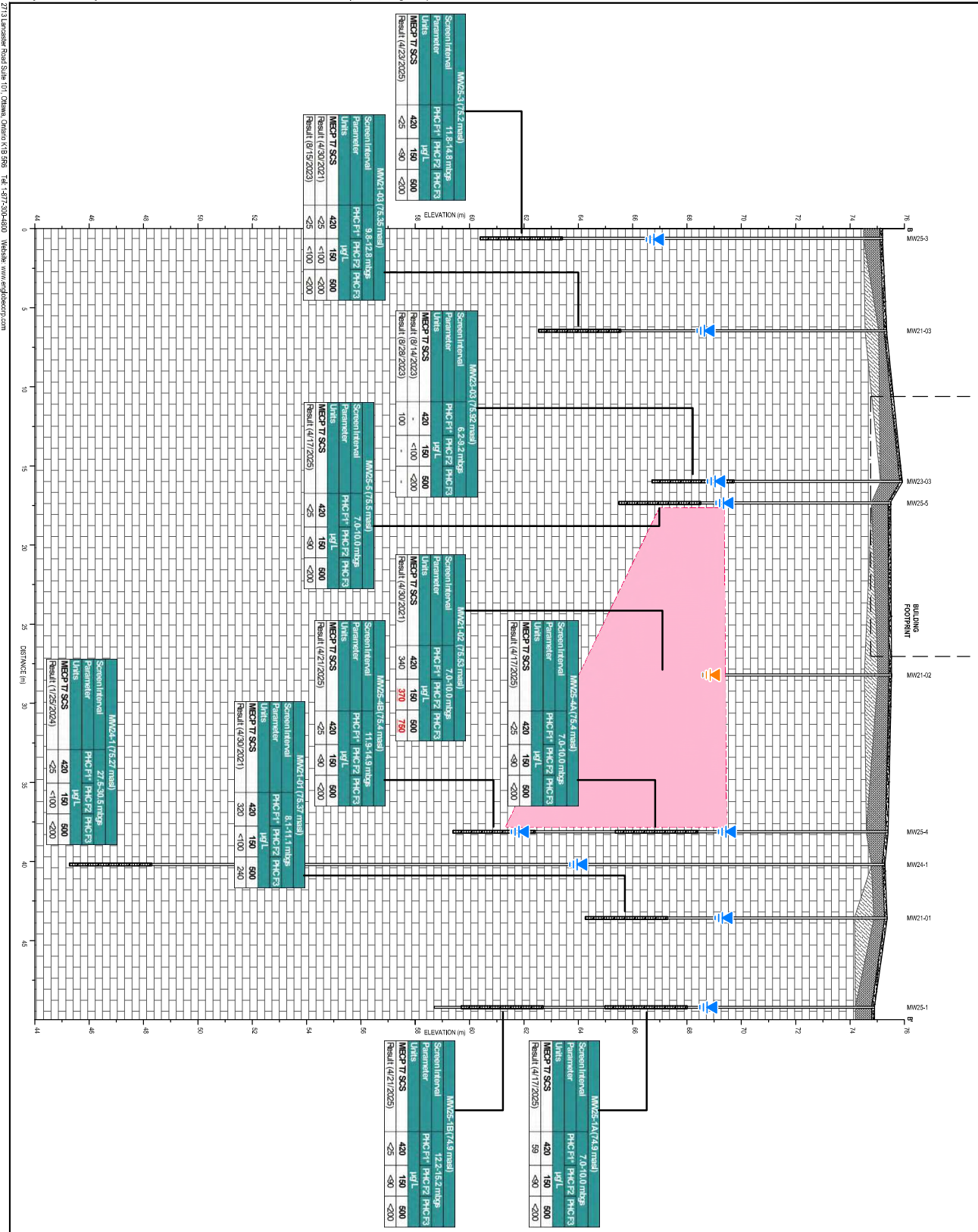
Client: Churchill Properties Inc.

Revision	Date	Issue	Approval
E	06/19/2025	Preliminary	Approval

Drawn By: C.O. Scale: As shown

Checked By: K.M. Date: June 2025

Approved By: Project No. 02103035.000



Note
1. This drawing shall be read in conjunction with the associated technical report.

- Legend**
- Asphalt
 - Fill
 - Sandy Silt
 - Limestone Bedrock
 - Monitoring Well Screened Interval
 - GW Sample Exceeds MECP Table 7 SCS for PHCs
 - GW Sample Meets MECP Table 7 SCS for PHCs
 - Interred Extents of PHC Contamination in Groundwater

Site: 424 Churchill Avenue North, Ottawa, ON

Client: Churchill Properties Inc.

Revision: E 06/19/2025 Preliminary Issue Approved

Report Title: Phase Two Environmental Site Assessment

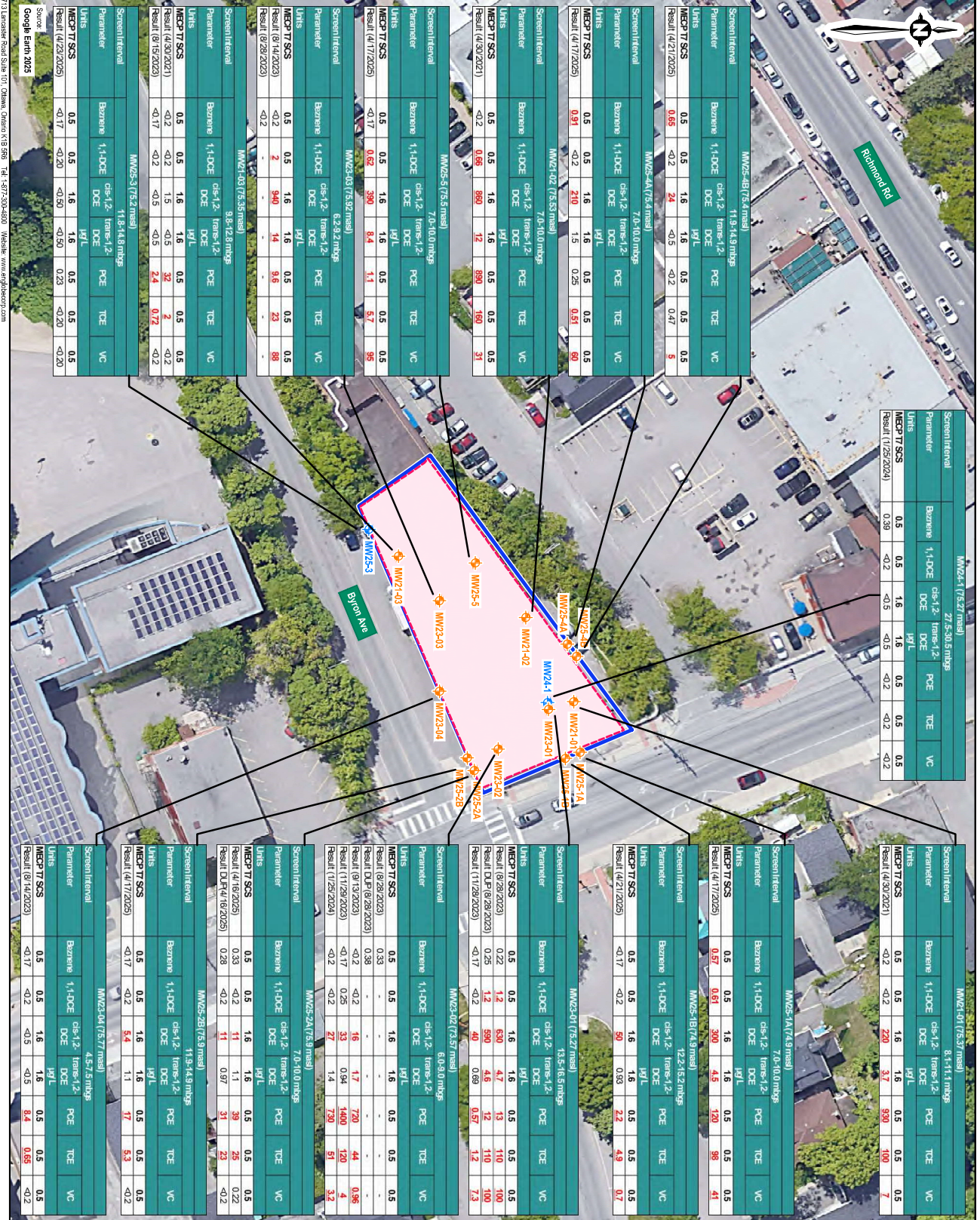
Drawing Title: Cross Section B-B - PHCs in Groundwater

Designed By: C.O. **Scale:** As shown

Drawn By: K.M. **Date:** June 2025

Approved By: **Project No.:** 02103035.000

Figure No.: 10C



Screen Interval	Parameter	Result (1/25/2024)
MW24-1 (7.37 mssl)	Benzene	0.39
MW24-1 (7.37 mssl)	1,1-DOCE	<0.2
MW24-1 (7.37 mssl)	dis-1,2-Trans-1,2-DCP	<0.5
MW24-1 (7.37 mssl)	1,1,1-TCPE	<0.5
MW24-1 (7.37 mssl)	1,1,1-TCE	<0.2
MW24-1 (7.37 mssl)	VC	<0.2

Screen Interval	Parameter	Result (4/30/2021)
MW24-10 (7.537 mssl)	Benzene	<0.2
MW24-10 (7.537 mssl)	1,1-DOCE	<0.2
MW24-10 (7.537 mssl)	dis-1,2-Trans-1,2-DCP	2.20
MW24-10 (7.537 mssl)	1,1,1-TCPE	3.7
MW24-10 (7.537 mssl)	1,1,1-TCE	9.90
MW24-10 (7.537 mssl)	VC	100
MW24-10 (7.537 mssl)	VC	7

Screen Interval	Parameter	Result (4/21/2025)
MW25-4B (7.54 mssl)	Benzene	0.65
MW25-4B (7.54 mssl)	1,1-DOCE	<0.2
MW25-4B (7.54 mssl)	dis-1,2-Trans-1,2-DCP	2.4
MW25-4B (7.54 mssl)	1,1,1-TCPE	<0.5
MW25-4B (7.54 mssl)	1,1,1-TCE	<0.2
MW25-4B (7.54 mssl)	VC	5

Screen Interval	Parameter	Result (4/21/2025)
MW25-1A (7.43 mssl)	Benzene	0.57
MW25-1A (7.43 mssl)	1,1-DOCE	0.61
MW25-1A (7.43 mssl)	dis-1,2-Trans-1,2-DCP	3.00
MW25-1A (7.43 mssl)	1,1,1-TCPE	4.5
MW25-1A (7.43 mssl)	1,1,1-TCE	1.90
MW25-1A (7.43 mssl)	VC	98
MW25-1A (7.43 mssl)	VC	41

Screen Interval	Parameter	Result (4/17/2025)
MW25-4A (7.54 mssl)	Benzene	0.91
MW25-4A (7.54 mssl)	1,1-DOCE	<0.2
MW25-4A (7.54 mssl)	dis-1,2-Trans-1,2-DCP	2.10
MW25-4A (7.54 mssl)	1,1,1-TCPE	1.5
MW25-4A (7.54 mssl)	1,1,1-TCE	0.25
MW25-4A (7.54 mssl)	VC	0.91
MW25-4A (7.54 mssl)	VC	90

Screen Interval	Parameter	Result (4/21/2025)
MW25-1B (7.43 mssl)	Benzene	<0.17
MW25-1B (7.43 mssl)	1,1-DOCE	<0.2
MW25-1B (7.43 mssl)	dis-1,2-Trans-1,2-DCP	5.0
MW25-1B (7.43 mssl)	1,1,1-TCPE	0.93
MW25-1B (7.43 mssl)	1,1,1-TCE	2.2
MW25-1B (7.43 mssl)	VC	4.9
MW25-1B (7.43 mssl)	VC	0.7

Screen Interval	Parameter	Result (4/17/2025)
MW25-5 (7.53 mssl)	Benzene	0.5
MW25-5 (7.53 mssl)	1,1-DOCE	0.86
MW25-5 (7.53 mssl)	dis-1,2-Trans-1,2-DCP	8.80
MW25-5 (7.53 mssl)	1,1,1-TCPE	7.2
MW25-5 (7.53 mssl)	1,1,1-TCE	8.90
MW25-5 (7.53 mssl)	VC	1.60
MW25-5 (7.53 mssl)	VC	31

Screen Interval	Parameter	Result (6/28/2023)
MW25-02 (7.337 mssl)	Benzene	0.22
MW25-02 (7.337 mssl)	1,1-DOCE	1.2
MW25-02 (7.337 mssl)	dis-1,2-Trans-1,2-DCP	6.30
MW25-02 (7.337 mssl)	1,1,1-TCPE	4.7
MW25-02 (7.337 mssl)	1,1,1-TCE	13
MW25-02 (7.337 mssl)	VC	110
MW25-02 (7.337 mssl)	VC	100
MW25-02 (7.337 mssl)	VC	100
MW25-02 (7.337 mssl)	VC	1.2
MW25-02 (7.337 mssl)	VC	7.3

Screen Interval	Parameter	Result (8/14/2023)
MW23-03 (6.292 mssl)	Benzene	0.5
MW23-03 (6.292 mssl)	1,1-DOCE	0.82
MW23-03 (6.292 mssl)	dis-1,2-Trans-1,2-DCP	3.90
MW23-03 (6.292 mssl)	1,1,1-TCPE	8.4
MW23-03 (6.292 mssl)	1,1,1-TCE	1.1
MW23-03 (6.292 mssl)	VC	5.7
MW23-03 (6.292 mssl)	VC	9.5

Screen Interval	Parameter	Result (9/13/2023)
MW23-02 (6.292 mssl)	Benzene	0.33
MW23-02 (6.292 mssl)	1,1-DOCE	<0.2
MW23-02 (6.292 mssl)	dis-1,2-Trans-1,2-DCP	1.6
MW23-02 (6.292 mssl)	1,1,1-TCPE	1.7
MW23-02 (6.292 mssl)	1,1,1-TCE	7.00
MW23-02 (6.292 mssl)	VC	4.4
MW23-02 (6.292 mssl)	VC	0.96
MW23-02 (6.292 mssl)	VC	1.4
MW23-02 (6.292 mssl)	VC	3.2

Screen Interval	Parameter	Result (8/14/2023)
MW23-04 (7.537 mssl)	Benzene	0.5
MW23-04 (7.537 mssl)	1,1-DOCE	0.2
MW23-04 (7.537 mssl)	dis-1,2-Trans-1,2-DCP	1.6
MW23-04 (7.537 mssl)	1,1,1-TCPE	1.4
MW23-04 (7.537 mssl)	1,1,1-TCE	3.9
MW23-04 (7.537 mssl)	VC	2.9
MW23-04 (7.537 mssl)	VC	8.8

Screen Interval	Parameter	Result (4/16/2025)
MW25-2A (7.53 mssl)	Benzene	0.5
MW25-2A (7.53 mssl)	1,1-DOCE	<0.2
MW25-2A (7.53 mssl)	dis-1,2-Trans-1,2-DCP	1.1
MW25-2A (7.53 mssl)	1,1,1-TCPE	1.1
MW25-2A (7.53 mssl)	1,1,1-TCE	3.9
MW25-2A (7.53 mssl)	VC	2.9
MW25-2A (7.53 mssl)	VC	2.2
MW25-2A (7.53 mssl)	VC	3.1
MW25-2A (7.53 mssl)	VC	2.5
MW25-2A (7.53 mssl)	VC	<0.2

ENGLOBE

11A

Note

- This drawing shall be read in conjunction with the associated technical report.
- Parameter not analyzed on specified date.
- 1,1-DOCE: 1,1-Dichloroethylene
- dis-1,2-DCP: dis-1,2-Dichloroethylene
- trans-1,2-DCP: trans-1,2-Dichloroethylene
- PCE: Tetrachloroethylene
- TCE: Trichloroethylene
- Vinyl chloride

Legend

- Phase One, Phase Two and Record of Site Condition (RSC) Property Boundary
- Groundwater Sample Meets Applicable Table 7 SCS for VOCs
- Groundwater Sample Exceeds Applicable Table 7 SCS for VOCs
- Inferred Extent of VOC Contamination in Groundwater

Site
424 Church Hill Avenue North, Ottawa, ON

Client
Churchill Properties Inc.

Revision

Revision	Date	Issue	Approval
E	06/19/2025	Preliminary	
		Final	

Phase Two Environmental Site Assessment

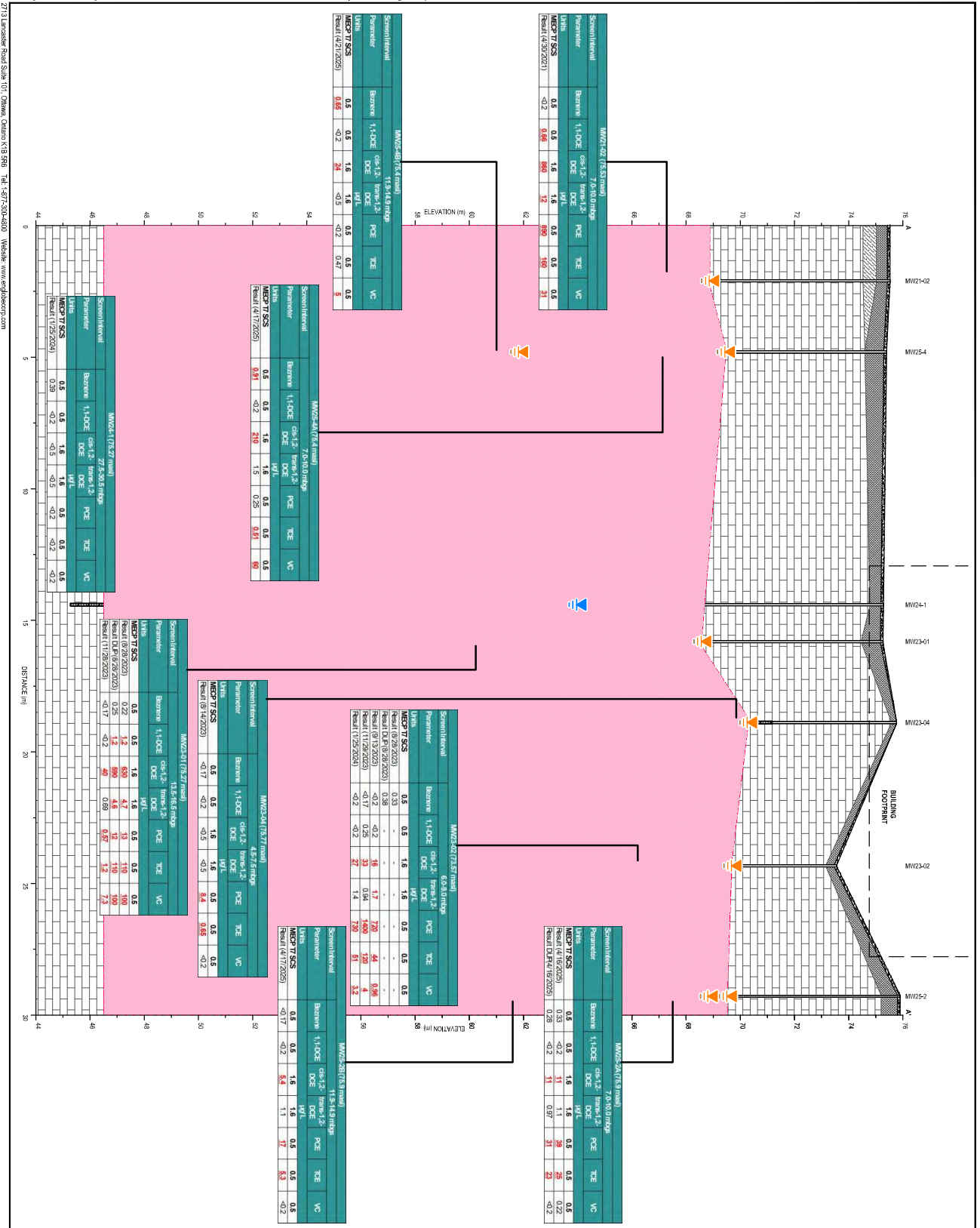
VOCs in Groundwater

Drawn by
C.O.

Checked by
K.M.

Date
June 2025

Project No.
02103035.000



Note
1. This drawing shall be read in conjunction with the associated technical report.

- Legend**
- Asphalt
 - Fill
 - Sandy Silt
 - Limestone Bedrock
 - Monitoring Well Screened Interval
 - GW Sample Exceeds MECPT Table 7 SCS for VOCs
 - GW Sample Meets MECPT Table 7 SCS for VOCs
 - Interred Extents of VOC Contamination in Groundwater

Site
424 Churchill Avenue North, Ottawa, ON

Phase Two Environmental Site Assessment

Cross Section A-A - VOCs in Groundwater

Client: Churchill Properties Inc.

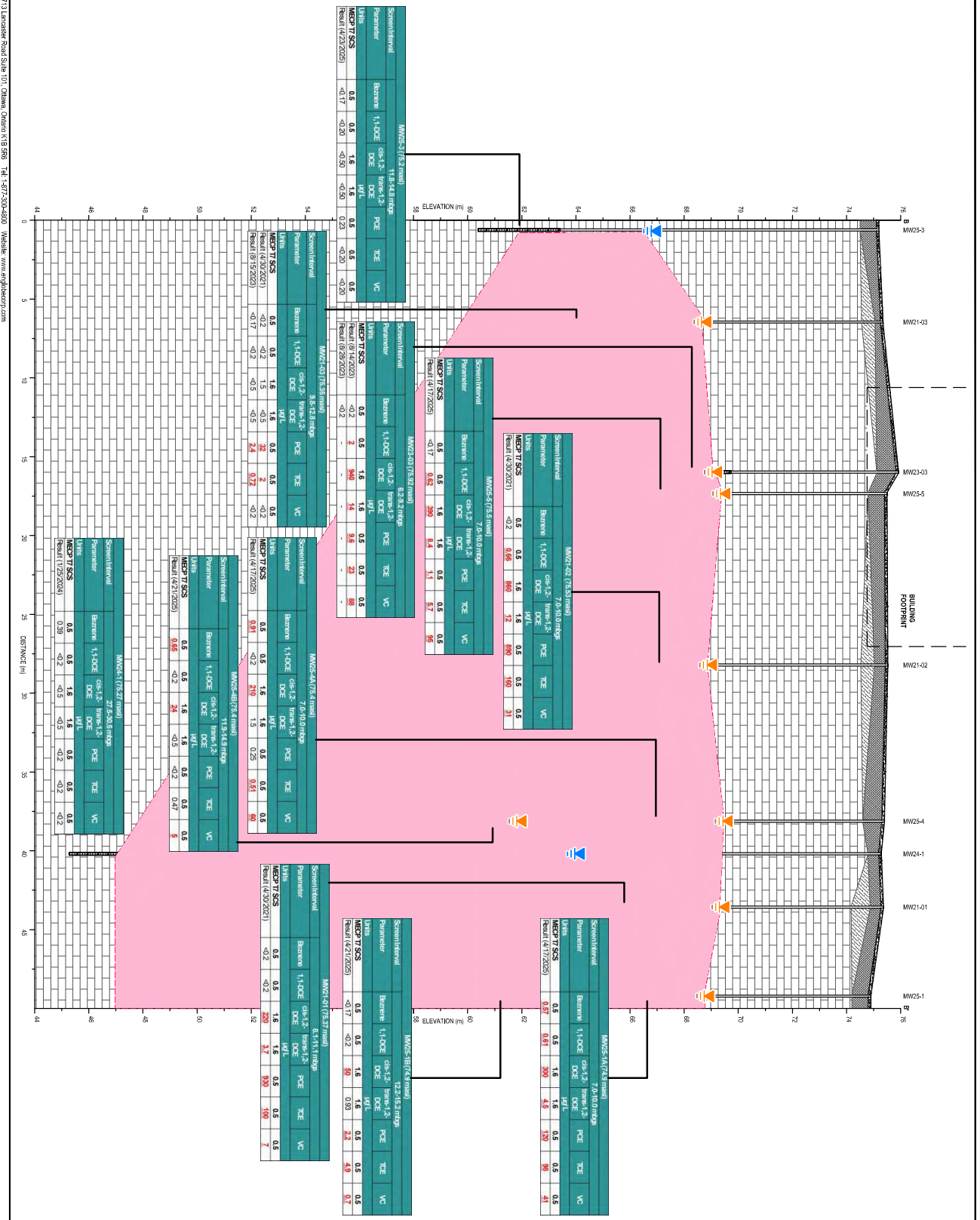
Revision: 06/19/2025 Preliminary Approval

Drawn By: C.O. As shown

Approved By: K.M. June 2025

Project No.: 02103035.000

Figure No.: 11B



Note
1. This drawing shall be read in conjunction with the associated technical report.

Legend

- Asphalt
- Fill
- Sandy Silt
- Limestone Bedrock
- Monitoring Well Screened Interval
- GW Sample Exceeds MECF Table 7 SCS for VOCs
- GW Sample Meets MECF Table 7 SCS for VOCs
- Interred Extents of VOC Contamination in Groundwater

Revision	Date	Issue	Approval
E	06/19/2025	Preliminary	Approval

Churchill Properties Inc.

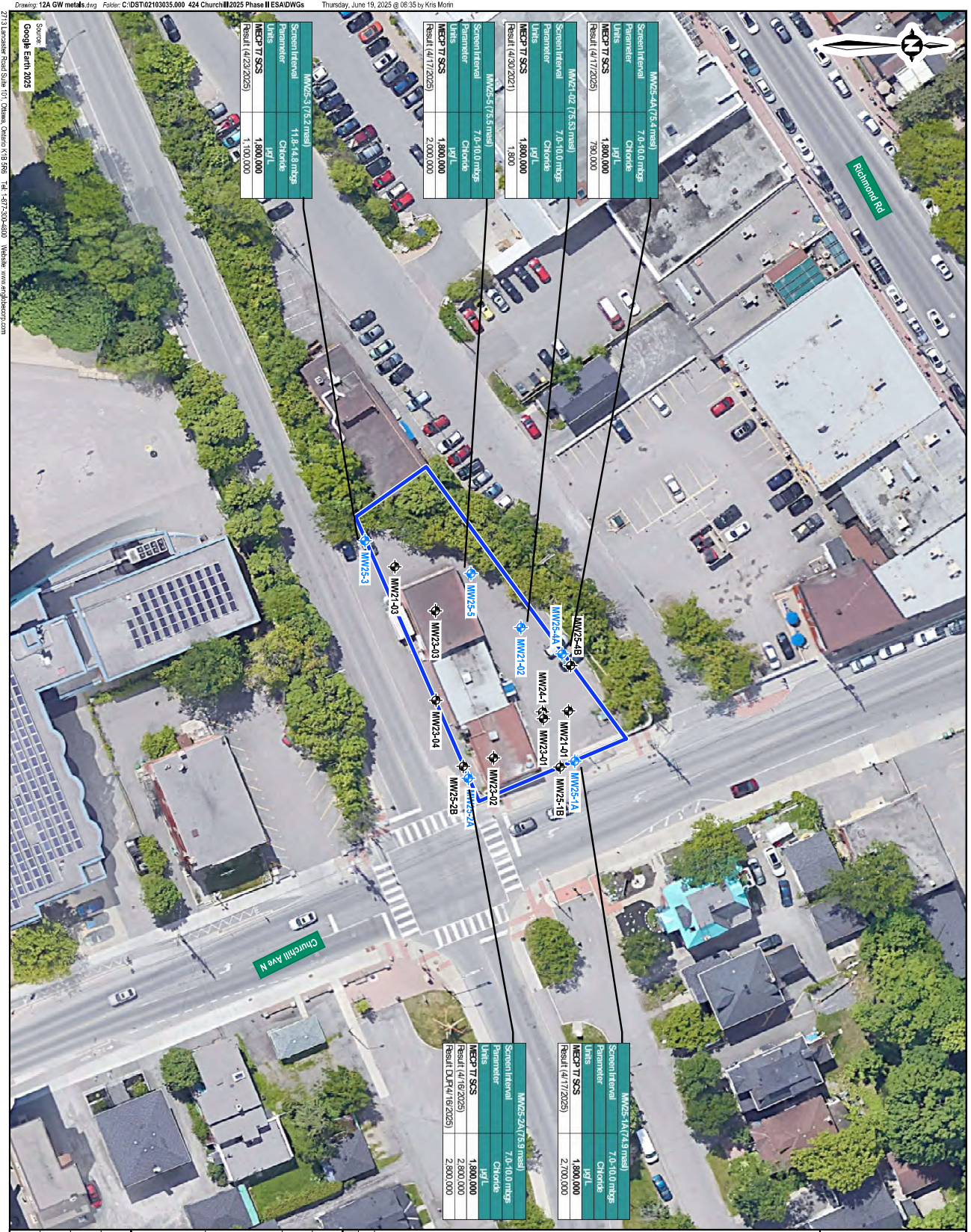
Site: 424 Churchill Avenue North, Ottawa, ON

Report Title: Phase Two Environmental Site Assessment

Drawing Title: Cross Section B-B - VOCs in Groundwater

Designed By: C.O.	Scale: As shown
Drawn By: K.M.	Date: June 2025
Approved By:	Project No: 02103035.000
Figure No: 11C	

Source: Google Earth 2025
 27131 University Road Suite 101, Ottawa, Ontario K1S 5R6 Tel: 437-230-4800 Website: www.engllobe.com



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Note

1. This drawing shall be read in conjunction with the associated technical report.

Legend

- Phase One, Phase Two and Record of Site Condition (RSO) Property Boundary
- ◆ Groundwater Sample Meets Applicable Table 7 SCS for Metals and Inorganics
- ◆ Groundwater Sample Exceeds Table 7 SCS for Metals and Inorganics
- ◆ Groundwater Sample Not Analyzed

Scale

0 10 20 30 m

0 10 20 30 m

Scale increments when printed at 100% using paper size A3 (41.27 x 29.7 cm)

Revision	Date	Issue	Approval
E	06/19/2025	Preliminary	

Client: Churchill Properties Inc.

Site: 424 Churchill Avenue North, Ottawa, ON

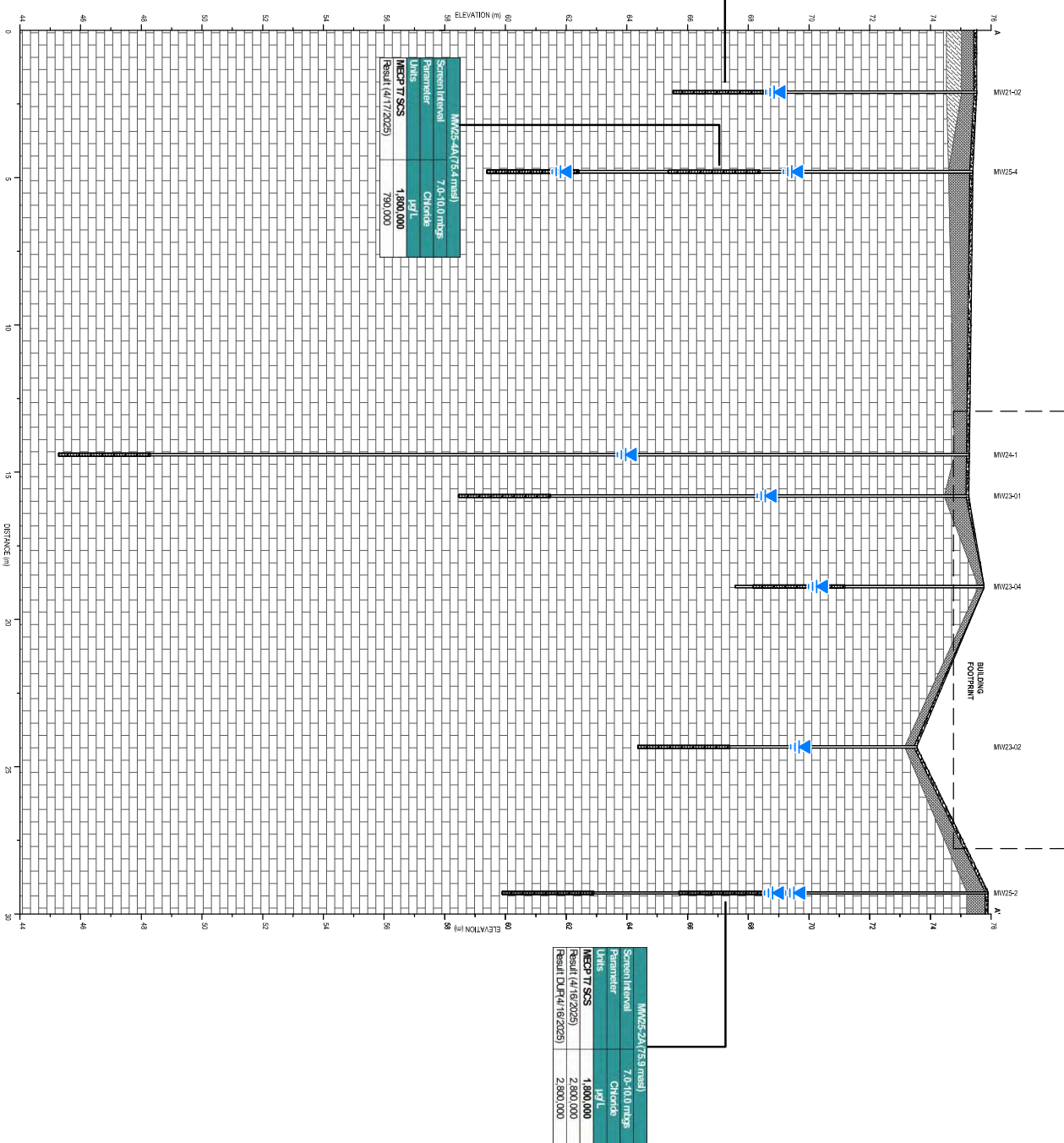
Report Title: Phase Two Environmental Site Assessment

Drawing Title: Metals, Hydrolyze-Forming Metals (HfMs), Na⁺ and Cl⁻ in Groundwater

Designed By	C.O.	Scale	As shown
Drawn By	K.M.	Date	June 2025
Approved By		Project No.	021103035.000
Figure No.	12A		

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Note

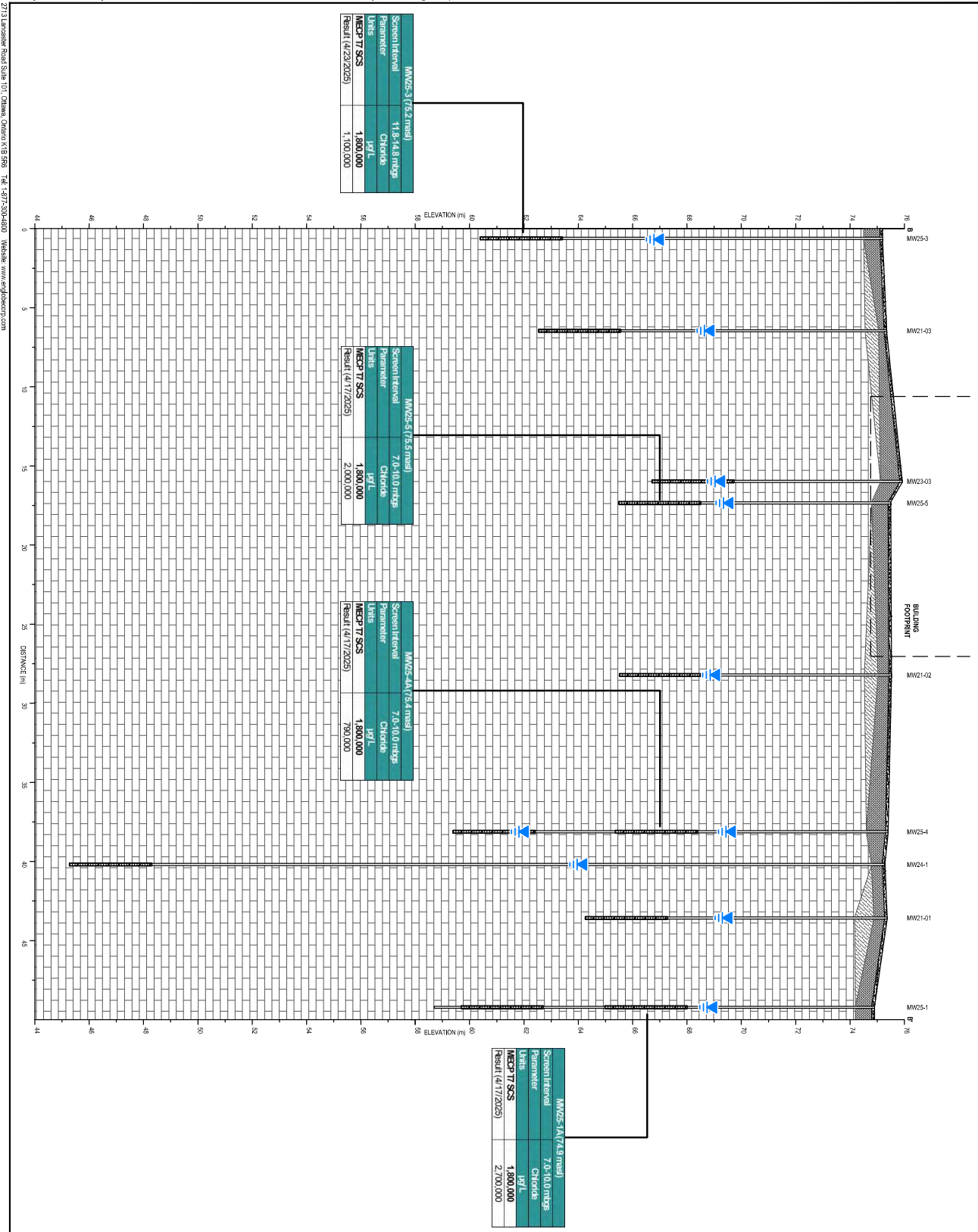
- This drawing shall be read in conjunction with the associated technical report.
- Analytical results on this figure include the following method groups: Metals: As, Se, Sb

Legend

- Asphalt
- Fill
- Sandy Silt
- Limestone Bedrock
- Monitoring Well Screened Interval
- GW Sample Excess MECP Table 7 SCS for Metals
- GW Sample Meets MECP Table 7 SCS for Metals
- Inferred Extents of Metals Contamination in Groundwater

E	06/19/2025	Preliminary	Approval
Revision	Date	Issue	
Churchill Properties Inc.			
424 Churchill Avenue North, Ottawa, ON			
Phase Two Environmental Site Assessment			
Drawing Title			
Cross Section A-A - Metals, Hydrate-forming Metals (HFMs), Na+ and Cl- in Groundwater			
Designed By	C.O.	Scale	As shown
Drawn By	K.M.	Date	June 2025
Approved By	B.W.	Project No.	02103035.000
Figure No.	12B		

27131 Lancaster Road Suite 101, Ottawa, Ontario K1S 5R9 Tel: 437-230-4800 Website: www.Englobe.com



Note

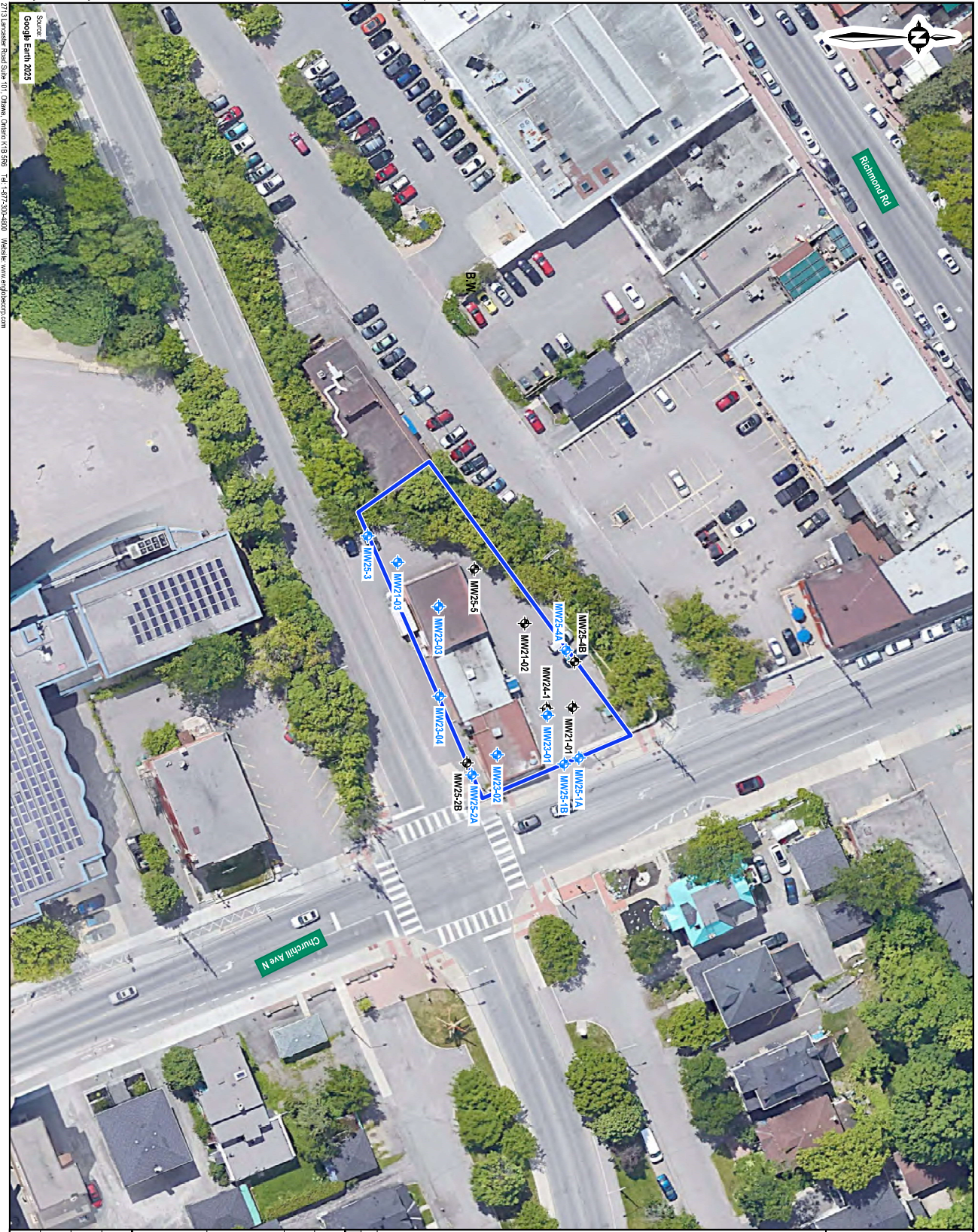
1. This drawing shall be read in conjunction with the associated technical report.
2. Analytical results on this figure include the following method groups: Metals: As, Se, Sb

Legend

- Asphalt
- Fill
- Sandy Silt
- Limestone Bedrock
- Monitoring Well Screened Interval
- GW Sample Excess MECP Table 7 SCS for Metals
- GW Sample Meets MECP Table 7 SCS for Metals
- Inferred Extents of Metals Contamination in Groundwater

<p>Churchill Properties Inc.</p> <p>424 Churchill Avenue North, Ottawa, ON</p>		<p>Preliminary Issue</p>	
<p>Site</p>	<p>06/19/2025</p>	<p>Date</p>	<p>Approval</p>
<p>Phase Two Environmental Site Assessment</p>			
<p>Cross Section B-B' - Metals, Hydrate-Forming Metals (HFMs), Na+ and Cl- in Groundwater</p>			
<p>Designed By</p>	<p>C.O.</p>	<p>Scale</p>	<p>As shown</p>
<p>Drawn By</p>	<p>K.M.</p>	<p>Date</p>	<p>June 2025</p>
<p>Approved By</p>	<p>B.W.</p>	<p>Project No.</p>	<p>02103035,000</p>
<p>Figure No.</p>	<p>12C</p>		

Source: Google Earth 2025
 27131 University Road Suite 101 Ottawa, Ontario K1S 8P6 Tel: 487-230-8800 Website: www.engllobe.com

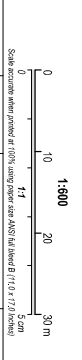


Note

1. This drawing shall be read in conjunction with the associated technical report.

Legend

- ▬ Phase One, Phase Two and Record of Site Condition (RSO) Property Boundary
- ◆ Groundwater Sample Meets Applicable Table 7 SCS for PAHs
- ◆ Groundwater Sample Not Analyzed



Revision	Date	Issue	Approval
E	06/19/2025	Preliminary	

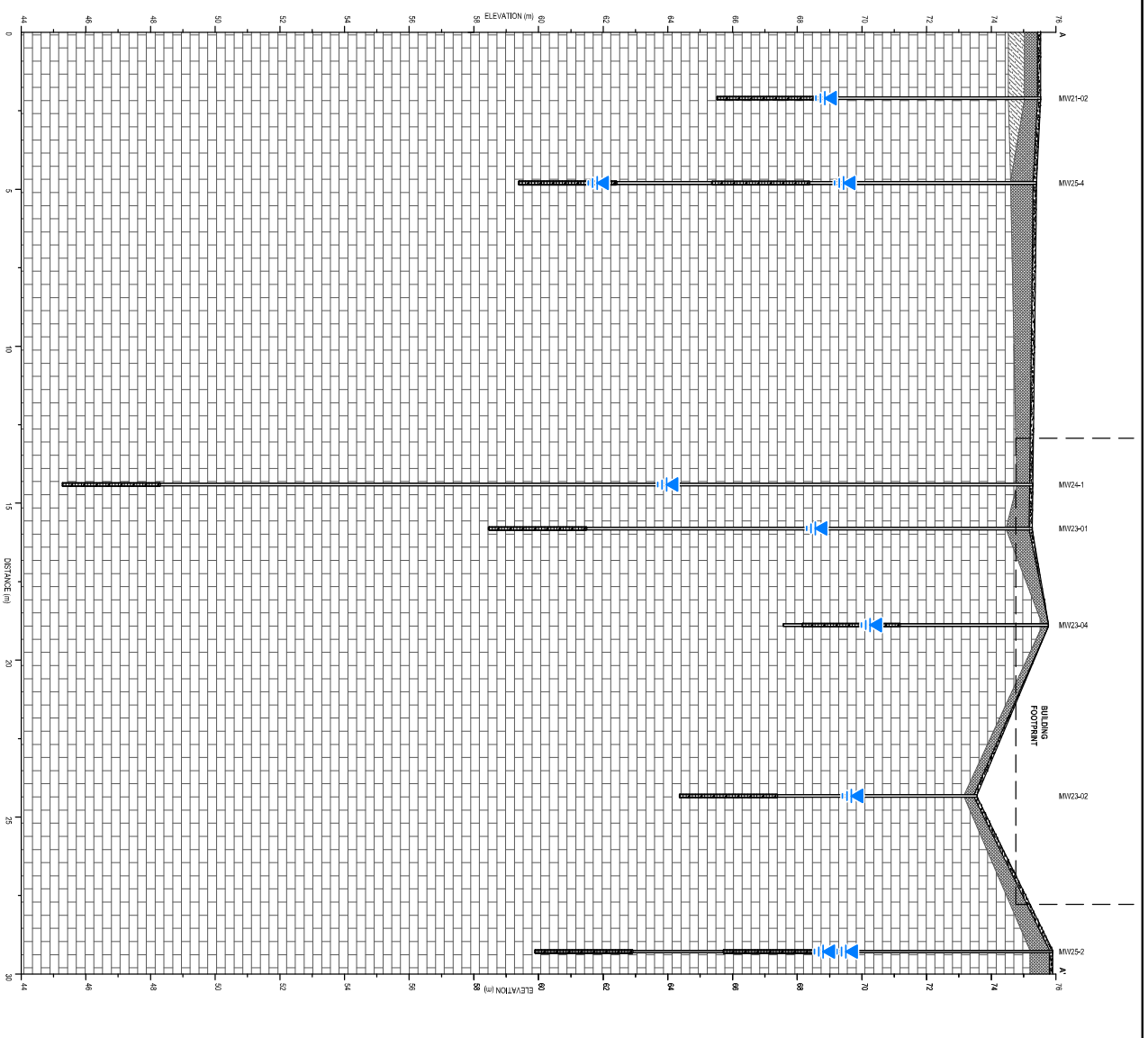
Client: **Churchill Properties Inc.**

Site: **424 Churchill Avenue North, Ottawa, ON**

Report Title: **Phase Two Environmental Site Assessment**

Drawing Title: **PAHs in Groundwater**

Designed By	Scale	As shown
C.O.		
Drawn By	Date	June 2025
K.M.		
Approved By	Project No.	02103035.000
B.W.		
Figure No.	13A	



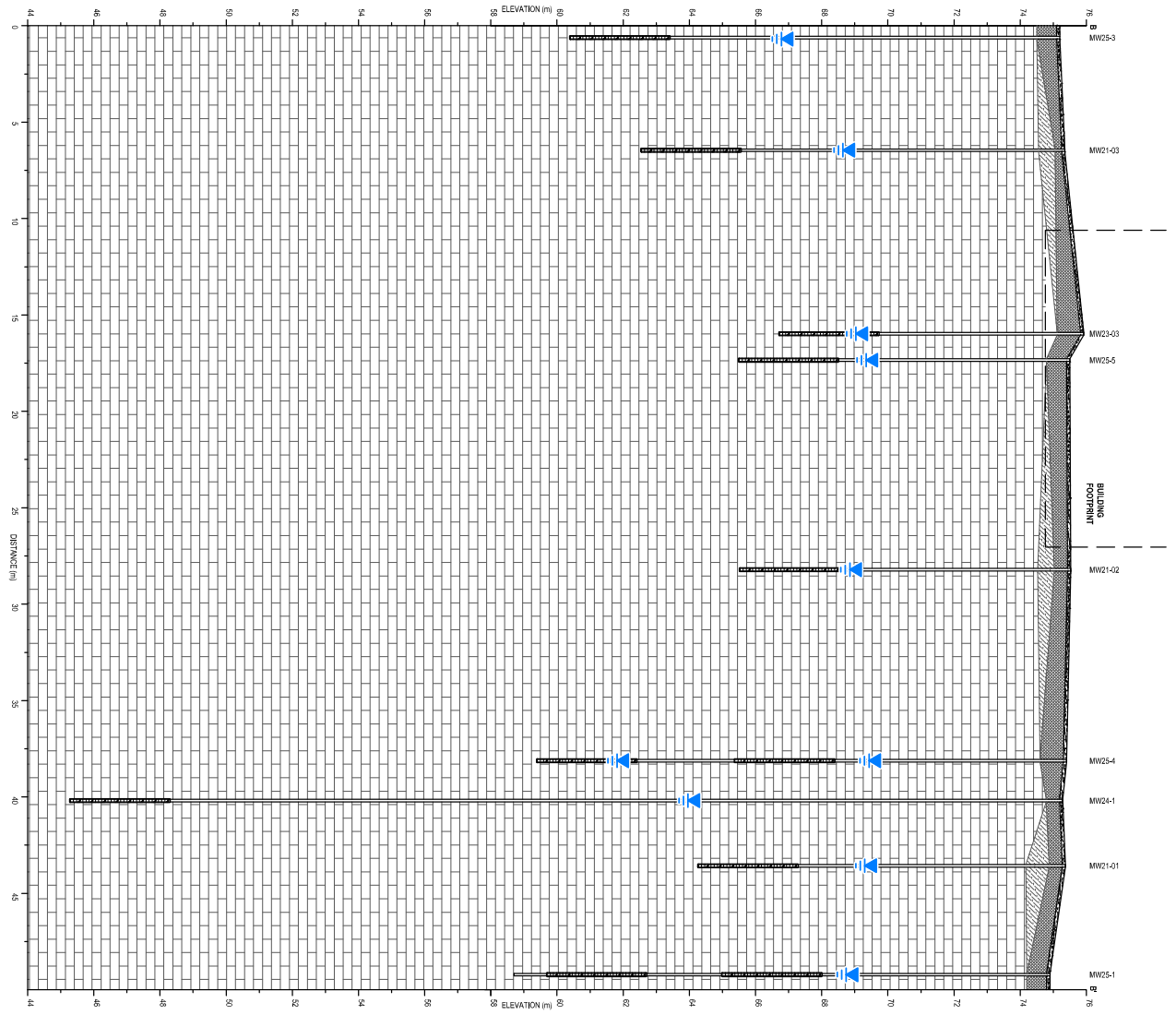
Note

1. This drawing shall be read in conjunction with the associated technical report.

Legend

- Asphalt
- Fill
- Sandy Silt
- Limestone Bedrock
- Monitoring Well Screened Interval
- GW Sample Exceeds MECF Table 7 SCS for PAHs
- GW Sample Meets MECF Table 7 SCS for PAHs
- Interred Extents of PAH Contamination in Groundwater

E	06/19/2025	Preliminary	Approval
Revision	Date	Issue	Approval
Churchill Properties Inc.			
Site 424 Churchill Avenue North, Ottawa, ON			
Report Title Phase Two Environmental Site Assessment			
Drawing Title Cross Section A-A - PAHs in Groundwater			
Designed By	C.O.	Scale	As shown
Drawn By	K.M.	Date	June 2025
Approved By	B.W.	Project No.	02103035.000
Figure No.	13B		



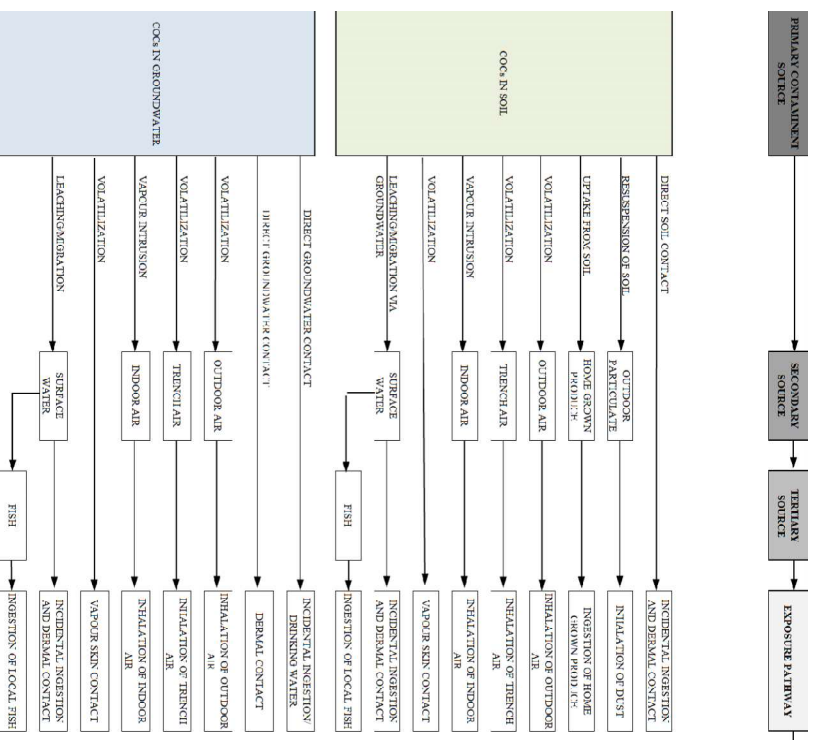
Note
1. This drawing shall be read in conjunction with the associated technical report.

- Legend**
- Asphalt
 - Fill
 - Sandy Silt
 - Limestone Bedrock
 - Monitoring Well Screened Interval
 - GW Sample Exceeds MECF Table 7 SCS for PAHs
 - GW Sample Meets MECF Table 7 SCS for PAHs
 - Inferred Extents of PAH Contamination in Groundwater

E	06/19/2025	Preliminary	Approval
Revision	Date	Issue	
Churchill Properties Inc.			
424 Churchill Avenue North, Ottawa, ON			
Phase Two Environmental Site Assessment			
Cross Section B-B - PAHs in Groundwater			
Designed By	C.O.	Scale	As shown
Drawn By	K.M.	Date	June 2025
Approved By	B.W.	Project No.	02103035.000
Figure No.	13C		



Note
1. This drawing shall be read in conjunction with the associated technical report.



PRIMARY CONTAMINANT SOURCE	SECONDARY SOURCE	TERTIARY SOURCE	EXPOSURE PATHWAY	RECEPTOR CHARACTERIZATION										
				PATHWAYS OF POTENTIAL CONCERN										
				RESIDENTS (ALL AGES)	INDOOR WORKER	ON-SITE MULTIPLE WORKER	CONSTRUCTION/ TRENCH WORKER	SITE VISITOR/ TRASPASER	RESIDENTS (ALL AGES)	INDOOR WORKER	OFF-SITE MULTIPLE WORKER	CONSTRUCTION/ TRENCH WORKER		
COCS IN GROUNDWATER	DIRECT GROUNDWATER CONTACT		INCIDENTAL INGESTION AND DERMAL CONTACT	Y						X	X	X	X	
				Y										
				Y										
				Y										
				Y										
				Y										
				Y										
				Y										
				Y										
				Y										
				Y										
				Y										
COCS IN SOIL	DIRECT GROUNDWATER CONTACT		INCIDENTAL INGESTION AND DERMAL CONTACT	X	X	X	X	X	X	X	X	X	X	
				X	X	X	X	X	X	X	X	X	X	
				X	X	X	X	X	X	X	X	X	X	
				X	X	X	X	X	X	X	X	X	X	
				X	X	X	X	X	X	X	X	X	X	
				X	X	X	X	X	X	X	X	X	X	
				X	X	X	X	X	X	X	X	X	X	
				X	X	X	X	X	X	X	X	X	X	
				X	X	X	X	X	X	X	X	X	X	
				X	X	X	X	X	X	X	X	X	X	
				X	X	X	X	X	X	X	X	X	X	
				X	X	X	X	X	X	X	X	X	X	

Indicates exposure pathway is complete
 Indicates if complete exposure primary path will be qualitatively assessed in the HRA
 Indicates if complete exposure primary path will be qualitatively assessed in the HRA
 Indicates if complete exposure primary path will be qualitatively assessed in the HRA
 * Dermal contact with vapours is a negligible potential exposure pathway not considered in the HRA

Phase Two Environmental Site Assessment

Human Health Conceptual Site Model

Designed By: **M.H.** Scale: **As shown**

Drawn By: **K.M.** Date: **June 2025**

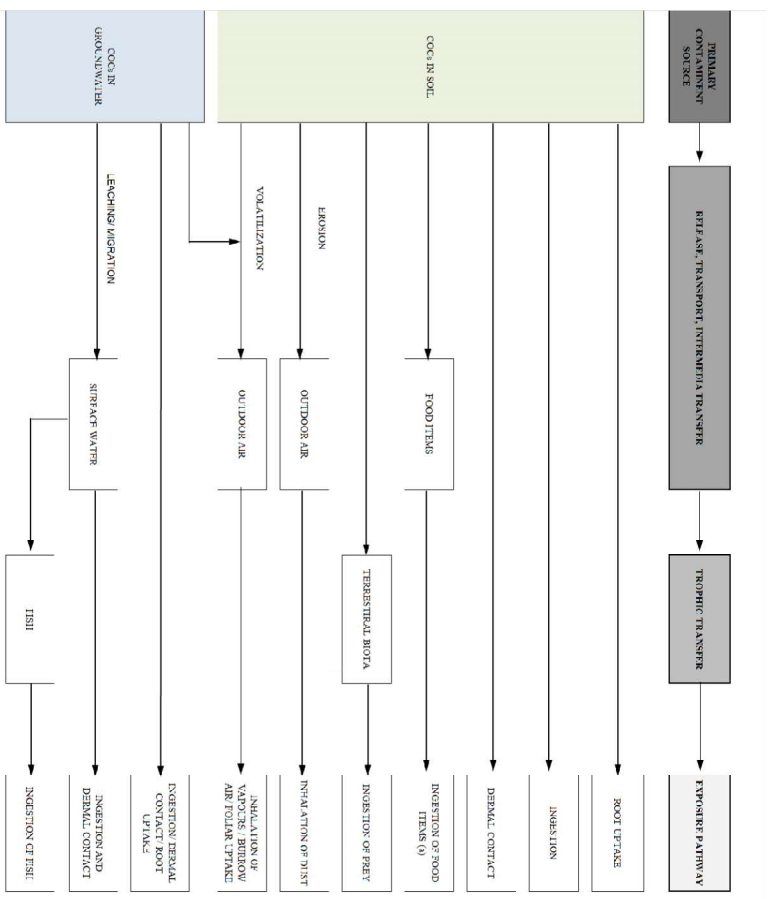
Approved By: **N.T.** Project No: **02103035.000**

Figure No: **14**

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Note
1. This drawing shall be read in conjunction with the associated technical report.



	RECEPTOR CHARACTERIZATION						
	ON-SITE		OFF-SITE				
	TERRESTRIAL PLANTS	SOIL INVERTEBRATES	HUMANS AND MAMMALS	TERRESTRIAL PLANTS	SOIL INVERTEBRATES	HUMANS AND MAMMALS	AGRICULTURE RECEPTORS (A)
	✓	X	X	X	X	X	X
	X	✓	✓	X	X	X	X
	X	✓	✓	X	X	X	X
	X	✓	✓	X	X	X	X
	X	X	✓	X	X	✓	X
	X	X	✓	X	X	O	X
	X	X	X	X	X	X	X
	X	X	X	X	X	X	✓
	X	X	X	X	X	O	X
	X	X	X	X	X	X	X

Legend
 ✓ Indicates exposure pathway is complete
 O Indicates a complete exposure pathway that will be conditionally assessed in the EIA
 X Indicates exposure pathway is addressed through Risk Management Measures
 - Indicates that the exposure pathway is non-applicable

Notes
 (A) Food items include terrestrial vegetation and seeds, and equines, and livestock
 (I) Aquatic receptors include aquatic plants, aquatic invertebrates, and fish

Site: 424 Churchill Avenue North, Ottawa, ON
 Report Title: Phase Two Environmental Site Assessment
 Drawing Title: Ecological Health Conceptual Site Model

Designed By: M.H.	Scale: As shown
Drawn By: K.M.	Date: June 2025
Approved By: N.T.	Project No: 02103035.000

Figure No: 15

Appendix B

Laboratory Certificate of Analysis



eNGLOBE



Your Project #: 2103035
 Your C.O.C. #: 157066

Attention: Salim Eid

DST Consulting Engineers Inc
 Ottawa - Standing Offer
 2150 Thurston Dr
 Unit 203
 Ottawa, ON
 CANADA K1G 5T9

Report Date: 2021/05/03
 Report #: R6618976
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1B1260

Received: 2021/04/26, 15:05

Sample Matrix: Soil
 # Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
1,3-Dichloropropene Sum (1)	3	N/A	2021/05/03		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Soil (1, 2)	3	2021/04/28	2021/04/29	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric) (1)	1	2021/04/30	2021/04/30	CAM SOP-00316	CCME PHC-CWS m
Moisture (1)	3	N/A	2021/04/27	CAM SOP-00445	Carter 2nd ed 51.2 m
pH CaCl2 EXTRACT (1)	1	2021/04/29	2021/04/29	CAM SOP-00413	EPA 9045 D m
Volatile Organic Compounds and F1 PHCs (1)	3	N/A	2021/05/01	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Laboratories Mississauga

(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1



Your Project #: 2103035
Your C.O.C. #: 157066

Attention: Salim Eid

DST Consulting Engineers Inc
Ottawa - Standing Offer
2150 Thurston Dr
Unit 203
Ottawa, ON
CANADA K1G 5T9

Report Date: 2021/05/03
Report #: R6618976
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1B1260

Received: 2021/04/26, 15:05

Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key



Bureau Veritas

03 May 2021 12:45:11

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Katherine Szozda, Project Manager

Email: Katherine.Szozda@bureauveritas.com

Phone# (613)274-0573 Ext:7063633

=====
This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: C1B1260
Report Date: 2021/05/03

DST Consulting Engineers Inc
Client Project #: 2103035
Sampler Initials: CF

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID		PKN585	PKN586	PKN587		
Sampling Date		2021/04/21	2021/04/21	2021/04/22		
COC Number		157066	157066	157066		
	UNITS	MW21-1,SS2	MW21-2,SS2	MW21-3,SS1	RDL	QC Batch
Inorganics						
Moisture	%	14	8.8	3.5	1.0	7321314
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	<0.050	0.050	7320252
Volatile Organics						
Acetone (2-Propanone)	ug/g	<0.50	<0.50	<0.50	0.50	7324273
Benzene	ug/g	<0.020	<0.020	<0.020	0.020	7324273
Bromodichloromethane	ug/g	<0.050	<0.050	<0.050	0.050	7324273
Bromoform	ug/g	<0.050	<0.050	<0.050	0.050	7324273
Bromomethane	ug/g	<0.050	<0.050	<0.050	0.050	7324273
Carbon Tetrachloride	ug/g	<0.050	<0.050	<0.050	0.050	7324273
Chlorobenzene	ug/g	<0.050	<0.050	<0.050	0.050	7324273
Chloroform	ug/g	<0.050	<0.050	<0.050	0.050	7324273
Dibromochloromethane	ug/g	<0.050	<0.050	<0.050	0.050	7324273
1,2-Dichlorobenzene	ug/g	<0.050	<0.050	<0.050	0.050	7324273
1,3-Dichlorobenzene	ug/g	<0.050	<0.050	<0.050	0.050	7324273
1,4-Dichlorobenzene	ug/g	<0.050	<0.050	<0.050	0.050	7324273
Dichlorodifluoromethane (FREON 12)	ug/g	<0.050	<0.050	<0.050	0.050	7324273
1,1-Dichloroethane	ug/g	<0.050	<0.050	<0.050	0.050	7324273
1,2-Dichloroethane	ug/g	<0.050	<0.050	<0.050	0.050	7324273
1,1-Dichloroethylene	ug/g	<0.050	<0.050	<0.050	0.050	7324273
cis-1,2-Dichloroethylene	ug/g	<0.050	<0.050	<0.050	0.050	7324273
trans-1,2-Dichloroethylene	ug/g	<0.050	<0.050	<0.050	0.050	7324273
1,2-Dichloropropane	ug/g	<0.050	<0.050	<0.050	0.050	7324273
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	<0.030	0.030	7324273
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	<0.040	0.040	7324273
Ethylbenzene	ug/g	<0.020	<0.020	<0.020	0.020	7324273
Ethylene Dibromide	ug/g	<0.050	<0.050	<0.050	0.050	7324273
Hexane	ug/g	<0.050	<0.050	<0.050	0.050	7324273
Methylene Chloride(Dichloromethane)	ug/g	<0.050	<0.050	<0.050	0.050	7324273
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.50	<0.50	<0.50	0.50	7324273
Methyl Isobutyl Ketone	ug/g	<0.50	<0.50	<0.50	0.50	7324273
Methyl t-butyl ether (MTBE)	ug/g	<0.050	<0.050	<0.050	0.050	7324273
Styrene	ug/g	<0.050	<0.050	<0.050	0.050	7324273
1,1,1,2-Tetrachloroethane	ug/g	<0.050	<0.050	<0.050	0.050	7324273
1,1,2,2-Tetrachloroethane	ug/g	<0.050	<0.050	<0.050	0.050	7324273
Tetrachloroethylene	ug/g	0.72	0.27	0.32	0.050	7324273
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BUREAU
VERITAS

BV Labs Job #: C1B1260
Report Date: 2021/05/03

DST Consulting Engineers Inc
Client Project #: 2103035
Sampler Initials: CF

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

BV Labs ID		PKN585	PKN586	PKN587		
Sampling Date		2021/04/21	2021/04/21	2021/04/22		
COC Number		157066	157066	157066		
	UNITS	MW21-1,SS2	MW21-2,SS2	MW21-3,SS1	RDL	QC Batch
Toluene	ug/g	<0.020	<0.020	<0.020	0.020	7324273
1,1,1-Trichloroethane	ug/g	<0.050	<0.050	<0.050	0.050	7324273
1,1,2-Trichloroethane	ug/g	<0.050	<0.050	<0.050	0.050	7324273
Trichloroethylene	ug/g	<0.050	<0.050	<0.050	0.050	7324273
Trichlorofluoromethane (FREON 11)	ug/g	<0.050	<0.050	<0.050	0.050	7324273
Vinyl Chloride	ug/g	<0.020	<0.020	<0.020	0.020	7324273
p+m-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	7324273
o-Xylene	ug/g	<0.020	<0.020	<0.020	0.020	7324273
Total Xylenes	ug/g	<0.020	<0.020	<0.020	0.020	7324273
F1 (C6-C10)	ug/g	<10	<10	<10	10	7324273
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	10	7324273
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	10	7322590
F3 (C16-C34 Hydrocarbons)	ug/g	<50	100	<50	50	7322590
F4 (C34-C50 Hydrocarbons)	ug/g	<50	290	95	50	7322590
Reached Baseline at C50	ug/g	Yes	No	Yes		7322590
Surrogate Recovery (%)						
o-Terphenyl	%	84	91	93		7322590
4-Bromofluorobenzene	%	90	91	91		7324273
D10-o-Xylene	%	81	82	84		7324273
D4-1,2-Dichloroethane	%	115	115	115		7324273
D8-Toluene	%	98	98	98		7324273
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						



BUREAU
VERITAS

BV Labs Job #: C1B1260
Report Date: 2021/05/03

DST Consulting Engineers Inc
Client Project #: 2103035
Sampler Initials: CF

RESULTS OF ANALYSES OF SOIL

BV Labs ID		PKN586	
Sampling Date		2021/04/21	
COC Number		157066	
	UNITS	MW21-2,SS2	QC Batch
Inorganics			
Available (CaCl ₂) pH	pH	7.86	7325030
QC Batch = Quality Control Batch			



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VERITAS

BV Labs Job #: C1B1260
Report Date: 2021/05/03

DST Consulting Engineers Inc
Client Project #: 2103035
Sampler Initials: CF

PETROLEUM HYDROCARBONS (CCME)

BV Labs ID		PKN586		
Sampling Date		2021/04/21		
COC Number		157066		
	UNITS	MW21-2,SS2	RDL	QC Batch
F2-F4 Hydrocarbons				
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	1100	100	7327230
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1B1260
Report Date: 2021/05/03

DST Consulting Engineers Inc
Client Project #: 2103035
Sampler Initials: CF

TEST SUMMARY

BV Labs ID: PKN585
Sample ID: MW21-1,SS2
Matrix: Soil

Collected: 2021/04/21
Shipped:
Received: 2021/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7320252	N/A	2021/05/03	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7322590	2021/04/28	2021/04/29	Anna Stuglik Rolland
Moisture	BAL	7321314	N/A	2021/04/27	Manpreet Kaur
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7324273	N/A	2021/05/01	Rebecca McClean

BV Labs ID: PKN586
Sample ID: MW21-2,SS2
Matrix: Soil

Collected: 2021/04/21
Shipped:
Received: 2021/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7320252	N/A	2021/05/03	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7322590	2021/04/28	2021/04/29	Anna Stuglik Rolland
F4G (CCME Hydrocarbons Gravimetric)	BAL	7327230	2021/04/30	2021/04/30	Rashmi Dubey
Moisture	BAL	7321314	N/A	2021/04/27	Manpreet Kaur
pH CaCl2 EXTRACT	AT	7325030	2021/04/29	2021/04/29	Surinder Rai
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7324273	N/A	2021/05/01	Rebecca McClean

BV Labs ID: PKN587
Sample ID: MW21-3,SS1
Matrix: Soil

Collected: 2021/04/22
Shipped:
Received: 2021/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7320252	N/A	2021/05/03	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	7322590	2021/04/28	2021/04/29	Anna Stuglik Rolland
Moisture	BAL	7321314	N/A	2021/04/27	Manpreet Kaur
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7324273	N/A	2021/05/01	Rebecca McClean



BUREAU
VERITAS

BV Labs Job #: C1B1260
Report Date: 2021/05/03

DST Consulting Engineers Inc
Client Project #: 2103035
Sampler Initials: CF

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.7°C
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Results relate only to the items tested.



BV Labs Job #: C1B1260
 Report Date: 2021/05/03

QUALITY ASSURANCE REPORT

DST Consulting Engineers Inc
 Client Project #: 2103035
 Sampler Initials: CF

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7322590	o-Terphenyl	2021/04/28	98	60 - 130	98	60 - 130	96	%		
7324273	4-Bromofluorobenzene	2021/05/01	98	60 - 140	98	60 - 140	95	%		
7324273	D10-o-Xylene	2021/05/01	87	60 - 130	95	60 - 130	72	%		
7324273	D4-1,2-Dichloroethane	2021/05/01	114	60 - 140	110	60 - 140	116	%		
7324273	D8-Toluene	2021/05/01	104	60 - 140	103	60 - 140	95	%		
7321314	Moisture	2021/04/27							4.3	20
7322590	F2 (C10-C16 Hydrocarbons)	2021/04/28	101	50 - 130	101	80 - 120	<10	ug/g	NC	30
7322590	F3 (C16-C34 Hydrocarbons)	2021/04/28	100	50 - 130	100	80 - 120	<50	ug/g	NC	30
7322590	F4 (C34-C50 Hydrocarbons)	2021/04/28	101	50 - 130	101	80 - 120	<50	ug/g	NC	30
7324273	1,1,1,2-Tetrachloroethane	2021/05/01	105	60 - 140	97	60 - 130	<0.050	ug/g	NC	50
7324273	1,1,1-Trichloroethane	2021/05/01	102	60 - 140	101	60 - 130	<0.050	ug/g	NC	50
7324273	1,1,2,2-Tetrachloroethane	2021/05/01	109	60 - 140	97	60 - 130	<0.050	ug/g	NC	50
7324273	1,1,2-Trichloroethane	2021/05/01	118	60 - 140	105	60 - 130	<0.050	ug/g	NC	50
7324273	1,1-Dichloroethane	2021/05/01	109	60 - 140	103	60 - 130	<0.050	ug/g	NC	50
7324273	1,1-Dichloroethylene	2021/05/01	110	60 - 140	106	60 - 130	<0.050	ug/g	NC	50
7324273	1,2-Dichlorobenzene	2021/05/01	97	60 - 140	89	60 - 130	<0.050	ug/g	NC	50
7324273	1,2-Dichloroethane	2021/05/01	111	60 - 140	102	60 - 130	<0.050	ug/g	NC	50
7324273	1,2-Dichloropropane	2021/05/01	111	60 - 140	104	60 - 130	<0.050	ug/g	NC	50
7324273	1,3-Dichlorobenzene	2021/05/01	98	60 - 140	90	60 - 130	<0.050	ug/g	NC	50
7324273	1,4-Dichlorobenzene	2021/05/01	112	60 - 140	103	60 - 130	<0.050	ug/g	NC	50
7324273	Acetone (2-Propanone)	2021/05/01	120	60 - 140	110	60 - 140	<0.50	ug/g	NC	50
7324273	Benzene	2021/05/01	102	60 - 140	97	60 - 130	<0.020	ug/g	NC	50
7324273	Bromodichloromethane	2021/05/01	110	60 - 140	102	60 - 130	<0.050	ug/g	NC	50
7324273	Bromoform	2021/05/01	106	60 - 140	94	60 - 130	<0.050	ug/g	NC	50
7324273	Bromomethane	2021/05/01	103	60 - 140	96	60 - 140	<0.050	ug/g	NC	50
7324273	Carbon Tetrachloride	2021/05/01	99	60 - 140	99	60 - 130	<0.050	ug/g	NC	50
7324273	Chlorobenzene	2021/05/01	98	60 - 140	90	60 - 130	<0.050	ug/g	NC	50
7324273	Chloroform	2021/05/01	107	60 - 140	102	60 - 130	<0.050	ug/g	NC	50
7324273	cis-1,2-Dichloroethylene	2021/05/01	104	60 - 140	98	60 - 130	<0.050	ug/g	NC	50
7324273	cis-1,3-Dichloropropene	2021/05/01	102	60 - 140	93	60 - 130	<0.030	ug/g	NC	50
7324273	Dibromochloromethane	2021/05/01	105	60 - 140	94	60 - 130	<0.050	ug/g	NC	50
7324273	Dichlorodifluoromethane (FREON 12)	2021/05/01	92	60 - 140	87	60 - 140	<0.050	ug/g	NC	50



BV Labs Job #: C1B1260
Report Date: 2021/05/03

QUALITY ASSURANCE REPORT(CONT'D)

DST Consulting Engineers Inc
Client Project #: 2103035
Sampler Initials: CF

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7324273	Ethylbenzene	2021/05/01	92	60 - 140	87	60 - 130	<0.020	ug/g	NC	50
7324273	Ethylene Dibromide	2021/05/01	104	60 - 140	92	60 - 130	<0.050	ug/g	NC	50
7324273	F1 (C6-C10) - BTEX	2021/05/01					<10	ug/g	NC	30
7324273	F1 (C6-C10)	2021/05/01	74	60 - 140	92	80 - 120	<10	ug/g	NC	30
7324273	Hexane	2021/05/01	114	60 - 140	110	60 - 130	<0.050	ug/g	NC	50
7324273	Methyl Ethyl Ketone (2-Butanone)	2021/05/01	130	60 - 140	116	60 - 140	<0.50	ug/g	NC	50
7324273	Methyl Isobutyl Ketone	2021/05/01	129	60 - 140	113	60 - 130	<0.50	ug/g	NC	50
7324273	Methyl t-butyl ether (MTBE)	2021/05/01	99	60 - 140	92	60 - 130	<0.050	ug/g	NC	50
7324273	Methylene Chloride(Dichloromethane)	2021/05/01	115	60 - 140	107	60 - 130	<0.050	ug/g	NC	50
7324273	o-Xylene	2021/05/01	94	60 - 140	89	60 - 130	<0.020	ug/g	NC	50
7324273	p+m-Xylene	2021/05/01	96	60 - 140	91	60 - 130	<0.020	ug/g	NC	50
7324273	Styrene	2021/05/01	107	60 - 140	99	60 - 130	<0.050	ug/g	NC	50
7324273	Tetrachloroethylene	2021/05/01	91	60 - 140	87	60 - 130	<0.050	ug/g	NC	50
7324273	Toluene	2021/05/01	97	60 - 140	91	60 - 130	<0.020	ug/g	NC	50
7324273	Total Xylenes	2021/05/01					<0.020	ug/g	NC	50
7324273	trans-1,2-Dichloroethylene	2021/05/01	104	60 - 140	99	60 - 130	<0.050	ug/g	NC	50
7324273	trans-1,3-Dichloropropene	2021/05/01	112	60 - 140	98	60 - 130	<0.040	ug/g	NC	50
7324273	Trichloroethylene	2021/05/01	102	60 - 140	98	60 - 130	<0.050	ug/g	NC	50
7324273	Trichlorofluoromethane (FREON 11)	2021/05/01	101	60 - 140	99	60 - 130	<0.050	ug/g	NC	50
7324273	Vinyl Chloride	2021/05/01	115	60 - 140	110	60 - 130	<0.020	ug/g	NC	50
7325030	Available (CaCl2) pH	2021/04/29			100	97 - 103			0.38	N/A
7327230	F4G-sg (Grav. Heavy Hydrocarbons)	2021/04/30	94	65 - 135	102	65 - 135	<100	ug/g	8.7	50

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU
VERITAS

BV Labs Job #: C1B1260
Report Date: 2021/05/03

DST Consulting Engineers Inc
Client Project #: 2103035
Sampler Initials: CF

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

A handwritten signature in black ink, appearing to read 'Brad Newman', written over a horizontal line.

Brad Newman, B.Sc., C.Chem., Scientific Service Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



674C Campobello Road, Muskegon, Ontario L5N 2J8
 Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6766
 CAM FCD-01.191/16

CHAIN OF CUSTODY RECORD 157066 Page 1 of 1

Invoice Information

Company Name: DST Group
 Contact Name: Jalim Eid
 Address: 2150 Thurston Dr.
 Phone: 613-402-0398
 Email: jeid@dstgroup.com

Report Information (if differs from Invoice)

Company Name: _____
 Contact Name: _____
 Address: _____
 Phone: _____
 Email: _____
 P.O. #/A/E/F: _____
 Project #: 2103035
 Site Location: ON
 Site #: _____
 Site Location Province: ON
 Sample By: CF

REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BUREAU VERITAS LABORATORIES OWNED WATER CHAIN OF CUSTODY

Regulation 153

Table 1
 Table 2
 Table 3
 Table
 For IBC (PLEASE CIRCLE) Y / N

Other Regulations

CCME
 MISA
 PWQO
 Other (Specify) _____
 REG 553 (MIN. 3 DAY TAT REQUIRED)
 REG 405 Table _____

Include Criteria on Certificate of Analysis Y / N

Analysis Requested

FIELD FILTERED (CIRCLE) Metals / Hg / CrVI
 BTEX/PHC F1
 PHCs F2 - F4
 VOCs
 REG 153 METALS & INORGANICS
 REG 153 ICPMS METALS
 REG 153 METALS (Hg, Cr VI, ICPMS Metals, HWS - B)

LABORATORY USE ONLY

CUSTODY SEAL (Y/N) Present / Intact
 COOLER TEMPERATURES
 COOLING MEDIA PRESENT (Y/N)
 COMMENTS: 7.6.0 ON ICE

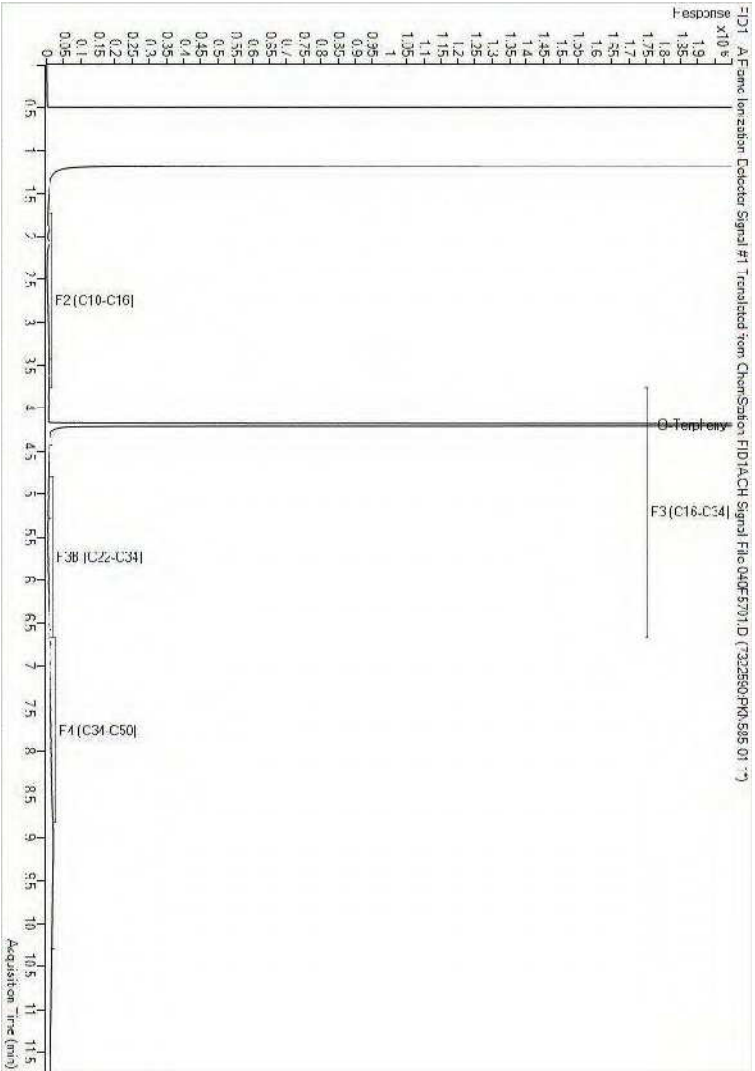
SAMPLE IDENTIFICATION	DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	ANALYSIS REQUESTED				HOLD - DO NOT ANALYZE
					FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX/PHC F1	PHCs F2 - F4	VOCs	
1 MW21-1, 552	2021/04/21		GW	3		X	X	X	
2 MW21-2, 552	↓			3		X	X	X	
3 MW21-3, 551	2021/04/22			3		X	X	X	
4									
5									
6									
7									
8									
9									
10									

RELINQUISHED BY: (Signature/Print) Samuel DATE: (YYYY/MM/DD) 2021/05/18 TIME: (HH:MM) 15:00

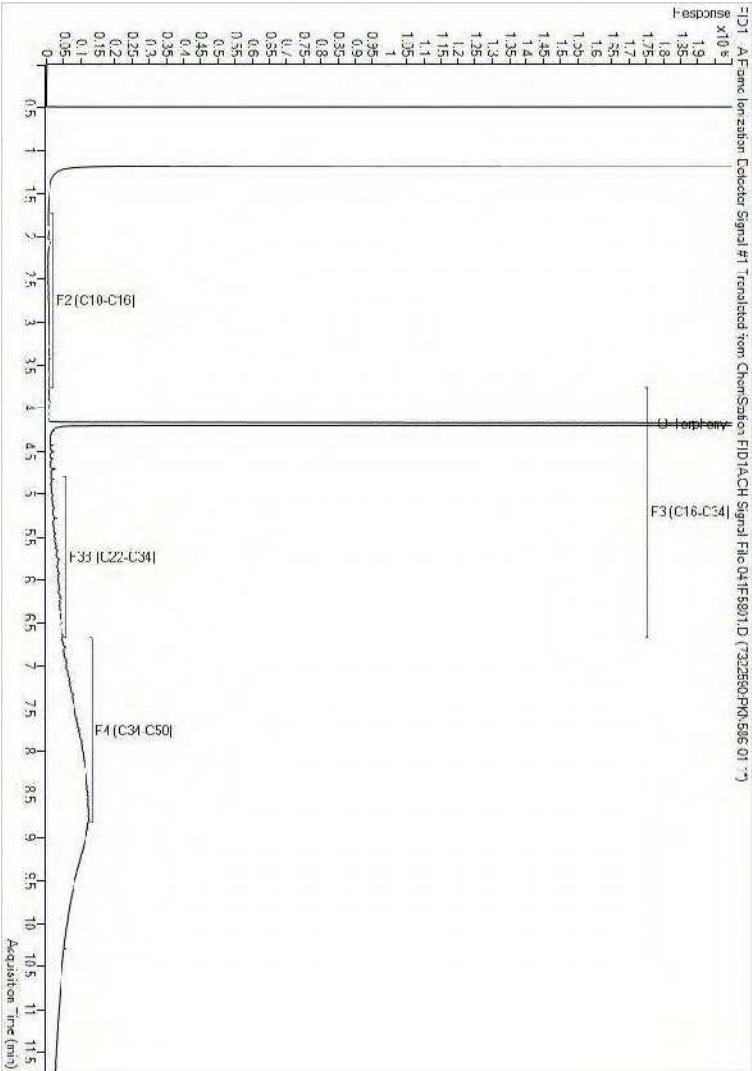
RECEIVED BY: (Signature/Print) Ali Gussman DATE: (YYYY/MM/DD) 2021/04/26 TIME: (HH:MM) 15:05

UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS LABORATORIES' STANDARD TERMS AND CONDITIONS. SIGNED BY THIS CHAIN OF CUSTODY DOCUMENT IS ADMITTED AND ACCEPTANCE BY...
 GKI ENV-584

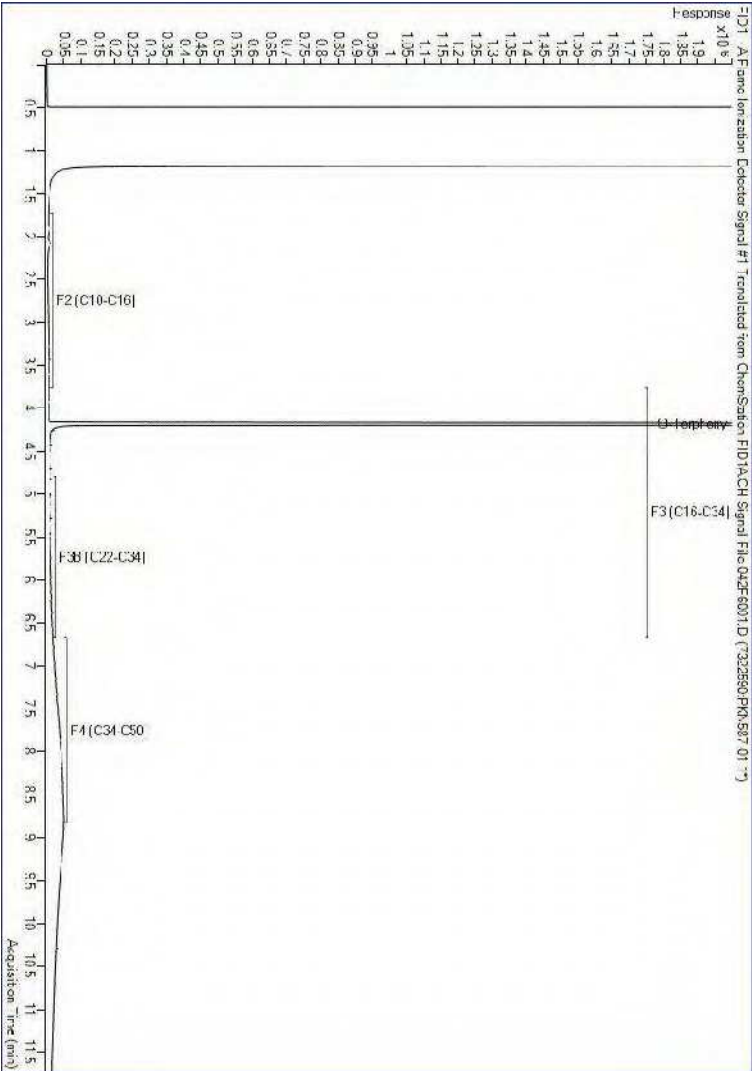
26-Apr-21 15:05
 Katherine Szozda
 C1B1260
 ON ICE



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.



Your Project #: 02103035
Your C.O.C. #: 157055

Attention: Ryan Vanden Tillaart

DST Consulting Engineers Inc
Ottawa - Standing Offer
2150 Thurston Dr
Unit 203
Ottawa, ON
CANADA K1G 5T9

Report Date: 2021/05/10
Report #: R6627723
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1C2596

Received: 2021/05/07, 08:54

Sample Matrix: Soil
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Sieve, 75um (1)	2	N/A	2021/05/08	CAM SOP-00467	ASTM D1140 -17 m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga



Your Project #: 02103035
Your C.O.C. #: 157055

Attention: Ryan Vanden Tillaart

DST Consulting Engineers Inc
Ottawa - Standing Offer
2150 Thurston Dr
Unit 203
Ottawa, ON
CANADA K1G 5T9

Report Date: 2021/05/10
Report #: R6627723
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1C2596

Received: 2021/05/07, 08:54

Encryption Key



Bureau Veritas
10 May 2021 09:03:02

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Katherine Szozda, Project Manager
Email: Katherine.Szozda@bureauveritas.com
Phone# (613)274-0573 Ext:7063633

=====
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BUREAU
VERITAS

BV Labs Job #: C1C2596
Report Date: 2021/05/10

DST Consulting Engineers Inc
Client Project #: 02103035
Sampler Initials: RVT

RESULTS OF ANALYSES OF SOIL

BV Labs ID		PMV874	PMV875		
Sampling Date		2021/05/06 17:30	2021/05/06 17:30		
COC Number		157055	157055		
	UNITS	MW21-1 SS2	MW21-3 SS1	RDL	QC Batch
Miscellaneous Parameters					
Grain Size	%	FINE	FINE	N/A	7339480
Sieve - #200 (<0.075mm)	%	78	80	1	7339480
Sieve - #200 (>0.075mm)	%	22	20	1	7339480
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable					



BUREAU
VERITAS

BV Labs Job #: C1C2596
Report Date: 2021/05/10

DST Consulting Engineers Inc
Client Project #: 02103035
Sampler Initials: RVT

TEST SUMMARY

BV Labs ID: PMV874
Sample ID: MW21-1 SS2
Matrix: Soil

Collected: 2021/05/06
Shipped:
Received: 2021/05/07

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sieve, 75um	SIEV	7339480	N/A	2021/05/08	Prgya Panchal

BV Labs ID: PMV875
Sample ID: MW21-3 SS1
Matrix: Soil

Collected: 2021/05/06
Shipped:
Received: 2021/05/07

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sieve, 75um	SIEV	7339480	N/A	2021/05/08	Prgya Panchal



BUREAU
VERITAS

BV Labs Job #: C1C2596
Report Date: 2021/05/10

DST Consulting Engineers Inc
Client Project #: 02103035
Sampler Initials: RVT

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	3.7°C
-----------	-------

Results relate only to the items tested.



BV Labs Job #: C1C2596
Report Date: 2021/05/10

QUALITY ASSURANCE REPORT

DST Consulting Engineers Inc
Client Project #: 02103035
Sampler Initials: RVT

QC Batch	Parameter	Date	RPD		QC Standard	
			Value (%)	QC Limits	% Recovery	QC Limits
7339480	Sieve - #200 (<0.075mm)	2021/05/08	1.0	20	56	53 - 58
7339480	Sieve - #200 (>0.075mm)	2021/05/08	1.7	20	44	42 - 47

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.



BUREAU
VERITAS

BV Labs Job #: C1C2596
Report Date: 2021/05/10

DST Consulting Engineers Inc
Client Project #: 02103035
Sampler Initials: RVT

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

A handwritten signature in black ink, appearing to read 'Anastassia Hamanov', written over a horizontal line.

Anastassia Hamanov, Scientific Specialist

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PUSHY

6740 Campobello Road, Mississauga, Ontario L5N 2J8
Phone: 905-817-5700 Fax: 905-817-5779 Toll Free: 800-563-6266
CAW FOD-01319/6

CHAIN OF CUSTODY RECORD 157055

Page 1 of 1

Invoice Information Company Name: <u>DST</u> Contact Name: <u>Riya KaddiThakur</u> Address: <u>215C Weston Ave</u> Phone: <u>613-902-2786</u> Fax: Email: <u>rkaddi@thycorp.com</u>		Report Information (if differs from invoice) Company Name: Contact Name: Address: Phone: Email: Fax:		Project Information (where applicable) Quotation #: _____ P.O. #/ACCT: _____ Project #: <u>02163015</u> Site location: Site #: _____ Site location Province: _____ Sampled By: <u>BE LR</u>		Turnaround Time (TAT) Required <input type="checkbox"/> Regular TAT (5-7 days) Most Analytes <input checked="" type="checkbox"/> Rush TAT (Surcharge will be applied) <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3-4 Days							
Regulation 153 <input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Parv <input type="checkbox"/> Mod/ Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Inf/Comm <input type="checkbox"/> Course <input type="checkbox"/> Table 3 <input type="checkbox"/> Aqrl/ Other <input type="checkbox"/> Table _____ FOR RSC (PLEASE CIRCLE) Y / N		Other Regulations <input type="checkbox"/> CDME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> MISA <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> P/NOO <input type="checkbox"/> Region _____ <input type="checkbox"/> Other (Specify) _____ <input type="checkbox"/> REG 558 (MIN. 3 DAY TAT REQUIRED) <input type="checkbox"/> REG 406 Table _____		Analysis Requested <input type="checkbox"/> REG 153 METALS & INORGANICS <input type="checkbox"/> REG 153 ICPMIS METALS <input type="checkbox"/> REG 153 METALS (Hg, Cr VI, ICPMIS Metals, HWS - B) Sier 75um		LABORATORY USE ONLY CUSTODY SEAL: <input type="checkbox"/> Present <input checked="" type="checkbox"/> Intact COOLER TEMPERATURES: _____ COOLANT MEDIA PRESENT: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N COMMENTS:							
SAMPLES MUST BE KEPT COOL (< 10 C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS													
SAMPLE IDENTIFICATION		DATE SAMPLED (MM/DD/YY)	TIME SAMPLED (HH:MM)	WAITING	# OF CONTAINERS SUBMITTED	FIELD FILTERED (CIRCLE) Metals / Hg / CrVI	BTEX/ PHC/F1	PHCs F2 - F4	VOCs	REG 153 METALS & INORGANICS	REG 153 ICPMIS METALS	REG 153 METALS (Hg, Cr VI, ICPMIS Metals, HWS - B)	HOLD- DO NOT ANALYZE
1	Mw21-1 SS2	22/05/08	17:30	5									
2	Mw21-3 SS1	22/05/08	17:30	5									
3													
4													
5													
6													
7													
8													
9													
10													
RECEIVED BY: <u>Riya KaddiThakur</u> DATE: <u>22/05/08</u> TIME: <u>18:30</u>		RECEIVED BY: <u>Kevin Jung</u> DATE: <u>2021/05/02</u> TIME: <u>8:54</u>		RECEIVED BY: <u>Angus Rogers</u> DATE: <u>2021/05/08</u> TIME: <u>08:21</u>		RECEIVED BY: _____ DATE: _____ TIME: _____							

07-May-21 08:54
 Katherine Szozda
 KJY OTT-001
 C1C2596

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas Laboratories' Standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms available at <http://www.bvlab.com/terms-and-conditions>
 CCC-1004 (06/19) 12/13/11- ON ICE White: BV Labs - Yellow: Client



Your P.O. #: 2103035
 Your Project #: 2103035
 Your C.O.C. #: 824243-01-01

Attention: Ryan Vanden Tillaart

DST Consulting Engineers Inc
 Ottawa - Standing Offer
 2150 Thurston Dr
 Unit 203
 Ottawa, ON
 CANADA K1G 5T9

Report Date: 2021/05/07
 Report #: R6625541
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1B9704

Received: 2021/05/04, 09:00

Sample Matrix: Water
 # Samples Received: 3

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
1,3-Dichloropropene Sum (1)	3	N/A	2021/05/07		EPA 8260C m
Chloride by Automated Colourimetry (1)	1	N/A	2021/05/06	CAM SOP-00463	SM 23 4500-CI E m
Conductivity (1)	1	N/A	2021/05/06	CAM SOP-00414	SM 23 2510 m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	3	2021/05/06	2021/05/07	CAM SOP-00316	CCME PHC-CWS m
pH (1)	1	2021/05/05	2021/05/06	CAM SOP-00413	SM 4500H+ B m
Resistivity of Water (1)	1	2021/05/05	2021/05/06	CAM SOP-00414	SM 23 2510 m
Sulphate by Automated Colourimetry (1)	1	N/A	2021/05/06	CAM SOP-00464	EPA 375.4 m
Sulphide (1)	1	N/A	2021/05/06	CAM SOP-00455	SM 23 4500-S G m
Volatile Organic Compounds and F1 PHCs (1)	3	N/A	2021/05/07	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga



Your P.O. #: 2103035
Your Project #: 2103035
Your C.O.C. #: 824243-01-01

Attention: Ryan Vanden Tillaart

DST Consulting Engineers Inc
Ottawa - Standing Offer
2150 Thurston Dr
Unit 203
Ottawa, ON
CANADA K1G 5T9

Report Date: 2021/05/07
Report #: R6625541
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1B9704

Received: 2021/05/04, 09:00

(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas Laboratories conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key



Bureau Veritas
07 May 2021 17:08:08

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Katherine Szozda, Project Manager
Email: Katherine.Szozda@bureauveritas.com
Phone# (613)274-0573 Ext:7063633

=====
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BUREAU
VERITAS

BV Labs Job #: C1B9704
Report Date: 2021/05/07

DST Consulting Engineers Inc
Client Project #: 2103035
Your P.O. #: 2103035
Sampler Initials: CF

RESULTS OF ANALYSES OF WATER

BV Labs ID		PMH109		
Sampling Date		2021/04/30		
COC Number		824243-01-01		
	UNITS	MW21-2	RDL	QC Batch
Calculated Parameters				
Resistivity	ohm-cm	160		7334889
Inorganics				
Conductivity	umho/cm	6100	1.0	7336307
pH	pH	7.92		7336338
Dissolved Sulphate (SO4)	mg/L	210	1.0	7335906
Sulphide	mg/L	<0.020	0.020	7338319
Dissolved Chloride (Cl-)	mg/L	1800	15	7335902
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



O.REG 153 VOCs BY HS & F1-F4 (WATER)

BV Labs ID		PMH108	PMH109		PMH110		
Sampling Date		2021/04/30	2021/04/30		2021/04/30		
COC Number		824243-01-01	824243-01-01		824243-01-01		
	UNITS	MW21-1	MW21-2	RDL	MW21-3	RDL	QC Batch
Calculated Parameters							
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7334890
Volatile Organics							
Acetone (2-Propanone)	ug/L	<50	<50	50	<10	10	7329955
Benzene	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7329955
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7329955
Bromoform	ug/L	<5.0	<5.0	5.0	<1.0	1.0	7329955
Bromomethane	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7329955
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7329955
Chlorobenzene	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7329955
Chloroform	ug/L	<1.0	<1.0	1.0	<0.20	0.20	7329955
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7329955
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7329955
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7329955
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7329955
Dichlorodifluoromethane (FREON 12)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	7329955
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7329955
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7329955
1,1-Dichloroethylene	ug/L	<0.20	0.66	0.20	<0.20	0.20	7329955
cis-1,2-Dichloroethylene	ug/L	220	860	2.5	1.5	0.50	7329955
trans-1,2-Dichloroethylene	ug/L	3.7	12	2.5	<0.50	0.50	7329955
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7329955
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	<0.30	0.30	7329955
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	<0.40	0.40	7329955
Ethylbenzene	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7329955
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7329955
Hexane	ug/L	<5.0	<5.0	5.0	<1.0	1.0	7329955
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	<2.0	2.0	7329955
Methyl Ethyl Ketone (2-Butanone)	ug/L	<50	<50	50	<10	10	7329955
Methyl Isobutyl Ketone	ug/L	<25	<25	25	<5.0	5.0	7329955
Methyl t-butyl ether (MTBE)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	7329955
Styrene	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7329955
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7329955
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7329955
Tetrachloroethylene	ug/L	930	890	1.0	32	0.20	7329955
Toluene	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7329955
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							



BUREAU
VERITAS

BV Labs Job #: C1B9704
Report Date: 2021/05/07

DST Consulting Engineers Inc
Client Project #: 2103035
Your P.O. #: 2103035
Sampler Initials: CF

O.REG 153 VOCs BY HS & F1-F4 (WATER)

BV Labs ID		PMH108	PMH109		PMH110		
Sampling Date		2021/04/30	2021/04/30		2021/04/30		
COC Number		824243-01-01	824243-01-01		824243-01-01		
	UNITS	MW21-1	MW21-2	RDL	MW21-3	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	<0.20	0.20	7329955
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7329955
Trichloroethylene	ug/L	100	160	1.0	2.0	0.20	7329955
Trichlorofluoromethane (FREON 11)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	7329955
Vinyl Chloride	ug/L	7.0	31	1.0	<0.20	0.20	7329955
p+m-Xylene	ug/L	<1.0	<1.0	1.0	<0.20	0.20	7329955
o-Xylene	ug/L	<1.0	<1.0	1.0	<0.20	0.20	7329955
Total Xylenes	ug/L	<1.0	<1.0	1.0	<0.20	0.20	7329955
F1 (C6-C10)	ug/L	320	340	130	<25	25	7329955
F1 (C6-C10) - BTEX	ug/L	320	340	130	<25	25	7329955
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	370	100	<100	100	7338154
F3 (C16-C34 Hydrocarbons)	ug/L	240	750	200	<200	200	7338154
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	<200	200	7338154
Reached Baseline at C50	ug/L	Yes	Yes		Yes		7338154
Surrogate Recovery (%)							
o-Terphenyl	%	98	99		100		7338154
4-Bromofluorobenzene	%	86	86		84		7329955
D4-1,2-Dichloroethane	%	108	108		109		7329955
D8-Toluene	%	97	99		97		7329955
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BV Labs Job #: C1B9704
Report Date: 2021/05/07

DST Consulting Engineers Inc
Client Project #: 2103035
Your P.O. #: 2103035
Sampler Initials: CF

TEST SUMMARY

BV Labs ID: PMH108
Sample ID: MW21-1
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7334890	N/A	2021/05/07	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7338154	2021/05/06	2021/05/07	Ksenia Trofimova
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7329955	N/A	2021/05/07	Anna Gabrielyan

BV Labs ID: PMH109
Sample ID: MW21-2
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7334890	N/A	2021/05/07	Automated Statchk
Chloride by Automated Colourimetry	KONE	7335902	N/A	2021/05/06	Deonarine Ramnarine
Conductivity	AT	7336307	N/A	2021/05/06	Yogesh Patel
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7338154	2021/05/06	2021/05/07	Ksenia Trofimova
pH	AT	7336338	2021/05/05	2021/05/06	Yogesh Patel
Resistivity of Water		7334889	2021/05/06	2021/05/06	Automated Statchk
Sulphate by Automated Colourimetry	KONE	7335906	N/A	2021/05/06	Deonarine Ramnarine
Sulphide	ISE/S	7338319	N/A	2021/05/06	Neil Dassanayake
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7329955	N/A	2021/05/07	Anna Gabrielyan

BV Labs ID: PMH110
Sample ID: MW21-3
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	7334890	N/A	2021/05/07	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	7338154	2021/05/06	2021/05/07	Ksenia Trofimova
Volatile Organic Compounds and F1 PHCs	GC/MSFD	7329955	N/A	2021/05/07	Anna Gabrielyan



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	9.0°C
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Sample PMH108 [MW21-1] : VOCF1 Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly. In order to meet required regulatory criteria, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Sample PMH109 [MW21-2] : VOCF1 Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly. In order to meet required regulatory criteria, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Results relate only to the items tested.



BV Labs Job #: C1B9704
 Report Date: 2021/05/07

QUALITY ASSURANCE REPORT

DST Consulting Engineers Inc
 Client Project #: 2103035
 Your P.O. #: 2103035
 Sampler Initials: CF

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7329955	4-Bromofluorobenzene	2021/05/06	103	70 - 130	103	70 - 130	89	%		
7329955	D4-1,2-Dichloroethane	2021/05/06	101	70 - 130	105	70 - 130	106	%		
7329955	D8-Toluene	2021/05/06	103	70 - 130	102	70 - 130	98	%		
7338154	o-Terphenyl	2021/05/07	105	60 - 130	103	60 - 130	97	%		
7329955	1,1,1,2-Tetrachloroethane	2021/05/07	99	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
7329955	1,1,1-Trichloroethane	2021/05/07	97	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
7329955	1,1,2,2-Tetrachloroethane	2021/05/07	98	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
7329955	1,1,2-Trichloroethane	2021/05/07	98	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
7329955	1,1-Dichloroethane	2021/05/07	91	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
7329955	1,1-Dichloroethylene	2021/05/07	95	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
7329955	1,2-Dichlorobenzene	2021/05/07	97	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
7329955	1,2-Dichloroethane	2021/05/07	91	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
7329955	1,2-Dichloropropane	2021/05/07	94	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
7329955	1,3-Dichlorobenzene	2021/05/07	101	70 - 130	105	70 - 130	<0.50	ug/L	NC	30
7329955	1,4-Dichlorobenzene	2021/05/07	108	70 - 130	113	70 - 130	<0.50	ug/L	NC	30
7329955	Acetone (2-Propanone)	2021/05/07	98	60 - 140	102	60 - 140	<10	ug/L	NC	30
7329955	Benzene	2021/05/07	87	70 - 130	89	70 - 130	<0.20	ug/L	NC	30
7329955	Bromodichloromethane	2021/05/07	97	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
7329955	Bromoform	2021/05/07	97	70 - 130	102	70 - 130	<1.0	ug/L	NC	30
7329955	Bromomethane	2021/05/07	86	60 - 140	90	60 - 140	<0.50	ug/L	NC	30
7329955	Carbon Tetrachloride	2021/05/07	94	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
7329955	Chlorobenzene	2021/05/07	95	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
7329955	Chloroform	2021/05/07	95	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
7329955	cis-1,2-Dichloroethylene	2021/05/07	95	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
7329955	cis-1,3-Dichloropropene	2021/05/07	82	70 - 130	86	70 - 130	<0.30	ug/L	NC	30
7329955	Dibromochloromethane	2021/05/07	95	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
7329955	Dichlorodifluoromethane (FREON 12)	2021/05/07	97	60 - 140	100	60 - 140	<1.0	ug/L	NC	30
7329955	Ethylbenzene	2021/05/07	88	70 - 130	89	70 - 130	<0.20	ug/L	NC	30
7329955	Ethylene Dibromide	2021/05/07	91	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
7329955	F1 (C6-C10) - BTEX	2021/05/07					<25	ug/L	NC	30
7329955	F1 (C6-C10)	2021/05/07	90	60 - 140	88	60 - 140	<25	ug/L	NC	30



BV Labs Job #: C1B9704
 Report Date: 2021/05/07

QUALITY ASSURANCE REPORT(CONT'D)

DST Consulting Engineers Inc
 Client Project #: 2103035
 Your P.O. #: 2103035
 Sampler Initials: CF

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7329955	Hexane	2021/05/07	95	70 - 130	95	70 - 130	<1.0	ug/L	NC	30
7329955	Methyl Ethyl Ketone (2-Butanone)	2021/05/07	101	60 - 140	108	60 - 140	<10	ug/L	NC	30
7329955	Methyl Isobutyl Ketone	2021/05/07	93	70 - 130	101	70 - 130	<5.0	ug/L	NC	30
7329955	Methyl t-butyl ether (MTBE)	2021/05/07	85	70 - 130	88	70 - 130	<0.50	ug/L	NC	30
7329955	Methylene Chloride(Dichloromethane)	2021/05/07	97	70 - 130	100	70 - 130	<2.0	ug/L	NC	30
7329955	o-Xylene	2021/05/07	90	70 - 130	91	70 - 130	<0.20	ug/L	NC	30
7329955	p+m-Xylene	2021/05/07	93	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
7329955	Styrene	2021/05/07	102	70 - 130	106	70 - 130	<0.50	ug/L	NC	30
7329955	Tetrachloroethylene	2021/05/07	91	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
7329955	Toluene	2021/05/07	88	70 - 130	88	70 - 130	<0.20	ug/L	NC	30
7329955	Total Xylenes	2021/05/07					<0.20	ug/L	NC	30
7329955	trans-1,2-Dichloroethylene	2021/05/07	95	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
7329955	trans-1,3-Dichloropropene	2021/05/07	85	70 - 130	89	70 - 130	<0.40	ug/L	NC	30
7329955	Trichloroethylene	2021/05/07	99	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
7329955	Trichlorofluoromethane (FREON 11)	2021/05/07	94	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
7329955	Vinyl Chloride	2021/05/07	93	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
7335902	Dissolved Chloride (Cl-)	2021/05/06	NC	80 - 120	104	80 - 120	<1.0	mg/L	1.2	20
7335906	Dissolved Sulphate (SO4)	2021/05/06	119	75 - 125	103	80 - 120	<1.0	mg/L	NC	20
7336307	Conductivity	2021/05/05			102	85 - 115	<1.0	umho/cm	0.25	25
7336338	pH	2021/05/05			102	98 - 103			0.72	N/A
7338154	F2 (C10-C16 Hydrocarbons)	2021/05/07	123	60 - 130	104	60 - 130	<100	ug/L	2.0	30
7338154	F3 (C16-C34 Hydrocarbons)	2021/05/07	128	60 - 130	117	60 - 130	<200	ug/L	30	30
7338154	F4 (C34-C50 Hydrocarbons)	2021/05/07	129	60 - 130	119	60 - 130	<200	ug/L	NC	30



BV Labs Job #: C1B9704
 Report Date: 2021/05/07

QUALITY ASSURANCE REPORT(CONT'D)

DST Consulting Engineers Inc
 Client Project #: 2103035
 Your P.O. #: 2103035
 Sampler Initials: CF

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7338319	Sulphide	2021/05/06	90	80 - 120	100	80 - 120	<0.020	mg/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU
VERITAS

BV Labs Job #: C1B9704
Report Date: 2021/05/07

DST Consulting Engineers Inc
Client Project #: 2103035
Your P.O. #: 2103035
Sampler Initials: CF

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

A handwritten signature in black ink, appearing to read 'Brad Newman', written over a horizontal line.

Brad Newman, B.Sc., C.Chem., Scientific Service Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Bureau Veritas Laboratories
 6140 Campbell Road, Mississauga, Ontario Canada L4N 2L8 Tel: (905) 817-5700 Toll-free: 800-463-4296 Fax: (905) 817-5777 www.bvlab.com

04-May-21 09:00

Katherine Szozda
 C1B9704

Page 1 of 1

INVOICE TO:

REPORT TO:

Company Name: #3824 DST Consulting Engineers Inc
 Accounts Payable
 Attention: 2150 Thurston Dr Unit 203
 Ottawa ON K1G 5T9
 Tel: (613) 748-1415 Fax: (613) 748-1356
 Email: ad@dsigroup.com

Company Name: Ryan Vanden Tilandt
 Attention: Ryan Vanden Tilandt
 Address: ttilandt@dsigroup.com, seid@dsigroup.com
 Tel: Fax: Email:

PROJECT INFORMATION:
 Question # B82715
 P.O. # 2103035
 Project Name Z1030035
 Site # CR
 Sampled By: CR

Barcode: ENV-1258
 Barcode: C0825250151
 Barcode: 023443
 Barcode: Katherine Szozda

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BY LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)

Table 1 ResPak Medium Fire
 Table 2 IndComm Cruise
 Table 3 AgriOther For RSC
 Table 4 Other

Other Regulations: COME Sundry Sewer Bylaw
 Res 558 Storm Sewer Bylaw
 MISA Municipality
 P/WOD Reg 405 Table Other

Special Instructions

Field Filtered (please circle)
 Metals / Hg / Cr VI
 0 Reg 153 VOCs by HS & F1-F4
 PH
 Chloride
 Sulphate
 Sulphide
 Resistivity
 Redox Potential

Temperature Time TAT requires
 Please provide appropriate for test results

Regular (Standard) TAT:
 (will be applied if Reg 153 is not specified)

Standard TAT: 4-5 Working days for most tests
 Please note: Standard TAT for certain tests such as PCBs and Dioxins/Furans are 7-8 days - contact your Project Manager or Sales

Job Specific Rush TAT (if applicable to entire submission)
 Date Received: _____ Time Received: _____
 Rush Confirmation Number: _____
 (call lab for #) _____
 Comments: _____

Sample Location / Label	Sample Location Identification	Date Sampled	Time Sampled	Metric	Field Filtered (please circle)	Metals / Hg / Cr VI	0 Reg 153 VOCs by HS & F1-F4	PH	Chloride	Sulphate	Sulphide	Resistivity	Redox Potential	# Jars used and not submitted	Time Stripped	Laboratory Use Only	Temperature (°C) or Range	Clustor Seal Present	Yes	No
1	MW21-1	201/04/30		GW			X													
2	MW21-2						X													
3	MW21-3						X													
4																				
5																				
6																				
7																				
8																				
9																				
10																				

RUSH

REQUISITIONED BY (Signature/Print): _____ Date: (YYMMDD): 21/05/2021 Time: 16:00
 RECEIVED BY (Signature/Print): _____ Date: (YYMMDD): 2021/05/24 Time: 9:00
 Camp 2111/Carleton Field 21/05/2021 16:00
 2021/05/24 14:23
 1/2/21

UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY CONSTITUTES ACKNOWLEDGEMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVL.COM. IT IS THE RESPONSIBILITY OF THE REQUISITIONER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD AND COMPLETE AN INCIDENT REPORT IN AN ANALYTICAL TAT DELAYS.

LABORATORY USE ONLY

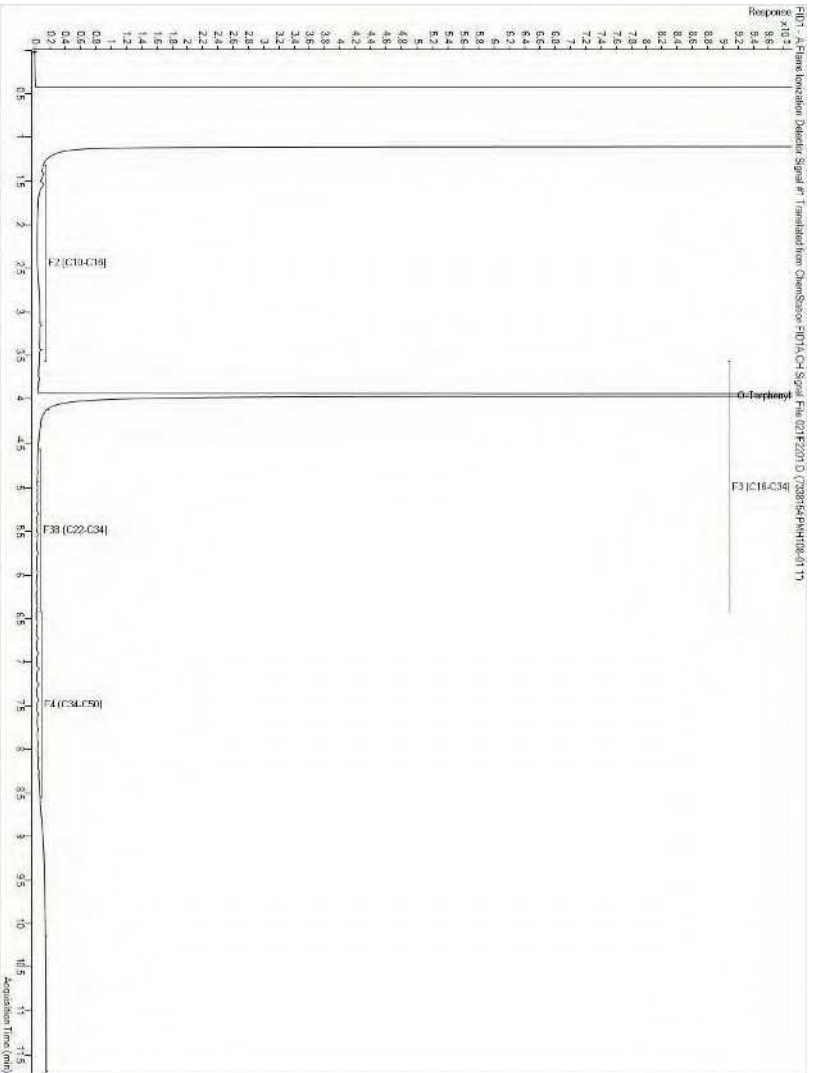
Temperature (°C) or Range: 10, 7, 18

Clustor Seal Present: _____ Yes _____ No

White: BVL Labs Yellow: Client

BV Labs Job #: C189704
Report Date: 2021/05/07
BV Labs Sample: PMH108

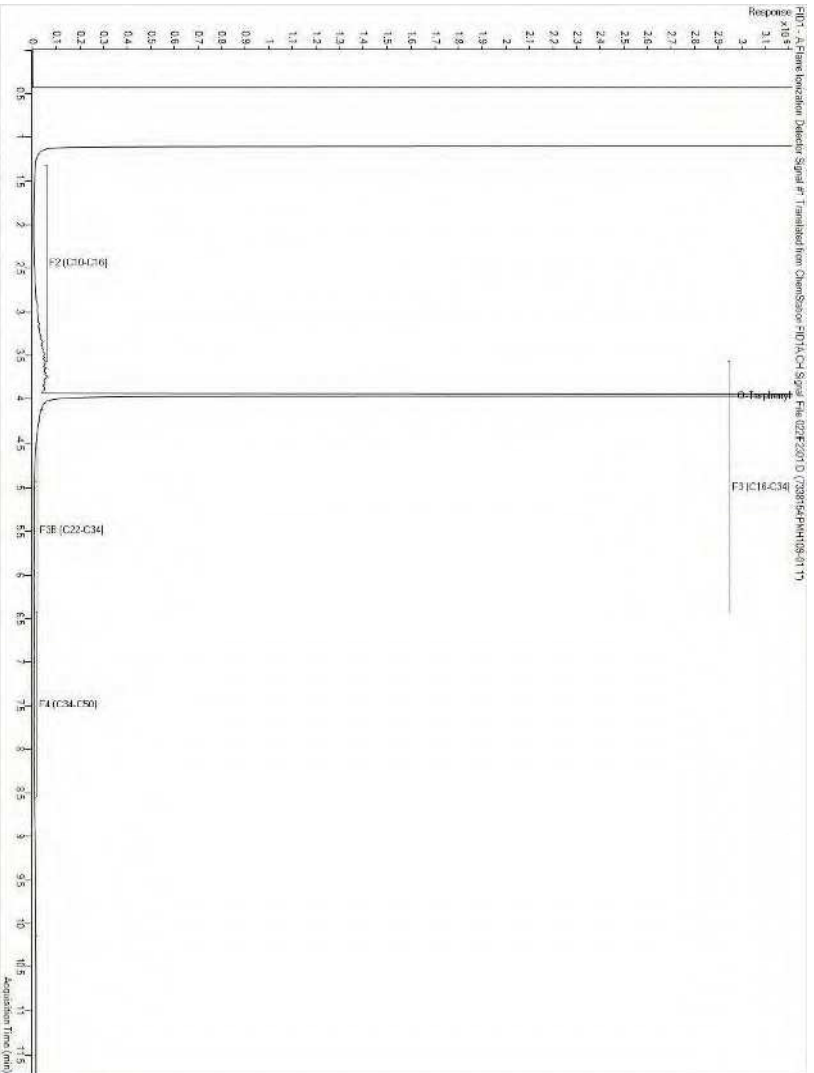
DST Consulting Engineers Inc
Client Project #: 2103035
Client ID: MW21-1
Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C189704
Report Date: 2021/05/07
BV Labs Sample: PMH109

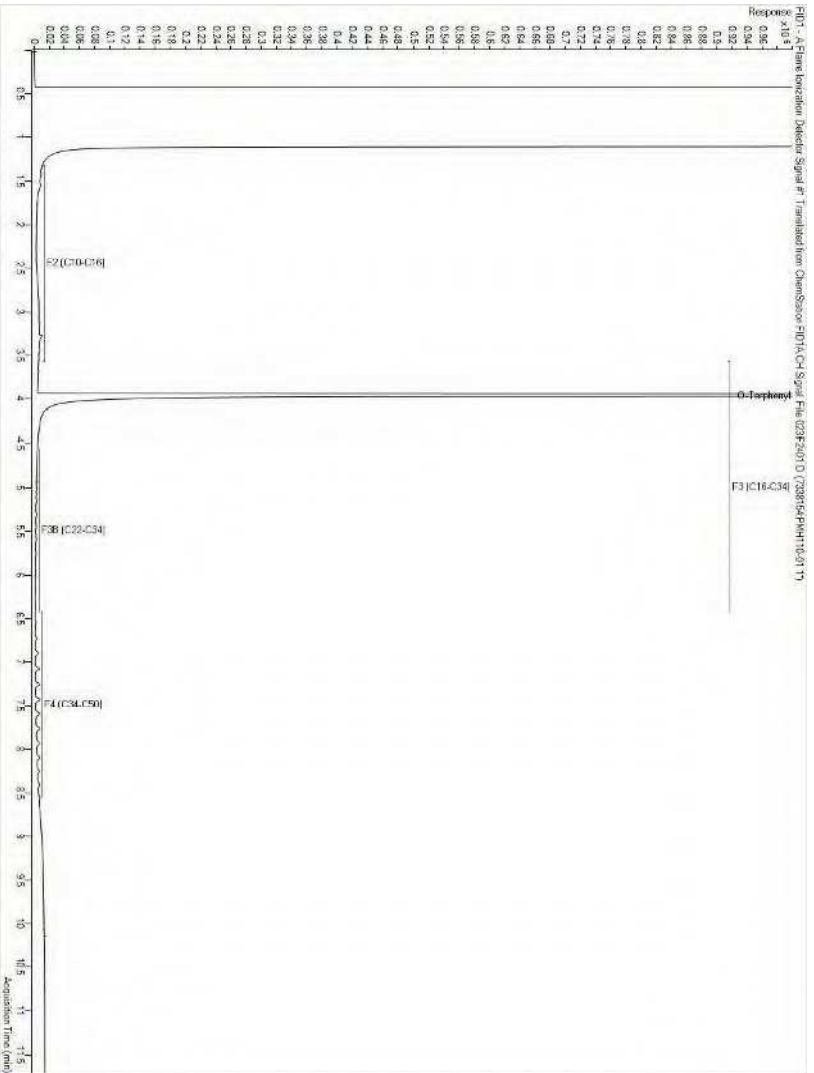
DST Consulting Engineers Inc
Client Project #: 2103035
Client ID: MW21-2
Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.

BV Labs Job #: C189704
 Report Date: 2021/05/07
 BV Labs Sample: PMH110

DST Consulting Engineers Inc
 Client Project #: 2103035
 Client ID: MW21-3
Petroleum Hydrocarbons F2-F4 in Water Chromatogram



Note: This information is provided for reference purposes only. Should detailed chemist interpretation or fingerprinting be required, please contact the laboratory.



Your Project #: 02103035
 Site Location: 424 CHURCHILL AVE N
 Your C.O.C. #: n/a

Attention: Colette Robitaille

Englobe Corp.
 Ottawa - Standing Offer
 2713 Lancaster Road
 Unit 101
 Ottawa, ON
 CANADA K1B 5R6

Report Date: 2023/07/21
 Report #: R7727572
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3K9046

Received: 2023/07/13, 09:11

Sample Matrix: Soil
 # Samples Received: 2

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Methylnaphthalene Sum (1)	2	N/A	2023/07/20	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	2	N/A	2023/07/19		EPA 8260C m
Petroleum Hydro. CCME F1 & BTEX in Soil (1, 2)	2	N/A	2023/07/17	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Soil (1, 3)	2	2023/07/18	2023/07/18	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric) (1)	2	2023/07/20	2023/07/20	CAM SOP-00316	CCME PHC-CWS m
Acid Extractable Metals by ICPMS (1)	2	2023/07/18	2023/07/18	CAM SOP-00447	EPA 6020B m
Moisture (1)	2	N/A	2023/07/17	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM) (1)	1	2023/07/18	2023/07/18	CAM SOP-00318	EPA 8270E
PAH Compounds in Soil by GC/MS (SIM) (1)	1	2023/07/19	2023/07/20	CAM SOP-00318	EPA 8270E
Volatile Organic Compounds in Soil (1)	2	N/A	2023/07/18	CAM SOP-00228	EPA 8260D

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Your C.O.C. #: n/a

Attention: Colette Robitaille

Englobe Corp.
Ottawa - Standing Offer
2713 Lancaster Road
Unit 101
Ottawa, ON
CANADA K1B 5R6

Report Date: 2023/07/21
Report #: R7727572
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3K9046

Received: 2023/07/13, 09:11

- (1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
- (2) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.
- (3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Katherine Szozda, Project Manager
Email: Katherine.Szozda@bureauveritas.com
Phone# (613)274-0573 Ext:7063633

=====

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID		WJT428	WJT430		
Sampling Date		2023/07/11 09:00	2023/07/12 10:00		
COC Number		n/a	n/a		
	UNITS	MW23-1 SS1	MW23-4 SS1	RDL	QC Batch
Metals					
Acid Extractable Antimony (Sb)	ug/g	0.25	0.37	0.20	8795348
Acid Extractable Arsenic (As)	ug/g	2.0	3.0	1.0	8795348
Acid Extractable Barium (Ba)	ug/g	630	310	0.50	8795348
Acid Extractable Beryllium (Be)	ug/g	0.32	0.29	0.20	8795348
Acid Extractable Boron (B)	ug/g	9.8	8.4	5.0	8795348
Acid Extractable Cadmium (Cd)	ug/g	0.11	0.18	0.10	8795348
Acid Extractable Chromium (Cr)	ug/g	9.0	13	1.0	8795348
Acid Extractable Cobalt (Co)	ug/g	5.3	4.5	0.10	8795348
Acid Extractable Copper (Cu)	ug/g	12	44	0.50	8795348
Acid Extractable Lead (Pb)	ug/g	48	200	1.0	8795348
Acid Extractable Molybdenum (Mo)	ug/g	0.69	1.7	0.50	8795348
Acid Extractable Nickel (Ni)	ug/g	11	11	0.50	8795348
Acid Extractable Selenium (Se)	ug/g	<0.50	<0.50	0.50	8795348
Acid Extractable Silver (Ag)	ug/g	<0.20	1.3	0.20	8795348
Acid Extractable Thallium (Tl)	ug/g	0.17	0.15	0.050	8795348
Acid Extractable Uranium (U)	ug/g	0.35	0.36	0.050	8795348
Acid Extractable Vanadium (V)	ug/g	16	22	5.0	8795348
Acid Extractable Zinc (Zn)	ug/g	25	92	5.0	8795348
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C3K9046
Report Date: 2023/07/21

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		WJT428		WJT430		
Sampling Date		2023/07/11 09:00		2023/07/12 10:00		
COC Number		n/a		n/a		
	UNITS	MW23-1 SS1	QC Batch	MW23-4 SS1	RDL	QC Batch
Calculated Parameters						
Methylnaphthalene, 2-(1-)	ug/g	<0.071	8790977	0.48	0.071	8790977
Polyaromatic Hydrocarbons						
Acenaphthene	ug/g	<0.050	8800292	0.58	0.050	8795165
Acenaphthylene	ug/g	<0.050	8800292	0.059	0.050	8795165
Anthracene	ug/g	<0.050	8800292	1.2	0.050	8795165
Benzo(a)anthracene	ug/g	0.072	8800292	3.5	0.050	8795165
Benzo(a)pyrene	ug/g	0.085	8800292	3.0	0.050	8795165
Benzo(b/j)fluoranthene	ug/g	0.11	8800292	4.3	0.050	8795165
Benzo(g,h,i)perylene	ug/g	0.079	8800292	1.8	0.050	8795165
Benzo(k)fluoranthene	ug/g	<0.050	8800292	1.7	0.050	8795165
Chrysene	ug/g	0.088	8800292	3.3	0.050	8795165
Dibenzo(a,h)anthracene	ug/g	<0.050	8800292	0.54	0.050	8795165
Fluoranthene	ug/g	0.15	8800292	8.6	0.050	8795165
Fluorene	ug/g	<0.050	8800292	0.63	0.050	8795165
Indeno(1,2,3-cd)pyrene	ug/g	0.064	8800292	2.0	0.050	8795165
1-Methylnaphthalene	ug/g	<0.050	8800292	0.24	0.050	8795165
2-Methylnaphthalene	ug/g	<0.050	8800292	0.24	0.050	8795165
Naphthalene	ug/g	<0.050	8800292	0.45	0.050	8795165
Phenanthrene	ug/g	0.10	8800292	7.5	0.050	8795165
Pyrene	ug/g	0.14	8800292	6.6	0.050	8795165
Surrogate Recovery (%)						
D10-Anthracene	%	95	8800292	82		8795165
D14-Terphenyl (FS)	%	88	8800292	82		8795165
D8-Acenaphthylene	%	83	8800292	76		8795165
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						



BUREAU
VERITAS

Bureau Veritas Job #: C3K9046
Report Date: 2023/07/21

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

O.REG 153 PHCS, BTEX/F1-F4 (SOIL)

Bureau Veritas ID		WJT428	WJT430		
Sampling Date		2023/07/11 09:00	2023/07/12 10:00		
COC Number		n/a	n/a		
	UNITS	MW23-1 SS1	MW23-4 SS1	RDL	QC Batch
BTEX & F1 Hydrocarbons					
F1 (C6-C10)	ug/g	<10	<10	10	8792822
F1 (C6-C10) - BTEX	ug/g	<10	<10	10	8792822
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	10	8795173
F3 (C16-C34 Hydrocarbons)	ug/g	340	420	50	8795173
F4 (C34-C50 Hydrocarbons)	ug/g	1300	880	50	8795173
Reached Baseline at C50	ug/g	No	No		8795173
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	97	98		8792822
4-Bromofluorobenzene	%	98	98		8792822
D10-o-Xylene	%	103	103		8792822
D4-1,2-Dichloroethane	%	95	95		8792822
o-Terphenyl	%	82	77		8795173
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C3K9046
Report Date: 2023/07/21

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

O.REG 153 VOCS BY HS (SOIL)

Bureau Veritas ID		WJT428	WJT430		
Sampling Date		2023/07/11 09:00	2023/07/12 10:00		
COC Number		n/a	n/a		
	UNITS	MW23-1 SS1	MW23-4 SS1	RDL	QC Batch
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	<0.050	0.050	8788991
Volatile Organics					
Acetone (2-Propanone)	ug/g	<0.49	<0.49	0.49	8795479
Benzene	ug/g	<0.0060	<0.0060	0.0060	8795479
Bromodichloromethane	ug/g	<0.040	<0.040	0.040	8795479
Bromoform	ug/g	<0.040	<0.040	0.040	8795479
Bromomethane	ug/g	<0.040	<0.040	0.040	8795479
Carbon Tetrachloride	ug/g	<0.040	<0.040	0.040	8795479
Chlorobenzene	ug/g	<0.040	<0.040	0.040	8795479
Chloroform	ug/g	<0.040	<0.040	0.040	8795479
Dibromochloromethane	ug/g	<0.040	<0.040	0.040	8795479
1,2-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	8795479
1,3-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	8795479
1,4-Dichlorobenzene	ug/g	<0.040	<0.040	0.040	8795479
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	<0.040	0.040	8795479
1,1-Dichloroethane	ug/g	<0.040	<0.040	0.040	8795479
1,2-Dichloroethane	ug/g	<0.049	<0.049	0.049	8795479
1,1-Dichloroethylene	ug/g	<0.040	<0.040	0.040	8795479
cis-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	8795479
trans-1,2-Dichloroethylene	ug/g	<0.040	<0.040	0.040	8795479
1,2-Dichloropropane	ug/g	<0.040	<0.040	0.040	8795479
cis-1,3-Dichloropropene	ug/g	<0.030	<0.030	0.030	8795479
trans-1,3-Dichloropropene	ug/g	<0.040	<0.040	0.040	8795479
Ethylbenzene	ug/g	<0.010	<0.010	0.010	8795479
Ethylene Dibromide	ug/g	<0.040	<0.040	0.040	8795479
Hexane	ug/g	0.054	<0.040	0.040	8795479
Methylene Chloride(Dichloromethane)	ug/g	<0.049	<0.049	0.049	8795479
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	<0.40	0.40	8795479
Methyl Isobutyl Ketone	ug/g	<0.40	<0.40	0.40	8795479
Methyl t-butyl ether (MTBE)	ug/g	<0.040	<0.040	0.040	8795479
Styrene	ug/g	<0.040	<0.040	0.040	8795479
1,1,1,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	8795479
1,1,2,2-Tetrachloroethane	ug/g	<0.040	<0.040	0.040	8795479
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C3K9046
Report Date: 2023/07/21

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

O.REG 153 VOCs BY HS (SOIL)

Bureau Veritas ID		WJT428	WJT430		
Sampling Date		2023/07/11 09:00	2023/07/12 10:00		
COC Number		n/a	n/a		
	UNITS	MW23-1 SS1	MW23-4 SS1	RDL	QC Batch
Tetrachloroethylene	ug/g	2.0	0.16	0.040	8795479
Toluene	ug/g	<0.020	<0.020	0.020	8795479
1,1,1-Trichloroethane	ug/g	<0.040	<0.040	0.040	8795479
1,1,2-Trichloroethane	ug/g	<0.040	<0.040	0.040	8795479
Trichloroethylene	ug/g	<0.010	<0.010	0.010	8795479
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	<0.040	0.040	8795479
Vinyl Chloride	ug/g	<0.019	<0.019	0.019	8795479
p+m-Xylene	ug/g	0.035	<0.020	0.020	8795479
o-Xylene	ug/g	<0.020	<0.020	0.020	8795479
Total Xylenes	ug/g	0.035	<0.020	0.020	8795479
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	96	97		8795479
D10-o-Xylene	%	100	92		8795479
D4-1,2-Dichloroethane	%	105	105		8795479
D8-Toluene	%	101	100		8795479
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C3K9046
Report Date: 2023/07/21

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		WJT428	WJT430		
Sampling Date		2023/07/11 09:00	2023/07/12 10:00		
COC Number		n/a	n/a		
	UNITS	MW23-1 SS1	MW23-4 SS1	RDL	QC Batch
Inorganics					
Moisture	%	19	14	1.0	8794208
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C3K9046
Report Date: 2023/07/21

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		WJT428	WJT430		
Sampling Date		2023/07/11 09:00	2023/07/12 10:00		
COC Number		n/a	n/a		
	UNITS	MW23-1 SS1	MW23-4 SS1	RDL	QC Batch
F2-F4 Hydrocarbons					
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	6100	3200	100	8800541
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C3K9046
Report Date: 2023/07/21

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

TEST SUMMARY

Bureau Veritas ID: WJT428
Sample ID: MW23-1 SS1
Matrix: Soil

Collected: 2023/07/11
Shipped:
Received: 2023/07/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8790977	N/A	2023/07/20	Automated Statchk
1,3-Dichloropropene Sum	CALC	8788991	N/A	2023/07/19	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8792822	N/A	2023/07/17	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8795173	2023/07/18	2023/07/18	Jeevaraj Jeevaratnam
F4G (CCME Hydrocarbons Gravimetric)	BAL	8800541	2023/07/20	2023/07/20	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	8795348	2023/07/18	2023/07/18	Daniel Teclu
Moisture	BAL	8794208	N/A	2023/07/17	Simrat Bhathal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8800292	2023/07/19	2023/07/20	Jonghan Yoon
Volatile Organic Compounds in Soil	GC/MS	8795479	N/A	2023/07/18	Skylar Canning

Bureau Veritas ID: WJT430
Sample ID: MW23-4 SS1
Matrix: Soil

Collected: 2023/07/12
Shipped:
Received: 2023/07/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8790977	N/A	2023/07/20	Automated Statchk
1,3-Dichloropropene Sum	CALC	8788991	N/A	2023/07/19	Automated Statchk
Petroleum Hydro. CCME F1 & BTEX in Soil	HSGC/MSFD	8792822	N/A	2023/07/17	Lincoln Ramdahin
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8795173	2023/07/18	2023/07/18	Jeevaraj Jeevaratnam
F4G (CCME Hydrocarbons Gravimetric)	BAL	8800541	2023/07/20	2023/07/20	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	8795348	2023/07/18	2023/07/18	Daniel Teclu
Moisture	BAL	8794208	N/A	2023/07/17	Simrat Bhathal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8795165	2023/07/18	2023/07/18	Jiaxuan (Simon) Xi
Volatile Organic Compounds in Soil	GC/MS	8795479	N/A	2023/07/18	Skylar Canning



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	7.3°C
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Sample WJT428 [MW23-1 SS1] : F1 BTEX analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

PAH ANALYSIS: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample WJT430 [MW23-4 SS1] : PAH Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8792822	1,4-Difluorobenzene	2023/07/17	98	60 - 140	98	60 - 140	98	%		
8792822	4-Bromofluorobenzene	2023/07/17	99	60 - 140	98	60 - 140	98	%		
8792822	D10-o-Xylene	2023/07/17	106	60 - 140	93	60 - 140	92	%		
8792822	D4-1,2-Dichloroethane	2023/07/17	95	60 - 140	93	60 - 140	94	%		
8795165	D10-Anthracene	2023/07/18	72	50 - 130	102	50 - 130	98	%		
8795165	D14-Terphenyl (FS)	2023/07/18	69	50 - 130	97	50 - 130	90	%		
8795165	D8-Acenaphthylene	2023/07/18	63	50 - 130	94	50 - 130	86	%		
8795173	o-Terphenyl	2023/07/18	83	60 - 130	81	60 - 130	82	%		
8795479	4-Bromofluorobenzene	2023/07/18	99	60 - 140	101	60 - 140	97	%		
8795479	D10-o-Xylene	2023/07/18	100	60 - 130	90	60 - 130	89	%		
8795479	D4-1,2-Dichloroethane	2023/07/18	103	60 - 140	104	60 - 140	105	%		
8795479	D8-Toluene	2023/07/18	107	60 - 140	105	60 - 140	100	%		
8800292	D10-Anthracene	2023/07/20	93	50 - 130	82	50 - 130	115	%		
8800292	D14-Terphenyl (FS)	2023/07/20	94	50 - 130	82	50 - 130	113	%		
8800292	D8-Acenaphthylene	2023/07/20	87	50 - 130	77	50 - 130	102	%		
8792822	F1 (C6-C10) - BTEX	2023/07/17					<10	ug/g	NC	30
8792822	F1 (C6-C10)	2023/07/17	107	60 - 140	98	80 - 120	<10	ug/g	NC	30
8794208	Moisture	2023/07/17							3.5	20
8795165	1-Methylnaphthalene	2023/07/18	81	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
8795165	2-Methylnaphthalene	2023/07/18	73	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40
8795165	Acenaphthene	2023/07/18	81	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
8795165	Acenaphthylene	2023/07/18	78	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40
8795165	Anthracene	2023/07/18	86	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40
8795165	Benzo(a)anthracene	2023/07/18	83	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
8795165	Benzo(a)pyrene	2023/07/18	78	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40
8795165	Benzo(b,j)fluoranthene	2023/07/18	81	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
8795165	Benzo(g,h,i)perylene	2023/07/18	83	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40
8795165	Benzo(k)fluoranthene	2023/07/18	79	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40
8795165	Chrysene	2023/07/18	83	50 - 130	100	50 - 130	<0.0050	ug/g	NC	40
8795165	Dibenz(a,h)anthracene	2023/07/18	79	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40
8795165	Fluoranthene	2023/07/18	84	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
8795165	Fluorene	2023/07/18	81	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40



Bureau Veritas Job #: C3K9046
Report Date: 2023/07/21

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8795165	Indeno(1,2,3-cd)pyrene	2023/07/18	80	50 - 130	98	50 - 130	<0.0050	ug/g	NC	40
8795165	Naphthalene	2023/07/18	69	50 - 130	92	50 - 130	<0.0050	ug/g	NC	40
8795165	Phenanthrene	2023/07/18	82	50 - 130	100	50 - 130	<0.0050	ug/g	NC	40
8795165	Pyrene	2023/07/18	85	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40
8795173	F2 (C10-C16 Hydrocarbons)	2023/07/18	94	60 - 130	92	80 - 120	<10	ug/g	NC	30
8795173	F3 (C16-C34 Hydrocarbons)	2023/07/18	95	60 - 130	90	80 - 120	<50	ug/g	12	30
8795173	F4 (C34-C50 Hydrocarbons)	2023/07/18	97	60 - 130	85	80 - 120	<50	ug/g	17	30
8795348	Acid Extractable Antimony (Sb)	2023/07/18	90	75 - 125	96	80 - 120	<0.20	ug/g	14	30
8795348	Acid Extractable Arsenic (As)	2023/07/18	98	75 - 125	99	80 - 120	<1.0	ug/g	4.6	30
8795348	Acid Extractable Barium (Ba)	2023/07/18	NC	75 - 125	97	80 - 120	<0.50	ug/g	8.6	30
8795348	Acid Extractable Beryllium (Be)	2023/07/18	96	75 - 125	95	80 - 120	<0.20	ug/g	0.27	30
8795348	Acid Extractable Boron (B)	2023/07/18	89	75 - 125	94	80 - 120	<5.0	ug/g	NC	30
8795348	Acid Extractable Cadmium (Cd)	2023/07/18	95	75 - 125	94	80 - 120	<0.10	ug/g	12	30
8795348	Acid Extractable Chromium (Cr)	2023/07/18	94	75 - 125	96	80 - 120	<1.0	ug/g	2.7	30
8795348	Acid Extractable Cobalt (Co)	2023/07/18	95	75 - 125	96	80 - 120	<0.10	ug/g	10	30
8795348	Acid Extractable Copper (Cu)	2023/07/18	94	75 - 125	97	80 - 120	<0.50	ug/g	0.70	30
8795348	Acid Extractable Lead (Pb)	2023/07/18	NC	75 - 125	98	80 - 120	<1.0	ug/g	27	30
8795348	Acid Extractable Molybdenum (Mo)	2023/07/18	95	75 - 125	94	80 - 120	<0.50	ug/g	4.3	30
8795348	Acid Extractable Nickel (Ni)	2023/07/18	90	75 - 125	95	80 - 120	<0.50	ug/g	5.4	30
8795348	Acid Extractable Selenium (Se)	2023/07/18	97	75 - 125	102	80 - 120	<0.50	ug/g	NC	30
8795348	Acid Extractable Silver (Ag)	2023/07/18	97	75 - 125	98	80 - 120	<0.20	ug/g	NC	30
8795348	Acid Extractable Thallium (Tl)	2023/07/18	96	75 - 125	101	80 - 120	<0.050	ug/g	4.0	30
8795348	Acid Extractable Uranium (U)	2023/07/18	98	75 - 125	100	80 - 120	<0.050	ug/g	1.8	30
8795348	Acid Extractable Vanadium (V)	2023/07/18	NC	75 - 125	94	80 - 120	<5.0	ug/g	0.23	30
8795348	Acid Extractable Zinc (Zn)	2023/07/18	NC	75 - 125	96	80 - 120	<5.0	ug/g	1.7	30
8795479	1,1,1,2-Tetrachloroethane	2023/07/18	109	60 - 140	107	60 - 130	<0.040	ug/g	NC	50
8795479	1,1,1-Trichloroethane	2023/07/18	104	60 - 140	101	60 - 130	<0.040	ug/g	NC	50
8795479	1,1,2,2-Tetrachloroethane	2023/07/18	102	60 - 140	108	60 - 130	<0.040	ug/g	NC	50
8795479	1,1,2-Trichloroethane	2023/07/18	111	60 - 140	112	60 - 130	<0.040	ug/g	NC	50
8795479	1,1-Dichloroethane	2023/07/18	100	60 - 140	98	60 - 130	<0.040	ug/g	NC	50
8795479	1,1-Dichloroethylene	2023/07/18	107	60 - 140	103	60 - 130	<0.040	ug/g	NC	50
8795479	1,2-Dichlorobenzene	2023/07/18	95	60 - 140	95	60 - 130	<0.040	ug/g	NC	50



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8795479	1,2-Dichloroethane	2023/07/18	95	60 - 140	97	60 - 130	<0.049	ug/g	NC	50
8795479	1,2-Dichloropropane	2023/07/18	98	60 - 140	98	60 - 130	<0.040	ug/g	NC	50
8795479	1,3-Dichlorobenzene	2023/07/18	100	60 - 140	98	60 - 130	<0.040	ug/g	NC	50
8795479	1,4-Dichlorobenzene	2023/07/18	115	60 - 140	113	60 - 130	<0.040	ug/g	NC	50
8795479	Acetone (2-Propanone)	2023/07/18	99	60 - 140	102	60 - 140	<0.49	ug/g	NC	50
8795479	Benzene	2023/07/18	94	60 - 140	94	60 - 130	<0.0060	ug/g	NC	50
8795479	Bromodichloromethane	2023/07/18	106	60 - 140	106	60 - 130	<0.040	ug/g	NC	50
8795479	Bromoform	2023/07/18	106	60 - 140	111	60 - 130	<0.040	ug/g	NC	50
8795479	Bromomethane	2023/07/18	111	60 - 140	106	60 - 140	<0.040	ug/g	NC	50
8795479	Carbon Tetrachloride	2023/07/18	107	60 - 140	102	60 - 130	<0.040	ug/g	NC	50
8795479	Chlorobenzene	2023/07/18	99	60 - 140	99	60 - 130	<0.040	ug/g	NC	50
8795479	Chloroform	2023/07/18	104	60 - 140	102	60 - 130	<0.040	ug/g	NC	50
8795479	cis-1,2-Dichloroethylene	2023/07/18	105	60 - 140	104	60 - 130	<0.040	ug/g	NC	50
8795479	cis-1,3-Dichloropropene	2023/07/18	92	60 - 140	95	60 - 130	<0.030	ug/g	NC	50
8795479	Dibromochloromethane	2023/07/18	106	60 - 140	107	60 - 130	<0.040	ug/g	NC	50
8795479	Dichlorodifluoromethane (FREON 12)	2023/07/18	109	60 - 140	104	60 - 140	<0.040	ug/g	NC	50
8795479	Ethylbenzene	2023/07/18	90	60 - 140	89	60 - 130	<0.010	ug/g	NC	50
8795479	Ethylene Dibromide	2023/07/18	98	60 - 140	101	60 - 130	<0.040	ug/g	NC	50
8795479	Hexane	2023/07/18	109	60 - 140	105	60 - 130	<0.040	ug/g	NC	50
8795479	Methyl Ethyl Ketone (2-Butanone)	2023/07/18	101	60 - 140	110	60 - 140	<0.40	ug/g	NC	50
8795479	Methyl Isobutyl Ketone	2023/07/18	95	60 - 140	107	60 - 130	<0.40	ug/g	NC	50
8795479	Methyl t-butyl ether (MTBE)	2023/07/18	88	60 - 140	90	60 - 130	<0.040	ug/g	NC	50
8795479	Methylene Chloride(Dichloromethane)	2023/07/18	108	60 - 140	107	60 - 130	<0.049	ug/g	NC	50
8795479	o-Xylene	2023/07/18	89	60 - 140	90	60 - 130	<0.020	ug/g	NC	50
8795479	p+m-Xylene	2023/07/18	92	60 - 140	91	60 - 130	<0.020	ug/g	NC	50
8795479	Styrene	2023/07/18	104	60 - 140	105	60 - 130	<0.040	ug/g	NC	50
8795479	Tetrachloroethylene	2023/07/18	97	60 - 140	93	60 - 130	<0.040	ug/g	NC	50
8795479	Toluene	2023/07/18	99	60 - 140	97	60 - 130	<0.020	ug/g	NC	50
8795479	Total Xylenes	2023/07/18					<0.020	ug/g	NC	50
8795479	trans-1,2-Dichloroethylene	2023/07/18	104	60 - 140	101	60 - 130	<0.040	ug/g	NC	50
8795479	trans-1,3-Dichloropropene	2023/07/18	103	60 - 140	102	60 - 130	<0.040	ug/g	NC	50
8795479	Trichloroethylene	2023/07/18	104	60 - 140	102	60 - 130	<0.010	ug/g	NC	50



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8795479	Trichlorofluoromethane (FREON 11)	2023/07/18	106	60 - 140	101	60 - 130	<0.040	ug/g	NC	50
8795479	Vinyl Chloride	2023/07/18	114	60 - 140	109	60 - 130	<0.019	ug/g	NC	50
8800292	1-Methylnaphthalene	2023/07/20	104	50 - 130	112	50 - 130	<0.0050	ug/g	NC	40
8800292	2-Methylnaphthalene	2023/07/20	97	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40
8800292	Acenaphthene	2023/07/20	98	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40
8800292	Acenaphthylene	2023/07/20	90	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
8800292	Anthracene	2023/07/20	99	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
8800292	Benzo(a)anthracene	2023/07/20	96	50 - 130	100	50 - 130	<0.0050	ug/g	NC	40
8800292	Benzo(a)pyrene	2023/07/20	89	50 - 130	93	50 - 130	<0.0050	ug/g	NC	40
8800292	Benzo(b)fluoranthene	2023/07/20	91	50 - 130	95	50 - 130	<0.0050	ug/g	NC	40
8800292	Benzo(g,h,i)perylene	2023/07/20	91	50 - 130	97	50 - 130	<0.0050	ug/g	NC	40
8800292	Benzo(k)fluoranthene	2023/07/20	95	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
8800292	Chrysene	2023/07/20	97	50 - 130	102	50 - 130	<0.0050	ug/g	NC	40
8800292	Dibenzo(a,h)anthracene	2023/07/20	85	50 - 130	90	50 - 130	<0.0050	ug/g	NC	40
8800292	Fluoranthene	2023/07/20	99	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
8800292	Fluorene	2023/07/20	105	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40
8800292	Indeno(1,2,3-cd)pyrene	2023/07/20	87	50 - 130	92	50 - 130	<0.0050	ug/g	NC	40
8800292	Naphthalene	2023/07/20	99	50 - 130	109	50 - 130	<0.0050	ug/g	NC	40
8800292	Phenanthrene	2023/07/20	95	50 - 130	99	50 - 130	<0.0050	ug/g	NC	40
8800292	Pyrene	2023/07/20	99	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
8800541	F4G-sg (Grav. Heavy Hydrocarbons)	2023/07/20	88	65 - 135	102	65 - 135	<100	ug/g	9.7	50

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU
VERITAS

Bureau Veritas Job #: C3K9046
Report Date: 2023/07/21

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



Your Project #: 2103035
 Site Location: 424 CHURCHILL AVENUE
 Your C.O.C. #: n/a

Attention: Colette Robitaille

Englobe Corp.
 Ottawa - Standing Offer
 2713 Lancaster Road
 Unit 101
 Ottawa, ON
 CANADA K1B 5R6

Report Date: 2023/07/31
 Report #: R7742659
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3L8902

Received: 2023/07/21, 10:52

Sample Matrix: Soil
 # Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Methylnaphthalene Sum (1)	1	N/A	2023/07/27	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	1	N/A	2023/07/28		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Soil (1, 2)	1	2023/07/26	2023/07/28	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric) (1)	1	2023/07/29	2023/07/29	CAM SOP-00316	CCME PHC-CWS m
Acid Extractable Metals by ICPMS (1)	1	2023/07/26	2023/07/27	CAM SOP-00447	EPA 6020B m
Moisture (1)	1	N/A	2023/07/26	CAM SOP-00445	Carter 2nd ed 51.2 m
PAH Compounds in Soil by GC/MS (SIM) (1)	1	2023/07/26	2023/07/27	CAM SOP-00318	EPA 8270E
Volatile Organic Compounds and F1 PHCs (1)	1	N/A	2023/07/28	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd, Mississauga, ON, L5N 2L8

(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the



Your Project #: 2103035
Site Location: 424 CHURCHILL AVENUE
Your C.O.C. #: n/a

Attention: Colette Robitaille

Englobe Corp.
Ottawa - Standing Offer
2713 Lancaster Road
Unit 101
Ottawa, ON
CANADA K1B 5R6

Report Date: 2023/07/31
Report #: R7742659
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3L8902

Received: 2023/07/21, 10:52

reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Katherine Szozda, Project Manager
Email: Katherine.Szozda@bureauveritas.com
Phone# (613)274-0573 Ext:7063633

=====
This report has been generated and distributed using a secure automated process. Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



BUREAU
VERITAS

Bureau Veritas Job #: C3L8902
Report Date: 2023/07/31

Englobe Corp.
Client Project #: 2103035
Site Location: 424 CHURCHILL AVENUE
Sampler Initials: JB

O.REG 153 ICPMS METALS (SOIL)

Bureau Veritas ID		WLV921		
Sampling Date		2023/07/20 09:00		
COC Number		n/a		
	UNITS	MW23-3 SS1	RDL	QC Batch
Metals				
Acid Extractable Antimony (Sb)	ug/g	0.37	0.20	8814117
Acid Extractable Arsenic (As)	ug/g	2.2	1.0	8814117
Acid Extractable Barium (Ba)	ug/g	180	0.50	8814117
Acid Extractable Beryllium (Be)	ug/g	0.32	0.20	8814117
Acid Extractable Boron (B)	ug/g	12	5.0	8814117
Acid Extractable Cadmium (Cd)	ug/g	0.10	0.10	8814117
Acid Extractable Chromium (Cr)	ug/g	14	1.0	8814117
Acid Extractable Cobalt (Co)	ug/g	9.4	0.10	8814117
Acid Extractable Copper (Cu)	ug/g	27	0.50	8814117
Acid Extractable Lead (Pb)	ug/g	46	1.0	8814117
Acid Extractable Molybdenum (Mo)	ug/g	1.3	0.50	8814117
Acid Extractable Nickel (Ni)	ug/g	18	0.50	8814117
Acid Extractable Selenium (Se)	ug/g	<0.50	0.50	8814117
Acid Extractable Silver (Ag)	ug/g	<0.20	0.20	8814117
Acid Extractable Thallium (Tl)	ug/g	0.32	0.050	8814117
Acid Extractable Uranium (U)	ug/g	0.46	0.050	8814117
Acid Extractable Vanadium (V)	ug/g	14	5.0	8814117
Acid Extractable Zinc (Zn)	ug/g	57	5.0	8814117
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C3L8902
Report Date: 2023/07/31

Englobe Corp.
Client Project #: 2103035
Site Location: 424 CHURCHILL AVENUE
Sampler Initials: JB

O.REG 153 PAHS (SOIL)

Bureau Veritas ID		WLV921		
Sampling Date		2023/07/20 09:00		
COC Number		n/a		
	UNITS	MW23-3 SS1	RDL	QC Batch
Calculated Parameters				
Methylnaphthalene, 2-(1-)	ug/g	<0.071	0.071	8807809
Polyaromatic Hydrocarbons				
Acenaphthene	ug/g	<0.050	0.050	8815235
Acenaphthylene	ug/g	<0.050	0.050	8815235
Anthracene	ug/g	0.059	0.050	8815235
Benzo(a)anthracene	ug/g	0.21	0.050	8815235
Benzo(a)pyrene	ug/g	0.19	0.050	8815235
Benzo(b/j)fluoranthene	ug/g	0.26	0.050	8815235
Benzo(g,h,i)perylene	ug/g	0.12	0.050	8815235
Benzo(k)fluoranthene	ug/g	0.095	0.050	8815235
Chrysene	ug/g	0.16	0.050	8815235
Dibenzo(a,h)anthracene	ug/g	<0.050	0.050	8815235
Fluoranthene	ug/g	0.41	0.050	8815235
Fluorene	ug/g	<0.050	0.050	8815235
Indeno(1,2,3-cd)pyrene	ug/g	0.12	0.050	8815235
1-Methylnaphthalene	ug/g	<0.050	0.050	8815235
2-Methylnaphthalene	ug/g	<0.050	0.050	8815235
Naphthalene	ug/g	<0.050	0.050	8815235
Phenanthrene	ug/g	0.20	0.050	8815235
Pyrene	ug/g	0.34	0.050	8815235
Surrogate Recovery (%)				
D10-Anthracene	%	101		8815235
D14-Terphenyl (FS)	%	96		8815235
D8-Acenaphthylene	%	89		8815235
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C3L8902
Report Date: 2023/07/31

Englobe Corp.
Client Project #: 2103035
Site Location: 424 CHURCHILL AVENUE
Sampler Initials: JB

O.REG 153 VOCs BY HS & F1-F4 (SOIL)

Bureau Veritas ID		WLV921		
Sampling Date		2023/07/20 09:00		
COC Number		n/a		
	UNITS	MW23-3 SS1	RDL	QC Batch
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/g	<0.050	0.050	8807810
Volatile Organics				
Acetone (2-Propanone)	ug/g	<0.49	0.49	8811519
Benzene	ug/g	<0.0060	0.0060	8811519
Bromodichloromethane	ug/g	<0.040	0.040	8811519
Bromoform	ug/g	<0.040	0.040	8811519
Bromomethane	ug/g	<0.040	0.040	8811519
Carbon Tetrachloride	ug/g	<0.040	0.040	8811519
Chlorobenzene	ug/g	<0.040	0.040	8811519
Chloroform	ug/g	<0.040	0.040	8811519
Dibromochloromethane	ug/g	<0.040	0.040	8811519
1,2-Dichlorobenzene	ug/g	<0.040	0.040	8811519
1,3-Dichlorobenzene	ug/g	<0.040	0.040	8811519
1,4-Dichlorobenzene	ug/g	<0.040	0.040	8811519
Dichlorodifluoromethane (FREON 12)	ug/g	<0.040	0.040	8811519
1,1-Dichloroethane	ug/g	<0.040	0.040	8811519
1,2-Dichloroethane	ug/g	<0.049	0.049	8811519
1,1-Dichloroethylene	ug/g	<0.040	0.040	8811519
cis-1,2-Dichloroethylene	ug/g	<0.040	0.040	8811519
trans-1,2-Dichloroethylene	ug/g	<0.040	0.040	8811519
1,2-Dichloropropane	ug/g	<0.040	0.040	8811519
cis-1,3-Dichloropropene	ug/g	<0.030	0.030	8811519
trans-1,3-Dichloropropene	ug/g	<0.040	0.040	8811519
Ethylbenzene	ug/g	<0.010	0.010	8811519
Ethylene Dibromide	ug/g	<0.040	0.040	8811519
Hexane	ug/g	0.062	0.040	8811519
Methylene Chloride(Dichloromethane)	ug/g	<0.049	0.049	8811519
Methyl Ethyl Ketone (2-Butanone)	ug/g	<0.40	0.40	8811519
Methyl Isobutyl Ketone	ug/g	<0.40	0.40	8811519
Methyl t-butyl ether (MTBE)	ug/g	<0.040	0.040	8811519
Styrene	ug/g	<0.040	0.040	8811519
1,1,1,2-Tetrachloroethane	ug/g	<0.040	0.040	8811519
1,1,2,2-Tetrachloroethane	ug/g	<0.040	0.040	8811519
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C3L8902
Report Date: 2023/07/31

Englobe Corp.
Client Project #: 2103035
Site Location: 424 CHURCHILL AVENUE
Sampler Initials: JB

O.REG 153 VOCs BY HS & F1-F4 (SOIL)

Bureau Veritas ID		WLV921		
Sampling Date		2023/07/20 09:00		
COC Number		n/a		
	UNITS	MW23-3 SS1	RDL	QC Batch
Tetrachloroethylene	ug/g	0.23	0.040	8811519
Toluene	ug/g	<0.020	0.020	8811519
1,1,1-Trichloroethane	ug/g	<0.040	0.040	8811519
1,1,2-Trichloroethane	ug/g	<0.040	0.040	8811519
Trichloroethylene	ug/g	<0.010	0.010	8811519
Trichlorofluoromethane (FREON 11)	ug/g	<0.040	0.040	8811519
Vinyl Chloride	ug/g	<0.019	0.019	8811519
p+m-Xylene	ug/g	<0.020	0.020	8811519
o-Xylene	ug/g	<0.020	0.020	8811519
Total Xylenes	ug/g	<0.020	0.020	8811519
F1 (C6-C10)	ug/g	<10	10	8811519
F1 (C6-C10) - BTEX	ug/g	<10	10	8811519
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/g	<10	10	8814600
F3 (C16-C34 Hydrocarbons)	ug/g	<50	50	8814600
F4 (C34-C50 Hydrocarbons)	ug/g	170	50	8814600
Reached Baseline at C50	ug/g	No		8814600
Surrogate Recovery (%)				
o-Terphenyl	%	105		8814600
4-Bromofluorobenzene	%	94		8811519
D10-o-Xylene	%	100		8811519
D4-1,2-Dichloroethane	%	102		8811519
D8-Toluene	%	95		8811519
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C3L8902
Report Date: 2023/07/31

Englobe Corp.
Client Project #: 2103035
Site Location: 424 CHURCHILL AVENUE
Sampler Initials: JB

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		WLV921		
Sampling Date		2023/07/20 09:00		
COC Number		n/a		
	UNITS	MW23-3 SS1	RDL	QC Batch
Inorganics				
Moisture	%	8.6	1.0	8813903
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C3L8902
Report Date: 2023/07/31

Englobe Corp.
Client Project #: 2103035
Site Location: 424 CHURCHILL AVENUE
Sampler Initials: JB

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		WLV921	WLV921		
Sampling Date		2023/07/20 09:00	2023/07/20 09:00		
COC Number		n/a	n/a		
	UNITS	MW23-3 SS1	MW23-3 SS1 Lab-Dup	RDL	QC Batch
F2-F4 Hydrocarbons					
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	640	640	100	8820890
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate					



BUREAU
VERITAS

Bureau Veritas Job #: C3L8902
Report Date: 2023/07/31

Englobe Corp.
Client Project #: 2103035
Site Location: 424 CHURCHILL AVENUE
Sampler Initials: JB

TEST SUMMARY

Bureau Veritas ID: WLV921
Sample ID: MW23-3 SS1
Matrix: Soil

Collected: 2023/07/20
Shipped:
Received: 2023/07/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8807809	N/A	2023/07/27	Automated Statchk
1,3-Dichloropropene Sum	CALC	8807810	N/A	2023/07/28	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	8814600	2023/07/26	2023/07/28	Agnieszka Brzuzy-Snopko
F4G (CCME Hydrocarbons Gravimetric)	BAL	8820890	2023/07/29	2023/07/29	Alketa Vrapı
Acid Extractable Metals by ICPMS	ICP/MS	8814117	2023/07/26	2023/07/27	Daniel Teclu
Moisture	BAL	8813903	N/A	2023/07/26	Simrat Bhathal
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	8815235	2023/07/26	2023/07/27	Mitesh Raj
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8811519	N/A	2023/07/28	Juan Pangilinan

Bureau Veritas ID: WLV921 Dup
Sample ID: MW23-3 SS1
Matrix: Soil

Collected: 2023/07/20
Shipped:
Received: 2023/07/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
F4G (CCME Hydrocarbons Gravimetric)	BAL	8820890	2023/07/29	2023/07/29	Alketa Vrapı



BUREAU
VERITAS

Bureau Veritas Job #: C3L8902
Report Date: 2023/07/31

Englobe Corp.
Client Project #: 2103035
Site Location: 424 CHURCHILL AVENUE
Sampler Initials: JB

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	5.7°C
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Sample WLV921 [MW23-3 SS1] : PAH ANALYSIS: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C318902
Report Date: 2023/07/31

QUALITY ASSURANCE REPORT

Englobe Corp.
Client Project #: 2103035
Site Location: 424 CHURCHILL AVENUE
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8811519	4-Bromofluorobenzene	2023/07/27	100	60 - 140	99	60 - 140	94	%		
8811519	D10-o-Xylene	2023/07/27	119	60 - 130	99	60 - 130	102	%		
8811519	D4-1,2-Dichloroethane	2023/07/27	98	60 - 140	100	60 - 140	101	%		
8811519	D8-Toluene	2023/07/27	102	60 - 140	101	60 - 140	96	%		
8814600	o-Terphenyl	2023/07/28	105	60 - 130	107	60 - 130	101	%		
8815235	D10-Anthracene	2023/07/27	102	50 - 130	105	50 - 130	106	%		
8815235	D14-Terphenyl (FS)	2023/07/27	98	50 - 130	102	50 - 130	101	%		
8815235	D8-Acenaphthylene	2023/07/27	94	50 - 130	98	50 - 130	97	%		
8811519	1,1,1,2-Tetrachloroethane	2023/07/27	89	60 - 140	94	60 - 130	<0.040	ug/g	NC	50
8811519	1,1,1-Trichloroethane	2023/07/27	91	60 - 140	97	60 - 130	<0.040	ug/g	NC	50
8811519	1,1,2,2-Tetrachloroethane	2023/07/27	86	60 - 140	89	60 - 130	<0.040	ug/g	NC	50
8811519	1,1,2-Trichloroethane	2023/07/27	91	60 - 140	95	60 - 130	<0.040	ug/g	NC	50
8811519	1,1-Dichloroethane	2023/07/27	88	60 - 140	93	60 - 130	<0.040	ug/g	NC	50
8811519	1,1-Dichloroethylene	2023/07/27	93	60 - 140	99	60 - 130	<0.040	ug/g	NC	50
8811519	1,2-Dichlorobenzene	2023/07/27	87	60 - 140	95	60 - 130	<0.040	ug/g	NC	50
8811519	1,2-Dichloroethane	2023/07/27	84	60 - 140	89	60 - 130	<0.049	ug/g	NC	50
8811519	1,2-Dichloropropane	2023/07/27	86	60 - 140	92	60 - 130	<0.040	ug/g	NC	50
8811519	1,3-Dichlorobenzene	2023/07/27	85	60 - 140	95	60 - 130	<0.040	ug/g	NC	50
8811519	1,4-Dichlorobenzene	2023/07/27	97	60 - 140	109	60 - 130	<0.040	ug/g	NC	50
8811519	Acetone (2-Propanone)	2023/07/27	91	60 - 140	98	60 - 140	<0.49	ug/g	NC	50
8811519	Benzene	2023/07/27	84	60 - 140	89	60 - 130	<0.0060	ug/g	NC	50
8811519	Bromodichloromethane	2023/07/27	89	60 - 140	95	60 - 130	<0.040	ug/g	NC	50
8811519	Bromoform	2023/07/27	87	60 - 140	93	60 - 130	<0.040	ug/g	NC	50
8811519	Bromomethane	2023/07/27	81	60 - 140	96	60 - 140	<0.040	ug/g	NC	50
8811519	Carbon Tetrachloride	2023/07/27	88	60 - 140	96	60 - 130	<0.040	ug/g	NC	50
8811519	Chlorobenzene	2023/07/27	89	60 - 140	96	60 - 130	<0.040	ug/g	NC	50
8811519	Chloroform	2023/07/27	88	60 - 140	93	60 - 130	<0.040	ug/g	NC	50
8811519	cis-1,2-Dichloroethylene	2023/07/27	88	60 - 140	94	60 - 130	<0.040	ug/g	NC	50
8811519	cis-1,3-Dichloropropene	2023/07/27	62	60 - 140	92	60 - 130	<0.030	ug/g	NC	50
8811519	Dibromochloromethane	2023/07/27	86	60 - 140	92	60 - 130	<0.040	ug/g	NC	50
8811519	Dichlorodifluoromethane (FREON 12)	2023/07/27	96	60 - 140	97	60 - 140	<0.040	ug/g	NC	50
8811519	Ethylbenzene	2023/07/27	81	60 - 140	87	60 - 130	<0.010	ug/g	NC	50



BUREAU
VERITAS

Bureau Veritas Job #: C318902
Report Date: 2023/07/31

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 2103035
Site Location: 424 CHURCHILL AVENUE
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8811519	Ethylene Dibromide	2023/07/27	86	60 - 140	91	60 - 130	<0.040	ug/g	NC	50
8811519	F1 (C6-C10) - BTEX	2023/07/27					<10	ug/g	NC	30
8811519	F1 (C6-C10)	2023/07/27	87	60 - 140	87	80 - 120	<10	ug/g	NC	30
8811519	Hexane	2023/07/27	95	60 - 140	102	60 - 130	<0.040	ug/g	NC	50
8811519	Methyl Ethyl Ketone (2-Butanone)	2023/07/27	96	60 - 140	102	60 - 140	<0.40	ug/g	NC	50
8811519	Methyl Isobutyl Ketone	2023/07/27	92	60 - 140	100	60 - 130	<0.40	ug/g	NC	50
8811519	Methyl t-butyl ether (MTBE)	2023/07/27	85	60 - 140	91	60 - 130	<0.040	ug/g	NC	50
8811519	Methylene Chloride(Dichloromethane)	2023/07/27	90	60 - 140	96	60 - 130	<0.049	ug/g	NC	50
8811519	o-Xylene	2023/07/27	83	60 - 140	89	60 - 130	<0.020	ug/g	NC	50
8811519	p+m-Xylene	2023/07/27	83	60 - 140	91	60 - 130	<0.020	ug/g	NC	50
8811519	Styrene	2023/07/27	92	60 - 140	98	60 - 130	<0.040	ug/g	NC	50
8811519	Tetrachloroethylene	2023/07/27	79	60 - 140	85	60 - 130	<0.040	ug/g	NC	50
8811519	Toluene	2023/07/27	89	60 - 140	95	60 - 130	<0.020	ug/g	NC	50
8811519	Total Xylenes	2023/07/27					<0.020	ug/g	NC	50
8811519	trans-1,2-Dichloroethylene	2023/07/27	85	60 - 140	93	60 - 130	<0.040	ug/g	NC	50
8811519	trans-1,3-Dichloropropene	2023/07/27	64	60 - 140	97	60 - 130	<0.040	ug/g	NC	50
8811519	Trichloroethylene	2023/07/27	91	60 - 140	99	60 - 130	<0.010	ug/g	NC	50
8811519	Trichlorofluoromethane (FREON 11)	2023/07/27	91	60 - 140	97	60 - 130	<0.040	ug/g	NC	50
8811519	Vinyl Chloride	2023/07/27	95	60 - 140	98	60 - 130	<0.019	ug/g	NC	50
8813903	Moisture	2023/07/26							2.3	20
8814117	Acid Extractable Antimony (Sb)	2023/07/27	97	75 - 125	99	80 - 120	<0.20	ug/g	NC	30
8814117	Acid Extractable Arsenic (As)	2023/07/27	101	75 - 125	98	80 - 120	<1.0	ug/g	2.2	30
8814117	Acid Extractable Barium (Ba)	2023/07/27	NC	75 - 125	94	80 - 120	<0.50	ug/g	0.51	30
8814117	Acid Extractable Beryllium (Be)	2023/07/27	94	75 - 125	93	80 - 120	<0.20	ug/g	5.9	30
8814117	Acid Extractable Boron (B)	2023/07/27	92	75 - 125	91	80 - 120	<5.0	ug/g	5.0	30
8814117	Acid Extractable Cadmium (Cd)	2023/07/27	100	75 - 125	97	80 - 120	<0.10	ug/g	NC	30
8814117	Acid Extractable Chromium (Cr)	2023/07/27	104	75 - 125	97	80 - 120	<1.0	ug/g	5.7	30
8814117	Acid Extractable Cobalt (Co)	2023/07/27	99	75 - 125	97	80 - 120	<0.10	ug/g	6.7	30
8814117	Acid Extractable Copper (Cu)	2023/07/27	93	75 - 125	93	80 - 120	<0.50	ug/g	3.8	30
8814117	Acid Extractable Lead (Pb)	2023/07/27	98	75 - 125	98	80 - 120	<1.0	ug/g	5.5	30
8814117	Acid Extractable Molybdenum (Mo)	2023/07/27	99	75 - 125	94	80 - 120	<0.50	ug/g	NC	30
8814117	Acid Extractable Nickel (Ni)	2023/07/27	101	75 - 125	100	80 - 120	<0.50	ug/g	4.7	30



BUREAU OF ENVIRONMENTAL QUALITY

Bureau Veritas Job #: C318902
Report Date: 2023/07/31

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 2103035
Site Location: 424 CHURCHILL AVENUE
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8814117	Acid Extractable Selenium (Se)	2023/07/27	103	75 - 125	102	80 - 120	<0.50	ug/g	NC	30
8814117	Acid Extractable Silver (Ag)	2023/07/27	105	75 - 125	102	80 - 120	<0.20	ug/g	NC	30
8814117	Acid Extractable Thallium (Tl)	2023/07/27	102	75 - 125	103	80 - 120	<0.050	ug/g	4.2	30
8814117	Acid Extractable Uranium (U)	2023/07/27	102	75 - 125	99	80 - 120	<0.050	ug/g	5.0	30
8814117	Acid Extractable Vanadium (V)	2023/07/27	106	75 - 125	95	80 - 120	<5.0	ug/g	6.5	30
8814117	Acid Extractable Zinc (Zn)	2023/07/27	99	75 - 125	100	80 - 120	<5.0	ug/g	3.1	30
8814600	F2 (C10-C16 Hydrocarbons)	2023/07/28	116	60 - 130	109	80 - 120	<10	ug/g	NC	30
8814600	F3 (C16-C34 Hydrocarbons)	2023/07/28	119	60 - 130	117	80 - 120	<50	ug/g	NC	30
8814600	F4 (C34-C50 Hydrocarbons)	2023/07/28	117	60 - 130	115	80 - 120	<50	ug/g	NC	30
8815235	1-Methyl-naphthalene	2023/07/27	113	50 - 130	117	50 - 130	<0.0050	ug/g	NC	40
8815235	2-Methyl-naphthalene	2023/07/27	104	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40
8815235	Acenaphthene	2023/07/27	102	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40
8815235	Acenaphthylene	2023/07/27	100	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40
8815235	Anthracene	2023/07/27	106	50 - 130	110	50 - 130	<0.0050	ug/g	NC	40
8815235	Benzol(a)anthracene	2023/07/27	107	50 - 130	110	50 - 130	<0.0050	ug/g	NC	40
8815235	Benzol(a)pyrene	2023/07/27	100	50 - 130	103	50 - 130	<0.0050	ug/g	NC	40
8815235	Benzol(b,j)fluoranthene	2023/07/27	104	50 - 130	107	50 - 130	<0.0050	ug/g	NC	40
8815235	Benzol(g,h,i)perylene	2023/07/27	110	50 - 130	114	50 - 130	<0.0050	ug/g	NC	40
8815235	Benzo(k)fluoranthene	2023/07/27	101	50 - 130	106	50 - 130	<0.0050	ug/g	NC	40
8815235	Chrysene	2023/07/27	104	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40
8815235	Dibenzo(a,h)anthracene	2023/07/27	106	50 - 130	110	50 - 130	<0.0050	ug/g	NC	40
8815235	Fluoranthene	2023/07/27	105	50 - 130	109	50 - 130	<0.0050	ug/g	NC	40
8815235	Fluorene	2023/07/27	102	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40
8815235	Indeno(1,2,3-cd)pyrene	2023/07/27	105	50 - 130	108	50 - 130	<0.0050	ug/g	NC	40
8815235	Naphthalene	2023/07/27	100	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40
8815235	Phenanthrene	2023/07/27	102	50 - 130	105	50 - 130	<0.0050	ug/g	NC	40
8815235	Pyrene	2023/07/27	105	50 - 130	110	50 - 130	<0.0050	ug/g	NC	40



BUREAU
VERTAS

Bureau Vertas Job #: C318902

Report Date: 2023/07/31

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.

Client Project #: 2103035

Site Location: 424 CHURCHILL AVENUE

Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8820890	F4G-sg (Grav. Heavy Hydrocarbons)	2023/07/29	73	65 - 135	101	65 - 135	<100	ug/g	0	50

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU
VERITAS

Bureau Veritas Job #: C3L8902
Report Date: 2023/07/31

Englobe Corp.
Client Project #: 2103035
Site Location: 424 CHURCHILL AVENUE
Sampler Initials: JB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



Your Project #: 02103035.000
 Site#: 424 Churchill Avenue North
 Site Location: 424 Churchill Avenue North, Ottawa
 Your C.O.C. #: 947903-02-01

Attention: Colette Robitaille

Englobe Corp.
 Ottawa - Standing Offer
 2713 Lancaster Road
 Unit 101
 Ottawa, ON
 CANADA K1B 5R6

Report Date: 2023/08/31
 Report #: R7790727
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C307276

Received: 2023/08/15, 14:01

Sample Matrix: Water
 # Samples Received: 3

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Methylnaphthalene Sum (1)	1	N/A	2023/08/28	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	3	N/A	2023/08/28		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	1	2023/08/24	2023/08/26	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS (1)	1	N/A	2023/08/29	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM) (1)	1	2023/08/24	2023/08/26	CAM SOP-00318	EPA 8270E
Volatile Organic Compounds and F1 PHCs (1)	1	N/A	2023/08/25	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds in Water (1)	2	N/A	2023/08/25	CAM SOP-00228	EPA 8260D

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd, Mississauga, ON, L5N 2L8

(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's



Your Project #: 02103035.000
Site#: 424 Churchill Avenue North
Site Location: 424 Churchill Avenue North, Ottawa
Your C.O.C. #: 947903-02-01

Attention: Colette Robitaille

Englobe Corp.
Ottawa - Standing Offer
2713 Lancaster Road
Unit 101
Ottawa, ON
CANADA K1B 5R6

Report Date: 2023/08/31
Report #: R7790727
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C307276

Received: 2023/08/15, 14:01

Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Katherine Szozda, Project Manager
Email: Katherine.Szozda@bureauveritas.com
Phone# (613)274-0573 Ext:7063633

=====
This report has been generated and distributed using a secure automated process. Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



BUREAU
VERITAS

Bureau Veritas Job #: C3O7276
Report Date: 2023/08/31

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

O.REG 153 DISSOLVED ICPMS METALS (WATER)

Bureau Veritas ID		WRW144	WRW144		
Sampling Date		2023/08/15 11:00	2023/08/15 11:00		
COC Number		947903-02-01	947903-02-01		
	UNITS	MW21-3	MW21-3 Lab-Dup	RDL	QC Batch
Metals					
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	8874818
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	8874818
Dissolved Barium (Ba)	ug/L	64	63	2.0	8874818
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	8874818
Dissolved Boron (B)	ug/L	250	250	10	8874818
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	8874818
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	8874818
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	8874818
Dissolved Copper (Cu)	ug/L	3.4	3.4	0.90	8874818
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	8874818
Dissolved Molybdenum (Mo)	ug/L	8.9	8.9	0.50	8874818
Dissolved Nickel (Ni)	ug/L	5.5	5.8	1.0	8874818
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	8874818
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	8874818
Dissolved Sodium (Na)	ug/L	340000	360000	100	8874818
Dissolved Thallium (Tl)	ug/L	0.38	0.38	0.050	8874818
Dissolved Uranium (U)	ug/L	1.8	1.8	0.10	8874818
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	8874818
Dissolved Zinc (Zn)	ug/L	6.1	6.1	5.0	8874818
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate					



BUREAU
VERITAS

Bureau Veritas Job #: C307276
Report Date: 2023/08/31

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

O.REG 153 PAHS (WATER)

Bureau Veritas ID		WRW144		
Sampling Date		2023/08/15 11:00		
COC Number		947903-02-01		
	UNITS	MW21-3	RDL	QC Batch
Calculated Parameters				
Methylnaphthalene, 2-(1-)	ug/L	<0.071	0.071	8870704
Polyaromatic Hydrocarbons				
Acenaphthene	ug/L	<0.050	0.050	8874330
Acenaphthylene	ug/L	<0.050	0.050	8874330
Anthracene	ug/L	<0.050	0.050	8874330
Benzo(a)anthracene	ug/L	<0.050	0.050	8874330
Benzo(a)pyrene	ug/L	<0.0090	0.0090	8874330
Benzo(b/j)fluoranthene	ug/L	<0.050	0.050	8874330
Benzo(g,h,i)perylene	ug/L	<0.050	0.050	8874330
Benzo(k)fluoranthene	ug/L	<0.050	0.050	8874330
Chrysene	ug/L	<0.050	0.050	8874330
Dibenzo(a,h)anthracene	ug/L	<0.050	0.050	8874330
Fluoranthene	ug/L	<0.050	0.050	8874330
Fluorene	ug/L	<0.050	0.050	8874330
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	0.050	8874330
1-Methylnaphthalene	ug/L	<0.050	0.050	8874330
2-Methylnaphthalene	ug/L	<0.050	0.050	8874330
Naphthalene	ug/L	<0.050	0.050	8874330
Phenanthrene	ug/L	<0.030	0.030	8874330
Pyrene	ug/L	<0.050	0.050	8874330
Surrogate Recovery (%)				
D10-Anthracene	%	109		8874330
D14-Terphenyl (FS)	%	94		8874330
D8-Acenaphthylene	%	94		8874330
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C307276
Report Date: 2023/08/31

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		WRW144		
Sampling Date		2023/08/15 11:00		
COC Number		947903-02-01		
	UNITS	MW21-3	RDL	QC Batch
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	8870701
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	8874251
Benzene	ug/L	<0.17	0.17	8874251
Bromodichloromethane	ug/L	<0.50	0.50	8874251
Bromoform	ug/L	<1.0	1.0	8874251
Bromomethane	ug/L	<0.50	0.50	8874251
Carbon Tetrachloride	ug/L	<0.20	0.20	8874251
Chlorobenzene	ug/L	<0.20	0.20	8874251
Chloroform	ug/L	0.27	0.20	8874251
Dibromochloromethane	ug/L	<0.50	0.50	8874251
1,2-Dichlorobenzene	ug/L	<0.50	0.50	8874251
1,3-Dichlorobenzene	ug/L	<0.50	0.50	8874251
1,4-Dichlorobenzene	ug/L	<0.50	0.50	8874251
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	8874251
1,1-Dichloroethane	ug/L	<0.20	0.20	8874251
1,2-Dichloroethane	ug/L	<0.50	0.50	8874251
1,1-Dichloroethylene	ug/L	<0.20	0.20	8874251
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	8874251
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	8874251
1,2-Dichloropropane	ug/L	<0.20	0.20	8874251
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	8874251
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	8874251
Ethylbenzene	ug/L	<0.20	0.20	8874251
Ethylene Dibromide	ug/L	<0.20	0.20	8874251
Hexane	ug/L	<1.0	1.0	8874251
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	8874251
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	8874251
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	8874251
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	8874251
Styrene	ug/L	<0.50	0.50	8874251
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	8874251
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	8874251
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C3O7276
Report Date: 2023/08/31

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		WRW144		
Sampling Date		2023/08/15 11:00		
COC Number		947903-02-01		
	UNITS	MW21-3	RDL	QC Batch
Tetrachloroethylene	ug/L	2.4	0.20	8874251
Toluene	ug/L	<0.20	0.20	8874251
1,1,1-Trichloroethane	ug/L	<0.20	0.20	8874251
1,1,2-Trichloroethane	ug/L	<0.50	0.50	8874251
Trichloroethylene	ug/L	0.72	0.20	8874251
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	8874251
Vinyl Chloride	ug/L	<0.20	0.20	8874251
p+m-Xylene	ug/L	<0.20	0.20	8874251
o-Xylene	ug/L	<0.20	0.20	8874251
Total Xylenes	ug/L	<0.20	0.20	8874251
F1 (C6-C10)	ug/L	<25	25	8874251
F1 (C6-C10) - BTEX	ug/L	<25	25	8874251
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	8874333
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	8874333
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	8874333
Reached Baseline at C50	ug/L	Yes		8874333
Surrogate Recovery (%)				
o-Terphenyl	%	100		8874333
4-Bromofluorobenzene	%	98		8874251
D4-1,2-Dichloroethane	%	108		8874251
D8-Toluene	%	92		8874251
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C307276
Report Date: 2023/08/31

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

O.REG 153 VOCS BY HS (WATER)

Bureau Veritas ID		WRW145	WRW146		
Sampling Date		2023/08/15 11:00	2023/08/15 11:00		
COC Number		947903-02-01	947903-02-01		
	UNITS	F. BLANK	T. BLANK	RDL	QC Batch
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	8870701
Volatile Organics					
Acetone (2-Propanone)	ug/L	<10	<10	10	8874098
Benzene	ug/L	<0.20	<0.20	0.20	8874098
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	8874098
Bromoform	ug/L	<1.0	<1.0	1.0	8874098
Bromomethane	ug/L	<0.50	<0.50	0.50	8874098
Carbon Tetrachloride	ug/L	<0.19	<0.19	0.19	8874098
Chlorobenzene	ug/L	<0.20	<0.20	0.20	8874098
Chloroform	ug/L	<0.20	<0.20	0.20	8874098
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	8874098
1,2-Dichlorobenzene	ug/L	<0.40	<0.40	0.40	8874098
1,3-Dichlorobenzene	ug/L	<0.40	<0.40	0.40	8874098
1,4-Dichlorobenzene	ug/L	<0.40	<0.40	0.40	8874098
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	8874098
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	8874098
1,2-Dichloroethane	ug/L	<0.49	<0.49	0.49	8874098
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	8874098
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	8874098
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	8874098
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	8874098
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	8874098
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	8874098
Ethylbenzene	ug/L	<0.20	<0.20	0.20	8874098
Ethylene Dibromide	ug/L	<0.19	<0.19	0.19	8874098
Hexane	ug/L	<1.0	<1.0	1.0	8874098
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	8874098
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	8874098
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	8874098
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	8874098
Styrene	ug/L	<0.40	<0.40	0.40	8874098
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	8874098
1,1,2,2-Tetrachloroethane	ug/L	<0.40	<0.40	0.40	8874098
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C3O7276
Report Date: 2023/08/31

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

O.REG 153 VOCS BY HS (WATER)

Bureau Veritas ID		WRW145	WRW146		
Sampling Date		2023/08/15 11:00	2023/08/15 11:00		
COC Number		947903-02-01	947903-02-01		
	UNITS	F. BLANK	T. BLANK	RDL	QC Batch
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	8874098
Toluene	ug/L	<0.20	<0.20	0.20	8874098
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	8874098
1,1,2-Trichloroethane	ug/L	<0.40	<0.40	0.40	8874098
Trichloroethylene	ug/L	<0.20	<0.20	0.20	8874098
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	8874098
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	8874098
p+m-Xylene	ug/L	<0.20	<0.20	0.20	8874098
o-Xylene	ug/L	<0.20	<0.20	0.20	8874098
Total Xylenes	ug/L	<0.20	<0.20	0.20	8874098
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	101	100		8874098
D4-1,2-Dichloroethane	%	108	107		8874098
D8-Toluene	%	92	92		8874098
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C3O7276
Report Date: 2023/08/31

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

TEST SUMMARY

Bureau Veritas ID: WRW144
Sample ID: MW21-3
Matrix: Water

Collected: 2023/08/15
Shipped:
Received: 2023/08/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8870704	N/A	2023/08/28	Automated Statchk
1,3-Dichloropropene Sum	CALC	8870701	N/A	2023/08/28	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8874333	2023/08/24	2023/08/26	Dennis Ngundu
Dissolved Metals by ICPMS	ICP/MS	8874818	N/A	2023/08/29	Nan Raykha
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8874330	2023/08/24	2023/08/26	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8874251	N/A	2023/08/25	Juan Pangilinan

Bureau Veritas ID: WRW144 Dup
Sample ID: MW21-3
Matrix: Water

Collected: 2023/08/15
Shipped:
Received: 2023/08/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	8874818	N/A	2023/08/29	Nan Raykha

Bureau Veritas ID: WRW145
Sample ID: F. BLANK
Matrix: Water

Collected: 2023/08/15
Shipped:
Received: 2023/08/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8870701	N/A	2023/08/28	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	8874098	N/A	2023/08/25	Gabriella Morrone

Bureau Veritas ID: WRW146
Sample ID: T. BLANK
Matrix: Water

Collected: 2023/08/15
Shipped:
Received: 2023/08/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8870701	N/A	2023/08/28	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	8874098	N/A	2023/08/25	Gabriella Morrone



BUREAU
VERITAS

Bureau Veritas Job #: C3O7276
Report Date: 2023/08/31

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	13.0°C
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Results relate only to the items tested.



QUALITY ASSURANCE REPORT

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8874098	4-Bromofluorobenzene	2023/08/25	100	70 - 130	100	70 - 130	102	%		
8874098	D4-1,2-Dichloroethane	2023/08/25	101	70 - 130	101	70 - 130	105	%		
8874098	D8-Toluene	2023/08/25	103	70 - 130	103	70 - 130	93	%		
8874251	4-Bromofluorobenzene	2023/08/25	99	70 - 130	101	70 - 130	97	%		
8874251	D4-1,2-Dichloroethane	2023/08/25	116	70 - 130	111	70 - 130	104	%		
8874251	D8-Toluene	2023/08/25	103	70 - 130	103	70 - 130	92	%		
8874330	D10-Anthracene	2023/08/25	103	50 - 130	114	50 - 130	115	%		
8874330	D14-Terphenyl (FS)	2023/08/25	107	50 - 130	113	50 - 130	117	%		
8874330	D8-Acenaphthylene	2023/08/25	89	50 - 130	94	50 - 130	92	%		
8874333	o-Terphenyl	2023/08/26	102	60 - 130	99	60 - 130	98	%		
8874098	1,1,1,2-Tetrachloroethane	2023/08/25	97	70 - 130	98	70 - 130	<0.50	ug/L		
8874098	1,1,1-Trichloroethane	2023/08/25	94	70 - 130	95	70 - 130	<0.20	ug/L		
8874098	1,1,2,2-Tetrachloroethane	2023/08/25	101	70 - 130	102	70 - 130	<0.40	ug/L		
8874098	1,1,2-Trichloroethane	2023/08/25	107	70 - 130	108	70 - 130	<0.40	ug/L		
8874098	1,1-Dichloroethane	2023/08/25	99	70 - 130	101	70 - 130	<0.20	ug/L		
8874098	1,1-Dichloroethylene	2023/08/25	97	70 - 130	99	70 - 130	<0.20	ug/L		
8874098	1,2-Dichlorobenzene	2023/08/25	94	70 - 130	96	70 - 130	<0.40	ug/L		
8874098	1,2-Dichloroethane	2023/08/25	98	70 - 130	100	70 - 130	<0.49	ug/L		
8874098	1,2-Dichloropropane	2023/08/25	103	70 - 130	105	70 - 130	<0.20	ug/L		
8874098	1,3-Dichlorobenzene	2023/08/25	94	70 - 130	95	70 - 130	<0.40	ug/L		
8874098	1,4-Dichlorobenzene	2023/08/25	92	70 - 130	94	70 - 130	<0.40	ug/L		
8874098	Acetone (2-Propanone)	2023/08/25	104	60 - 140	108	60 - 140	<10	ug/L		
8874098	Benzene	2023/08/25	95	70 - 130	97	70 - 130	<0.20	ug/L		
8874098	Bromodichloromethane	2023/08/25	95	70 - 130	97	70 - 130	<0.50	ug/L		
8874098	Bromoform	2023/08/25	95	70 - 130	97	70 - 130	<1.0	ug/L		
8874098	Bromomethane	2023/08/25	92	60 - 140	93	60 - 140	<0.50	ug/L		
8874098	Carbon Tetrachloride	2023/08/25	93	70 - 130	93	70 - 130	<0.19	ug/L		
8874098	Chlorobenzene	2023/08/25	95	70 - 130	96	70 - 130	<0.20	ug/L		
8874098	Chloroform	2023/08/25	95	70 - 130	97	70 - 130	<0.20	ug/L		
8874098	cis-1,2-Dichloroethylene	2023/08/25	99	70 - 130	101	70 - 130	<0.50	ug/L		
8874098	cis-1,3-Dichloropropene	2023/08/25	100	70 - 130	100	70 - 130	<0.30	ug/L		
8874098	Dibromochloromethane	2023/08/25	97	70 - 130	98	70 - 130	<0.50	ug/L		



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8874098	Dichlorodifluoromethane (FREON 12)	2023/08/25	87	60 - 140	89	60 - 140	<1.0	ug/L		
8874098	Ethylbenzene	2023/08/25	94	70 - 130	95	70 - 130	<0.20	ug/L		
8874098	Ethylene Dibromide	2023/08/25	98	70 - 130	100	70 - 130	<0.19	ug/L		
8874098	Hexane	2023/08/25	104	70 - 130	105	70 - 130	<1.0	ug/L		
8874098	Methyl Ethyl Ketone (2-Butanone)	2023/08/25	116	60 - 140	119	60 - 140	<10	ug/L		
8874098	Methyl Isobutyl Ketone	2023/08/25	117	70 - 130	119	70 - 130	<5.0	ug/L		
8874098	Methyl t-butyl ether (MTBE)	2023/08/25	96	70 - 130	98	70 - 130	<0.50	ug/L		
8874098	Methylene Chloride(Dichloromethane)	2023/08/25	98	70 - 130	99	70 - 130	<2.0	ug/L		
8874098	o-Xylene	2023/08/25	92	70 - 130	96	70 - 130	<0.20	ug/L		
8874098	p+m-Xylene	2023/08/25	95	70 - 130	97	70 - 130	<0.20	ug/L		
8874098	Styrene	2023/08/25	97	70 - 130	100	70 - 130	<0.40	ug/L		
8874098	Tetrachloroethylene	2023/08/25	96	70 - 130	97	70 - 130	<0.20	ug/L		
8874098	Toluene	2023/08/25	97	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
8874098	Total Xylenes	2023/08/25					<0.20	ug/L		
8874098	trans-1,2-Dichloroethylene	2023/08/25	98	70 - 130	99	70 - 130	<0.50	ug/L		
8874098	trans-1,3-Dichloropropene	2023/08/25	106	70 - 130	104	70 - 130	<0.40	ug/L		
8874098	Trichloroethylene	2023/08/25	95	70 - 130	96	70 - 130	<0.20	ug/L		
8874098	Trichlorofluoromethane (FREON 11)	2023/08/25	88	70 - 130	88	70 - 130	<0.50	ug/L		
8874098	Vinyl Chloride	2023/08/25	93	70 - 130	96	70 - 130	<0.20	ug/L		
8874251	1,1,1,2-Tetrachloroethane	2023/08/25	96	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
8874251	1,1,1-Trichloroethane	2023/08/25	95	70 - 130	104	70 - 130	<0.20	ug/L	NC	30
8874251	1,1,2,2-Tetrachloroethane	2023/08/25	99	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
8874251	1,1,2-Trichloroethane	2023/08/25	105	70 - 130	105	70 - 130	<0.50	ug/L	NC	30
8874251	1,1-Dichloroethane	2023/08/25	100	70 - 130	104	70 - 130	<0.20	ug/L	NC	30
8874251	1,1-Dichloroethylene	2023/08/25	96	70 - 130	103	70 - 130	<0.20	ug/L	NC	30
8874251	1,2-Dichlorobenzene	2023/08/25	93	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
8874251	1,2-Dichloroethane	2023/08/25	104	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
8874251	1,2-Dichloropropane	2023/08/25	97	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
8874251	1,3-Dichlorobenzene	2023/08/25	91	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
8874251	1,4-Dichlorobenzene	2023/08/25	92	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
8874251	Acetone (2-Propanone)	2023/08/25	111	60 - 140	108	60 - 140	<10	ug/L	NC	30
8874251	Benzene	2023/08/25	94	70 - 130	99	70 - 130	<0.17	ug/L	NC	30



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8874251	Bromodichloromethane	2023/08/25	96	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
8874251	Bromoform	2023/08/25	89	70 - 130	93	70 - 130	<1.0	ug/L	NC	30
8874251	Bromomethane	2023/08/25	96	60 - 140	97	60 - 140	<0.50	ug/L	NC	30
8874251	Carbon Tetrachloride	2023/08/25	94	70 - 130	105	70 - 130	<0.20	ug/L	NC	30
8874251	Chlorobenzene	2023/08/25	90	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
8874251	Chloroform	2023/08/25	99	70 - 130	103	70 - 130	<0.20	ug/L	NC	30
8874251	cis-1,2-Dichloroethylene	2023/08/25	96	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
8874251	cis-1,3-Dichloropropene	2023/08/25	95	70 - 130	100	70 - 130	<0.30	ug/L	NC	30
8874251	Dibromochloromethane	2023/08/25	93	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
8874251	Dichlorodifluoromethane (FREON 12)	2023/08/25	97	60 - 140	101	60 - 140	<1.0	ug/L	NC	30
8874251	Ethylbenzene	2023/08/25	84	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
8874251	Ethylene Dibromide	2023/08/25	97	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
8874251	F1 (C6-C10) - BTEX	2023/08/25					<25	ug/L	NC	30
8874251	F1 (C6-C10)	2023/08/25	83	60 - 140	94	60 - 140	<25	ug/L	NC	30
8874251	Hexane	2023/08/25	103	70 - 130	109	70 - 130	<1.0	ug/L	NC	30
8874251	Methyl Ethyl Ketone (2-Butanone)	2023/08/25	105	60 - 140	107	60 - 140	<10	ug/L	NC	30
8874251	Methyl Isobutyl Ketone	2023/08/25	100	70 - 130	104	70 - 130	<5.0	ug/L	NC	30
8874251	Methyl t-butyl ether (MTBE)	2023/08/25	89	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
8874251	Methylene Chloride(Dichloromethane)	2023/08/25	97	70 - 130	97	70 - 130	<2.0	ug/L	NC	30
8874251	o-Xylene	2023/08/25	84	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
8874251	p+m-Xylene	2023/08/25	79	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
8874251	Styrene	2023/08/25	64 (1)	70 - 130	72	70 - 130	<0.50	ug/L	NC	30
8874251	Tetrachloroethylene	2023/08/25	92	70 - 130	100	70 - 130	<0.20	ug/L	0.12	30
8874251	Toluene	2023/08/25	87	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
8874251	Total Xylenes	2023/08/25					<0.20	ug/L	NC	30
8874251	trans-1,2-Dichloroethylene	2023/08/25	96	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
8874251	trans-1,3-Dichloropropene	2023/08/25	100	70 - 130	103	70 - 130	<0.40	ug/L	NC	30
8874251	Trichloroethylene	2023/08/25	91	70 - 130	98	70 - 130	<0.20	ug/L	1.4	30
8874251	Trichlorofluoromethane (FREON 11)	2023/08/25	93	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
8874251	Vinyl Chloride	2023/08/25	94	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
8874330	1-Methylnaphthalene	2023/08/25	113	50 - 130	117	50 - 130	<0.050	ug/L	NC	30
8874330	2-Methylnaphthalene	2023/08/25	102	50 - 130	106	50 - 130	<0.050	ug/L	NC	30



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
 Client Project #: 02103035.000
 Site Location: 424 Churchill Avenue North, Ottawa
 Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8874330	Acenaphthene	2023/08/25	102	50 - 130	105	50 - 130	<0.050	ug/L	NC	30
8874330	Acenaphthylene	2023/08/25	97	50 - 130	99	50 - 130	<0.050	ug/L	NC	30
8874330	Anthracene	2023/08/25	108	50 - 130	111	50 - 130	<0.050	ug/L	NC	30
8874330	Benzol(a)anthracene	2023/08/25	101	50 - 130	101	50 - 130	<0.050	ug/L	NC	30
8874330	Benzol(a)pyrene	2023/08/25	94	50 - 130	92	50 - 130	<0.0090	ug/L	NC	30
8874330	Benzol(b,j)fluoranthene	2023/08/25	99	50 - 130	97	50 - 130	<0.050	ug/L	NC	30
8874330	Benzol(g,h,i)perylene	2023/08/25	101	50 - 130	98	50 - 130	<0.050	ug/L	NC	30
8874330	Benzol(k)fluoranthene	2023/08/25	93	50 - 130	93	50 - 130	<0.050	ug/L	NC	30
8874330	Chrysene	2023/08/25	99	50 - 130	98	50 - 130	<0.050	ug/L	NC	30
8874330	Dibenzo(a,h)anthracene	2023/08/25	94	50 - 130	90	50 - 130	<0.050	ug/L	NC	30
8874330	Fluoranthene	2023/08/25	112	50 - 130	116	50 - 130	<0.050	ug/L	NC	30
8874330	Fluorene	2023/08/25	101	50 - 130	104	50 - 130	<0.050	ug/L	NC	30
8874330	Indeno(1,2,3-cd)pyrene	2023/08/25	102	50 - 130	99	50 - 130	<0.050	ug/L	NC	30
8874330	Naphthalene	2023/08/25	97	50 - 130	99	50 - 130	<0.050	ug/L	NC	30
8874330	Phenanthrene	2023/08/25	103	50 - 130	106	50 - 130	<0.030	ug/L	NC	30
8874330	Pyrene	2023/08/25	111	50 - 130	114	50 - 130	<0.050	ug/L	NC	30
8874333	F2 (C10-C16 Hydrocarbons)	2023/08/26	102	60 - 130	100	60 - 130	<100	ug/L	NC	30
8874333	F3 (C16-C34 Hydrocarbons)	2023/08/26	100	60 - 130	100	60 - 130	<200	ug/L	NC	30
8874333	F4 (C34-C50 Hydrocarbons)	2023/08/26	88	60 - 130	85	60 - 130	<200	ug/L	NC	30
8874818	Dissolved Antimony (Sb)	2023/08/29	118	80 - 120	105	80 - 120	<0.50	ug/L	NC	20
8874818	Dissolved Arsenic (As)	2023/08/29	107	80 - 120	99	80 - 120	<1.0	ug/L	NC	20
8874818	Dissolved Barium (Ba)	2023/08/29	110	80 - 120	103	80 - 120	<2.0	ug/L	1.5	20
8874818	Dissolved Beryllium (Be)	2023/08/29	108	80 - 120	101	80 - 120	<0.40	ug/L	NC	20
8874818	Dissolved Boron (B)	2023/08/29	103	80 - 120	99	80 - 120	<10	ug/L	0.085	20
8874818	Dissolved Cadmium (Cd)	2023/08/29	110	80 - 120	99	80 - 120	<0.090	ug/L	NC	20
8874818	Dissolved Chromium (Cr)	2023/08/29	107	80 - 120	101	80 - 120	<5.0	ug/L	NC	20
8874818	Dissolved Cobalt (Co)	2023/08/29	107	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
8874818	Dissolved Copper (Cu)	2023/08/29	114	80 - 120	101	80 - 120	<0.90	ug/L	0.59	20
8874818	Dissolved Lead (Pb)	2023/08/29	102	80 - 120	99	80 - 120	<0.50	ug/L	NC	20
8874818	Dissolved Molybdenum (Mo)	2023/08/29	122 (2)	80 - 120	105	80 - 120	<0.50	ug/L	0.41	20
8874818	Dissolved Nickel (Ni)	2023/08/29	101	80 - 120	97	80 - 120	<1.0	ug/L	5.1	20
8874818	Dissolved Selenium (Se)	2023/08/29	106	80 - 120	100	80 - 120	<2.0	ug/L	NC	20



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8874818	Dissolved Silver (Ag)	2023/08/29	110	80 - 120	101	80 - 120	<0.090	ug/L	NC	20
8874818	Dissolved Sodium (Na)	2023/08/29	NC	80 - 120	100	80 - 120	<100	ug/L	3.4	20
8874818	Dissolved Thallium (Tl)	2023/08/29	103	80 - 120	100	80 - 120	<0.050	ug/L	0.53	20
8874818	Dissolved Uranium (U)	2023/08/29	106	80 - 120	99	80 - 120	<0.10	ug/L	1.1	20
8874818	Dissolved Vanadium (V)	2023/08/29	111	80 - 120	100	80 - 120	<0.50	ug/L	NC	20
8874818	Dissolved Zinc (Zn)	2023/08/29	104	80 - 120	98	80 - 120	<5.0	ug/L	0.67	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Matrix Spike exceeds acceptance limits, probable matrix interference



BUREAU
VERITAS

Bureau Veritas Job #: C3O7276
Report Date: 2023/08/31

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Brad Newman, B.Sc., C.Chem., Scientific Service Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



Your Project #: 02103035
 Site Location: 424 CHURCHILL AVE N
 Your C.O.C. #: n/a

Attention: Salim Eid

Englobe Corp.
 Ottawa - Standing Offer
 2713 Lancaster Road
 Unit 101
 Ottawa, ON
 CANADA K1B 5R6

Report Date: 2023/12/07
 Report #: R7944562
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3AQ664

Received: 2023/11/29, 18:49

Sample Matrix: Water
 # Samples Received: 2

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
1,3-Dichloropropene Sum (1)	2	N/A	2023/12/07		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	2	2023/12/03	2023/12/04	CAM SOP-00316	CCME PHC-CWS m
Volatile Organic Compounds and F1 PHCs (1)	2	N/A	2023/12/04	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8

(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.



Your Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Your C.O.C. #: n/a

Attention: Salim Eid
Englobe Corp.
Ottawa - Standing Offer
2713 Lancaster Road
Unit 101
Ottawa, ON
CANADA K1B 5R6

Report Date: 2023/12/07
Report #: R7944562
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3AQ664
Received: 2023/11/29, 18:49

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Katherine Szozda, Project Manager
Email: Katherine.Szozda@bureauveritas.com
Phone# (613)274-0573 Ext:7063633

=====
This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



BUREAU
VERITAS

Bureau Veritas Job #: C3AQ664
Report Date: 2023/12/07

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		XTI651		XTI652		
Sampling Date		2023/11/28 16:00		2023/11/29 16:00		
COC Number		n/a		n/a		
	UNITS	MW 23-1	RDL	MW 23-2	RDL	QC Batch
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	<0.50	0.50	9084432
Volatile Organics						
Acetone (2-Propanone)	ug/L	<10	10	<10	10	9087630
Benzene	ug/L	<0.17	0.17	<0.17	0.17	9087630
Bromodichloromethane	ug/L	<0.50	0.50	<0.50	0.50	9087630
Bromoform	ug/L	<1.0	1.0	<1.0	1.0	9087630
Bromomethane	ug/L	<0.50	0.50	<0.50	0.50	9087630
Carbon Tetrachloride	ug/L	<0.20	0.20	<0.20	0.20	9087630
Chlorobenzene	ug/L	<0.20	0.20	<0.20	0.20	9087630
Chloroform	ug/L	0.48	0.20	0.55	0.20	9087630
Dibromochloromethane	ug/L	<0.50	0.50	<0.50	0.50	9087630
1,2-Dichlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	9087630
1,3-Dichlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	9087630
1,4-Dichlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	9087630
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	<1.0	1.0	9087630
1,1-Dichloroethane	ug/L	<0.20	0.20	0.26	0.20	9087630
1,2-Dichloroethane	ug/L	<0.50	0.50	<0.50	0.50	9087630
1,1-Dichloroethylene	ug/L	<0.20	0.20	0.25	0.20	9087630
cis-1,2-Dichloroethylene	ug/L	40	0.50	33	0.50	9087630
trans-1,2-Dichloroethylene	ug/L	0.69	0.50	0.94	0.50	9087630
1,2-Dichloropropane	ug/L	<0.20	0.20	<0.20	0.20	9087630
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	<0.30	0.30	9087630
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	<0.40	0.40	9087630
Ethylbenzene	ug/L	<0.20	0.20	<0.20	0.20	9087630
Ethylene Dibromide	ug/L	<0.20	0.20	<0.20	0.20	9087630
Hexane	ug/L	<1.0	1.0	<1.0	1.0	9087630
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	<2.0	2.0	9087630
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	<10	10	9087630
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	<5.0	5.0	9087630
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	<0.50	0.50	9087630
Styrene	ug/L	<0.50	0.50	<0.50	0.50	9087630
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						



BUREAU
VERITAS

Bureau Veritas Job #: C3AQ664
Report Date: 2023/12/07

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		XTI651		XTI652		
Sampling Date		2023/11/28 16:00		2023/11/29 16:00		
COC Number		n/a		n/a		
	UNITS	MW 23-1	RDL	MW 23-2	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	<0.50	0.50	9087630
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	<0.50	0.50	9087630
Tetrachloroethylene	ug/L	0.57	0.20	1400	1.0	9087630
Toluene	ug/L	<0.20	0.20	<0.20	0.20	9087630
1,1,1-Trichloroethane	ug/L	<0.20	0.20	<0.20	0.20	9087630
1,1,2-Trichloroethane	ug/L	<0.50	0.50	<0.50	0.50	9087630
Trichloroethylene	ug/L	1.2	0.20	120	0.20	9087630
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	<0.50	0.50	9087630
Vinyl Chloride	ug/L	7.3	0.20	4.0	0.20	9087630
p+m-Xylene	ug/L	<0.20	0.20	<0.20	0.20	9087630
o-Xylene	ug/L	<0.20	0.20	<0.20	0.20	9087630
Total Xylenes	ug/L	<0.20	0.20	<0.20	0.20	9087630
F1 (C6-C10)	ug/L	<25	25	480 (1)	130	9087630
F1 (C6-C10) - BTEX	ug/L	<25	25	480	130	9087630
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	<100	100	9087970
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	<200	200	9087970
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	<200	200	9087970
Reached Baseline at C50	ug/L	Yes		Yes		9087970
Surrogate Recovery (%)						
o-Terphenyl	%	102		100		9087970
4-Bromofluorobenzene	%	89		84		9087630
D4-1,2-Dichloroethane	%	109		110		9087630
D8-Toluene	%	86		84		9087630
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Result reported was due to chlorinated compounds eluting inside the F1 range.						



BUREAU
VERITAS

Bureau Veritas Job #: C3AQ664
Report Date: 2023/12/07

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

TEST SUMMARY

Bureau Veritas ID: XT1651
Sample ID: MW 23-1
Matrix: Water

Collected: 2023/11/28
Shipped:
Received: 2023/11/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9084432	N/A	2023/12/07	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9087970	2023/12/03	2023/12/04	Jeevaraj Jeevaratnam
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9087630	N/A	2023/12/04	Gladys Guerrero

Bureau Veritas ID: XT1652
Sample ID: MW 23-2
Matrix: Water

Collected: 2023/11/29
Shipped:
Received: 2023/11/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9084432	N/A	2023/12/07	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9087970	2023/12/03	2023/12/04	Jeevaraj Jeevaratnam
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9087630	N/A	2023/12/04	Gladys Guerrero



BUREAU
VERITAS

Bureau Veritas Job #: C3AQ664
Report Date: 2023/12/07

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	5.7°C
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Sample XTI652 [MW 23-2] : VOC/F1 Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly. In order to achieve lower reporting limits, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9087630	4-Bromofluorobenzene	2023/12/04	96	70 - 130	97	70 - 130	92	%		
9087630	D4-1,2-Dichloroethane	2023/12/04	103	70 - 130	96	70 - 130	99	%		
9087630	D8-Toluene	2023/12/04	104	70 - 130	106	70 - 130	90	%		
9087970	o-Terphenyl	2023/12/04	102	60 - 130	104	60 - 130	101	%		
9087630	1,1,1,2-Tetrachloroethane	2023/12/04	99	70 - 130	92	70 - 130	<0.50	ug/L	NC	30
9087630	1,1,1-Trichloroethane	2023/12/04	97	70 - 130	86	70 - 130	<0.20	ug/L	NC	30
9087630	1,1,2,2-Tetrachloroethane	2023/12/04	105	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
9087630	1,1,2-Trichloroethane	2023/12/04	102	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
9087630	1,1-Dichloroethane	2023/12/04	101	70 - 130	89	70 - 130	<0.20	ug/L	NC	30
9087630	1,1-Dichloroethylene	2023/12/04	98	70 - 130	87	70 - 130	<0.20	ug/L	NC	30
9087630	1,2-Dichlorobenzene	2023/12/04	102	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
9087630	1,2-Dichloroethane	2023/12/04	99	70 - 130	86	70 - 130	<0.50	ug/L	NC	30
9087630	1,2-Dichloropropane	2023/12/04	102	70 - 130	91	70 - 130	<0.20	ug/L	NC	30
9087630	1,3-Dichlorobenzene	2023/12/04	101	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
9087630	1,4-Dichlorobenzene	2023/12/04	112	70 - 130	111	70 - 130	<0.50	ug/L	NC	30
9087630	Acetone (2-Propanone)	2023/12/04	106	60 - 140	96	60 - 140	<10	ug/L	NC	30
9087630	Benzene	2023/12/04	93	70 - 130	82	70 - 130	<0.17	ug/L	NC	30
9087630	Bromodichloromethane	2023/12/04	106	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
9087630	Bromoform	2023/12/04	92	70 - 130	86	70 - 130	<1.0	ug/L	NC	30
9087630	Bromomethane	2023/12/04	101	60 - 140	86	60 - 140	<0.50	ug/L	NC	30
9087630	Carbon Tetrachloride	2023/12/04	94	70 - 130	84	70 - 130	<0.20	ug/L	NC	30
9087630	Chlorobenzene	2023/12/04	103	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
9087630	Chloroform	2023/12/04	103	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
9087630	cis-1,2-Dichloroethylene	2023/12/04	102	70 - 130	90	70 - 130	<0.50	ug/L	NC	30
9087630	cis-1,3-Dichloropropene	2023/12/04	106	70 - 130	95	70 - 130	<0.30	ug/L	NC	30
9087630	Dibromochloromethane	2023/12/04	98	70 - 130	90	70 - 130	<0.50	ug/L	NC	30
9087630	Dichlorodifluoromethane (FREON 12)	2023/12/04	92	60 - 140	80	60 - 140	<1.0	ug/L	NC	30
9087630	Ethylbenzene	2023/12/04	90	70 - 130	86	70 - 130	<0.20	ug/L	NC	30
9087630	Ethylene Dibromide	2023/12/04	103	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
9087630	F1 (C6-C10) - BTEX	2023/12/04	103		95		<25	ug/L	NC	30
9087630	F1 (C6-C10)	2023/12/04	103	60 - 140	95	60 - 140	<25	ug/L	NC	30
9087630	Hexane	2023/12/04	94	70 - 130	85	70 - 130	<1.0	ug/L	NC	30



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9087630	Methyl Ethyl Ketone (2-Butanone)	2023/12/04	113	60 - 140	104	60 - 140	<10	ug/L	NC	30
9087630	Methyl Isobutyl Ketone	2023/12/04	89	70 - 130	85	70 - 130	<5.0	ug/L	NC	30
9087630	Methyl t-butyl ether (MTBE)	2023/12/04	102	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
9087630	Methylene Chloride(Dichloromethane)	2023/12/04	119	70 - 130	102	70 - 130	<2.0	ug/L	NC	30
9087630	o-Xylene	2023/12/04	85	70 - 130	82	70 - 130	<0.20	ug/L	NC	30
9087630	p+m-Xylene	2023/12/04	95	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
9087630	Styrene	2023/12/04	76	70 - 130	74	70 - 130	<0.50	ug/L	NC	30
9087630	Tetrachloroethylene	2023/12/04	97	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
9087630	Toluene	2023/12/04	94	70 - 130	87	70 - 130	<0.20	ug/L	NC	30
9087630	Total Xylenes	2023/12/04					<0.20	ug/L	NC	30
9087630	trans-1,2-Dichloroethylene	2023/12/04	97	70 - 130	87	70 - 130	<0.50	ug/L	NC	30
9087630	trans-1,3-Dichloropropene	2023/12/04	118	70 - 130	108	70 - 130	<0.40	ug/L	NC	30
9087630	Trichloroethylene	2023/12/04	99	70 - 130	89	70 - 130	<0.20	ug/L	NC	30
9087630	Trichlorofluoromethane (FREON 11)	2023/12/04	96	70 - 130	85	70 - 130	<0.50	ug/L	NC	30
9087630	Vinyl Chloride	2023/12/04	95	70 - 130	82	70 - 130	<0.20	ug/L	NC	30
9087970	F2 (C10-C16 Hydrocarbons)	2023/12/04	104	60 - 130	107	60 - 130	<100	ug/L	NC	30
9087970	F3 (C16-C34 Hydrocarbons)	2023/12/04	103	60 - 130	108	60 - 130	<200	ug/L	NC	30
9087970	F4 (C34-C50 Hydrocarbons)	2023/12/04	104	60 - 130	108	60 - 130	<200	ug/L	NC	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU
VERITAS

Bureau Veritas Job #: C3AQ664
Report Date: 2023/12/07

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in black ink, appearing to read "Anastassia Hamanov", written over a horizontal line.

Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Your Project #: 02203035
 Site Location: 424 CHURCHILL AVE N
 Your C.O.C. #: N/A

Attention: Colette Robitaille

Englobe Corp.
 Ottawa - Standing Offer
 2713 Lancaster Road
 Unit 101
 Ottawa, ON
 CANADA K1B 5R6

Report Date: 2023/09/06
 Report #: R7799130
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3Q4727

Received: 2023/08/29, 17:06

Sample Matrix: Water
 # Samples Received: 7

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Methylnaphthalene Sum (1)	2	N/A	2023/09/03	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	2	N/A	2023/09/05		EPA 8260C m
Petroleum Hydro. CCME F1 & BTEX in Water (1)	5	N/A	2023/09/01	CAM SOP-00315	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	2	2023/09/02	2023/09/05	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS (1)	2	N/A	2023/09/05	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM) (1)	2	2023/09/02	2023/09/02	CAM SOP-00318	EPA 8270E
Volatile Organic Compounds and F1 PHCs (1)	2	N/A	2023/09/01	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd, Mississauga, ON, L5N 2L8

(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's



Your Project #: 02203035
Site Location: 424 CHURCHILL AVE N
Your C.O.C. #: N/A

Attention: Colette Robitaille

Englobe Corp.
Ottawa - Standing Offer
2713 Lancaster Road
Unit 101
Ottawa, ON
CANADA K1B 5R6

Report Date: 2023/09/06
Report #: R7799130
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3Q4727

Received: 2023/08/29, 17:06

Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Katherine Szozda, Project Manager
Email: Katherine.Szozda@bureauveritas.com
Phone# (613)274-0573 Ext:7063633

=====
This report has been generated and distributed using a secure automated process. Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



BUREAU
VERITAS

Bureau Veritas Job #: C3Q4727
Report Date: 2023/09/06

Englobe Corp.
Client Project #: 02203035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		WVM781	WVM781	WVM782	WVM784	WVM785	WVM786		
Sampling Date		2023/08/28 15:00	2023/08/28 15:00	2023/08/28 15:30	2023/08/28 19:00	2023/08/28 16:30	2023/08/28 16:30		
COC Number		N/A	N/A	N/A	N/A	N/A	N/A		
	UNITS	MW23-2	MW23-2 Lab-Dup	MW23-3	MW23-20	T.BLANK	F.BLANK	RDL	QC Batch
BTEX & F1 Hydrocarbons									
Benzene	ug/L	0.33	0.30	<0.20	0.38	<0.20	<0.20	0.20	8892291
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8892291
Ethylbenzene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8892291
o-Xylene	ug/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.20	8892291
p+m-Xylene	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	8892291
Total Xylenes	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	8892291
F1 (C6-C10)	ug/L	500	480	100	540	<25	<25	25	8892291
F1 (C6-C10) - BTEX	ug/L	490	480	100	540	<25	<25	25	8892291
Surrogate Recovery (%)									
1,4-Difluorobenzene	%	100	100	106	101	110	106		8892291
4-Bromofluorobenzene	%	81	105	85	100	78	108		8892291
D10-o-Xylene	%	87	89	94	87	92	91		8892291
D4-1,2-Dichloroethane	%	109	109	121	108	110	113		8892291
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



O.REG 153 DISSOLVED ICPMS METALS (WATER)

Bureau Veritas ID		WVM780	WVM783		
Sampling Date		2023/08/28 16:50	2023/08/28 13:00		
COC Number		N/A	N/A		
	UNITS	MW23-1	MW23-11	RDL	QC Batch
Metals					
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	8891614
Dissolved Arsenic (As)	ug/L	1.1	<1.0	1.0	8891614
Dissolved Barium (Ba)	ug/L	100	110	2.0	8891614
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	8891614
Dissolved Boron (B)	ug/L	220	230	10	8891614
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	8891614
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	8891614
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	8891614
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	8891614
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	8891614
Dissolved Molybdenum (Mo)	ug/L	0.73	<0.50	0.50	8891614
Dissolved Nickel (Ni)	ug/L	<1.0	1.2	1.0	8891614
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	8891614
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	8891614
Dissolved Sodium (Na)	ug/L	550000	540000	100	8891614
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	8891614
Dissolved Uranium (U)	ug/L	0.48	0.45	0.10	8891614
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	8891614
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	8891614
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C3Q4727
Report Date: 2023/09/06

Englobe Corp.
Client Project #: 02203035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

O.REG 153 PAHS (WATER)

Bureau Veritas ID		WVM780	WVM783		
Sampling Date		2023/08/28 16:50	2023/08/28 13:00		
COC Number		N/A	N/A		
	UNITS	MW23-1	MW23-11	RDL	QC Batch
Calculated Parameters					
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	0.071	8885751
Polyaromatic Hydrocarbons					
Acenaphthene	ug/L	<0.050	<0.050	0.050	8894215
Acenaphthylene	ug/L	<0.050	<0.050	0.050	8894215
Anthracene	ug/L	<0.050	<0.050	0.050	8894215
Benzo(a)anthracene	ug/L	<0.050	<0.050	0.050	8894215
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	0.0090	8894215
Benzo(b,j)fluoranthene	ug/L	<0.050	<0.050	0.050	8894215
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	0.050	8894215
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	0.050	8894215
Chrysene	ug/L	<0.050	<0.050	0.050	8894215
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	0.050	8894215
Fluoranthene	ug/L	<0.050	<0.050	0.050	8894215
Fluorene	ug/L	<0.050	<0.050	0.050	8894215
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	0.050	8894215
1-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	8894215
2-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	8894215
Naphthalene	ug/L	<0.050	<0.050	0.050	8894215
Phenanthrene	ug/L	<0.030	<0.030	0.030	8894215
Pyrene	ug/L	<0.050	<0.050	0.050	8894215
Surrogate Recovery (%)					
D10-Anthracene	%	96	101		8894215
D14-Terphenyl (FS)	%	102	107		8894215
D8-Acenaphthylene	%	84	88		8894215
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C3Q4727
Report Date: 2023/09/06

Englobe Corp.
Client Project #: 02203035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		WVM780	WVM783		
Sampling Date		2023/08/28 16:50	2023/08/28 13:00		
COC Number		N/A	N/A		
	UNITS	MW23-1	MW23-11	RDL	QC Batch
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	8885752
Volatile Organics					
Acetone (2-Propanone)	ug/L	<10	<10	10	8890975
Benzene	ug/L	0.22	0.25	0.17	8890975
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	8890975
Bromoform	ug/L	<1.0	<1.0	1.0	8890975
Bromomethane	ug/L	<0.50	<0.50	0.50	8890975
Carbon Tetrachloride	ug/L	<0.20	<0.20	0.20	8890975
Chlorobenzene	ug/L	<0.20	<0.20	0.20	8890975
Chloroform	ug/L	1.0	0.96	0.20	8890975
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	8890975
1,2-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	8890975
1,3-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	8890975
1,4-Dichlorobenzene	ug/L	<0.50	<0.50	0.50	8890975
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	8890975
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	8890975
1,2-Dichloroethane	ug/L	<0.50	<0.50	0.50	8890975
1,1-Dichloroethylene	ug/L	1.2	1.2	0.20	8890975
cis-1,2-Dichloroethylene	ug/L	630	590	1.0	8890975
trans-1,2-Dichloroethylene	ug/L	4.7	4.6	0.50	8890975
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	8890975
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	8890975
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	8890975
Ethylbenzene	ug/L	<0.20	<0.20	0.20	8890975
Ethylene Dibromide	ug/L	<0.20	<0.20	0.20	8890975
Hexane	ug/L	<1.0	<1.0	1.0	8890975
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	8890975
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	8890975
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	8890975
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	8890975
Styrene	ug/L	<0.50	<0.50	0.50	8890975
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	8890975
1,1,2,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	8890975
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C3Q4727
Report Date: 2023/09/06

Englobe Corp.
Client Project #: 02203035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		WVM780	WVM783		
Sampling Date		2023/08/28 16:50	2023/08/28 13:00		
COC Number		N/A	N/A		
	UNITS	MW23-1	MW23-11	RDL	QC Batch
Tetrachloroethylene	ug/L	13	12	0.20	8890975
Toluene	ug/L	0.25	0.27	0.20	8890975
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	8890975
1,1,2-Trichloroethane	ug/L	<0.50	<0.50	0.50	8890975
Trichloroethylene	ug/L	110	110	0.20	8890975
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	8890975
Vinyl Chloride	ug/L	100	100	0.20	8890975
p+m-Xylene	ug/L	<0.20	<0.20	0.20	8890975
o-Xylene	ug/L	<0.20	<0.20	0.20	8890975
Total Xylenes	ug/L	<0.20	<0.20	0.20	8890975
F1 (C6-C10)	ug/L	54 (1)	61 (1)	25	8890975
F1 (C6-C10) - BTEX	ug/L	54	61	25	8890975
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	8894217
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	8894217
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	8894217
Reached Baseline at C50	ug/L	Yes	Yes		8894217
Surrogate Recovery (%)					
o-Terphenyl	%	103	103		8894217
4-Bromofluorobenzene	%	99	98		8890975
D4-1,2-Dichloroethane	%	96	96		8890975
D8-Toluene	%	98	98		8890975
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Result reported was mainly due to chlorinated compounds eluting inside the F1 range.					



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Bureau Veritas Job #: C3Q4727
Report Date: 2023/09/06

Englobe Corp.
Client Project #: 02203035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

TEST SUMMARY

Bureau Veritas ID: WVM780
Sample ID: MW23-1
Matrix: Water

Collected: 2023/08/28
Shipped:
Received: 2023/08/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8885751	N/A	2023/09/03	Automated Statchk
1,3-Dichloropropene Sum	CALC	8885752	N/A	2023/09/05	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8894217	2023/09/02	2023/09/05	Anna Stuglik-Rolland
Dissolved Metals by ICPMS	ICP/MS	8891614	N/A	2023/09/05	Arefa Dabhad
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8894215	2023/09/02	2023/09/02	Jayoda Perera
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8890975	N/A	2023/09/01	Jett Wu

Bureau Veritas ID: WVM781
Sample ID: MW23-2
Matrix: Water

Collected: 2023/08/28
Shipped:
Received: 2023/08/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8892291	N/A	2023/09/01	Georgeta Rusu

Bureau Veritas ID: WVM781 Dup
Sample ID: MW23-2
Matrix: Water

Collected: 2023/08/28
Shipped:
Received: 2023/08/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8892291	N/A	2023/09/01	Georgeta Rusu

Bureau Veritas ID: WVM782
Sample ID: MW23-3
Matrix: Water

Collected: 2023/08/28
Shipped:
Received: 2023/08/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8892291	N/A	2023/09/01	Georgeta Rusu

Bureau Veritas ID: WVM783
Sample ID: MW23-11
Matrix: Water

Collected: 2023/08/28
Shipped:
Received: 2023/08/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8885751	N/A	2023/09/03	Automated Statchk
1,3-Dichloropropene Sum	CALC	8885752	N/A	2023/09/05	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8894217	2023/09/02	2023/09/05	Anna Stuglik-Rolland
Dissolved Metals by ICPMS	ICP/MS	8891614	N/A	2023/09/05	Arefa Dabhad
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8894215	2023/09/02	2023/09/02	Jayoda Perera
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8890975	N/A	2023/09/01	Jett Wu

Bureau Veritas ID: WVM784
Sample ID: MW23-20
Matrix: Water

Collected: 2023/08/28
Shipped:
Received: 2023/08/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8892291	N/A	2023/09/01	Georgeta Rusu



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Bureau Veritas Job #: C3Q4727
Report Date: 2023/09/06

Englobe Corp.
Client Project #: 02203035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

TEST SUMMARY

Bureau Veritas ID: WVM785
Sample ID: T.BLANK
Matrix: Water

Collected: 2023/08/28
Shipped:
Received: 2023/08/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8892291	N/A	2023/09/01	Georgeta Rusu

Bureau Veritas ID: WVM786
Sample ID: F.BLANK
Matrix: Water

Collected: 2023/08/28
Shipped:
Received: 2023/08/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Water	HSGC/MSFD	8892291	N/A	2023/09/01	Georgeta Rusu



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	1.3°C
Package 2	2.3°C

Sample WVM780 [MW23-1] : VOC/F1 Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly. In order to achieve lower reporting limits, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Sample WVM783 [MW23-11] : VOC/F1 Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly. In order to achieve lower reporting limits, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

Englobe Corp.
Client Project #: 02203035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8890975	4-Bromofluorobenzene	2023/09/01	100	70 - 130	101	70 - 130	101	%		
8890975	D4-1,2-Dichloroethane	2023/09/01	92	70 - 130	102	70 - 130	103	%		
8890975	D8-Toluene	2023/09/01	102	70 - 130	99	70 - 130	96	%		
8892291	1,4-Difluorobenzene	2023/09/01	96	70 - 130	98	70 - 130	106	%		
8892291	4-Bromofluorobenzene	2023/09/01	87	70 - 130	90	70 - 130	106	%		
8892291	D10-o-Xylene	2023/09/01	97	70 - 130	93	70 - 130	92	%		
8892291	D4-1,2-Dichloroethane	2023/09/01	105	70 - 130	107	70 - 130	108	%		
8894215	D10-Anthracene	2023/09/02	99	50 - 130	95	50 - 130	96	%		
8894215	D14-Terphenyl (FS)	2023/09/02	104	50 - 130	102	50 - 130	102	%		
8894215	D8-Acenaphthylene	2023/09/02	90	50 - 130	86	50 - 130	84	%		
8894217	o-Terphenyl	2023/09/05	102	60 - 130	104	60 - 130	102	%		
8890975	1,1,1,2-Tetrachloroethane	2023/09/01	91	70 - 130	94	70 - 130	<0.50	ug/L		
8890975	1,1,1-Trichloroethane	2023/09/01	89	70 - 130	89	70 - 130	<0.20	ug/L		
8890975	1,1,2,2-Tetrachloroethane	2023/09/01	85	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
8890975	1,1,2-Trichloroethane	2023/09/01	84	70 - 130	94	70 - 130	<0.50	ug/L		
8890975	1,1-Dichloroethane	2023/09/01	89	70 - 130	91	70 - 130	<0.20	ug/L		
8890975	1,1-Dichloroethylene	2023/09/01	88	70 - 130	87	70 - 130	<0.20	ug/L		
8890975	1,2-Dichlorobenzene	2023/09/01	93	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
8890975	1,2-Dichloroethane	2023/09/01	84	70 - 130	94	70 - 130	<0.50	ug/L		
8890975	1,2-Dichloropropane	2023/09/01	87	70 - 130	95	70 - 130	<0.20	ug/L		
8890975	1,3-Dichlorobenzene	2023/09/01	95	70 - 130	93	70 - 130	<0.50	ug/L		
8890975	1,4-Dichlorobenzene	2023/09/01	95	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
8890975	Acetone (2-Propanone)	2023/09/01	82	60 - 140	96	60 - 140	<10	ug/L		
8890975	Benzene	2023/09/01	90	70 - 130	93	70 - 130	<0.17	ug/L	NC	30
8890975	Bromodichloromethane	2023/09/01	86	70 - 130	93	70 - 130	<0.50	ug/L		
8890975	Bromoform	2023/09/01	87	70 - 130	99	70 - 130	<1.0	ug/L		
8890975	Bromomethane	2023/09/01	84	60 - 140	85	60 - 140	<0.50	ug/L		
8890975	Carbon Tetrachloride	2023/09/01	89	70 - 130	88	70 - 130	<0.20	ug/L		
8890975	Chlorobenzene	2023/09/01	93	70 - 130	95	70 - 130	<0.20	ug/L		
8890975	Chloroform	2023/09/01	88	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
8890975	cis-1,2-Dichloroethylene	2023/09/01	90	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
8890975	cis-1,3-Dichloropropene	2023/09/01	88	70 - 130	98	70 - 130	<0.30	ug/L		



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Bureau Veritas Job #: C3Q4727
Report Date: 2023/09/06

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02203035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8890975	Dibromochloromethane	2023/09/01	89	70 - 130	97	70 - 130	<0.50	ug/L		
8890975	Dichlorodifluoromethane (FREON 12)	2023/09/01	76	60 - 140	75	60 - 140	<1.0	ug/L		
8890975	Ethylbenzene	2023/09/01	93	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
8890975	Ethylene Dibromide	2023/09/01	89	70 - 130	102	70 - 130	<0.20	ug/L		
8890975	F1 (C6-C10) - BTEX	2023/09/01					<25	ug/L	NC	30
8890975	F1 (C6-C10)	2023/09/01	97	60 - 140	87	60 - 140	<25	ug/L	NC	30
8890975	Hexane	2023/09/01	92	70 - 130	89	70 - 130	<1.0	ug/L		
8890975	Methyl Ethyl Ketone (2-Butanone)	2023/09/01	84	60 - 140	106	60 - 140	<10	ug/L		
8890975	Methyl Isobutyl Ketone	2023/09/01	79	70 - 130	106	70 - 130	<5.0	ug/L		
8890975	Methyl t-butyl ether (MTBE)	2023/09/01	86	70 - 130	97	70 - 130	<0.50	ug/L		
8890975	Methylene Chloride(Dichloromethane)	2023/09/01	86	70 - 130	91	70 - 130	<2.0	ug/L	NC	30
8890975	o-Xylene	2023/09/01	92	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
8890975	p+m-Xylene	2023/09/01	92	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
8890975	Styrene	2023/09/01	93	70 - 130	97	70 - 130	<0.50	ug/L		
8890975	Tetrachloroethylene	2023/09/01	94	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
8890975	Toluene	2023/09/01	90	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
8890975	Total Xylenes	2023/09/01					<0.20	ug/L	NC	30
8890975	trans-1,2-Dichloroethylene	2023/09/01	92	70 - 130	91	70 - 130	<0.50	ug/L		
8890975	trans-1,3-Dichloropropene	2023/09/01	88	70 - 130	97	70 - 130	<0.40	ug/L	NC	30
8890975	Trichloroethylene	2023/09/01	92	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
8890975	Trichlorofluoromethane (FREON 11)	2023/09/01	83	70 - 130	81	70 - 130	<0.50	ug/L		
8890975	Vinyl Chloride	2023/09/01	82	70 - 130	81	70 - 130	<0.20	ug/L		
8891614	Dissolved Antimony (Sb)	2023/09/05	108	80 - 120	105	80 - 120	<0.50	ug/L		
8891614	Dissolved Arsenic (As)	2023/09/05	101	80 - 120	101	80 - 120	<1.0	ug/L		
8891614	Dissolved Barium (Ba)	2023/09/05	100	80 - 120	100	80 - 120	<2.0	ug/L		
8891614	Dissolved Beryllium (Be)	2023/09/05	98	80 - 120	97	80 - 120	<0.40	ug/L		
8891614	Dissolved Boron (B)	2023/09/05	96	80 - 120	97	80 - 120	<10	ug/L		
8891614	Dissolved Cadmium (Cd)	2023/09/05	101	80 - 120	99	80 - 120	<0.090	ug/L		
8891614	Dissolved Chromium (Cr)	2023/09/05	96	80 - 120	97	80 - 120	<5.0	ug/L		
8891614	Dissolved Cobalt (Co)	2023/09/05	98	80 - 120	99	80 - 120	<0.50	ug/L		
8891614	Dissolved Copper (Cu)	2023/09/05	95	80 - 120	93	80 - 120	<0.90	ug/L		
8891614	Dissolved Lead (Pb)	2023/09/05	99	80 - 120	99	80 - 120	<0.50	ug/L	NC	20



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Bureau Veritas Job #: C3Q4727
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QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02203035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8891614	Dissolved Molybdenum (Mo)	2023/09/05	102	80 - 120	99	80 - 120	<0.50	ug/L		
8891614	Dissolved Nickel (Ni)	2023/09/05	95	80 - 120	100	80 - 120	<1.0	ug/L		
8891614	Dissolved Selenium (Se)	2023/09/05	102	80 - 120	100	80 - 120	<2.0	ug/L		
8891614	Dissolved Silver (Ag)	2023/09/05	98	80 - 120	98	80 - 120	<0.090	ug/L		
8891614	Dissolved Sodium (Na)	2023/09/05	NC	80 - 120	99	80 - 120	<100	ug/L		
8891614	Dissolved Thallium (Tl)	2023/09/05	103	80 - 120	104	80 - 120	<0.050	ug/L		
8891614	Dissolved Uranium (U)	2023/09/05	102	80 - 120	100	80 - 120	<0.10	ug/L		
8891614	Dissolved Vanadium (V)	2023/09/05	96	80 - 120	97	80 - 120	<0.50	ug/L		
8891614	Dissolved Zinc (Zn)	2023/09/05	96	80 - 120	101	80 - 120	<5.0	ug/L		
8892291	Benzene	2023/09/01	91	50 - 140	88	50 - 140	<0.20	ug/L	8.3	30
8892291	Ethylbenzene	2023/09/01	100	50 - 140	99	50 - 140	<0.20	ug/L	NC	30
8892291	F1 (C6-C10) - BTEX	2023/09/01					<25	ug/L	2.7	30
8892291	F1 (C6-C10)	2023/09/01	99	60 - 140	93	60 - 140	<25	ug/L	2.7	30
8892291	o-Xylene	2023/09/01	99	50 - 140	98	50 - 140	<0.20	ug/L	NC	30
8892291	p+m-Xylene	2023/09/01	94	50 - 140	93	50 - 140	<0.40	ug/L	NC	30
8892291	Toluene	2023/09/01	89	50 - 140	88	50 - 140	<0.20	ug/L	NC	30
8892291	Total Xylenes	2023/09/01					<0.40	ug/L	NC	30
8894215	1-Methylnaphthalene	2023/09/02	102	50 - 130	97	50 - 130	<0.050	ug/L		
8894215	2-Methylnaphthalene	2023/09/02	91	50 - 130	85	50 - 130	<0.050	ug/L		
8894215	Acenaphthene	2023/09/02	102	50 - 130	97	50 - 130	<0.050	ug/L		
8894215	Acenaphthylene	2023/09/02	98	50 - 130	95	50 - 130	<0.050	ug/L		
8894215	Anthracene	2023/09/02	109	50 - 130	106	50 - 130	<0.050	ug/L		
8894215	Benzo(a)anthracene	2023/09/02	117	50 - 130	114	50 - 130	<0.050	ug/L		
8894215	Benzo(a)pyrene	2023/09/02	110	50 - 130	109	50 - 130	<0.0090	ug/L	NC	30
8894215	Benzo(b)fluoranthene	2023/09/02	104	50 - 130	105	50 - 130	<0.050	ug/L		
8894215	Benzo(g,h,i)perylene	2023/09/02	116	50 - 130	115	50 - 130	<0.050	ug/L	NC	30
8894215	Benzo(k)fluoranthene	2023/09/02	112	50 - 130	112	50 - 130	<0.050	ug/L	NC	30
8894215	Chrysene	2023/09/02	111	50 - 130	110	50 - 130	<0.050	ug/L		
8894215	Dibenzo(a,h)anthracene	2023/09/02	115	50 - 130	112	50 - 130	<0.050	ug/L		
8894215	Fluoranthene	2023/09/02	119	50 - 130	117	50 - 130	<0.050	ug/L		
8894215	Fluorene	2023/09/02	109	50 - 130	106	50 - 130	<0.050	ug/L		
8894215	Indeno(1,2,3-cd)pyrene	2023/09/02	110	50 - 130	109	50 - 130	<0.050	ug/L		



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Bureau Veritas Job #: C3Q4727
Report Date: 2023/09/06

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02203035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8894215	Naphthalene	2023/09/02	82	50 - 130	80	50 - 130	<0.050	ug/L	38 (1)	30
8894215	Phenanthrene	2023/09/02	106	50 - 130	104	50 - 130	<0.030	ug/L	47 (1)	30
8894215	Pyrene	2023/09/02	118	50 - 130	117	50 - 130	<0.050	ug/L		
8894217	F2 (C10-C16 Hydrocarbons)	2023/09/05	107	60 - 130	106	60 - 130	<100	ug/L	28	30
8894217	F3 (C16-C34 Hydrocarbons)	2023/09/05	106	60 - 130	106	60 - 130	<200	ug/L	NC	30
8894217	F4 (C34-C50 Hydrocarbons)	2023/09/05	105	60 - 130	104	60 - 130	<200	ug/L	NC	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



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Bureau Veritas Job #: C3Q4727
Report Date: 2023/09/06

Englobe Corp.
Client Project #: 02203035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by {0}, {1} responsible for {2} {3} laboratory operations.



Your Project #: 02103035.000
 Site Location: 424 Churchill Ave North
 Your C.O.C. #: 953656-01-01

Attention: Colette Ogilvie

Englobe Corp.
 Ottawa - Standing Offer
 2713 Lancaster Road
 Unit 101
 Ottawa, ON
 CANADA K1B 5R6

Report Date: 2023/09/18
 Report #: R7819659
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3S1843

Received: 2023/09/13, 15:59

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS (1)	1	2023/09/15	2023/09/15	CAM SOP-00301	EPA 8270 m
Sewer Use By-Law Semivolatile Organics (1)	1	2023/09/16	2023/09/18	CAM SOP 00301	EPA 8270 m
Total Cyanide (1)	1	2023/09/15	2023/09/15	CAM SOP-00457	OMOE E3015 5 m
Fluoride (1)	1	2023/09/14	2023/09/15	CAM SOP-00449	SM 23 4500-F C m
Mercury in Water by CVAA (1)	1	2023/09/15	2023/09/18	CAM SOP-00453	EPA 7470A m
Total Metals Analysis by ICPMS (1)	1	2023/09/18	2023/09/18	CAM SOP-00447	EPA 6020B m
E.coli, (CFU/100mL) (1)	1	N/A	2023/09/14	CAM SOP-00552	MECP E3371
Animal and Vegetable Oil and Grease (1)	1	N/A	2023/09/18	CAM SOP-00326	EPA1664B m,SM5520B m
Total Oil and Grease (1)	1	2023/09/17	2023/09/17	CAM SOP-00326	EPA1664B m,SM5520B m
OC Pesticides (Selected) & PCB (1, 2)	1	2023/09/15	2023/09/17	CAM SOP-00307	EPA 8081B/ 8082A
OC Pesticides Summed Parameters (1)	1	N/A	2023/09/15	CAM SOP-00307	EPA 8081B/ 8082A
pH (1)	1	2023/09/14	2023/09/15	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP) (1)	1	N/A	2023/09/15	CAM SOP-00444	OMOE E3179 m
Sulphate by Automated Turbidimetry (1)	1	N/A	2023/09/15	CAM SOP-00464	SM 23 4500-SO42- E m
Sulphide (1)	1	N/A	2023/09/15	CAM SOP-00455	SM 23 4500-S G m
Total Kjeldahl Nitrogen in Water (1)	1	2023/09/14	2023/09/18	CAM SOP-00938	OMOE E3516 m
Total PAHs (Hamilton, Ottawa S.U.B.) (1, 3)	1	N/A	2023/09/18	CAM SOP - 00301	
Mineral/Synthetic O & G (TPH Heavy Oil) (1, 4)	1	2023/09/17	2023/09/17	CAM SOP-00326	EPA1664B m,SM5520F m
Total Suspended Solids (1)	1	2023/09/15	2023/09/18	CAM SOP-00428	SM 23 2540D m
Volatile Organic Compounds in Water (1)	1	N/A	2023/09/15	CAM SOP-00228	EPA 8260D
Non-Routine Volatile Organic Compounds (1)	1	N/A	2023/09/15	CAM SOP-00226	EPA 8260D m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.



Your Project #: 02103035.000
Site Location: 424 Churchill Ave North
Your C.O.C. #: 953656-01-01

Attention: Colette Ogilvie

Englobe Corp.
Ottawa - Standing Offer
2713 Lancaster Road
Unit 101
Ottawa, ON
CANADA K1B 5R6

Report Date: 2023/09/18
Report #: R7819659
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3S1843

Received: 2023/09/13, 15:59

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8

(2) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

(3) Total PAHs include only those PAHs specified in the sewer use by-by-law.

(4) Note: TPH (Heavy Oil) is equivalent to Mineral / Synthetic Oil & Grease

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:

Katherine Szozda, Project Manager

Email: Katherine.Szozda@bureauveritas.com

Phone# (613)274-0573 Ext:7063633

=====
This report has been generated and distributed using a secure automated process.

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843
Report Date: 2023/09/18

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

OTTAWA SAN&STORM SEWER BYLAW (2003-514)

Bureau Veritas ID		WZE422			WZE422		
Sampling Date		2023/09/13 13:00			2023/09/13 13:00		
COC Number		953656-01-01			953656-01-01		
	UNITS	MW23-2	RDL	QC Batch	MW23-2 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Total Animal/Vegetable Oil and Grease	mg/L	<0.50	0.50	8916468			
Inorganics							
Total Kjeldahl Nitrogen (TKN)	mg/L	0.15	0.10	8915997			
pH	pH	7.78		8918550			
Phenols-4AAP	mg/L	<0.0010	0.0010	8919650	<0.0010	0.0010	8919650
Total Suspended Solids	mg/L	<10	10	8919511	<10	10	8919511
Petroleum Hydrocarbons							
Total Oil & Grease	mg/L	<0.50	0.50	8922558			
Total Oil & Grease Mineral/Synthetic	mg/L	<0.50	0.50	8922560			
Metals							
Mercury (Hg)	mg/L	<0.00010	0.00010	8919601			
Total Aluminum (Al)	ug/L	16	4.9	8922919			
Total Antimony (Sb)	ug/L	<0.50	0.50	8922919			
Total Arsenic (As)	ug/L	<1.0	1.0	8922919			
Total Bismuth (Bi)	ug/L	<1.0	1.0	8922919			
Total Boron (B)	ug/L	200	10	8922919			
Total Cadmium (Cd)	ug/L	<0.090	0.090	8922919			
Total Chromium (Cr)	ug/L	<5.0	5.0	8922919			
Total Cobalt (Co)	ug/L	1.2	0.50	8922919			
Total Copper (Cu)	ug/L	3.4	0.90	8922919			
Total Lead (Pb)	ug/L	<0.50	0.50	8922919			
Total Manganese (Mn)	ug/L	18	2.0	8922919			
Total Molybdenum (Mo)	ug/L	1.7	0.50	8922919			
Total Nickel (Ni)	ug/L	3.0	1.0	8922919			
Total Phosphorus (P)	ug/L	<100	100	8922919			
Total Selenium (Se)	ug/L	<2.0	2.0	8922919			
Total Silver (Ag)	ug/L	<0.090	0.090	8922919			
Total Tin (Sn)	ug/L	<1.0	1.0	8922919			
Total Titanium (Ti)	ug/L	<5.0	5.0	8922919			
Total Vanadium (V)	ug/L	<0.50	0.50	8922919			
Total Zinc (Zn)	ug/L	6.5	5.0	8922919			
Semivolatile Organics							
1-Methylnaphthalene	ug/L	<0.3	0.3	8921699			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843
Report Date: 2023/09/18

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

OTTAWA SAN&STORM SEWER BYLAW (2003-514)

Bureau Veritas ID		WZE422			WZE422		
Sampling Date		2023/09/13 13:00			2023/09/13 13:00		
COC Number		953656-01-01			953656-01-01		
	UNITS	MW23-2	RDL	QC Batch	MW23-2 Lab-Dup	RDL	QC Batch
2-Methylnaphthalene	ug/L	<0.3	0.3	8921699			
Fluorene	ug/L	<0.3	0.3	8921699			
Naphthalene	ug/L	<0.3	0.3	8921699			
Di-N-butyl phthalate	ug/L	<2	2	8921699			
Bis(2-ethylhexyl)phthalate	ug/L	<2	2	8921699			
Phenanthrene	ug/L	<0.2	0.2	8921699			
Anthracene	ug/L	<0.2	0.2	8921699			
Fluoranthene	ug/L	<0.2	0.2	8921699			
Pyrene	ug/L	<0.2	0.2	8921699			
Benzo(a)anthracene	ug/L	<0.2	0.2	8921699			
Chrysene	ug/L	<0.2	0.2	8921699			
Benzo(b/j)fluoranthene	ug/L	<0.2	0.2	8921699			
Benzo(k)fluoranthene	ug/L	<0.2	0.2	8921699			
Benzo(a)pyrene	ug/L	<0.2	0.2	8921699			
Indeno(1,2,3-cd)pyrene	ug/L	<0.2	0.2	8921699			
Dibenzo(a,h)anthracene	ug/L	<0.2	0.2	8921699			
Benzo(g,h,i)perylene	ug/L	<0.2	0.2	8921699			
Dibenzo(a,i)pyrene	ug/L	<0.2	0.2	8921699			
Benzo(e)pyrene	ug/L	<0.2	0.2	8921699			
Perylene	ug/L	<0.2	0.2	8921699			
Dibenzo(a,j) acridine	ug/L	<0.4	0.4	8921699			
7H-Dibenzo(c,g) Carbazole	ug/L	<0.4	0.4	8921699			
2,4-Dichlorophenol	ug/L	<0.30	0.30	8918819			
Benzyl butyl phthalate	ug/L	<0.50	0.50	8918819			
Bis(2-chloroethoxy)methane	ug/L	<0.50	0.50	8918819			
di-n-octyl phthalate	ug/L	<0.80	0.80	8918819			
Diethyl phthalate	ug/L	<1.0	1.0	8918819			
Indole	ug/L	<1.0	1.0	8918819			
Calculated Parameters							
Total PAHs (18 PAHs)	ug/L	<0.96	0.96	8916470			
Volatile Organics							
Benzene	ug/L	<0.20	0.20	8916724			
Bromodichloromethane	ug/L	<0.50	0.50	8916724			
Bromoform	ug/L	<1.0	1.0	8916724			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843
Report Date: 2023/09/18

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

OTTAWA SAN&STORM SEWER BYLAW (2003-514)

Bureau Veritas ID		WZE422			WZE422		
Sampling Date		2023/09/13 13:00			2023/09/13 13:00		
COC Number		953656-01-01			953656-01-01		
	UNITS	MW23-2	RDL	QC Batch	MW23-2 Lab-Dup	RDL	QC Batch
Bromomethane	ug/L	<0.50	0.50	8916724			
Carbon Tetrachloride	ug/L	<0.19	0.19	8916724			
Chlorobenzene	ug/L	<0.20	0.20	8916724			
Chloroethane	ug/L	<1.0	1.0	8916724			
Chloroform	ug/L	0.82	0.20	8916724			
Chloromethane	ug/L	<5.0	5.0	8916724			
Dibromochloromethane	ug/L	<0.50	0.50	8916724			
1,2-Dichlorobenzene	ug/L	<0.40	0.40	8916724			
1,3-Dichlorobenzene	ug/L	<0.40	0.40	8916724			
1,4-Dichlorobenzene	ug/L	<0.40	0.40	8916724			
1,1-Dichloroethane	ug/L	<0.20	0.20	8916724			
1,2-Dichloroethane	ug/L	<0.49	0.49	8916724			
1,1-Dichloroethylene	ug/L	<0.20	0.20	8916724			
cis-1,2-Dichloroethylene	ug/L	16	0.50	8916724			
trans-1,2-Dichloroethylene	ug/L	1.7	0.50	8916724			
1,2-Dichloropropane	ug/L	<0.20	0.20	8916724			
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	8916724			
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	8916724			
Ethylbenzene	ug/L	<0.20	0.20	8916724			
Ethylene Dibromide	ug/L	<0.19	0.19	8916724			
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	8916724			
Styrene	ug/L	<0.40	0.40	8916724			
1,1,1,2-Tetrachloroethane	ug/L	<0.40	0.40	8916724			
Tetrachloroethylene	ug/L	720	0.40	8916724			
1,3,5-Trimethylbenzene	ug/L	<0.20	0.20	8911263			
Toluene	ug/L	<0.20	0.20	8916724			
1,1,1-Trichloroethane	ug/L	<0.20	0.20	8916724			
1,1,2-Trichloroethane	ug/L	<0.40	0.40	8916724			
Trichloroethylene	ug/L	44	0.20	8916724			
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	8916724			
Vinyl Chloride	ug/L	0.96	0.20	8916724			
p+m-Xylene	ug/L	<0.20	0.20	8916724			
o-Xylene	ug/L	<0.20	0.20	8916724			
Total Xylenes	ug/L	<0.20	0.20	8916724			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843
Report Date: 2023/09/18

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

OTTAWA SAN&STORM SEWER BYLAW (2003-514)

Bureau Veritas ID		WZE422			WZE422		
Sampling Date		2023/09/13 13:00			2023/09/13 13:00		
COC Number		953656-01-01			953656-01-01		
	UNITS	MW23-2	RDL	QC Batch	MW23-2 Lab-Dup	RDL	QC Batch
Calculated Parameters							
Total PCB	ug/L	<0.05	0.05	8916469			
Pesticides & Herbicides							
Hexachlorobenzene	ug/L	<0.005	0.005	8918788			
Microbiological							
Escherichia coli	CFU/100mL	<10	10	8917776			
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	71		8918819			
2-Fluorobiphenyl	%	85		8918819			
2-Fluorophenol	%	37		8918819			
D14-Terphenyl	%	89		8918819			
D5-Nitrobenzene	%	94		8918819			
D5-Phenol	%	27		8918819			
2,4,6-Tribromophenol	%	57		8921699			
2-Fluorobiphenyl	%	79		8921699			
D14-Terphenyl (FS)	%	101		8921699			
D5-Nitrobenzene	%	99		8921699			
D8-Acenaphthylene	%	75		8921699			
2,4,5,6-Tetrachloro-m-xylene	%	66		8918788			
Decachlorobiphenyl	%	72		8918788			
4-Bromofluorobenzene	%	96		8916724			
D4-1,2-Dichloroethane	%	109		8916724			
D8-Toluene	%	94		8916724			
4-Bromofluorobenzene	%	114		8911263			
D4-1,2-Dichloroethane	%	87		8911263			
D8-Toluene	%	111		8911263			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843
Report Date: 2023/09/18

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		WZE422			WZE422		
Sampling Date		2023/09/13 13:00			2023/09/13 13:00		
COC Number		953656-01-01			953656-01-01		
	UNITS	MW23-2	RDL	QC Batch	MW23-2 Lab-Dup	RDL	QC Batch
Inorganics							
Fluoride (F-)	mg/L	0.30	0.10	8918551			
Dissolved Sulphate (SO4)	mg/L	130	1.0	8918530			
Sulphide	mg/L	<0.020	0.020	8919642	<0.020	0.020	8919642
Total Cyanide (CN)	mg/L	<0.0050	0.0050	8918822			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843
Report Date: 2023/09/18

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

TEST SUMMARY

Bureau Veritas ID: WZE422
Sample ID: MW23-2
Matrix: Water

Collected: 2023/09/13
Shipped:
Received: 2023/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	8918819	2023/09/15	2023/09/15	Kathy Horvat
Sewer Use By-Law Semivolatile Organics	GC/MS	8921699	2023/09/16	2023/09/18	Kathy Horvat
Total Cyanide	SKAL/CN	8918822	2023/09/15	2023/09/15	Prgya Panchal
Fluoride	ISE	8918551	2023/09/14	2023/09/15	Nachiketa Gohil
Mercury in Water by CVAA	CV/AA	8919601	2023/09/15	2023/09/18	Thuy Linh Nguyen
Total Metals Analysis by ICPMS	ICP/MS	8922919	2023/09/18	2023/09/18	Arefa Dabhad
E.coli, (CFU/100mL)	PL	8917776	N/A	2023/09/14	Soham Patel
Animal and Vegetable Oil and Grease	BAL	8916468	N/A	2023/09/18	Automated Statchk
Total Oil and Grease	BAL	8922558	2023/09/17	2023/09/17	Navneet Singh
OC Pesticides (Selected) & PCB	GC/ECD	8918788	2023/09/15	2023/09/17	Li Peng
OC Pesticides Summed Parameters	CALC	8916469	N/A	2023/09/15	Automated Statchk
pH	AT	8918550	2023/09/14	2023/09/15	Nachiketa Gohil
Phenols (4AAP)	TECH/PHEN	8919650	N/A	2023/09/15	Chloe Pollock
Sulphate by Automated Turbidimetry	KONE	8918530	N/A	2023/09/15	Massarat Jan
Sulphide	ISE/S	8919642	N/A	2023/09/15	Taslina Aktar
Total Kjeldahl Nitrogen in Water	SKAL	8915997	2023/09/14	2023/09/18	Rajni Tyagi
Total PAHs (Hamilton, Ottawa S.U.B.)	CALC	8916470	N/A	2023/09/18	Automated Statchk
Mineral/Synthetic O & G (TPH Heavy Oil)	BAL	8922560	2023/09/17	2023/09/17	Navneet Singh
Total Suspended Solids	BAL	8919511	2023/09/15	2023/09/18	Razieh Tabesh
Volatile Organic Compounds in Water	GC/MS	8916724	N/A	2023/09/15	Narayan Ghimire
Non-Routine Volatile Organic Compounds	P&T/MS	8911263	N/A	2023/09/15	Zi Wang

Bureau Veritas ID: WZE422 Dup
Sample ID: MW23-2
Matrix: Water

Collected: 2023/09/13
Shipped:
Received: 2023/09/13

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	8919650	N/A	2023/09/15	Chloe Pollock
Sulphide	ISE/S	8919642	N/A	2023/09/15	Taslina Aktar
Total Suspended Solids	BAL	8919511	2023/09/15	2023/09/18	Razieh Tabesh



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843
Report Date: 2023/09/18

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.3°C
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Sample WZE422 [MW23-2] : VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly. In order to meet required regulatory criteria or to achieve lower reporting limits, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS		Value (%)	QC Limits
8911263	4-Bromofluorobenzene	2023/09/15	114	70 - 130	118	70 - 130	108	%			
8911263	D4-1,2-Dichloroethane	2023/09/15	81	70 - 130	87	70 - 130	86	%			
8911263	D8-Toluene	2023/09/15	108	70 - 130	104	70 - 130	108	%			
8916724	4-Bromofluorobenzene	2023/09/15	99	70 - 130	98	70 - 130	98	%			
8916724	D4-1,2-Dichloroethane	2023/09/15	109	70 - 130	106	70 - 130	103	%			
8916724	D8-Toluene	2023/09/15	97	70 - 130	97	70 - 130	99	%			
8918788	2,4,5,6-Tetrachloro-m-xylene	2023/09/17	72	50 - 130	71	50 - 130	74	%			
8918788	Decachlorobiphenyl	2023/09/17	122	50 - 130	105	50 - 130	112	%			
8918819	2,4,6-Tribromophenol	2023/09/15	89	10 - 130	91	10 - 130	68	%			
8918819	2-Fluorobiphenyl	2023/09/15	80	30 - 130	77	30 - 130	78	%			
8918819	2-Fluorophenol	2023/09/15	46	10 - 130	48	10 - 130	40	%			
8918819	D14-Terphenyl	2023/09/15	95	30 - 130	93	30 - 130	89	%			
8918819	D5-Nitrobenzene	2023/09/15	91	30 - 130	93	30 - 130	87	%			
8918819	D5-Phenol	2023/09/15	30	10 - 130	32	10 - 130	27	%			
8921699	2,4,6-Tribromophenol	2023/09/18	88	10 - 130	82	10 - 130	55	%			
8921699	2-Fluorobiphenyl	2023/09/18	72	30 - 130	71	30 - 130	83	%			
8921699	D14-Terphenyl (F5)	2023/09/18	103	30 - 130	100	30 - 130	100	%			
8921699	D5-Nitrobenzene	2023/09/18	98	30 - 130	98	30 - 130	98	%			
8921699	D8-Acenaphthylene	2023/09/18	76	30 - 130	76	30 - 130	77	%			
8911263	1,3,5-Trimethylbenzene	2023/09/15	114	60 - 140	108	60 - 140	<0.20	ug/L	NC	30	
8915997	Total Klaldahl Nitrogen (TKN)	2023/09/18	NC	80 - 120	98	80 - 120	<0.10	mg/L	20	20	96
8916724	1,1,1-Trichloroethane	2023/09/15	94	70 - 130	95	70 - 130	<0.20	ug/L	NC	30	
8916724	1,1,2,2-Tetrachloroethane	2023/09/15	103	70 - 130	93	70 - 130	<0.40	ug/L	NC	30	
8916724	1,1,2-Trichloroethane	2023/09/15	98	70 - 130	90	70 - 130	<0.40	ug/L	NC	30	
8916724	1,1-Dichloroethane	2023/09/15	98	70 - 130	98	70 - 130	<0.20	ug/L	NC	30	
8916724	1,1-Dichloroethylene	2023/09/15	96	70 - 130	97	70 - 130	<0.20	ug/L	5.0	30	
8916724	1,2-Dichlorobenzene	2023/09/15	92	70 - 130	87	70 - 130	<0.40	ug/L	NC	30	
8916724	1,2-Dichloroethane	2023/09/15	95	70 - 130	92	70 - 130	<0.49	ug/L	4.8	30	
8916724	1,2-Dichloropropane	2023/09/15	97	70 - 130	94	70 - 130	<0.20	ug/L	NC	30	
8916724	1,3-Dichlorobenzene	2023/09/15	92	70 - 130	90	70 - 130	<0.40	ug/L	NC	30	
8916724	1,4-Dichlorobenzene	2023/09/15	104	70 - 130	98	70 - 130	<0.40	ug/L	NC	30	
8916724	Benzene	2023/09/15	87	70 - 130	87	70 - 130	<0.20	ug/L	NC	30	



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843
Report Date: 2023/09/18

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8916724	Bromodichloromethane	2023/09/15	103	70 - 130	101	70 - 130	<0.50	ug/L	NC	NC	30	
8916724	Bromoform	2023/09/15	89	70 - 130	80	70 - 130	<1.0	ug/L	NC	NC	30	
8916724	Bromomethane	2023/09/15	95	60 - 140	94	60 - 140	<0.50	ug/L	NC	NC	30	
8916724	Carbon Tetrachloride	2023/09/15	91	70 - 130	91	70 - 130	<0.19	ug/L	NC	NC	30	
8916724	Chlorobenzene	2023/09/15	98	70 - 130	93	70 - 130	<0.20	ug/L	NC	NC	30	
8916724	Chloroethane	2023/09/15	94	70 - 130	94	70 - 130	<1.0	ug/L				
8916724	Chloroform	2023/09/15	101	70 - 130	100	70 - 130	<0.20	ug/L	NC	NC	30	
8916724	Chloromethane	2023/09/15	96	60 - 140	91	60 - 140	<5.0	ug/L				
8916724	cis-1,2-Dichloroethylene	2023/09/15	93	70 - 130	92	70 - 130	<0.50	ug/L	NC	NC	30	
8916724	cis-1,3-Dichloropropene	2023/09/15	101	70 - 130	99	70 - 130	<0.30	ug/L	NC	NC	30	
8916724	Dibromochloromethane	2023/09/15	94	70 - 130	87	70 - 130	<0.50	ug/L	NC	NC	30	
8916724	Ethylbenzene	2023/09/15	89	70 - 130	85	70 - 130	<0.20	ug/L	NC	NC	30	
8916724	Ethylene Dibromide	2023/09/15	96	70 - 130	89	70 - 130	<0.19	ug/L	NC	NC	30	
8916724	Methylene Chloride(Dichloromethane)	2023/09/15	95	70 - 130	93	70 - 130	<2.0	ug/L	NC	NC	30	
8916724	o-Xylene	2023/09/15	83	70 - 130	80	70 - 130	<0.20	ug/L	NC	NC	30	
8916724	p+m-Xylene	2023/09/15	96	70 - 130	93	70 - 130	<0.20	ug/L	NC	NC	30	
8916724	Styrene	2023/09/15	98	70 - 130	93	70 - 130	<0.40	ug/L	NC	NC	30	
8916724	Tetrachloroethylene	2023/09/15	88	70 - 130	85	70 - 130	<0.20	ug/L	NC	NC	30	
8916724	Toluene	2023/09/15	88	70 - 130	86	70 - 130	<0.20	ug/L	3.0	NC	30	
8916724	Total Xylenes	2023/09/15					<0.20	ug/L	NC	NC	30	
8916724	trans-1,2-Dichloroethylene	2023/09/15	90	70 - 130	91	70 - 130	<0.50	ug/L	NC	NC	30	
8916724	trans-1,3-Dichloropropene	2023/09/15	96	70 - 130	102	70 - 130	<0.40	ug/L	NC	NC	30	
8916724	Trichloroethylene	2023/09/15	91	70 - 130	91	70 - 130	<0.20	ug/L	NC	NC	30	
8916724	Trichlorofluoromethane (FREON 11)	2023/09/15	95	70 - 130	95	70 - 130	<0.50	ug/L	NC	NC	30	
8916724	Vinyl Chloride	2023/09/15	NC	70 - 130	93	70 - 130	<0.20	ug/L	1.3	NC	30	
8918530	Dissolved Sulphate (SO4)	2023/09/15	NC	75 - 125	101	80 - 120	<1.0	mg/L	0.63	20		
8918550	pH	2023/09/15			103	98 - 103			0.35	N/A		
8918551	Fluoride (F-)	2023/09/15	101	80 - 120	103	80 - 120	<0.10	mg/L	NC	NC	20	
8918788	Hexachlorobenzene	2023/09/17	70	50 - 130	78	50 - 130	<0.005	ug/L	2.8	30		
8918819	2,4-Dichlorophenol	2023/09/15	85	10 - 130	86	10 - 130	<0.30	ug/L	2.1	40		
8918819	Benzyl butyl phthalate	2023/09/15	84	30 - 130	84	30 - 130	<0.50	ug/L	1.6	40		
8918819	Bis(2-chloroethoxy)methane	2023/09/15	75	30 - 130	76	30 - 130	<0.50	ug/L	1.6	40		



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8918819	Diethyl phthalate	2023/09/15	81	30 - 130	83	30 - 130	<1.0	ug/L	2.5		40	
8918819	di-n-octyl phthalate	2023/09/15	84	30 - 130	78	30 - 130	<0.80	ug/L	1.3		40	
8918819	Indole	2023/09/15	35	30 - 130	45	30 - 130	<1.0	ug/L	3.5		40	
8918822	Total Cyanide (CN)	2023/09/15	107	80 - 120	103	80 - 120	<0.0050	mg/L	NC		20	
8919511	Total Suspended Solids	2023/09/18			101	85 - 115	<10	mg/L	NC		20	
8919601	Mercury (Hg)	2023/09/18	98	75 - 125	98	80 - 120	<0.00010	mg/L	NC		20	
8919642	Sulphide	2023/09/15	87	80 - 120	87	80 - 120	<0.020	mg/L	NC		20	
8919650	Phenols-4AAP	2023/09/15	104	80 - 120	103	80 - 120	<0.0010	mg/L	NC		20	
8921699	1-Methylnaphthalene	2023/09/18	70	30 - 130	77	30 - 130	<0.3	ug/L				
8921699	2-Methylnaphthalene	2023/09/18	61	30 - 130	68	30 - 130	<0.3	ug/L				
8921699	7H-Dibenzol(c,g) Carbazole	2023/09/18	86	30 - 130	80	30 - 130	<0.4	ug/L	NC		40	
8921699	Anthracene	2023/09/18	86	30 - 130	86	30 - 130	<0.2	ug/L	NC		40	
8921699	Benzol(a)anthracene	2023/09/18	102	30 - 130	102	30 - 130	<0.2	ug/L	NC		40	
8921699	Benzol(a)pyrene	2023/09/18	107	30 - 130	107	30 - 130	<0.2	ug/L	NC		40	
8921699	Benzol(b,j)fluoranthene	2023/09/18	105	30 - 130	103	30 - 130	<0.2	ug/L	NC		40	
8921699	Benzol(e)pyrene	2023/09/18	103	30 - 130	104	30 - 130	<0.2	ug/L	NC		40	
8921699	Benzol(g,h,i)perylene	2023/09/18	105	30 - 130	106	30 - 130	<0.2	ug/L	NC		40	
8921699	Benzol(k)fluoranthene	2023/09/18	101	30 - 130	98	30 - 130	<0.2	ug/L	NC		40	
8921699	Bis(2-ethylhexyl)phthalate	2023/09/18	119	30 - 130	115	30 - 130	<2	ug/L	NC		40	
8921699	Chrysene	2023/09/18	98	30 - 130	99	30 - 130	<0.2	ug/L	NC		40	
8921699	Dibenzol(a,h)anthracene	2023/09/18	93	30 - 130	95	30 - 130	<0.2	ug/L	NC		40	
8921699	Dibenzol(a,i)pyrene	2023/09/18	45	30 - 130	58	30 - 130	<0.2	ug/L	NC		40	
8921699	Dibenzol(a,j) acridine	2023/09/18	89	30 - 130	90	30 - 130	<0.4	ug/L	NC		40	
8921699	Di-N-butyl phthalate	2023/09/18	97	30 - 130	93	30 - 130	<2	ug/L	NC		40	
8921699	Fluoranthene	2023/09/18	101	30 - 130	98	30 - 130	<0.2	ug/L	NC		40	
8921699	Fluorene	2023/09/18	88	30 - 130	90	30 - 130	<0.3	ug/L				
8921699	Indeno(1,2,3-cd)pyrene	2023/09/18	108	30 - 130	115	30 - 130	<0.2	ug/L	NC		40	
8921699	Naphthalene	2023/09/18	64	30 - 130	69	30 - 130	<0.3	ug/L	NC		40	
8921699	Perylene	2023/09/18	99	30 - 130	99	30 - 130	<0.2	ug/L	NC		40	
8921699	Phenanthrene	2023/09/18	86	30 - 130	87	30 - 130	<0.2	ug/L	NC		40	
8921699	Pyrene	2023/09/18	102	30 - 130	100	30 - 130	<0.2	ug/L	NC		40	
8922558	Total Oil & Grease	2023/09/17			99	85 - 115	<0.50	mg/L	0.51		25	



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
8922560	Total Oil & Grease Mineral/Synthetic	2023/09/17			97	85 - 115	<0.50	mg/L	0.52	25		
8922919	Total Aluminum (Al)	2023/09/18	97	80 - 120	105	80 - 120	<4.9	ug/L	NC	20		
8922919	Total Antimony (Sb)	2023/09/18	106	80 - 120	104	80 - 120	<0.50	ug/L	NC	20		
8922919	Total Arsenic (As)	2023/09/18	102	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
8922919	Total Bismuth (Bi)	2023/09/18	98	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
8922919	Total Boron (B)	2023/09/18	97	80 - 120	97	80 - 120	<10	ug/L	NC	20		
8922919	Total Cadmium (Cd)	2023/09/18	100	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
8922919	Total Chromium (Cr)	2023/09/18	99	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
8922919	Total Cobalt (Co)	2023/09/18	98	80 - 120	93	80 - 120	<0.50	ug/L	NC	20		
8922919	Total Copper (Cu)	2023/09/18	105	80 - 120	100	80 - 120	<0.90	ug/L	NC	20		
8922919	Total Lead (Pb)	2023/09/18	102	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
8922919	Total Manganese (Mn)	2023/09/18	100	80 - 120	98	80 - 120	<2.0	ug/L	2.2	20		
8922919	Total Molybdenum (Mo)	2023/09/18	110	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
8922919	Total Nickel (Ni)	2023/09/18	97	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
8922919	Total Phosphorus (P)	2023/09/18	99	80 - 120	94	80 - 120	<100	ug/L				
8922919	Total Selenium (Se)	2023/09/18	102	80 - 120	104	80 - 120	<2.0	ug/L	NC	20		
8922919	Total Silver (Ag)	2023/09/18	103	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
8922919	Total Tin (Sn)	2023/09/18	104	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
8922919	Total Titanium (Ti)	2023/09/18	101	80 - 120	101	80 - 120	<5.0	ug/L	NC	20		
8922919	Total Vanadium (V)	2023/09/18	96	80 - 120	93	80 - 120	<0.50	ug/L	NC	20		
8922919	Total Zinc (Zn)	2023/09/18	101	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU
VERITAS

Bureau Veritas Job #: C3S1843
Report Date: 2023/09/18

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Ave North
Sampler Initials: JB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Soham Patel, Senior Analyst

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Your Project #: 02103035.000
 Site Location: 424 Churchill Avenue North, Ottawa
 Your C.O.C. #: 947903-01-01

Attention: Colette Robitaille

Englobe Corp.
 Ottawa - Standing Offer
 2713 Lancaster Road
 Unit 101
 Ottawa, ON
 CANADA K1B 5R6

Report Date: 2024/02/27
 Report #: R8043629
 Version: 7 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C305376

Received: 2023/08/14, 16:49

Sample Matrix: Ground Water
 # Samples Received: 5

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Methylnaphthalene Sum	2	N/A	2023/08/28	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	2	N/A	2023/08/17		EPA 8260C m
1,3-Dichloropropene Sum	1	N/A	2023/08/21		EPA 8260C m
1,3-Dichloropropene Sum	1	N/A	2023/08/28		EPA 8260C m
Total Chloramines in Water	2	N/A	2023/08/15		
Free Residual Chlorine	2	2023/08/15	2023/08/15	CAM SOP 00425	SM 23 4500-CL G m
Total Residual Chlorine	2	2023/08/15	2023/08/15	CAM SOP 00425	SM 23 4500-CL G m
Petroleum Hydrocarbons F2-F4 in Water (1)	2	2023/08/24	2023/08/26	CAM SOP-00316	CCME PHC-CWS m
Dissolved Metals by ICPMS	2	N/A	2023/08/26	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	1	2023/08/24	2023/08/25	CAM SOP-00318	EPA 8270E
PAH Compounds in Water by GC/MS (SIM)	1	2023/08/24	2023/08/26	CAM SOP-00318	EPA 8270E
Volatile Organic Compounds and F1 PHCs	1	N/A	2023/08/25	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds in Water	2	N/A	2023/08/16	CAM SOP-00228	EPA 8260D
Volatile Organic Compounds in Water	1	N/A	2023/08/19	CAM SOP-00228	EPA 8260D

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.



Your Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Your C.O.C. #: 947903-01-01

Attention: Colette Robitaille

Englobe Corp.
Ottawa - Standing Offer
2713 Lancaster Road
Unit 101
Ottawa, ON
CANADA K1B 5R6

Report Date: 2024/02/27
Report #: R8043629
Version: 7 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C305376

Received: 2023/08/14, 16:49

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Katherine Szozda, Project Manager
Email: Katherine.Szozda@bureauveritas.com
Phone# (613)274-0573 Ext:7063633

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



BUREAU
VERITAS

Bureau Veritas Job #: C3O5376
Report Date: 2024/02/27

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

RESULTS OF ANALYSES OF GROUND WATER

Bureau Veritas ID		WRL909			WRL909			WRL912		
Sampling Date		2023/08/14 11:00			2023/08/14 11:00			2023/08/14 15:00		
COC Number		947903-01-01			947903-01-01			947903-01-01		
	UNITS	MW23-3	RDL	QC Batch	MW23-3 Lab-Dup	RDL	QC Batch	MW23-11	RDL	QC Batch
CONVENTIONALS										
Total Chloramines	mg/L	<0.1	0.1	8852865				<0.1	0.1	8852865
Inorganics										
Free Chlorine	mg/L	<0.1	0.1	8854599				<0.1	0.1	8854599
Total Chlorine	mg/L	<0.1	0.1	8854534	<0.1	0.1	8854534	<0.1	0.1	8854534
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

Bureau Veritas Job #: C3O5376
Report Date: 2024/02/27

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

ELEMENTS BY ATOMIC SPECTROSCOPY (GROUND WATER)

Bureau Veritas ID		WRL909	WRL913		
Sampling Date		2023/08/14 11:00	2023/08/14 11:00		
COC Number		947903-01-01	947903-01-01		
	UNITS	MW23-3	MW23-4	RDL	QC Batch
Metals					
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	8872531
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	8872531
Dissolved Barium (Ba)	ug/L	65	76	2.0	8872531
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	8872531
Dissolved Boron (B)	ug/L	230	95	10	8872531
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	8872531
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	8872531
Dissolved Cobalt (Co)	ug/L	24	0.62	0.50	8872531
Dissolved Copper (Cu)	ug/L	1.4	4.7	0.90	8872531
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	8872531
Dissolved Molybdenum (Mo)	ug/L	6.9	1.9	0.50	8872531
Dissolved Nickel (Ni)	ug/L	6.8	2.2	1.0	8872531
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	8872531
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	8872531
Dissolved Sodium (Na)	ug/L	410000	490000	100	8872531
Dissolved Thallium (Tl)	ug/L	0.18	0.21	0.050	8872531
Dissolved Uranium (U)	ug/L	0.74	0.82	0.10	8872531
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	8872531
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	8872531
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C3O5376
Report Date: 2024/02/27

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

SEMI-VOLATILE ORGANICS BY GC-MS (GROUND WATER)

Bureau Veritas ID		WRL909	WRL913		
Sampling Date		2023/08/14 11:00	2023/08/14 11:00		
COC Number		947903-01-01	947903-01-01		
	UNITS	MW23-3	MW23-4	RDL	QC Batch
Calculated Parameters					
Methylnaphthalene, 2-(1-)	ug/L	<0.071	0.28	0.071	8870704
Polyaromatic Hydrocarbons					
Acenaphthene	ug/L	<0.050	<0.050	0.050	8874330
Acenaphthylene	ug/L	<0.050	<0.050	0.050	8874330
Anthracene	ug/L	<0.050	<0.050	0.050	8874330
Benzo(a)anthracene	ug/L	<0.050	<0.050	0.050	8874330
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	0.0090	8874330
Benzo(b,j)fluoranthene	ug/L	<0.050	<0.050	0.050	8874330
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	0.050	8874330
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	0.050	8874330
Chrysene	ug/L	<0.050	<0.050	0.050	8874330
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	0.050	8874330
Fluoranthene	ug/L	<0.050	<0.050	0.050	8874330
Fluorene	ug/L	<0.050	<0.050	0.050	8874330
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	0.050	8874330
1-Methylnaphthalene	ug/L	<0.050	0.12	0.050	8874330
2-Methylnaphthalene	ug/L	<0.050	0.16	0.050	8874330
Naphthalene	ug/L	<0.050	<0.050	0.050	8874330
Phenanthrene	ug/L	<0.030	0.044	0.030	8874330
Pyrene	ug/L	<0.050	<0.050	0.050	8874330
Surrogate Recovery (%)					
D10-Anthracene	%	111	112		8874330
D14-Terphenyl (FS)	%	98	111		8874330
D8-Acenaphthylene	%	89	96		8874330
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C305376
Report Date: 2024/02/27

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

VOLATILE ORGANICS BY GC/MS (GROUND WATER)

Bureau Veritas ID		WRL909			WRL913			WRL913		
Sampling Date		2023/08/14 11:00			2023/08/14 11:00			2023/08/14 11:00		
COC Number		947903-01-01			947903-01-01			947903-01-01		
	UNITS	MW23-3	RDL	QC Batch	MW23-4	RDL	QC Batch	MW23-4 Lab-Dup	RDL	QC Batch

Calculated Parameters										
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	8861371	<0.50	0.50	8870701			
Volatile Organics										
Acetone (2-Propanone)	ug/L	<10	10	8861208	<10	10	8874251	<10	10	8874251
Benzene	ug/L	<0.20	0.20	8861208	<0.17	0.17	8874251	<0.17	0.17	8874251
Bromodichloromethane	ug/L	<0.50	0.50	8861208	<0.50	0.50	8874251	<0.50	0.50	8874251
Bromoform	ug/L	<1.0	1.0	8861208	<1.0	1.0	8874251	<1.0	1.0	8874251
Bromomethane	ug/L	<0.50	0.50	8861208	<0.50	0.50	8874251	<0.50	0.50	8874251
Carbon Tetrachloride	ug/L	<0.19	0.19	8861208	<0.20	0.20	8874251	<0.20	0.20	8874251
Chlorobenzene	ug/L	<0.20	0.20	8861208	<0.20	0.20	8874251	<0.20	0.20	8874251
Chloroform	ug/L	0.45	0.20	8861208	<0.20	0.20	8874251	<0.20	0.20	8874251
Dibromochloromethane	ug/L	<0.50	0.50	8861208	<0.50	0.50	8874251	<0.50	0.50	8874251
1,2-Dichlorobenzene	ug/L	<0.40	0.40	8861208	<0.50	0.50	8874251	<0.50	0.50	8874251
1,3-Dichlorobenzene	ug/L	<0.40	0.40	8861208	<0.50	0.50	8874251	<0.50	0.50	8874251
1,4-Dichlorobenzene	ug/L	<0.40	0.40	8861208	<0.50	0.50	8874251	<0.50	0.50	8874251
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	8861208	<1.0	1.0	8874251	<1.0	1.0	8874251
1,1-Dichloroethane	ug/L	<0.20	0.20	8861208	<0.20	0.20	8874251	<0.20	0.20	8874251
1,2-Dichloroethane	ug/L	<0.49	0.49	8861208	<0.50	0.50	8874251	<0.50	0.50	8874251
1,1-Dichloroethylene	ug/L	2.0	0.20	8861208	<0.20	0.20	8874251	<0.20	0.20	8874251
cis-1,2-Dichloroethylene	ug/L	940	1.0	8861208	<0.50	0.50	8874251	<0.50	0.50	8874251
trans-1,2-Dichloroethylene	ug/L	14	0.50	8861208	<0.50	0.50	8874251	<0.50	0.50	8874251
1,2-Dichloropropane	ug/L	<0.20	0.20	8861208	<0.20	0.20	8874251	<0.20	0.20	8874251
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	8861208	<0.30	0.30	8874251	<0.30	0.30	8874251
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	8861208	<0.40	0.40	8874251	<0.40	0.40	8874251
Ethylbenzene	ug/L	<0.20	0.20	8861208	<0.20	0.20	8874251	<0.20	0.20	8874251
Ethylene Dibromide	ug/L	<0.19	0.19	8861208	<0.20	0.20	8874251	<0.20	0.20	8874251
Hexane	ug/L	<1.0	1.0	8861208	<1.0	1.0	8874251	<1.0	1.0	8874251
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	8861208	<2.0	2.0	8874251	<2.0	2.0	8874251
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	8861208	<10	10	8874251	<10	10	8874251
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	8861208	<5.0	5.0	8874251	<5.0	5.0	8874251
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	8861208	<0.50	0.50	8874251	<0.50	0.50	8874251

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C305376
Report Date: 2024/02/27

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

VOLATILE ORGANICS BY GC/MS (GROUND WATER)

Bureau Veritas ID		WRL909			WRL913			WRL913		
Sampling Date		2023/08/14 11:00			2023/08/14 11:00			2023/08/14 11:00		
COC Number		947903-01-01			947903-01-01			947903-01-01		
	UNITS	MW23-3	RDL	QC Batch	MW23-4	RDL	QC Batch	MW23-4 Lab-Dup	RDL	QC Batch
Styrene	ug/L	<0.40	0.40	8861208	<0.50	0.50	8874251	<0.50	0.50	8874251
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	8861208	<0.50	0.50	8874251	<0.50	0.50	8874251
1,1,2,2-Tetrachloroethane	ug/L	<0.40	0.40	8861208	<0.50	0.50	8874251	<0.50	0.50	8874251
Tetrachloroethylene	ug/L	9.6	0.20	8861208	8.4	0.20	8874251	8.4	0.20	8874251
Toluene	ug/L	<0.20	0.20	8861208	<0.20	0.20	8874251	<0.20	0.20	8874251
1,1,1-Trichloroethane	ug/L	<0.20	0.20	8861208	<0.20	0.20	8874251	<0.20	0.20	8874251
1,1,2-Trichloroethane	ug/L	<0.40	0.40	8861208	<0.50	0.50	8874251	<0.50	0.50	8874251
Trichloroethylene	ug/L	23	0.20	8861208	0.65	0.20	8874251	0.64	0.20	8874251
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	8861208	<0.50	0.50	8874251	<0.50	0.50	8874251
Vinyl Chloride	ug/L	88	0.20	8861208	<0.20	0.20	8874251	<0.20	0.20	8874251
p+m-Xylene	ug/L	<0.20	0.20	8861208	<0.20	0.20	8874251	<0.20	0.20	8874251
o-Xylene	ug/L	<0.20	0.20	8861208	<0.20	0.20	8874251	<0.20	0.20	8874251
Total Xylenes	ug/L	<0.20	0.20	8861208	<0.20	0.20	8874251	<0.20	0.20	8874251
Total Trihalomethanes	ug/L	<1.0	1.0	8861208						
F1 (C6-C10)	ug/L				<25	25	8874251	<25	25	8874251
F1 (C6-C10) - BTEX	ug/L				<25	25	8874251	<25	25	8874251
Surrogate Recovery (%)										
4-Bromofluorobenzene	%				97		8874251	97		8874251
D4-1,2-Dichloroethane	%				112		8874251	111		8874251
D8-Toluene	%				90		8874251	92		8874251
4-Bromofluorobenzene	%	110		8861208						
D4-1,2-Dichloroethane	%	106		8861208						
D8-Toluene	%	97		8861208						
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

Bureau Veritas Job #: C3O5376
Report Date: 2024/02/27

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

VOLATILE ORGANICS BY GC/MS (GROUND WATER)

Bureau Veritas ID		WRL914	WRL915		
Sampling Date		2023/08/14 11:00	2023/08/14 16:00		
COC Number		947903-01-01	947903-01-01		
	UNITS	F. BLANK	T. BLANK	RDL	QC Batch
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	<0.50	0.50	8852864
Volatile Organics					
Acetone (2-Propanone)	ug/L	<10	<10	10	8854281
Benzene	ug/L	<0.20	<0.20	0.20	8854281
Bromodichloromethane	ug/L	<0.50	<0.50	0.50	8854281
Bromoform	ug/L	<1.0	<1.0	1.0	8854281
Bromomethane	ug/L	<0.50	<0.50	0.50	8854281
Carbon Tetrachloride	ug/L	<0.19	<0.19	0.19	8854281
Chlorobenzene	ug/L	<0.20	<0.20	0.20	8854281
Chloroform	ug/L	<0.20	<0.20	0.20	8854281
Dibromochloromethane	ug/L	<0.50	<0.50	0.50	8854281
1,2-Dichlorobenzene	ug/L	<0.40	<0.40	0.40	8854281
1,3-Dichlorobenzene	ug/L	<0.40	<0.40	0.40	8854281
1,4-Dichlorobenzene	ug/L	<0.40	<0.40	0.40	8854281
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	<1.0	1.0	8854281
1,1-Dichloroethane	ug/L	<0.20	<0.20	0.20	8854281
1,2-Dichloroethane	ug/L	<0.49	<0.49	0.49	8854281
1,1-Dichloroethylene	ug/L	<0.20	<0.20	0.20	8854281
cis-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	8854281
trans-1,2-Dichloroethylene	ug/L	<0.50	<0.50	0.50	8854281
1,2-Dichloropropane	ug/L	<0.20	<0.20	0.20	8854281
cis-1,3-Dichloropropene	ug/L	<0.30	<0.30	0.30	8854281
trans-1,3-Dichloropropene	ug/L	<0.40	<0.40	0.40	8854281
Ethylbenzene	ug/L	<0.20	<0.20	0.20	8854281
Ethylene Dibromide	ug/L	<0.19	<0.19	0.19	8854281
Hexane	ug/L	<1.0	<1.0	1.0	8854281
Methylene Chloride(Dichloromethane)	ug/L	<2.0	<2.0	2.0	8854281
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	<10	10	8854281
Methyl Isobutyl Ketone	ug/L	<5.0	<5.0	5.0	8854281
Methyl t-butyl ether (MTBE)	ug/L	<0.50	<0.50	0.50	8854281
Styrene	ug/L	<0.40	<0.40	0.40	8854281
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C3O5376
Report Date: 2024/02/27

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

VOLATILE ORGANICS BY GC/MS (GROUND WATER)

Bureau Veritas ID		WRL914	WRL915		
Sampling Date		2023/08/14 11:00	2023/08/14 16:00		
COC Number		947903-01-01	947903-01-01		
	UNITS	F. BLANK	T. BLANK	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/L	<0.50	<0.50	0.50	8854281
1,1,2,2-Tetrachloroethane	ug/L	<0.40	<0.40	0.40	8854281
Tetrachloroethylene	ug/L	<0.20	<0.20	0.20	8854281
Toluene	ug/L	<0.20	<0.20	0.20	8854281
1,1,1-Trichloroethane	ug/L	<0.20	<0.20	0.20	8854281
1,1,2-Trichloroethane	ug/L	<0.40	<0.40	0.40	8854281
Trichloroethylene	ug/L	<0.20	<0.20	0.20	8854281
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	<0.50	0.50	8854281
Vinyl Chloride	ug/L	<0.20	<0.20	0.20	8854281
p+m-Xylene	ug/L	<0.20	<0.20	0.20	8854281
o-Xylene	ug/L	<0.20	<0.20	0.20	8854281
Total Xylenes	ug/L	<0.20	<0.20	0.20	8854281
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	97	97		8854281
D4-1,2-Dichloroethane	%	97	98		8854281
D8-Toluene	%	100	100		8854281
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C3O5376
Report Date: 2024/02/27

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID		WRL909	WRL913		
Sampling Date		2023/08/14 11:00	2023/08/14 11:00		
COC Number		947903-01-01	947903-01-01		
	UNITS	MW23-3	MW23-4	RDL	QC Batch
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	8874333
F3 (C16-C34 Hydrocarbons)	ug/L	<200	<200	200	8874333
F4 (C34-C50 Hydrocarbons)	ug/L	<200	<200	200	8874333
Reached Baseline at C50	ug/L	Yes	Yes		8874333
Surrogate Recovery (%)					
o-Terphenyl	%	99	98		8874333
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C3O5376
Report Date: 2024/02/27

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

TEST SUMMARY

Bureau Veritas ID: WRL909
Sample ID: MW23-3
Matrix: Ground Water

Collected: 2023/08/14
Shipped:
Received: 2023/08/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8870704	N/A	2023/08/28	Automated Statchk
1,3-Dichloropropene Sum	CALC	8861371	N/A	2023/08/21	Automated Statchk
Total Chloramines in Water		8852865	N/A	2023/08/15	Automated Statchk
Free Residual Chlorine	SPEC	8854599	2023/08/15	2023/08/15	Leily Karimi
Total Residual Chlorine	SPEC	8854534	2023/08/15	2023/08/15	Leily Karimi
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8874333	2023/08/24	2023/08/26	Dennis Ngondou
Dissolved Metals by ICPMS	ICP/MS	8872531	N/A	2023/08/26	Azita Fazaeli
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8874330	2023/08/24	2023/08/25	Jonghan Yoon
Volatile Organic Compounds in Water	GC/MS	8861208	N/A	2023/08/19	Narayan Ghimire

Bureau Veritas ID: WRL909 Dup
Sample ID: MW23-3
Matrix: Ground Water

Collected: 2023/08/14
Shipped:
Received: 2023/08/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Residual Chlorine	SPEC	8854534	2023/08/15	2023/08/15	Leily Karimi

Bureau Veritas ID: WRL912
Sample ID: MW23-11
Matrix: Ground Water

Collected: 2023/08/14
Shipped:
Received: 2023/08/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Chloramines in Water		8852865	N/A	2023/08/15	Automated Statchk
Free Residual Chlorine	SPEC	8854599	2023/08/15	2023/08/15	Leily Karimi
Total Residual Chlorine	SPEC	8854534	2023/08/15	2023/08/15	Leily Karimi

Bureau Veritas ID: WRL913
Sample ID: MW23-4
Matrix: Ground Water

Collected: 2023/08/14
Shipped:
Received: 2023/08/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	8870704	N/A	2023/08/28	Automated Statchk
1,3-Dichloropropene Sum	CALC	8870701	N/A	2023/08/28	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	8874333	2023/08/24	2023/08/26	Dennis Ngondou
Dissolved Metals by ICPMS	ICP/MS	8872531	N/A	2023/08/26	Azita Fazaeli
PAH Compounds in Water by GC/MS (SIM)	GC/MS	8874330	2023/08/24	2023/08/26	Jonghan Yoon
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8874251	N/A	2023/08/25	Juan Pangilinan

Bureau Veritas ID: WRL913 Dup
Sample ID: MW23-4
Matrix: Ground Water

Collected: 2023/08/14
Shipped:
Received: 2023/08/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	8874251	N/A	2023/08/25	Juan Pangilinan



BUREAU
VERITAS

Bureau Veritas Job #: C3O5376
Report Date: 2024/02/27

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

TEST SUMMARY

Bureau Veritas ID: WRL914
Sample ID: F. BLANK
Matrix: Ground Water

Collected: 2023/08/14
Shipped:
Received: 2023/08/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8852864	N/A	2023/08/17	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	8854281	N/A	2023/08/16	Skylar Canning

Bureau Veritas ID: WRL915
Sample ID: T. BLANK
Matrix: Ground Water

Collected: 2023/08/14
Shipped:
Received: 2023/08/14

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	8852864	N/A	2023/08/17	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	8854281	N/A	2023/08/16	Skylar Canning



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	16.0°C
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- Revised Report [2024/02/27]: Split report requested without MW23-2.
- Revised Report [2023/10/02]: Split report requested without MW23-1
- Revised Report [2023/08/30]: Additional analysis added as per client request.
- Revised Report [2023/08/21]: VOC analysis added to samples MW23-2 and MW23-3 per client request

Sample WRL909 [MW23-3] : Sample# WRL909, Job# C3O5376

VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly. In order to meet required regulatory criteria or to achieve lower reporting limits, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Results relate only to the items tested.



Bureau Veritas Job #: C305376
Report Date: 2024/02/27

QUALITY ASSURANCE REPORT

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8854281	4-Bromofluorobenzene	2023/08/16	98	70 - 130	98	70 - 130	97	%		
8854281	D4-1,2-Dichloroethane	2023/08/16	97	70 - 130	96	70 - 130	97	%		
8854281	D8-Toluene	2023/08/16	101	70 - 130	102	70 - 130	100	%		
8861208	4-Bromofluorobenzene	2023/08/18	108	70 - 130	109	70 - 130	110	%		
8861208	D4-1,2-Dichloroethane	2023/08/18	102	70 - 130	103	70 - 130	98	%		
8861208	D8-Toluene	2023/08/18	97	70 - 130	97	70 - 130	97	%		
8874251	4-Bromofluorobenzene	2023/08/25	99	70 - 130	101	70 - 130	97	%		
8874251	D4-1,2-Dichloroethane	2023/08/25	116	70 - 130	111	70 - 130	104	%		
8874251	D8-Toluene	2023/08/25	103	70 - 130	103	70 - 130	92	%		
8874330	D10-Anthracene	2023/08/25	103	50 - 130	114	50 - 130	115	%		
8874330	D14-Terphenyl (FS)	2023/08/25	107	50 - 130	113	50 - 130	117	%		
8874330	D8-Acenaphthylene	2023/08/25	89	50 - 130	94	50 - 130	92	%		
8874333	o-Terphenyl	2023/08/26	102	60 - 130	99	60 - 130	98	%		
8854281	1,1,1,2-Tetrachloroethane	2023/08/16	112	70 - 130	111	70 - 130	<0.50	ug/L	NC	30
8854281	1,1,1-Trichloroethane	2023/08/16	103	70 - 130	101	70 - 130	<0.20	ug/L	0	30
8854281	1,1,2,2-Tetrachloroethane	2023/08/16	105	70 - 130	102	70 - 130	<0.40	ug/L	NC	30
8854281	1,1,2-Trichloroethane	2023/08/16	99	70 - 130	97	70 - 130	<0.40	ug/L	NC	30
8854281	1,1-Dichloroethane	2023/08/16	99	70 - 130	98	70 - 130	<0.20	ug/L	0.23	30
8854281	1,1-Dichloroethylene	2023/08/16	99	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
8854281	1,2-Dichlorobenzene	2023/08/16	99	70 - 130	98	70 - 130	<0.40	ug/L	NC	30
8854281	1,2-Dichloroethane	2023/08/16	96	70 - 130	94	70 - 130	<0.49	ug/L	NC	30
8854281	1,2-Dichloropropane	2023/08/16	99	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
8854281	1,3-Dichlorobenzene	2023/08/16	102	70 - 130	102	70 - 130	<0.40	ug/L	NC	30
8854281	1,4-Dichlorobenzene	2023/08/16	105	70 - 130	104	70 - 130	<0.40	ug/L	NC	30
8854281	Acetone (2-Propanone)	2023/08/16	96	60 - 140	95	60 - 140	<10	ug/L	0	30
8854281	Benzene	2023/08/16	NC	70 - 130	97	70 - 130	<0.20	ug/L	1.0	30
8854281	Bromodichloromethane	2023/08/16	111	70 - 130	108	70 - 130	<0.50	ug/L	NC	30
8854281	Bromoform	2023/08/16	128	70 - 130	125	70 - 130	<1.0	ug/L	NC	30
8854281	Bromomethane	2023/08/16	109	60 - 140	105	60 - 140	<0.50	ug/L	NC	30
8854281	Carbon Tetrachloride	2023/08/16	112	70 - 130	112	70 - 130	<0.19	ug/L	NC	30
8854281	Chlorobenzene	2023/08/16	101	70 - 130	101	70 - 130	<0.20	ug/L	NC	30



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8854281	Chloroform	2023/08/16	100	70 - 130	98	70 - 130	<0.20	ug/L	0.68	30
8854281	cis-1,2-Dichloroethylene	2023/08/16	99	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
8854281	cis-1,3-Dichloropropene	2023/08/16	107	70 - 130	101	70 - 130	<0.30	ug/L	NC	30
8854281	Dibromochloromethane	2023/08/16	123	70 - 130	121	70 - 130	<0.50	ug/L	NC	30
8854281	Dichlorodifluoromethane (FREON 12)	2023/08/16	101	60 - 140	100	60 - 140	<1.0	ug/L	NC	30
8854281	Ethylbenzene	2023/08/16	100	70 - 130	99	70 - 130	<0.20	ug/L	1.1	30
8854281	Ethylene Dibromide	2023/08/16	102	70 - 130	99	70 - 130	<0.19	ug/L	NC	30
8854281	Hexane	2023/08/16	101	70 - 130	100	70 - 130	<1.0	ug/L	0.51	30
8854281	Methyl Ethyl Ketone (2-Butanone)	2023/08/16	100	60 - 140	99	60 - 140	<1.0	ug/L	NC	30
8854281	Methyl Isobutyl Ketone	2023/08/16	95	70 - 130	93	70 - 130	<5.0	ug/L	NC	30
8854281	Methyl t-butyl ether (MTBE)	2023/08/16	95	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
8854281	Methylene Chloride(Dichloromethane)	2023/08/16	94	70 - 130	92	70 - 130	<2.0	ug/L	NC	30
8854281	o-Xylene	2023/08/16	100	70 - 130	98	70 - 130	<0.20	ug/L	1.1	30
8854281	p+m-Xylene	2023/08/16	NC	70 - 130	98	70 - 130	<0.20	ug/L	1.0	30
8854281	Styrene	2023/08/16	103	70 - 130	101	70 - 130	<0.40	ug/L	NC	30
8854281	Tetrachloroethylene	2023/08/16	97	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
8854281	Toluene	2023/08/16	NC	70 - 130	99	70 - 130	<0.20	ug/L	0.60	30
8854281	Total Xylenes	2023/08/16					<0.20	ug/L	1.1	30
8854281	trans-1,2-Dichloroethylene	2023/08/16	99	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
8854281	trans-1,3-Dichloropropene	2023/08/16	115	70 - 130	105	70 - 130	<0.40	ug/L	NC	30
8854281	Trichloroethylene	2023/08/16	99	70 - 130	98	70 - 130	<0.20	ug/L	0.78	30
8854281	Trichlorofluoromethane (FREON 11)	2023/08/16	102	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
8854281	Vinyl Chloride	2023/08/16	105	70 - 130	104	70 - 130	<0.20	ug/L	NC	30
8854534	Total Chlorine	2023/08/15	86	85 - 115	105	85 - 115	<0.1	mg/L	NC	25
8854599	Free Chlorine	2023/08/15	45 (1)	85 - 115	96	85 - 115	<0.1	mg/L	NC	25
8861208	1,1,1,2-Tetrachloroethane	2023/08/18	97	70 - 130	96	70 - 130	<0.50	ug/L		
8861208	1,1,1-Trichloroethane	2023/08/18	104	70 - 130	106	70 - 130	<0.20	ug/L		
8861208	1,1,2,2-Tetrachloroethane	2023/08/18	98	70 - 130	92	70 - 130	<0.40	ug/L	NC	30
8861208	1,1,2-Trichloroethane	2023/08/18	101	70 - 130	100	70 - 130	<0.40	ug/L		
8861208	1,1-Dichloroethane	2023/08/18	101	70 - 130	102	70 - 130	<0.20	ug/L		
8861208	1,1-Dichloroethylene	2023/08/18	101	70 - 130	104	70 - 130	<0.20	ug/L		



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
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QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8861208	1,2-Dichlorobenzene	2023/08/18	95	70 - 130	89	70 - 130	<0.40	ug/L	NC	30
8861208	1,2-Dichloroethane	2023/08/18	104	70 - 130	104	70 - 130	<0.49	ug/L		
8861208	1,2-Dichloropropane	2023/08/18	100	70 - 130	98	70 - 130	<0.20	ug/L		
8861208	1,3-Dichlorobenzene	2023/08/18	97	70 - 130	91	70 - 130	<0.40	ug/L		
8861208	1,4-Dichlorobenzene	2023/08/18	93	70 - 130	88	70 - 130	<0.40	ug/L	NC	30
8861208	Acetone (2-Propanone)	2023/08/18	105	60 - 140	105	60 - 140	<10	ug/L		
8861208	Benzene	2023/08/18	101	70 - 130	101	70 - 130	<0.20	ug/L	NC	30
8861208	Bromodichloromethane	2023/08/18	104	70 - 130	103	70 - 130	<0.50	ug/L		
8861208	Bromoform	2023/08/18	96	70 - 130	91	70 - 130	<1.0	ug/L		
8861208	Bromomethane	2023/08/18	103	60 - 140	105	60 - 140	<0.50	ug/L		
8861208	Carbon Tetrachloride	2023/08/18	104	70 - 130	106	70 - 130	<0.19	ug/L		
8861208	Chlorobenzene	2023/08/18	98	70 - 130	96	70 - 130	<0.20	ug/L		
8861208	Chloroform	2023/08/18	105	70 - 130	106	70 - 130	<0.20	ug/L	NC	30
8861208	cis-1,2-Dichloroethylene	2023/08/18	104	70 - 130	104	70 - 130	<0.50	ug/L	NC	30
8861208	cis-1,3-Dichloropropene	2023/08/18	95	70 - 130	97	70 - 130	<0.30	ug/L		
8861208	Dibromochloromethane	2023/08/18	95	70 - 130	93	70 - 130	<0.50	ug/L		
8861208	Dichlorodifluoromethane (FREON 12)	2023/08/18	102	60 - 140	102	60 - 140	<1.0	ug/L		
8861208	Ethylbenzene	2023/08/18	94	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
8861208	Ethylene Dibromide	2023/08/18	99	70 - 130	96	70 - 130	<0.19	ug/L		
8861208	Hexane	2023/08/18	103	70 - 130	102	70 - 130	<1.0	ug/L		
8861208	Methyl Ethyl Ketone (2-Butanone)	2023/08/18	110	60 - 140	110	60 - 140	<10	ug/L		
8861208	Methyl Isobutyl Ketone	2023/08/18	102	70 - 130	100	70 - 130	<5.0	ug/L		
8861208	Methyl t-butyl ether (MTBE)	2023/08/18	100	70 - 130	101	70 - 130	<0.50	ug/L		
8861208	Methylene Chloride(Dichloromethane)	2023/08/18	96	70 - 130	95	70 - 130	<2.0	ug/L	NC	30
8861208	o-Xylene	2023/08/18	95	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
8861208	p+m-Xylene	2023/08/18	96	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
8861208	Styrene	2023/08/18	96	70 - 130	95	70 - 130	<0.40	ug/L		
8861208	Tetrachloroethylene	2023/08/18	95	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
8861208	Toluene	2023/08/18	92	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
8861208	Total Trihalomethanes	2023/08/18					<1.0	ug/L		
8861208	Total Xylenes	2023/08/18					<0.20	ug/L	NC	30



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
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Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8861208	trans-1,2-Dichloroethylene	2023/08/18	103	70 - 130	104	70 - 130	<0.50	ug/L		
8861208	trans-1,3-Dichloropropene	2023/08/18	83	70 - 130	85	70 - 130	<0.40	ug/L	NC	30
8861208	Trichloroethylene	2023/08/18	103	70 - 130	104	70 - 130	<0.20	ug/L	NC	30
8861208	Trichlorofluoromethane (FREON 11)	2023/08/18	110	70 - 130	112	70 - 130	<0.50	ug/L		
8861208	Vinyl Chloride	2023/08/18	100	70 - 130	101	70 - 130	<0.20	ug/L		
8872531	Dissolved Antimony (Sb)	2023/08/25	114	80 - 120	100	80 - 120	<0.50	ug/L		
8872531	Dissolved Arsenic (As)	2023/08/25	107	80 - 120	97	80 - 120	<1.0	ug/L	3.8	20
8872531	Dissolved Barium (Ba)	2023/08/25	107	80 - 120	98	80 - 120	<2.0	ug/L	3.9	20
8872531	Dissolved Beryllium (Be)	2023/08/25	107	80 - 120	97	80 - 120	<0.40	ug/L		
8872531	Dissolved Boron (B)	2023/08/25	NC	80 - 120	96	80 - 120	<10	ug/L	0.17	20
8872531	Dissolved Cadmium (Cd)	2023/08/25	108	80 - 120	96	80 - 120	<0.090	ug/L	NC	20
8872531	Dissolved Chromium (Cr)	2023/08/25	104	80 - 120	94	80 - 120	<5.0	ug/L	NC	20
8872531	Dissolved Cobalt (Co)	2023/08/25	104	80 - 120	94	80 - 120	<0.50	ug/L		
8872531	Dissolved Copper (Cu)	2023/08/25	107	80 - 120	97	80 - 120	<0.90	ug/L	NC	20
8872531	Dissolved Lead (Pb)	2023/08/25	102	80 - 120	92	80 - 120	<0.50	ug/L	NC	20
8872531	Dissolved Molybdenum (Mo)	2023/08/25	114	80 - 120	101	80 - 120	<0.50	ug/L		
8872531	Dissolved Nickel (Ni)	2023/08/25	103	80 - 120	95	80 - 120	<1.0	ug/L		
8872531	Dissolved Selenium (Se)	2023/08/25	105	80 - 120	97	80 - 120	<2.0	ug/L		
8872531	Dissolved Silver (Ag)	2023/08/25	51 (1)	80 - 120	98	80 - 120	<0.090	ug/L		
8872531	Dissolved Sodium (Na)	2023/08/25	NC	80 - 120	95	80 - 120	<100	ug/L	1.6	20
8872531	Dissolved Thallium (Tl)	2023/08/25	103	80 - 120	94	80 - 120	<0.050	ug/L		
8872531	Dissolved Uranium (U)	2023/08/25	105	80 - 120	103	80 - 120	<0.10	ug/L		
8872531	Dissolved Vanadium (V)	2023/08/25	108	80 - 120	96	80 - 120	<0.50	ug/L		
8872531	Dissolved Zinc (Zn)	2023/08/25	104	80 - 120	94	80 - 120	<5.0	ug/L	NC	20
8874251	1,1,1,2-Tetrachloroethane	2023/08/25	96	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
8874251	1,1,1-Trichloroethane	2023/08/25	95	70 - 130	104	70 - 130	<0.20	ug/L	NC	30
8874251	1,1,2,2-Tetrachloroethane	2023/08/25	99	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
8874251	1,1,2-Trichloroethane	2023/08/25	105	70 - 130	105	70 - 130	<0.50	ug/L	NC	30
8874251	1,1-Dichloroethane	2023/08/25	100	70 - 130	104	70 - 130	<0.20	ug/L	NC	30
8874251	1,1-Dichloroethylene	2023/08/25	96	70 - 130	103	70 - 130	<0.20	ug/L	NC	30
8874251	1,2-Dichlorobenzene	2023/08/25	93	70 - 130	96	70 - 130	<0.50	ug/L	NC	30



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8874251	1,2-Dichloroethane	2023/08/25	104	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
8874251	1,2-Dichloropropane	2023/08/25	97	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
8874251	1,3-Dichlorobenzene	2023/08/25	91	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
8874251	1,4-Dichlorobenzene	2023/08/25	92	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
8874251	Acetone (2-Propanone)	2023/08/25	111	60 - 140	108	60 - 140	<10	ug/L	NC	30
8874251	Benzene	2023/08/25	94	70 - 130	99	70 - 130	<0.17	ug/L	NC	30
8874251	Bromodichloromethane	2023/08/25	96	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
8874251	Bromoform	2023/08/25	89	70 - 130	93	70 - 130	<1.0	ug/L	NC	30
8874251	Bromomethane	2023/08/25	96	60 - 140	97	60 - 140	<0.50	ug/L	NC	30
8874251	Carbon Tetrachloride	2023/08/25	94	70 - 130	105	70 - 130	<0.20	ug/L	NC	30
8874251	Chlorobenzene	2023/08/25	90	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
8874251	Chloroform	2023/08/25	99	70 - 130	103	70 - 130	<0.20	ug/L	NC	30
8874251	cis-1,2-Dichloroethylene	2023/08/25	96	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
8874251	cis-1,3-Dichloropropene	2023/08/25	95	70 - 130	100	70 - 130	<0.30	ug/L	NC	30
8874251	Dibromochloromethane	2023/08/25	93	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
8874251	Dichlorodifluoromethane (FREON 12)	2023/08/25	97	60 - 140	101	60 - 140	<1.0	ug/L	NC	30
8874251	Ethylbenzene	2023/08/25	84	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
8874251	Ethylene Dibromide	2023/08/25	97	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
8874251	F1 (C6-C10) - BTEX	2023/08/25					<25	ug/L	NC	30
8874251	F1 (C6-C10)	2023/08/25	83	60 - 140	94	60 - 140	<25	ug/L	NC	30
8874251	Hexane	2023/08/25	103	70 - 130	109	70 - 130	<1.0	ug/L	NC	30
8874251	Methyl Ethyl Ketone (2-Butanone)	2023/08/25	105	60 - 140	107	60 - 140	<10	ug/L	NC	30
8874251	Methyl Isobutyl Ketone	2023/08/25	100	70 - 130	104	70 - 130	<5.0	ug/L	NC	30
8874251	Methyl t-butyl ether (MTBE)	2023/08/25	89	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
8874251	Methylene Chloride(Dichloromethane)	2023/08/25	97	70 - 130	97	70 - 130	<2.0	ug/L	NC	30
8874251	o-Xylene	2023/08/25	84	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
8874251	p+m-Xylene	2023/08/25	79	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
8874251	Styrene	2023/08/25	64 (1)	70 - 130	72	70 - 130	<0.50	ug/L	NC	30
8874251	Tetrachloroethylene	2023/08/25	92	70 - 130	100	70 - 130	<0.20	ug/L	0.12	30
8874251	Toluene	2023/08/25	87	70 - 130	93	70 - 130	<0.20	ug/L	NC	30
8874251	Total Xylenes	2023/08/25					<0.20	ug/L	NC	30



BUREAU
VERITAS

Bureau Veritas Job #: C3005376
Report Date: 2024/02/27

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8874251	trans-1,2-Dichloroethylene	2023/08/25	96	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
8874251	trans-1,3-Dichloropropene	2023/08/25	100	70 - 130	103	70 - 130	<0.40	ug/L	NC	30
8874251	Trichloroethylene	2023/08/25	91	70 - 130	98	70 - 130	<0.20	ug/L	1.4	30
8874251	Trichlorofluoromethane (FREON 11)	2023/08/25	93	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
8874251	Vinyl Chloride	2023/08/25	94	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
8874330	1-Methyl-naphthalene	2023/08/25	113	50 - 130	117	50 - 130	<0.050	ug/L	NC	30
8874330	2-Methylnaphthalene	2023/08/25	102	50 - 130	106	50 - 130	<0.050	ug/L	NC	30
8874330	Acenaphthene	2023/08/25	102	50 - 130	105	50 - 130	<0.050	ug/L	NC	30
8874330	Acenaphthylene	2023/08/25	97	50 - 130	99	50 - 130	<0.050	ug/L	NC	30
8874330	Anthracene	2023/08/25	108	50 - 130	111	50 - 130	<0.050	ug/L	NC	30
8874330	Benzol(a)anthracene	2023/08/25	101	50 - 130	101	50 - 130	<0.050	ug/L	NC	30
8874330	Benzol(a)pyrene	2023/08/25	94	50 - 130	92	50 - 130	<0.0090	ug/L	NC	30
8874330	Benzol(b,j)fluoranthene	2023/08/25	99	50 - 130	97	50 - 130	<0.050	ug/L	NC	30
8874330	Benzol(g,h,i)perylene	2023/08/25	101	50 - 130	98	50 - 130	<0.050	ug/L	NC	30
8874330	Benzol(k)fluoranthene	2023/08/25	93	50 - 130	93	50 - 130	<0.050	ug/L	NC	30
8874330	Chrysene	2023/08/25	99	50 - 130	98	50 - 130	<0.050	ug/L	NC	30
8874330	Dibenzol(a,h)anthracene	2023/08/25	94	50 - 130	90	50 - 130	<0.050	ug/L	NC	30
8874330	Fluoranthene	2023/08/25	112	50 - 130	116	50 - 130	<0.050	ug/L	NC	30
8874330	Fluorene	2023/08/25	101	50 - 130	104	50 - 130	<0.050	ug/L	NC	30
8874330	Indeno(1,2,3-cd)pyrene	2023/08/25	102	50 - 130	99	50 - 130	<0.050	ug/L	NC	30
8874330	Naphthalene	2023/08/25	97	50 - 130	99	50 - 130	<0.050	ug/L	NC	30
8874330	Phenanthrene	2023/08/25	103	50 - 130	106	50 - 130	<0.030	ug/L	NC	30
8874330	Pyrene	2023/08/25	111	50 - 130	114	50 - 130	<0.050	ug/L	NC	30
8874333	F2 (C10-C16 Hydrocarbons)	2023/08/26	102	60 - 130	100	60 - 130	<100	ug/L	NC	30
8874333	F3 (C16-C34 Hydrocarbons)	2023/08/26	100	60 - 130	100	60 - 130	<200	ug/L	NC	30



Bureau Veritas Job #: C3005376
 Report Date: 2024/02/27

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
 Client Project #: 02103035.000
 Site Location: 424 Churchill Avenue North, Ottawa
 Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8874333	F4 (C34-C50 Hydrocarbons)	2023/08/26	88	60 - 130	85	60 - 130	<200	ug/L	NC	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

Bureau Veritas Job #: C3O5376
Report Date: 2024/02/27

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 Churchill Avenue North, Ottawa
Sampler Initials: JB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Brad Newman, B.Sc., C.Chem., Scientific Service Specialist

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Your Project #: 02103035
 Site Location: 424 CHURCHILL AVE N
 Your C.O.C. #: n/a

Attention: Salim Eid

Englobe Corp.
 Ottawa - Standing Offer
 2713 Lancaster Road
 Unit 101
 Ottawa, ON
 CANADA K1B 5R6

Report Date: 2023/12/07
 Report #: R7944562
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3AQ664

Received: 2023/11/29, 18:49

Sample Matrix: Water
 # Samples Received: 2

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
1,3-Dichloropropene Sum (1)	2	N/A	2023/12/07		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	2	2023/12/03	2023/12/04	CAM SOP-00316	CCME PHC-CWS m
Volatile Organic Compounds and F1 PHCs (1)	2	N/A	2023/12/04	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCCFP, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8

(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.



Your Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Your C.O.C. #: n/a

Attention: Salim Eid
Englobe Corp.
Ottawa - Standing Offer
2713 Lancaster Road
Unit 101
Ottawa, ON
CANADA K1B 5R6

Report Date: 2023/12/07
Report #: R7944562
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C3AQ664
Received: 2023/11/29, 18:49

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Katherine Szozda, Project Manager
Email: Katherine.Szozda@bureauveritas.com
Phone# (613)274-0573 Ext:7063633

=====
This report has been generated and distributed using a secure automated process.
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For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



BUREAU
VERITAS

Bureau Veritas Job #: C3AQ664
Report Date: 2023/12/07

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		XTI651		XTI652		
Sampling Date		2023/11/28 16:00		2023/11/29 16:00		
COC Number		n/a		n/a		
	UNITS	MW 23-1	RDL	MW 23-2	RDL	QC Batch
Calculated Parameters						
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	<0.50	0.50	9084432
Volatile Organics						
Acetone (2-Propanone)	ug/L	<10	10	<10	10	9087630
Benzene	ug/L	<0.17	0.17	<0.17	0.17	9087630
Bromodichloromethane	ug/L	<0.50	0.50	<0.50	0.50	9087630
Bromoform	ug/L	<1.0	1.0	<1.0	1.0	9087630
Bromomethane	ug/L	<0.50	0.50	<0.50	0.50	9087630
Carbon Tetrachloride	ug/L	<0.20	0.20	<0.20	0.20	9087630
Chlorobenzene	ug/L	<0.20	0.20	<0.20	0.20	9087630
Chloroform	ug/L	0.48	0.20	0.55	0.20	9087630
Dibromochloromethane	ug/L	<0.50	0.50	<0.50	0.50	9087630
1,2-Dichlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	9087630
1,3-Dichlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	9087630
1,4-Dichlorobenzene	ug/L	<0.50	0.50	<0.50	0.50	9087630
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	<1.0	1.0	9087630
1,1-Dichloroethane	ug/L	<0.20	0.20	0.26	0.20	9087630
1,2-Dichloroethane	ug/L	<0.50	0.50	<0.50	0.50	9087630
1,1-Dichloroethylene	ug/L	<0.20	0.20	0.25	0.20	9087630
cis-1,2-Dichloroethylene	ug/L	40	0.50	33	0.50	9087630
trans-1,2-Dichloroethylene	ug/L	0.69	0.50	0.94	0.50	9087630
1,2-Dichloropropane	ug/L	<0.20	0.20	<0.20	0.20	9087630
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	<0.30	0.30	9087630
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	<0.40	0.40	9087630
Ethylbenzene	ug/L	<0.20	0.20	<0.20	0.20	9087630
Ethylene Dibromide	ug/L	<0.20	0.20	<0.20	0.20	9087630
Hexane	ug/L	<1.0	1.0	<1.0	1.0	9087630
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	<2.0	2.0	9087630
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	<10	10	9087630
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	<5.0	5.0	9087630
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	<0.50	0.50	9087630
Styrene	ug/L	<0.50	0.50	<0.50	0.50	9087630
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						



BUREAU
VERITAS

Bureau Veritas Job #: C3AQ664
Report Date: 2023/12/07

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		XTI651		XTI652		
Sampling Date		2023/11/28 16:00		2023/11/29 16:00		
COC Number		n/a		n/a		
	UNITS	MW 23-1	RDL	MW 23-2	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	<0.50	0.50	9087630
1,1,2,2-Tetrachloroethane	ug/L	<0.50	0.50	<0.50	0.50	9087630
Tetrachloroethylene	ug/L	0.57	0.20	1400	1.0	9087630
Toluene	ug/L	<0.20	0.20	<0.20	0.20	9087630
1,1,1-Trichloroethane	ug/L	<0.20	0.20	<0.20	0.20	9087630
1,1,2-Trichloroethane	ug/L	<0.50	0.50	<0.50	0.50	9087630
Trichloroethylene	ug/L	1.2	0.20	120	0.20	9087630
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	<0.50	0.50	9087630
Vinyl Chloride	ug/L	7.3	0.20	4.0	0.20	9087630
p+m-Xylene	ug/L	<0.20	0.20	<0.20	0.20	9087630
o-Xylene	ug/L	<0.20	0.20	<0.20	0.20	9087630
Total Xylenes	ug/L	<0.20	0.20	<0.20	0.20	9087630
F1 (C6-C10)	ug/L	<25	25	480 (1)	130	9087630
F1 (C6-C10) - BTEX	ug/L	<25	25	480	130	9087630
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	<100	100	9087970
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	<200	200	9087970
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	<200	200	9087970
Reached Baseline at C50	ug/L	Yes		Yes		9087970
Surrogate Recovery (%)						
o-Terphenyl	%	102		100		9087970
4-Bromofluorobenzene	%	89		84		9087630
D4-1,2-Dichloroethane	%	109		110		9087630
D8-Toluene	%	86		84		9087630
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Result reported was due to chlorinated compounds eluting inside the F1 range.						



BUREAU
VERITAS

Bureau Veritas Job #: C3AQ664
Report Date: 2023/12/07

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

TEST SUMMARY

Bureau Veritas ID: XT1651
Sample ID: MW 23-1
Matrix: Water

Collected: 2023/11/28
Shipped:
Received: 2023/11/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9084432	N/A	2023/12/07	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9087970	2023/12/03	2023/12/04	Jeevaraj Jeevaratnam
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9087630	N/A	2023/12/04	Gladys Guerrero

Bureau Veritas ID: XT1652
Sample ID: MW 23-2
Matrix: Water

Collected: 2023/11/29
Shipped:
Received: 2023/11/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9084432	N/A	2023/12/07	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9087970	2023/12/03	2023/12/04	Jeevaraj Jeevaratnam
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9087630	N/A	2023/12/04	Gladys Guerrero



BUREAU
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Bureau Veritas Job #: C3AQ664
Report Date: 2023/12/07

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	5.7°C
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Sample XTI652 [MW 23-2] : VOC/F1 Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly. In order to achieve lower reporting limits, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9087630	4-Bromofluorobenzene	2023/12/04	96	70 - 130	97	70 - 130	92	%		
9087630	D4-1,2-Dichloroethane	2023/12/04	103	70 - 130	96	70 - 130	99	%		
9087630	D8-Toluene	2023/12/04	104	70 - 130	106	70 - 130	90	%		
9087970	o-Terphenyl	2023/12/04	102	60 - 130	104	60 - 130	101	%		
9087630	1,1,1,2-Tetrachloroethane	2023/12/04	99	70 - 130	92	70 - 130	<0.50	ug/L	NC	30
9087630	1,1,1-Trichloroethane	2023/12/04	97	70 - 130	86	70 - 130	<0.20	ug/L	NC	30
9087630	1,1,2,2-Tetrachloroethane	2023/12/04	105	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
9087630	1,1,2-Trichloroethane	2023/12/04	102	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
9087630	1,1-Dichloroethane	2023/12/04	101	70 - 130	89	70 - 130	<0.20	ug/L	NC	30
9087630	1,1-Dichloroethylene	2023/12/04	98	70 - 130	87	70 - 130	<0.20	ug/L	NC	30
9087630	1,2-Dichlorobenzene	2023/12/04	102	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
9087630	1,2-Dichloroethane	2023/12/04	99	70 - 130	86	70 - 130	<0.50	ug/L	NC	30
9087630	1,2-Dichloropropane	2023/12/04	102	70 - 130	91	70 - 130	<0.20	ug/L	NC	30
9087630	1,3-Dichlorobenzene	2023/12/04	101	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
9087630	1,4-Dichlorobenzene	2023/12/04	112	70 - 130	111	70 - 130	<0.50	ug/L	NC	30
9087630	Acetone (2-Propanone)	2023/12/04	106	60 - 140	96	60 - 140	<10	ug/L	NC	30
9087630	Benzene	2023/12/04	93	70 - 130	82	70 - 130	<0.17	ug/L	NC	30
9087630	Bromodichloromethane	2023/12/04	106	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
9087630	Bromoform	2023/12/04	92	70 - 130	86	70 - 130	<1.0	ug/L	NC	30
9087630	Bromomethane	2023/12/04	101	60 - 140	86	60 - 140	<0.50	ug/L	NC	30
9087630	Carbon Tetrachloride	2023/12/04	94	70 - 130	84	70 - 130	<0.20	ug/L	NC	30
9087630	Chlorobenzene	2023/12/04	103	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
9087630	Chloroform	2023/12/04	103	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
9087630	cis-1,2-Dichloroethylene	2023/12/04	102	70 - 130	90	70 - 130	<0.50	ug/L	NC	30
9087630	cis-1,3-Dichloropropene	2023/12/04	106	70 - 130	95	70 - 130	<0.30	ug/L	NC	30
9087630	Dibromochloromethane	2023/12/04	98	70 - 130	90	70 - 130	<0.50	ug/L	NC	30
9087630	Dichlorodifluoromethane (FREON 12)	2023/12/04	92	60 - 140	80	60 - 140	<1.0	ug/L	NC	30
9087630	Ethylbenzene	2023/12/04	90	70 - 130	86	70 - 130	<0.20	ug/L	NC	30
9087630	Ethylene Dibromide	2023/12/04	103	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
9087630	F1 (C6-C10) - BTEX	2023/12/04					<25	ug/L	NC	30
9087630	F1 (C6-C10)	2023/12/04	103	60 - 140	95	60 - 140	<25	ug/L	NC	30
9087630	Hexane	2023/12/04	94	70 - 130	85	70 - 130	<1.0	ug/L	NC	30



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9087630	Methyl Ethyl Ketone (2-Butanone)	2023/12/04	113	60 - 140	104	60 - 140	<10	ug/L	NC	30
9087630	Methyl Isobutyl Ketone	2023/12/04	89	70 - 130	85	70 - 130	<5.0	ug/L	NC	30
9087630	Methyl t-butyl ether (MTBE)	2023/12/04	102	70 - 130	95	70 - 130	<0.50	ug/L	NC	30
9087630	Methylene Chloride(Dichloromethane)	2023/12/04	119	70 - 130	102	70 - 130	<2.0	ug/L	NC	30
9087630	o-Xylene	2023/12/04	85	70 - 130	82	70 - 130	<0.20	ug/L	NC	30
9087630	p+m-Xylene	2023/12/04	95	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
9087630	Styrene	2023/12/04	76	70 - 130	74	70 - 130	<0.50	ug/L	NC	30
9087630	Tetrachloroethylene	2023/12/04	97	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
9087630	Toluene	2023/12/04	94	70 - 130	87	70 - 130	<0.20	ug/L	NC	30
9087630	Total Xylenes	2023/12/04					<0.20	ug/L	NC	30
9087630	trans-1,2-Dichloroethylene	2023/12/04	97	70 - 130	87	70 - 130	<0.50	ug/L	NC	30
9087630	trans-1,3-Dichloropropene	2023/12/04	118	70 - 130	108	70 - 130	<0.40	ug/L	NC	30
9087630	Trichloroethylene	2023/12/04	99	70 - 130	89	70 - 130	<0.20	ug/L	NC	30
9087630	Trichlorofluoromethane (FREON 11)	2023/12/04	96	70 - 130	85	70 - 130	<0.50	ug/L	NC	30
9087630	Vinyl Chloride	2023/12/04	95	70 - 130	82	70 - 130	<0.20	ug/L	NC	30
9087970	F2 (C10-C16 Hydrocarbons)	2023/12/04	104	60 - 130	107	60 - 130	<100	ug/L	NC	30
9087970	F3 (C16-C34 Hydrocarbons)	2023/12/04	103	60 - 130	108	60 - 130	<200	ug/L	NC	30
9087970	F4 (C34-C50 Hydrocarbons)	2023/12/04	104	60 - 130	108	60 - 130	<200	ug/L	NC	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU
VERITAS

Bureau Veritas Job #: C3AQ664
Report Date: 2023/12/07

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Your Project #: 02103035
 Site Location: 424 CHURCHILL AVE N
 Your C.O.C. #: N/A

Attention: Salim Eid

Englobe Corp.
 2713 Lancaster Road
 Unit 101
 Ottawa, ON
 CANADA K1B5R6

Report Date: 2024/01/31
 Report #: R8010450
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C425636

Received: 2024/01/25, 13:49

Sample Matrix: Ground Water
 # Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
1,3-Dichloropropene Sum (1)	1	N/A	2024/01/30		EPA 8260C m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	1	2024/01/30	2024/01/30	CAM SOP-00316	CCME PHC-CWS m
Volatile Organic Compounds and F1 PHCs (1)	1	N/A	2024/01/29	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested. This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd, Mississauga, ON, L5N 2L8

(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.



Your Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Your C.O.C. #: N/A

Attention: Salim Eid

Englobe Corp.
2713 Lancaster Road
Unit 101
Ottawa, ON
CANADA K1B5R6

Report Date: 2024/01/31
Report #: R8010450
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C425636
Received: 2024/01/25, 13:49

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:

Katherine Szozda, Project Manager
Email: Katherine.Szozda@bureauveritas.com
Phone# (613)274-0573 Ext:7063633

=====

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



BUREAU
VERITAS

Bureau Veritas Job #: C425636
Report Date: 2024/01/31

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

O.REG 153 VOCs BY HS & F1-F4 (GROUND WATER)

Bureau Veritas ID		YFH789		
Sampling Date		2024/01/25 13:00		
COC Number		N/A		
	UNITS	MW24-1	RDL	QC Batch
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	9184432
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	9187056
Benzene	ug/L	0.39	0.17	9187056
Bromodichloromethane	ug/L	<0.50	0.50	9187056
Bromoform	ug/L	<1.0	1.0	9187056
Bromomethane	ug/L	<0.50	0.50	9187056
Carbon Tetrachloride	ug/L	<0.20	0.20	9187056
Chlorobenzene	ug/L	<0.20	0.20	9187056
Chloroform	ug/L	<0.20	0.20	9187056
Dibromochloromethane	ug/L	<0.50	0.50	9187056
1,2-Dichlorobenzene	ug/L	<0.50	0.50	9187056
1,3-Dichlorobenzene	ug/L	<0.50	0.50	9187056
1,4-Dichlorobenzene	ug/L	<0.50	0.50	9187056
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	9187056
1,1-Dichloroethane	ug/L	<0.20	0.20	9187056
1,2-Dichloroethane	ug/L	<0.50	0.50	9187056
1,1-Dichloroethylene	ug/L	<0.20	0.20	9187056
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	9187056
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	9187056
1,2-Dichloropropane	ug/L	<0.20	0.20	9187056
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	9187056
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	9187056
Ethylbenzene	ug/L	<0.20	0.20	9187056
Ethylene Dibromide	ug/L	<0.20	0.20	9187056
Hexane	ug/L	<1.0	1.0	9187056
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	9187056
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	9187056
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	9187056
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	9187056
Styrene	ug/L	<0.50	0.50	9187056
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	9187056
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	9187056
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C425636
Report Date: 2024/01/31

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

O.REG 153 VOCS BY HS & F1-F4 (GROUND WATER)

Bureau Veritas ID		YFH789		
Sampling Date		2024/01/25 13:00		
COC Number		N/A		
	UNITS	MW24-1	RDL	QC Batch
Tetrachloroethylene	ug/L	<0.20	0.20	9187056
Toluene	ug/L	0.21	0.20	9187056
1,1,1-Trichloroethane	ug/L	<0.20	0.20	9187056
1,1,2-Trichloroethane	ug/L	<0.50	0.50	9187056
Trichloroethylene	ug/L	<0.20	0.20	9187056
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	9187056
Vinyl Chloride	ug/L	<0.20	0.20	9187056
p+m-Xylene	ug/L	<0.20	0.20	9187056
o-Xylene	ug/L	<0.20	0.20	9187056
Total Xylenes	ug/L	<0.20	0.20	9187056
F1 (C6-C10)	ug/L	<25	25	9187056
F1 (C6-C10) - BTEX	ug/L	<25	25	9187056
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	9189744
F3 (C16-C34 Hydrocarbons)	ug/L	<200	200	9189744
F4 (C34-C50 Hydrocarbons)	ug/L	<200	200	9189744
Reached Baseline at C50	ug/L	Yes		9189744
Surrogate Recovery (%)				
o-Terphenyl	%	101		9189744
4-Bromofluorobenzene	%	98		9187056
D4-1,2-Dichloroethane	%	107		9187056
D8-Toluene	%	96		9187056
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C425636
Report Date: 2024/01/31

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

TEST SUMMARY

Bureau Veritas ID: YFH789
Sample ID: MW24-1
Matrix: Ground Water

Collected: 2024/01/25
Shipped:
Received: 2024/01/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9184432	N/A	2024/01/30	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9189744	2024/01/30	2024/01/30	Agnieszka Brzuzy-Snopko
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9187056	N/A	2024/01/29	Blair Gannon



BUREAU
VERITAS

Bureau Veritas Job #: C425636
Report Date: 2024/01/31

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	9.7°C
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Results relate only to the items tested.



Bureau Veritas Job #: C425636
Report Date: 2024/01/31

QUALITY ASSURANCE REPORT

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9187056	4-Bromofluorobenzene	2024/01/29	98	70 - 130	100	70 - 130	99	%		
9187056	D4-1,2-Dichloroethane	2024/01/29	101	70 - 130	101	70 - 130	104	%		
9187056	D8-Toluene	2024/01/29	100	70 - 130	100	70 - 130	97	%		
9189744	o-Terphenyl	2024/01/30	101	60 - 130	103	60 - 130	102	%		
9187056	1,1,1,2-Tetrachloroethane	2024/01/29	94	70 - 130	94	70 - 130	<0.50	ug/L	NC	30
9187056	1,1,1-Trichloroethane	2024/01/29	92	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
9187056	1,1,2,2-Tetrachloroethane	2024/01/29	97	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
9187056	1,1,2-Trichloroethane	2024/01/29	98	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
9187056	1,1-Dichloroethane	2024/01/29	94	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
9187056	1,1-Dichloroethylene	2024/01/29	92	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
9187056	1,2-Dichlorobenzene	2024/01/29	92	70 - 130	92	70 - 130	<0.50	ug/L	NC	30
9187056	1,2-Dichloroethane	2024/01/29	92	70 - 130	92	70 - 130	<0.50	ug/L	NC	30
9187056	1,2-Dichloropropane	2024/01/29	92	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
9187056	1,3-Dichlorobenzene	2024/01/29	95	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
9187056	1,4-Dichlorobenzene	2024/01/29	103	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
9187056	Acetone (2-Propanone)	2024/01/29	96	60 - 140	95	60 - 140	<10	ug/L	NC	30
9187056	Benzene	2024/01/29	86	70 - 130	90	70 - 130	<0.17	ug/L	NC	30
9187056	Bromodichloromethane	2024/01/29	100	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
9187056	Bromoform	2024/01/29	87	70 - 130	87	70 - 130	<1.0	ug/L	NC	30
9187056	Bromomethane	2024/01/29	79	60 - 140	81	60 - 140	<0.50	ug/L	NC	30
9187056	Carbon Tetrachloride	2024/01/29	88	70 - 130	91	70 - 130	<0.20	ug/L	NC	30
9187056	Chlorobenzene	2024/01/29	94	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
9187056	Chloroform	2024/01/29	96	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
9187056	cis-1,2-Dichloroethylene	2024/01/29	94	70 - 130	96	70 - 130	<0.50	ug/L	NC	30
9187056	cis-1,3-Dichloropropene	2024/01/29	94	70 - 130	93	70 - 130	<0.30	ug/L	NC	30
9187056	Dibromochloromethane	2024/01/29	94	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
9187056	Dichlorodifluoromethane (FREON 12)	2024/01/29	65	60 - 140	69	60 - 140	<1.0	ug/L	NC	30
9187056	Ethylbenzene	2024/01/29	85	70 - 130	87	70 - 130	<0.20	ug/L	NC	30
9187056	Ethylene Dibromide	2024/01/29	96	70 - 130	96	70 - 130	<0.20	ug/L	NC	30
9187056	F1 (C6-C10) - BTEX	2024/01/29					<25	ug/L	NC	30
9187056	F1 (C6-C10)	2024/01/29	85	60 - 140	87	60 - 140	<25	ug/L	NC	30
9187056	Hexane	2024/01/29	85	70 - 130	89	70 - 130	<1.0	ug/L	NC	30



BUREAU
VERITAS

Bureau Veritas Job #: C425636
Report Date: 2024/01/31

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9187056	Methyl Ethyl Ketone (2-Butanone)	2024/01/29	99	60 - 140	101	60 - 140	<10	ug/L	NC	30
9187056	Methyl Isobutyl Ketone	2024/01/29	94	70 - 130	99	70 - 130	<5.0	ug/L	NC	30
9187056	Methyl t-butyl ether (MTBE)	2024/01/29	97	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
9187056	Methylene Chloride(Dichloromethane)	2024/01/29	90	70 - 130	93	70 - 130	<2.0	ug/L	NC	30
9187056	o-Xylene	2024/01/29	79	70 - 130	82	70 - 130	<0.20	ug/L	NC	30
9187056	p+m-Xylene	2024/01/29	89	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
9187056	Styrene	2024/01/29	97	70 - 130	101	70 - 130	<0.50	ug/L	NC	30
9187056	Tetrachloroethylene	2024/01/29	89	70 - 130	90	70 - 130	<0.20	ug/L	NC	30
9187056	Toluene	2024/01/29	86	70 - 130	88	70 - 130	<0.20	ug/L	NC	30
9187056	Total Xylenes	2024/01/29					<0.20	ug/L	NC	30
9187056	trans-1,2-Dichloroethylene	2024/01/29	90	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
9187056	trans-1,3-Dichloropropene	2024/01/29	98	70 - 130	96	70 - 130	<0.40	ug/L	NC	30
9187056	Trichloroethylene	2024/01/29	93	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
9187056	Trichlorofluoromethane (FREON 11)	2024/01/29	90	70 - 130	93	70 - 130	<0.50	ug/L	NC	30
9187056	Vinyl Chloride	2024/01/29	82	70 - 130	88	70 - 130	<0.20	ug/L	NC	30
9189744	F2 (C10-C16 Hydrocarbons)	2024/01/30	98	60 - 130	101	60 - 130	<100	ug/L	10	30
9189744	F3 (C16-C34 Hydrocarbons)	2024/01/30	90	60 - 130	108	60 - 130	<200	ug/L	NC	30
9189744	F4 (C34-C50 Hydrocarbons)	2024/01/30	105	60 - 130	109	60 - 130	<200	ug/L	8.6	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU
VERITAS

Bureau Veritas Job #: C425636
Report Date: 2024/01/31

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

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Your Project #: 02103035
 Site Location: 424 CHURCHILL AVE N
 Your C.O.C. #: N/A

Attention: Salim Eid

Englobe Corp.
 2713 Lancaster Road
 Unit 101
 Ottawa, ON
 CANADA K1B5R6

Report Date: 2024/02/01
 Report #: R8011417
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C425648

Received: 2024/01/25, 13:49

Sample Matrix: Ground Water
 # Samples Received: 1

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
1,3-Dichloropropene Sum (1)	1	N/A	2024/02/01		EPA 8260C m
Volatile Organic Compounds in Water (1)	1	N/A	2024/02/01	CAM SOP-00228	EPA 8260D

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd, Mississauga, ON, L5N 2L8



Your Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Your C.O.C. #: N/A

Attention: Salim Eid

Englobe Corp.
2713 Lancaster Road
Unit 101
Ottawa, ON
CANADA K1B5R6

Report Date: 2024/02/01
Report #: R8011417
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C425648
Received: 2024/01/25, 13:49

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:

Katherine Szozda, Project Manager
Email: Katherine.Szozda@bureauveritas.com
Phone# (613)274-0573 Ext:7063633

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BUREAU
VERITAS

Bureau Veritas Job #: C425648
Report Date: 2024/02/01

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

O.REG 153 VOCS BY HS (WATER)

Bureau Veritas ID		YFH862		
Sampling Date		2024/01/25 12:00		
COC Number		N/A		
	UNITS	MW23-2	RDL	QC Batch
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	9184432
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	9187120
Benzene	ug/L	<0.20	0.20	9187120
Bromodichloromethane	ug/L	<0.50	0.50	9187120
Bromoform	ug/L	<1.0	1.0	9187120
Bromomethane	ug/L	<0.50	0.50	9187120
Carbon Tetrachloride	ug/L	<0.19	0.19	9187120
Chlorobenzene	ug/L	<0.20	0.20	9187120
Chloroform	ug/L	0.56	0.20	9187120
Dibromochloromethane	ug/L	<0.50	0.50	9187120
1,2-Dichlorobenzene	ug/L	<0.40	0.40	9187120
1,3-Dichlorobenzene	ug/L	<0.40	0.40	9187120
1,4-Dichlorobenzene	ug/L	<0.40	0.40	9187120
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	9187120
1,1-Dichloroethane	ug/L	<0.20	0.20	9187120
1,2-Dichloroethane	ug/L	<0.49	0.49	9187120
1,1-Dichloroethylene	ug/L	<0.20	0.20	9187120
cis-1,2-Dichloroethylene	ug/L	27	0.50	9187120
trans-1,2-Dichloroethylene	ug/L	1.4	0.50	9187120
1,2-Dichloropropane	ug/L	<0.20	0.20	9187120
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	9187120
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	9187120
Ethylbenzene	ug/L	<0.20	0.20	9187120
Ethylene Dibromide	ug/L	<0.19	0.19	9187120
Hexane	ug/L	<1.0	1.0	9187120
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	9187120
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	9187120
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	9187120
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	9187120
Styrene	ug/L	<0.40	0.40	9187120
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	9187120
1,1,1,2-Tetrachloroethane	ug/L	<0.40	0.40	9187120
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



O.REG 153 VOCS BY HS (WATER)

Bureau Veritas ID		YFH862		
Sampling Date		2024/01/25 12:00		
COC Number		N/A		
	UNITS	MW23-2	RDL	QC Batch
Tetrachloroethylene	ug/L	730	0.40	9187120
Toluene	ug/L	<0.20	0.20	9187120
1,1,1-Trichloroethane	ug/L	<0.20	0.20	9187120
1,1,2-Trichloroethane	ug/L	<0.40	0.40	9187120
Trichloroethylene	ug/L	51	0.20	9187120
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	9187120
Vinyl Chloride	ug/L	3.2	0.20	9187120
p+m-Xylene	ug/L	<0.20	0.20	9187120
o-Xylene	ug/L	<0.20	0.20	9187120
Total Xylenes	ug/L	<0.20	0.20	9187120
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	102		9187120
D4-1,2-Dichloroethane	%	102		9187120
D8-Toluene	%	96		9187120
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C425648
Report Date: 2024/02/01

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

TEST SUMMARY

Bureau Veritas ID: YFH862
Sample ID: MW23-2
Matrix: Ground Water

Collected: 2024/01/25
Shipped:
Received: 2024/01/25

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9184432	N/A	2024/02/01	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	9187120	N/A	2024/02/01	Narayan Ghimire



BUREAU
VERITAS

Bureau Veritas Job #: C425648
Report Date: 2024/02/01

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	9.7°C
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Sample YFH862 [MW23-2] : VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly. In order to meet required regulatory criteria or to achieve lower reporting limits, results for selected compounds (obtained by a separate analysis using an appropriate low dilution) are included in the report.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C425648
Report Date: 2024/02/01

QUALITY ASSURANCE REPORT

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9187120	4-Bromofluorobenzene	2024/01/31	104	70 - 130	102	70 - 130	103	%		
9187120	D4-1,2-Dichloroethane	2024/01/31	99	70 - 130	101	70 - 130	98	%		
9187120	D8-Toluene	2024/01/31	97	70 - 130	99	70 - 130	96	%		
9187120	1,1,1,2-Tetrachloroethane	2024/01/31	103	70 - 130	102	70 - 130	<0.50	ug/L		
9187120	1,1,1-Trichloroethane	2024/01/31	100	70 - 130	100	70 - 130	<0.20	ug/L		
9187120	1,1,2,2-Tetrachloroethane	2024/01/31	101	70 - 130	101	70 - 130	<0.40	ug/L		
9187120	1,1,2-Trichloroethane	2024/01/31	98	70 - 130	98	70 - 130	<0.40	ug/L		
9187120	1,1-Dichloroethane	2024/01/31	96	70 - 130	97	70 - 130	<0.20	ug/L		
9187120	1,1-Dichloroethylene	2024/01/31	94	70 - 130	97	70 - 130	<0.20	ug/L		
9187120	1,2-Dichlorobenzene	2024/01/31	99	70 - 130	100	70 - 130	<0.40	ug/L		
9187120	1,2-Dichloroethane	2024/01/31	95	70 - 130	95	70 - 130	<0.49	ug/L		
9187120	1,2-Dichloropropane	2024/01/31	95	70 - 130	94	70 - 130	<0.20	ug/L		
9187120	1,3-Dichlorobenzene	2024/01/31	102	70 - 130	101	70 - 130	<0.40	ug/L		
9187120	1,4-Dichlorobenzene	2024/01/31	111	70 - 130	115	70 - 130	<0.40	ug/L		
9187120	Acetone (2-Propanone)	2024/01/31	97	60 - 140	99	60 - 140	<10	ug/L		
9187120	Benzene	2024/01/31	93	70 - 130	92	70 - 130	<0.20	ug/L		
9187120	Bromodichloromethane	2024/01/31	104	70 - 130	103	70 - 130	<0.50	ug/L		
9187120	Bromoform	2024/01/31	91	70 - 130	91	70 - 130	<1.0	ug/L		
9187120	Bromomethane	2024/01/31	81	60 - 140	84	60 - 140	<0.50	ug/L		
9187120	Carbon Tetrachloride	2024/01/31	101	70 - 130	102	70 - 130	<0.19	ug/L		
9187120	Chlorobenzene	2024/01/31	104	70 - 130	103	70 - 130	<0.20	ug/L		
9187120	Chloroform	2024/01/31	100	70 - 130	99	70 - 130	<0.20	ug/L		
9187120	cis-1,2-Dichloroethylene	2024/01/31	97	70 - 130	96	70 - 130	<0.50	ug/L		
9187120	cis-1,3-Dichloropropene	2024/01/31	95	70 - 130	95	70 - 130	<0.30	ug/L		
9187120	Dibromochloromethane	2024/01/31	99	70 - 130	98	70 - 130	<0.50	ug/L		
9187120	Dichlorodifluoromethane (FREON 12)	2024/01/31	77	60 - 140	80	60 - 140	<1.0	ug/L		
9187120	Ethylbenzene	2024/01/31	93	70 - 130	93	70 - 130	<0.20	ug/L		
9187120	Ethylene Dibromide	2024/01/31	99	70 - 130	100	70 - 130	<0.19	ug/L		
9187120	Hexane	2024/01/31	87	70 - 130	87	70 - 130	<1.0	ug/L		
9187120	Methyl Ethyl Ketone (2-Butanone)	2024/01/31	104	60 - 140	105	60 - 140	<10	ug/L		
9187120	Methyl Isobutyl Ketone	2024/01/31	94	70 - 130	94	70 - 130	<5.0	ug/L		
9187120	Methyl t-butyl ether (MTBE)	2024/01/31	102	70 - 130	103	70 - 130	<0.50	ug/L		



Bureau Veritas Job #: C425648
Report Date: 2024/02/01

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9187120	Methylene Chloride(Dichloromethane)	2024/01/31	98	70 - 130	99	70 - 130	<2.0	ug/L		
9187120	o-Xylene	2024/01/31	87	70 - 130	87	70 - 130	<0.20	ug/L	0.46	30
9187120	p+m-Xylene	2024/01/31	98	70 - 130	98	70 - 130	<0.20	ug/L	6.6	30
9187120	Styrene	2024/01/31	102	70 - 130	101	70 - 130	<0.40	ug/L		
9187120	Tetrachloroethylene	2024/01/31	101	70 - 130	101	70 - 130	<0.20	ug/L		
9187120	Toluene	2024/01/31	92	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
9187120	Total Xylenes	2024/01/31					<0.20	ug/L	4.5	30
9187120	trans-1,2-Dichloroethylene	2024/01/31	96	70 - 130	97	70 - 130	<0.50	ug/L		
9187120	trans-1,3-Dichloropropene	2024/01/31	100	70 - 130	102	70 - 130	<0.40	ug/L		
9187120	Trichloroethylene	2024/01/31	105	70 - 130	104	70 - 130	<0.20	ug/L		
9187120	Trichlorofluoromethane (FREON 11)	2024/01/31	100	70 - 130	103	70 - 130	<0.50	ug/L		
9187120	Vinyl Chloride	2024/01/31	84	70 - 130	87	70 - 130	<0.20	ug/L		

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU
VERITAS

Bureau Veritas Job #: C425648
Report Date: 2024/02/01

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE N
Sampler Initials: JB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Your Project #: 02103035
 Site Location: 424 CHURCHILL AVE. NORTH
 Your C.O.C. #: C#969278-03-01

Attention: Aqsa Gatchalian

Englobe Corp.
 Ottawa - Standing Offer
 2713 Lancaster Road
 Unit 101
 Ottawa, ON
 CANADA K1B 5R6

Report Date: 2025/04/28
 Report #: R8527845
 Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C543505

Received: 2025/04/17, 16:40

Sample Matrix: Water
 # Samples Received: 7

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum	3	N/A	2025/04/24	CAM SOP-00301	EPA 8270D m
Methylnaphthalene Sum	1	N/A	2025/04/25	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum	7	N/A	2025/04/24		EPA 8260C m
Chloride by Automated Colourimetry	5	N/A	2025/04/23	CAM SOP-00463	SM 24 4500-Cl E m
Chromium (VI) in Water	5	N/A	2025/04/23	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide	5	N/A	2025/04/21	CAM SOP-00457	OMOE E3015 m
Petroleum Hydrocarbons F2-F4 in Water (1)	3	2025/04/23	2025/04/23	CAM SOP-00316	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	2	2025/04/24	2025/04/24	CAM SOP-00316	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1)	1	2025/04/25	2025/04/25	CAM SOP-00316	CCME PHC-CWS m
Mercury	5	2025/04/23	2025/04/24	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS	5	N/A	2025/04/24	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM)	3	2025/04/23	2025/04/23	CAM SOP-00318	EPA 8270E
PAH Compounds in Water by GC/MS (SIM)	1	2025/04/25	2025/04/25	CAM SOP-00318	EPA 8270E
Volatile Organic Compounds and F1 PHCs	6	N/A	2025/04/23	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds in Water	1	N/A	2025/04/24	CAM SOP-00228	EPA 8260D

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.



Your Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Your C.O.C. #: C#969278-03-01

Attention: Aqsa Gatchalian

Englobe Corp.
Ottawa - Standing Offer
2713 Lancaster Road
Unit 101
Ottawa, ON
CANADA K1B 5R6

Report Date: 2025/04/28
Report #: R8527845
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C543505

Received: 2025/04/17, 16:40

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:

Katherine Szozda, Project Manager
Email: Katherine.Szozda@bureauveritas.com
Phone# (613)274-0573 Ext:7063633

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



**BUREAU
VERITAS**

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID			AQAV50	AQAV52	AQAV53	AQAV54	AQAV55		
Sampling Date			2025/04/16 15:00	2025/04/17 10:30	2025/04/17 12:00	2025/04/17 13:30	2025/04/16		
COC Number			C#969278-03-01	C#969278-03-01	C#969278-03-01	C#969278-03-01	C#969278-03-01		
	UNITS	Criteria	MW25-2A	MW25-1A	MW25-4A	MW25-5	DUP 250416	RDL	QC Batch

Inorganics									
WAD Cyanide (Free)	ug/L	52	<1	<1	<1	<1	<1	1	9912669
Dissolved Chloride (Cl-)	mg/L	1800	2800	2700	790	2000	2800	20	9914237

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)

Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition

Non-Potable Ground Water - All Types of Property Use - Medium and Fine Textured Soil



BUREAU
VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID			AQAV50			AQAV50			AQAV52		
Sampling Date			2025/04/16 15:00			2025/04/16 15:00			2025/04/17 10:30		
COC Number			C#969278-03-01			C#969278-03-01			C#969278-03-01		
	UNITS	Criteria	MW25-2A	RDL	QC Batch	MW25-2A Lab-Dup	RDL	QC Batch	MW25-1A	RDL	QC Batch

Metals											
Chromium (VI)	ug/L	110	<1.0	1.0	9914153	<1.0	1.0	9914153	<1.0	1.0	9914153
Mercury (Hg)	ug/L	0.1	<0.10	0.10	9914974				<0.10	0.10	9914836
Dissolved Antimony (Sb)	ug/L	16000	<0.50	0.50	9913991				<0.50	0.50	9913991
Dissolved Arsenic (As)	ug/L	1500	<1.0	1.0	9913991				<1.0	1.0	9913991
Dissolved Barium (Ba)	ug/L	23000	300	2.0	9913991				350	2.0	9913991
Dissolved Beryllium (Be)	ug/L	53	<0.40	0.40	9913991				<0.40	0.40	9913991
Dissolved Boron (B)	ug/L	36000	220	10	9913991				150	10	9913991
Dissolved Cadmium (Cd)	ug/L	2.1	<0.090	0.090	9913991				<0.090	0.090	9913991
Dissolved Chromium (Cr)	ug/L	640	<5.0	5.0	9913991				<5.0	5.0	9913991
Dissolved Cobalt (Co)	ug/L	52	0.85	0.50	9913991				<0.50	0.50	9913991
Dissolved Copper (Cu)	ug/L	69	1.9	0.90	9913991				<0.90	0.90	9913991
Dissolved Lead (Pb)	ug/L	20	<0.50	0.50	9913991				<0.50	0.50	9913991
Dissolved Molybdenum (Mo)	ug/L	7300	3.4	0.50	9913991				3.8	0.50	9913991
Dissolved Nickel (Ni)	ug/L	390	8.8	1.0	9913991				4.4	1.0	9913991
Dissolved Selenium (Se)	ug/L	50	<2.0	2.0	9913991				<2.0	2.0	9913991
Dissolved Silver (Ag)	ug/L	1.2	<0.090	0.090	9913991				<0.090	0.090	9913991
Dissolved Sodium (Na)	ug/L	1800000	1700000	500	9913991				1700000	500	9913991
Dissolved Thallium (Tl)	ug/L	400	0.59	0.050	9913991				<0.050	0.050	9913991
Dissolved Uranium (U)	ug/L	330	1.5	0.10	9913991				1.6	0.10	9913991
Dissolved Vanadium (V)	ug/L	200	<0.50	0.50	9913991				<0.50	0.50	9913991
Dissolved Zinc (Zn)	ug/L	890	<5.0	5.0	9913991				<5.0	5.0	9913991

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)

Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition

Non-Potable Ground Water - All Types of Property Use - Medium and Fine Textured Soil



BUREAU
VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID			AQAV53		AQAV54			AQAV54		
Sampling Date			2025/04/17 12:00		2025/04/17 13:30			2025/04/17 13:30		
COC Number			C#969278-03-01		C#969278-03-01			C#969278-03-01		
	UNITS	Criteria	MW25-4A	QC Batch	MW25-5	RDL	QC Batch	MW25-5 Lab-Dup	RDL	QC Batch

Metals										
Chromium (VI)	ug/L	110	<1.0	9914153	<1.0	1.0	9914153			
Mercury (Hg)	ug/L	0.1	<0.10	9914836	<0.10	0.10	9914974			
Dissolved Antimony (Sb)	ug/L	16000	<0.50	9913991	<0.50	0.50	9913991	<0.50	0.50	9913991
Dissolved Arsenic (As)	ug/L	1500	1.7	9913991	<1.0	1.0	9913991	<1.0	1.0	9913991
Dissolved Barium (Ba)	ug/L	23000	250	9913991	190	2.0	9913991	190	2.0	9913991
Dissolved Beryllium (Be)	ug/L	53	<0.40	9913991	<0.40	0.40	9913991	<0.40	0.40	9913991
Dissolved Boron (B)	ug/L	36000	410	9913991	120	10	9913991	120	10	9913991
Dissolved Cadmium (Cd)	ug/L	2.1	<0.090	9913991	<0.090	0.090	9913991	<0.090	0.090	9913991
Dissolved Chromium (Cr)	ug/L	640	<5.0	9913991	<5.0	5.0	9913991	<5.0	5.0	9913991
Dissolved Cobalt (Co)	ug/L	52	0.52	9913991	<0.50	0.50	9913991	<0.50	0.50	9913991
Dissolved Copper (Cu)	ug/L	69	<0.90	9913991	<0.90	0.90	9913991	<0.90	0.90	9913991
Dissolved Lead (Pb)	ug/L	20	<0.50	9913991	<0.50	0.50	9913991	<0.50	0.50	9913991
Dissolved Molybdenum (Mo)	ug/L	7300	7.8	9913991	0.76	0.50	9913991	0.78	0.50	9913991
Dissolved Nickel (Ni)	ug/L	390	3.2	9913991	<1.0	1.0	9913991	<1.0	1.0	9913991
Dissolved Selenium (Se)	ug/L	50	<2.0	9913991	<2.0	2.0	9913991	<2.0	2.0	9913991
Dissolved Silver (Ag)	ug/L	1.2	<0.090	9913991	<0.090	0.090	9913991	<0.090	0.090	9913991
Dissolved Sodium (Na)	ug/L	1800000	600000	9913991	1200000	500	9913991	1200000	500	9913991
Dissolved Thallium (Tl)	ug/L	400	<0.050	9913991	<0.050	0.050	9913991	<0.050	0.050	9913991
Dissolved Uranium (U)	ug/L	330	1.8	9913991	0.28	0.10	9913991	0.26	0.10	9913991
Dissolved Vanadium (V)	ug/L	200	<0.50	9913991	<0.50	0.50	9913991	<0.50	0.50	9913991
Dissolved Zinc (Zn)	ug/L	890	<5.0	9913991	<5.0	5.0	9913991	<5.0	5.0	9913991

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
 Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition
 Non-Potable Ground Water - All Types of Property Use - Medium and Fine Textured Soil



BUREAU
VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID			AQAV55		
Sampling Date			2025/04/16		
COC Number			C#969278-03-01		
	UNITS	Criteria	DUP 250416	RDL	QC Batch
Metals					
Chromium (VI)	ug/L	110	<1.0	1.0	9914153
Mercury (Hg)	ug/L	0.1	<0.10	0.10	9914974
Dissolved Antimony (Sb)	ug/L	16000	<0.50	0.50	9913991
Dissolved Arsenic (As)	ug/L	1500	<1.0	1.0	9913991
Dissolved Barium (Ba)	ug/L	23000	290	2.0	9913991
Dissolved Beryllium (Be)	ug/L	53	<0.40	0.40	9913991
Dissolved Boron (B)	ug/L	36000	220	10	9913991
Dissolved Cadmium (Cd)	ug/L	2.1	<0.090	0.090	9913991
Dissolved Chromium (Cr)	ug/L	640	<5.0	5.0	9913991
Dissolved Cobalt (Co)	ug/L	52	0.99	0.50	9913991
Dissolved Copper (Cu)	ug/L	69	0.97	0.90	9913991
Dissolved Lead (Pb)	ug/L	20	<0.50	0.50	9913991
Dissolved Molybdenum (Mo)	ug/L	7300	3.3	0.50	9913991
Dissolved Nickel (Ni)	ug/L	390	8.8	1.0	9913991
Dissolved Selenium (Se)	ug/L	50	<2.0	2.0	9913991
Dissolved Silver (Ag)	ug/L	1.2	<0.090	0.090	9913991
Dissolved Sodium (Na)	ug/L	1800000	1700000	500	9913991
Dissolved Thallium (Tl)	ug/L	400	0.54	0.050	9913991
Dissolved Uranium (U)	ug/L	330	1.5	0.10	9913991
Dissolved Vanadium (V)	ug/L	200	<0.50	0.50	9913991
Dissolved Zinc (Zn)	ug/L	890	<5.0	5.0	9913991
No Fill	No Exceedance				
Grey	Exceeds 1 criteria policy/level				
Black	Exceeds both criteria/levels				
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)					
Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition					
Non-Potable Ground Water - All Types of Property Use - Medium and Fine Textured Soil					



BUREAU
VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID			AQAV50	AQAV52	AQAV53		AQAV55		
Sampling Date			2025/04/16 15:00	2025/04/17 10:30	2025/04/17 12:00		2025/04/16		
COC Number			C#969278-03-01	C#969278-03-01	C#969278-03-01		C#969278-03-01		
	UNITS	Criteria	MW25-2A	MW25-1A	MW25-4A	QC Batch	DUP 250416	RDL	QC Batch

Calculated Parameters

Methylnaphthalene, 2-(1-)	ug/L	-	<0.071	<0.071	<0.071	9912505	<0.071	0.071	9912505
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Polyaromatic Hydrocarbons

Acenaphthene	ug/L	17	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Acenaphthylene	ug/L	1	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Anthracene	ug/L	1	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Benzo(a)anthracene	ug/L	1.8	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Benzo(a)pyrene	ug/L	0.81	<0.0090	<0.0090	<0.0090	9914328	<0.0090	0.0090	9916094
Benzo(b,j)fluoranthene	ug/L	0.75	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Benzo(g,h,i)perylene	ug/L	0.2	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Benzo(k)fluoranthene	ug/L	0.4	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Chrysene	ug/L	0.7	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Dibenzo(a,h)anthracene	ug/L	0.4	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Fluoranthene	ug/L	44	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Fluorene	ug/L	290	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Indeno(1,2,3-cd)pyrene	ug/L	0.2	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
1-Methylnaphthalene	ug/L	1500	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
2-Methylnaphthalene	ug/L	1500	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Naphthalene	ug/L	7	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Phenanthrene	ug/L	380	<0.030	<0.030	<0.030	9914328	<0.030	0.030	9916094
Pyrene	ug/L	5.7	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094

Surrogate Recovery (%)

D10-Anthracene	%	-	102	107	110	9914328	106		9916094
D14-Terphenyl (FS)	%	-	48 (1)	99	114	9914328	98		9916094
D8-Acenaphthylene	%	-	89	92	93	9914328	101		9916094

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
 Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition
 Non-Potable Ground Water - All Types of Property Use - Medium and Fine Textured Soil
 (1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID			AQAV50	AQAV51	AQAV52	AQAV53		
Sampling Date			2025/04/16 15:00	2025/04/17 08:30	2025/04/17 10:30	2025/04/17 12:00		
COC Number			C#969278-03-01	C#969278-03-01	C#969278-03-01	C#969278-03-01		
	UNITS	Criteria	MW25-2A	MW25-2B	MW25-1A	MW25-4A	RDL	QC Batch

Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	0.50	9912935
Volatile Organics								
Acetone (2-Propanone)	ug/L	100000	<10	<10	<10	12	10	9913854
Benzene	ug/L	0.5	0.33	<0.17	0.57	0.91	0.17	9913854
Bromodichloromethane	ug/L	67000	<0.50	<0.50	<0.50	<0.50	0.50	9913854
Bromoform	ug/L	5	<1.0	<1.0	<1.0	<1.0	1.0	9913854
Bromomethane	ug/L	0.89	<0.50	<0.50	<0.50	<0.50	0.50	9913854
Carbon Tetrachloride	ug/L	0.2	<0.20	<0.20	<0.20	<0.20	0.20	9913854
Chlorobenzene	ug/L	140	<0.20	<0.20	<0.20	<0.20	0.20	9913854
Chloroform	ug/L	2	<0.20	<0.20	<0.20	<0.20	0.20	9913854
Dibromochloromethane	ug/L	65000	<0.50	<0.50	<0.50	<0.50	0.50	9913854
1,2-Dichlorobenzene	ug/L	150	<0.50	<0.50	<0.50	<0.50	0.50	9913854
1,3-Dichlorobenzene	ug/L	7600	<0.50	<0.50	<0.50	<0.50	0.50	9913854
1,4-Dichlorobenzene	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	0.50	9913854
Dichlorodifluoromethane (FREON 12)	ug/L	3500	<1.0	<1.0	<1.0	<1.0	1.0	9913854
1,1-Dichloroethane	ug/L	11	<0.20	<0.20	<0.20	<0.20	0.20	9913854
1,2-Dichloroethane	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	0.50	9913854
1,1-Dichloroethylene	ug/L	0.5	<0.20	<0.20	0.61	<0.20	0.20	9913854
cis-1,2-Dichloroethylene	ug/L	1.6	11	5.4	300	210	0.50	9913854
trans-1,2-Dichloroethylene	ug/L	1.6	1.1	1.1	4.5	1.5	0.50	9913854
1,2-Dichloropropane	ug/L	0.58	<0.20	<0.20	<0.20	<0.20	0.20	9913854
cis-1,3-Dichloropropene	ug/L	0.5	<0.30	<0.30	<0.30	<0.30	0.30	9913854
trans-1,3-Dichloropropene	ug/L	0.5	<0.40	<0.40	<0.40	<0.40	0.40	9913854
Ethylbenzene	ug/L	54	<0.20	<0.20	<0.20	<0.20	0.20	9913854
Ethylene Dibromide	ug/L	0.2	<0.20	<0.20	<0.20	<0.20	0.20	9913854
Hexane	ug/L	5	<1.0	<1.0	<1.0	<1.0	1.0	9913854
Methylene Chloride(Dichloromethane)	ug/L	26	<2.0	<2.0	<2.0	<2.0	2.0	9913854
Methyl Ethyl Ketone (2-Butanone)	ug/L	21000	<10	<10	<10	<10	10	9913854

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)

Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition

Non-Potable Ground Water - All Types of Property Use - Medium and Fine Textured Soil



BUREAU
VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID			AQAV50	AQAV51	AQAV52	AQAV53		
Sampling Date			2025/04/16 15:00	2025/04/17 08:30	2025/04/17 10:30	2025/04/17 12:00		
COC Number			C#969278-03-01	C#969278-03-01	C#969278-03-01	C#969278-03-01		
	UNITS	Criteria	MW25-2A	MW25-2B	MW25-1A	MW25-4A	RDL	QC Batch
Methyl Isobutyl Ketone	ug/L	5200	<5.0	<5.0	<5.0	<5.0	5.0	9913854
Methyl t-butyl ether (MTBE)	ug/L	15	<0.50	<0.50	<0.50	<0.50	0.50	9913854
Styrene	ug/L	43	<0.50	<0.50	<0.50	<0.50	0.50	9913854
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	<0.50	<0.50	<0.50	0.50	9913854
1,1,2,2-Tetrachloroethane	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	0.50	9913854
Tetrachloroethylene	ug/L	0.5	39	17	120	0.25	0.20	9913854
Toluene	ug/L	320	0.21	<0.20	0.61	0.37	0.20	9913854
1,1,1-Trichloroethane	ug/L	23	<0.20	<0.20	<0.20	<0.20	0.20	9913854
1,1,2-Trichloroethane	ug/L	0.5	<0.50	<0.50	<0.50	<0.50	0.50	9913854
Trichloroethylene	ug/L	0.5	25	5.3	98	0.51	0.20	9913854
Trichlorofluoromethane (FREON 11)	ug/L	2000	<0.50	<0.50	<0.50	<0.50	0.50	9913854
Vinyl Chloride	ug/L	0.5	0.22	<0.20	41	60	0.20	9913854
p+m-Xylene	ug/L	-	<0.20	<0.20	<0.20	<0.20	0.20	9913854
o-Xylene	ug/L	-	<0.20	<0.20	<0.20	<0.20	0.20	9913854
Total Xylenes	ug/L	72	<0.20	<0.20	<0.20	<0.20	0.20	9913854
F1 (C6-C10)	ug/L	420	<25	<25	59	<25	25	9913854
F1 (C6-C10) - BTEX	ug/L	420	<25	<25	58	<25	25	9913854
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	-	96	99	96	96		9913854
D4-1,2-Dichloroethane	%	-	116	118	113	116		9913854
D8-Toluene	%	-	85	84	85	86		9913854
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)								
Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition								
Non-Potable Ground Water - All Types of Property Use - Medium and Fine Textured Soil								



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Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID			AQAV54	AQAV55			AQAV56		
Sampling Date			2025/04/17 13:30	2025/04/16			2025/04/17		
COC Number			C#969278-03-01	C#969278-03-01			C#969278-03-01		
	UNITS	Criteria	MW25-5	DUP 250416	RDL	QC Batch	TRIP BLANK	RDL	QC Batch
Calculated Parameters									
1,3-Dichloropropene (cis+trans)	ug/L	0.5	<0.50	<0.50	0.50	9912935	<0.50	0.50	9912935
Volatile Organics									
Acetone (2-Propanone)	ug/L	100000	<10	<10	10	9913854	<10	10	9913960
Benzene	ug/L	0.5	<0.17	0.28	0.17	9913854	<0.20	0.20	9913960
Bromodichloromethane	ug/L	67000	<0.50	<0.50	0.50	9913854	<0.50	0.50	9913960
Bromoform	ug/L	5	<1.0	<1.0	1.0	9913854	<1.0	1.0	9913960
Bromomethane	ug/L	0.89	<0.50	<0.50	0.50	9913854	<0.50	0.50	9913960
Carbon Tetrachloride	ug/L	0.2	<0.20	<0.20	0.20	9913854	<0.19	0.19	9913960
Chlorobenzene	ug/L	140	<0.20	<0.20	0.20	9913854	<0.20	0.20	9913960
Chloroform	ug/L	2	<0.20	<0.20	0.20	9913854	<0.20	0.20	9913960
Dibromochloromethane	ug/L	65000	<0.50	<0.50	0.50	9913854	<0.50	0.50	9913960
1,2-Dichlorobenzene	ug/L	150	<0.50	<0.50	0.50	9913854	<0.40	0.40	9913960
1,3-Dichlorobenzene	ug/L	7600	<0.50	<0.50	0.50	9913854	<0.40	0.40	9913960
1,4-Dichlorobenzene	ug/L	0.5	<0.50	<0.50	0.50	9913854	<0.40	0.40	9913960
Dichlorodifluoromethane (FREON 12)	ug/L	3500	<1.0	<1.0	1.0	9913854	<1.0	1.0	9913960
1,1-Dichloroethane	ug/L	11	<0.20	<0.20	0.20	9913854	<0.20	0.20	9913960
1,2-Dichloroethane	ug/L	0.5	<0.50	<0.50	0.50	9913854	<0.49	0.49	9913960
1,1-Dichloroethylene	ug/L	0.5	0.62	<0.20	0.20	9913854	<0.20	0.20	9913960
cis-1,2-Dichloroethylene	ug/L	1.6	390	11	0.50	9913854	<0.50	0.50	9913960
trans-1,2-Dichloroethylene	ug/L	1.6	8.4	0.97	0.50	9913854	<0.50	0.50	9913960
1,2-Dichloropropane	ug/L	0.58	<0.20	<0.20	0.20	9913854	<0.20	0.20	9913960
cis-1,3-Dichloropropene	ug/L	0.5	<0.30	<0.30	0.30	9913854	<0.30	0.30	9913960
trans-1,3-Dichloropropene	ug/L	0.5	<0.40	<0.40	0.40	9913854	<0.40	0.40	9913960
Ethylbenzene	ug/L	54	<0.20	<0.20	0.20	9913854	<0.20	0.20	9913960
Ethylene Dibromide	ug/L	0.2	<0.20	<0.20	0.20	9913854	<0.19	0.19	9913960
Hexane	ug/L	5	<1.0	<1.0	1.0	9913854	<1.0	1.0	9913960
Methylene Chloride(Dichloromethane)	ug/L	26	<2.0	<2.0	2.0	9913854	<2.0	2.0	9913960
Methyl Ethyl Ketone (2-Butanone)	ug/L	21000	<10	<10	10	9913854	<10	10	9913960

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)

Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition

Non-Potable Ground Water - All Types of Property Use - Medium and Fine Textured Soil



BUREAU
VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID			AQAV54	AQAV55			AQAV56		
Sampling Date			2025/04/17 13:30	2025/04/16			2025/04/17		
COC Number			C#969278-03-01	C#969278-03-01			C#969278-03-01		
	UNITS	Criteria	MW25-5	DUP 250416	RDL	QC Batch	TRIP BLANK	RDL	QC Batch
Methyl Isobutyl Ketone	ug/L	5200	<5.0	<5.0	5.0	9913854	<5.0	5.0	9913960
Methyl t-butyl ether (MTBE)	ug/L	15	<0.50	<0.50	0.50	9913854	<0.50	0.50	9913960
Styrene	ug/L	43	<0.50	<0.50	0.50	9913854	<0.40	0.40	9913960
1,1,1,2-Tetrachloroethane	ug/L	1.1	<0.50	<0.50	0.50	9913854	<0.50	0.50	9913960
1,1,2,2-Tetrachloroethane	ug/L	0.5	<0.50	<0.50	0.50	9913854	<0.40	0.40	9913960
Tetrachloroethylene	ug/L	0.5	1.1	31	0.20	9913854	<0.20	0.20	9913960
Toluene	ug/L	320	<0.20	<0.20	0.20	9913854	<0.20	0.20	9913960
1,1,1-Trichloroethane	ug/L	23	<0.20	<0.20	0.20	9913854	<0.20	0.20	9913960
1,1,2-Trichloroethane	ug/L	0.5	<0.50	<0.50	0.50	9913854	<0.40	0.40	9913960
Trichloroethylene	ug/L	0.5	5.7	23	0.20	9913854	<0.20	0.20	9913960
Trichlorofluoromethane (FREON 11)	ug/L	2000	<0.50	<0.50	0.50	9913854	<0.50	0.50	9913960
Vinyl Chloride	ug/L	0.5	95	<0.20	0.20	9913854	<0.20	0.20	9913960
p+m-Xylene	ug/L	-	<0.20	<0.20	0.20	9913854	<0.20	0.20	9913960
o-Xylene	ug/L	-	<0.20	<0.20	0.20	9913854	<0.20	0.20	9913960
Total Xylenes	ug/L	72	<0.20	<0.20	0.20	9913854	<0.20	0.20	9913960
F1 (C6-C10)	ug/L	420	<25	<25	25	9913854			
F1 (C6-C10) - BTEX	ug/L	420	<25	<25	25	9913854			
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	-	97	97		9913854			
D4-1,2-Dichloroethane	%	-	114	121		9913854			
D8-Toluene	%	-	85	84		9913854			
4-Bromofluorobenzene	%	-					87		9913960
D4-1,2-Dichloroethane	%	-					112		9913960
D8-Toluene	%	-					99		9913960

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
 Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition
 Non-Potable Ground Water - All Types of Property Use - Medium and Fine Textured Soil



BUREAU
VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID			AQAV50		AQAV51		AQAV52		
Sampling Date			2025/04/16 15:00		2025/04/17 08:30		2025/04/17 10:30		
COC Number			C#969278-03-01		C#969278-03-01		C#969278-03-01		
	UNITS	Criteria	MW25-2A	QC Batch	MW25-2B	QC Batch	MW25-1A	RDL	QC Batch
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	150	<90	9914332	<90	9915515	<90	90	9914332
F3 (C16-C34 Hydrocarbons)	ug/L	500	<200	9914332	<200	9915515	<200	200	9914332
F4 (C34-C50 Hydrocarbons)	ug/L	500	<200	9914332	<200	9915515	<200	200	9914332
Reached Baseline at C50	ug/L	-	Yes	9914332	Yes	9915515	Yes		9914332
Surrogate Recovery (%)									
o-Terphenyl	%	-	93	9914332	93	9915515	93		9914332
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)									
Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition									
Non-Potable Ground Water - All Types of Property Use - Medium and Fine Textured Soil									

Bureau Veritas ID			AQAV53		AQAV54		AQAV55		
Sampling Date			2025/04/17 12:00		2025/04/17 13:30		2025/04/16		
COC Number			C#969278-03-01		C#969278-03-01		C#969278-03-01		
	UNITS	Criteria	MW25-4A	QC Batch	MW25-5	QC Batch	DUP 250416	RDL	QC Batch
F2-F4 Hydrocarbons									
F2 (C10-C16 Hydrocarbons)	ug/L	150	<90	9914332	<90	9915515	<90	90	9916104
F3 (C16-C34 Hydrocarbons)	ug/L	500	<200	9914332	<200	9915515	<200	200	9916104
F4 (C34-C50 Hydrocarbons)	ug/L	500	<200	9914332	<200	9915515	<200	200	9916104
Reached Baseline at C50	ug/L	-	Yes	9914332	Yes	9915515	Yes		9916104
Surrogate Recovery (%)									
o-Terphenyl	%	-	88	9914332	88	9915515	99		9916104
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)									
Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition									
Non-Potable Ground Water - All Types of Property Use - Medium and Fine Textured Soil									



BUREAU
VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

TEST SUMMARY

Bureau Veritas ID: AQAV50
Sample ID: MW25-2A
Matrix: Water

Collected: 2025/04/16
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9912505	N/A	2025/04/24	Automated Statchk
1,3-Dichloropropene Sum	CALC	9912935	N/A	2025/04/24	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9914237	N/A	2025/04/23	Alina Dobreanu
Chromium (VI) in Water	IC	9914153	N/A	2025/04/23	Harpuneet Kaur
Free (WAD) Cyanide	SKAL/CN	9912669	N/A	2025/04/21	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9914332	2025/04/23	2025/04/23	(Kent) Maolin Li
Mercury	CV/AA	9914974	2025/04/23	2025/04/24	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9913991	N/A	2025/04/24	Azita Fazaeli
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9914328	2025/04/23	2025/04/23	Margaret Kulczyk-Stanko
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9913854	N/A	2025/04/23	Juan Pangilinan

Bureau Veritas ID: AQAV50 Dup
Sample ID: MW25-2A
Matrix: Water

Collected: 2025/04/16
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	9914153	N/A	2025/04/23	Harpuneet Kaur

Bureau Veritas ID: AQAV51
Sample ID: MW25-2B
Matrix: Water

Collected: 2025/04/17
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9912935	N/A	2025/04/24	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9915515	2025/04/24	2025/04/24	Dennis Ngondou
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9913854	N/A	2025/04/23	Juan Pangilinan

Bureau Veritas ID: AQAV52
Sample ID: MW25-1A
Matrix: Water

Collected: 2025/04/17
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9912505	N/A	2025/04/24	Automated Statchk
1,3-Dichloropropene Sum	CALC	9912935	N/A	2025/04/24	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9914237	N/A	2025/04/23	Alina Dobreanu
Chromium (VI) in Water	IC	9914153	N/A	2025/04/23	Harpuneet Kaur
Free (WAD) Cyanide	SKAL/CN	9912669	N/A	2025/04/21	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9914332	2025/04/23	2025/04/23	(Kent) Maolin Li
Mercury	CV/AA	9914836	2025/04/23	2025/04/24	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9913991	N/A	2025/04/24	Azita Fazaeli
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9914328	2025/04/23	2025/04/23	Margaret Kulczyk-Stanko
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9913854	N/A	2025/04/23	Juan Pangilinan



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Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

TEST SUMMARY

Bureau Veritas ID: AQAV53
Sample ID: MW25-4A
Matrix: Water

Collected: 2025/04/17
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9912505	N/A	2025/04/24	Automated Statchk
1,3-Dichloropropene Sum	CALC	9912935	N/A	2025/04/24	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9914237	N/A	2025/04/23	Alina Dobreanu
Chromium (VI) in Water	IC	9914153	N/A	2025/04/23	Harpuneet Kaur
Free (WAD) Cyanide	SKAL/CN	9912669	N/A	2025/04/21	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9914332	2025/04/23	2025/04/23	(Kent) Maolin Li
Mercury	CV/AA	9914836	2025/04/23	2025/04/24	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9913991	N/A	2025/04/24	Azita Fazaeli
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9914328	2025/04/23	2025/04/23	Margaret Kulczyk-Stanko
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9913854	N/A	2025/04/23	Juan Pangilinan

Bureau Veritas ID: AQAV54
Sample ID: MW25-5
Matrix: Water

Collected: 2025/04/17
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9912935	N/A	2025/04/24	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9914237	N/A	2025/04/23	Alina Dobreanu
Chromium (VI) in Water	IC	9914153	N/A	2025/04/23	Harpuneet Kaur
Free (WAD) Cyanide	SKAL/CN	9912669	N/A	2025/04/21	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9915515	2025/04/24	2025/04/24	Dennis Ngundu
Mercury	CV/AA	9914974	2025/04/23	2025/04/24	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9913991	N/A	2025/04/24	Azita Fazaeli
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9913854	N/A	2025/04/23	Juan Pangilinan

Bureau Veritas ID: AQAV54 Dup
Sample ID: MW25-5
Matrix: Water

Collected: 2025/04/17
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	9913991	N/A	2025/04/24	Azita Fazaeli

Bureau Veritas ID: AQAV55
Sample ID: DUP 250416
Matrix: Water

Collected: 2025/04/16
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9912505	N/A	2025/04/25	Automated Statchk
1,3-Dichloropropene Sum	CALC	9912935	N/A	2025/04/24	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9914237	N/A	2025/04/23	Alina Dobreanu
Chromium (VI) in Water	IC	9914153	N/A	2025/04/23	Harpuneet Kaur
Free (WAD) Cyanide	SKAL/CN	9912669	N/A	2025/04/21	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9916104	2025/04/25	2025/04/25	Anna Stuglik-Rolland
Mercury	CV/AA	9914974	2025/04/23	2025/04/24	Maitri PATIL



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Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

TEST SUMMARY

Bureau Veritas ID: AQAV55
Sample ID: DUP 250416
Matrix: Water

Collected: 2025/04/16
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	9913991	N/A	2025/04/24	Azita Fazaeli
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9916094	2025/04/25	2025/04/25	Margaret Kulczyk-Stanko
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9913854	N/A	2025/04/23	Juan Pangilinan

Bureau Veritas ID: AQAV56
Sample ID: TRIP BLANK
Matrix: Water

Collected: 2025/04/17
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9912935	N/A	2025/04/24	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	9913960	N/A	2025/04/24	Gabriella Morrone



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	11.0°C
Package 2	11.0°C

Revised Report [2025/04/28]: Regulatory criteria added to report per client request.

Hexavalent Chromium: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9913854	4-Bromofluorobenzene	2025/04/23	105	70 - 130	104	70 - 130	99	%		
9913854	D4-1,2-Dichloroethane	2025/04/23	122	70 - 130	110	70 - 130	107	%		
9913854	D8-Toluene	2025/04/23	103	70 - 130	106	70 - 130	89	%		
9913960	4-Bromofluorobenzene	2025/04/23	94	70 - 130	91	70 - 130	89	%		
9913960	D4-1,2-Dichloroethane	2025/04/23	113	70 - 130	109	70 - 130	111	%		
9913960	D8-Toluene	2025/04/23	103	70 - 130	107	70 - 130	101	%		
9914328	D10-Anthracene	2025/04/23	109	50 - 130	111	50 - 130	118	%		
9914328	D14-Terphenyl (FS)	2025/04/23	122	50 - 130	122	50 - 130	122	%		
9914328	D8-Acenaphthylene	2025/04/23	97	50 - 130	97	50 - 130	95	%		
9914332	o-Terphenyl	2025/04/23	97	60 - 140	96	60 - 140	93	%		
9915515	o-Terphenyl	2025/04/24	93	60 - 140	90	60 - 140	94	%		
9916094	D10-Anthracene	2025/04/25	109	50 - 130	106	50 - 130	103	%		
9916094	D14-Terphenyl (FS)	2025/04/25	113	50 - 130	112	50 - 130	104	%		
9916094	D8-Acenaphthylene	2025/04/25	116	50 - 130	112	50 - 130	106	%		
9916104	o-Terphenyl	2025/04/25	105	60 - 140	105	60 - 140	103	%		
9912669	WAD Cyanide (Free)	2025/04/21	94	80 - 120	101	80 - 120	<1	ug/L	NC	20
9913854	1,1,1,2-Tetrachloroethane	2025/04/23	119	70 - 130	113	70 - 130	<0.50	ug/L	NC	30
9913854	1,1,1-Trichloroethane	2025/04/23	105	70 - 130	105	70 - 130	<0.20	ug/L	NC	30
9913854	1,1,2,2-Tetrachloroethane	2025/04/23	113	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
9913854	1,1,2-Trichloroethane	2025/04/23	111	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
9913854	1,1-Dichloroethane	2025/04/23	104	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
9913854	1,1-Dichloroethylene	2025/04/23	102	70 - 130	103	70 - 130	<0.20	ug/L	NC	30
9913854	1,2-Dichlorobenzene	2025/04/23	107	70 - 130	105	70 - 130	<0.50	ug/L	NC	30
9913854	1,2-Dichloroethane	2025/04/23	121	70 - 130	108	70 - 130	<0.50	ug/L	NC	30
9913854	1,2-Dichloropropane	2025/04/23	106	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
9913854	1,3-Dichlorobenzene	2025/04/23	102	70 - 130	104	70 - 130	<0.50	ug/L	NC	30
9913854	1,4-Dichlorobenzene	2025/04/23	106	70 - 130	110	70 - 130	<0.50	ug/L	NC	30
9913854	Acetone (2-Propanone)	2025/04/23	117	60 - 140	100	60 - 140	<10	ug/L	NC	30
9913854	Benzene	2025/04/23	101	70 - 130	99	70 - 130	<0.17	ug/L	NC	30
9913854	Bromodichloromethane	2025/04/23	113	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
9913854	Bromoform	2025/04/23	122	70 - 130	106	70 - 130	<1.0	ug/L	NC	30



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9913854	Bromomethane	2025/04/23	122	60 - 140	113	60 - 140	<0.50	ug/L	NC	30
9913854	Carbon Tetrachloride	2025/04/23	114	70 - 130	113	70 - 130	<0.20	ug/L	NC	30
9913854	Chlorobenzene	2025/04/23	94	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
9913854	Chloroform	2025/04/23	113	70 - 130	105	70 - 130	<0.20	ug/L	NC	30
9913854	cis-1,2-Dichloroethylene	2025/04/23	113	70 - 130	106	70 - 130	<0.50	ug/L	NC	30
9913854	cis-1,3-Dichloropropene	2025/04/23	100	70 - 130	94	70 - 130	<0.30	ug/L	NC	30
9913854	Dibromochloromethane	2025/04/23	118	70 - 130	106	70 - 130	<0.50	ug/L	NC	30
9913854	Dichlorodifluoromethane (FREON 12)	2025/04/23	120	60 - 140	122	60 - 140	<1.0	ug/L	NC	30
9913854	Ethylbenzene	2025/04/23	90	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
9913854	Ethylene Dibromide	2025/04/23	112	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
9913854	F1 (C6-C10) - BTEX	2025/04/23					<25	ug/L	NC	30
9913854	F1 (C6-C10)	2025/04/23	95	60 - 140	95	60 - 140	<25	ug/L	NC	30
9913854	Hexane	2025/04/23	119	70 - 130	125	70 - 130	<1.0	ug/L	NC	30
9913854	Methyl Ethyl Ketone (2-Butanone)	2025/04/23	112	60 - 140	97	60 - 140	<10	ug/L	NC	30
9913854	Methyl Isobutyl Ketone	2025/04/23	113	70 - 130	101	70 - 130	<5.0	ug/L	NC	30
9913854	Methyl t-butyl ether (MTBE)	2025/04/23	101	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
9913854	Methylene Chloride(Dichloromethane)	2025/04/23	114	70 - 130	102	70 - 130	<2.0	ug/L	NC	30
9913854	o-Xylene	2025/04/23	99	70 - 130	108	70 - 130	<0.20	ug/L	NC	30
9913854	p+m-Xylene	2025/04/23	89	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
9913854	Styrene	2025/04/23	79	70 - 130	83	70 - 130	<0.50	ug/L	NC	30
9913854	Tetrachloroethylene	2025/04/23	104	70 - 130	105	70 - 130	<0.20	ug/L	NC	30
9913854	Toluene	2025/04/23	101	70 - 130	103	70 - 130	<0.20	ug/L	NC	30
9913854	Total Xylenes	2025/04/23					<0.20	ug/L	NC	30
9913854	trans-1,2-Dichloroethylene	2025/04/23	113	70 - 130	109	70 - 130	<0.50	ug/L	NC	30
9913854	trans-1,3-Dichloropropene	2025/04/23	118	70 - 130	110	70 - 130	<0.40	ug/L	NC	30
9913854	Trichloroethylene	2025/04/23	107	70 - 130	105	70 - 130	<0.20	ug/L	NC	30
9913854	Trichlorofluoromethane (FREON 11)	2025/04/23	112	70 - 130	111	70 - 130	<0.50	ug/L	NC	30
9913854	Vinyl Chloride	2025/04/23	117	70 - 130	115	70 - 130	<0.20	ug/L	NC	30
9913960	1,1,1,2-Tetrachloroethane	2025/04/23	111	70 - 130	109	70 - 130	<0.50	ug/L	NC	30
9913960	1,1,1-Trichloroethane	2025/04/23	101	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
9913960	1,1,2,2-Tetrachloroethane	2025/04/23	113	70 - 130	104	70 - 130	<0.40	ug/L	NC	30



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Bureau Veritas Job #: C543505
Report Date: 2025/04/28

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9913960	1,1,2-Trichloroethane	2025/04/23	118	70 - 130	114	70 - 130	<0.40	ug/L	NC	30
9913960	1,1-Dichloroethane	2025/04/23	109	70 - 130	107	70 - 130	<0.20	ug/L	NC	30
9913960	1,1-Dichloroethylene	2025/04/23	112	70 - 130	111	70 - 130	<0.20	ug/L	NC	30
9913960	1,2-Dichlorobenzene	2025/04/23	105	70 - 130	104	70 - 130	<0.40	ug/L	NC	30
9913960	1,2-Dichloroethane	2025/04/23	119	70 - 130	113	70 - 130	<0.49	ug/L	NC	30
9913960	1,2-Dichloropropane	2025/04/23	113	70 - 130	109	70 - 130	<0.20	ug/L	NC	30
9913960	1,3-Dichlorobenzene	2025/04/23	101	70 - 130	102	70 - 130	<0.40	ug/L	NC	30
9913960	1,4-Dichlorobenzene	2025/04/23	99	70 - 130	101	70 - 130	<0.40	ug/L	NC	30
9913960	Acetone (2-Propanone)	2025/04/23	122	60 - 140	116	60 - 140	<10	ug/L	NC	30
9913960	Benzene	2025/04/23	110	70 - 130	107	70 - 130	<0.20	ug/L	1.3	30
9913960	Bromodichloromethane	2025/04/23	108	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
9913960	Bromoform	2025/04/23	106	70 - 130	99	70 - 130	<1.0	ug/L	NC	30
9913960	Bromomethane	2025/04/23	116	60 - 140	113	60 - 140	<0.50	ug/L	NC	30
9913960	Carbon Tetrachloride	2025/04/23	108	70 - 130	105	70 - 130	<0.19	ug/L	NC	30
9913960	Chlorobenzene	2025/04/23	97	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
9913960	Chloroform	2025/04/23	108	70 - 130	105	70 - 130	<0.20	ug/L	NC	30
9913960	cis-1,2-Dichloroethylene	2025/04/23	110	70 - 130	107	70 - 130	<0.50	ug/L	NC	30
9913960	cis-1,3-Dichloropropene	2025/04/23	95	70 - 130	92	70 - 130	<0.30	ug/L	NC	30
9913960	Dibromochloromethane	2025/04/23	108	70 - 130	106	70 - 130	<0.50	ug/L	NC	30
9913960	Dichlorodifluoromethane (FREON 12)	2025/04/23	129	60 - 140	128	60 - 140	<1.0	ug/L	NC	30
9913960	Ethylbenzene	2025/04/23	97	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
9913960	Ethylene Dibromide	2025/04/23	108	70 - 130	104	70 - 130	<0.19	ug/L	NC	30
9913960	Hexane	2025/04/23	128	70 - 130	126	70 - 130	<1.0	ug/L	NC	30
9913960	Methyl Ethyl Ketone (2-Butanone)	2025/04/23	122	60 - 140	115	60 - 140	<10	ug/L	NC	30
9913960	Methyl Isobutyl Ketone	2025/04/23	106	70 - 130	97	70 - 130	<5.0	ug/L	NC	30
9913960	Methyl t-butyl ether (MTBE)	2025/04/23	97	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
9913960	Methylene Chloride(Dichloromethane)	2025/04/23	112	70 - 130	108	70 - 130	<2.0	ug/L	NC	30
9913960	o-Xylene	2025/04/23	104	70 - 130	105	70 - 130	<0.20	ug/L	NC	30
9913960	p+m-Xylene	2025/04/23	92	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
9913960	Styrene	2025/04/23	94	70 - 130	94	70 - 130	<0.40	ug/L	NC	30
9913960	Tetrachloroethylene	2025/04/23	94	70 - 130	94	70 - 130	<0.20	ug/L	NC	30



BUREAU
VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9913960	Toluene	2025/04/23	105	70 - 130	106	70 - 130	<0.20	ug/L	NC	30
9913960	Total Xylenes	2025/04/23					<0.20	ug/L	NC	30
9913960	trans-1,2-Dichloroethylene	2025/04/23	109	70 - 130	107	70 - 130	<0.50	ug/L	NC	30
9913960	trans-1,3-Dichloropropene	2025/04/23	109	70 - 130	110	70 - 130	<0.40	ug/L	NC	30
9913960	Trichloroethylene	2025/04/23	101	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
9913960	Trichlorofluoromethane (FREON 11)	2025/04/23	112	70 - 130	109	70 - 130	<0.50	ug/L	NC	30
9913960	Vinyl Chloride	2025/04/23	131 (1)	70 - 130	129	70 - 130	<0.20	ug/L	NC	30
9913991	Dissolved Antimony (Sb)	2025/04/24	103	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
9913991	Dissolved Arsenic (As)	2025/04/24	103	80 - 120	98	80 - 120	<1.0	ug/L	NC	20
9913991	Dissolved Barium (Ba)	2025/04/24	99	80 - 120	99	80 - 120	<2.0	ug/L	1.0	20
9913991	Dissolved Beryllium (Be)	2025/04/24	100	80 - 120	99	80 - 120	<0.40	ug/L	NC	20
9913991	Dissolved Boron (B)	2025/04/24	98	80 - 120	98	80 - 120	<10	ug/L	0.043	20
9913991	Dissolved Cadmium (Cd)	2025/04/24	94	80 - 120	97	80 - 120	<0.090	ug/L	NC	20
9913991	Dissolved Chromium (Cr)	2025/04/24	101	80 - 120	96	80 - 120	<5.0	ug/L	NC	20
9913991	Dissolved Cobalt (Co)	2025/04/24	96	80 - 120	94	80 - 120	<0.50	ug/L	NC	20
9913991	Dissolved Copper (Cu)	2025/04/24	98	80 - 120	97	80 - 120	<0.90	ug/L	NC	20
9913991	Dissolved Lead (Pb)	2025/04/24	86	80 - 120	94	80 - 120	<0.50	ug/L	NC	20
9913991	Dissolved Molybdenum (Mo)	2025/04/24	108	80 - 120	97	80 - 120	<0.50	ug/L	3.4	20
9913991	Dissolved Nickel (Ni)	2025/04/24	92	80 - 120	93	80 - 120	<1.0	ug/L	NC	20
9913991	Dissolved Selenium (Se)	2025/04/24	97	80 - 120	100	80 - 120	<2.0	ug/L	NC	20
9913991	Dissolved Silver (Ag)	2025/04/24	89	80 - 120	94	80 - 120	<0.090	ug/L	NC	20
9913991	Dissolved Sodium (Na)	2025/04/24	NC	80 - 120	95	80 - 120	<100	ug/L	0.73	20
9913991	Dissolved Thallium (Tl)	2025/04/24	90	80 - 120	97	80 - 120	<0.050	ug/L	NC	20
9913991	Dissolved Uranium (U)	2025/04/24	94	80 - 120	95	80 - 120	<0.10	ug/L	6.4	20
9913991	Dissolved Vanadium (V)	2025/04/24	105	80 - 120	96	80 - 120	<0.50	ug/L	NC	20
9913991	Dissolved Zinc (Zn)	2025/04/24	88	80 - 120	96	80 - 120	<5.0	ug/L	NC	20
9914153	Chromium (VI)	2025/04/23	101	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
9914237	Dissolved Chloride (Cl-)	2025/04/23	NC	80 - 120	97	80 - 120	<1.0	mg/L	1.0	20
9914328	1-Methylnaphthalene	2025/04/23	75	50 - 130	76	50 - 130	<0.050	ug/L	5.2	30
9914328	2-Methylnaphthalene	2025/04/23	72	50 - 130	73	50 - 130	<0.050	ug/L	0.26	30
9914328	Acenaphthene	2025/04/23	84	50 - 130	88	50 - 130	<0.050	ug/L	NC	30



Bureau Veritas Job #: C543505
Report Date: 2025/04/28

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9914328	Acenaphthylene	2025/04/23	84	50 - 130	87	50 - 130	<0.050	ug/L	NC	30
9914328	Anthracene	2025/04/23	114	50 - 130	113	50 - 130	<0.050	ug/L	NC	30
9914328	Benzol(a)anthracene	2025/04/23	101	50 - 130	101	50 - 130	<0.050	ug/L	NC	30
9914328	Benzol(a)pyrene	2025/04/23	97	50 - 130	98	50 - 130	<0.0090	ug/L	NC	30
9914328	Benzol(b)/fluoranthene	2025/04/23	105	50 - 130	105	50 - 130	<0.050	ug/L	NC	30
9914328	Benzol(g,h,i)perylene	2025/04/23	106	50 - 130	105	50 - 130	<0.050	ug/L	NC	30
9914328	Benzol(k)fluoranthene	2025/04/23	100	50 - 130	100	50 - 130	<0.050	ug/L	NC	30
9914328	Chrysene	2025/04/23	105	50 - 130	105	50 - 130	<0.050	ug/L	NC	30
9914328	Dibenzol(a,h)anthracene	2025/04/23	98	50 - 130	99	50 - 130	<0.050	ug/L	NC	30
9914328	Fluoranthene	2025/04/23	115	50 - 130	114	50 - 130	<0.050	ug/L	NC	30
9914328	Fluorene	2025/04/23	97	50 - 130	97	50 - 130	<0.050	ug/L	NC	30
9914328	Indeno(1,2,3-cd)pyrene	2025/04/23	112	50 - 130	112	50 - 130	<0.050	ug/L	NC	30
9914328	Naphthalene	2025/04/23	72	50 - 130	74	50 - 130	<0.050	ug/L	NC	30
9914328	Phenanthrene	2025/04/23	102	50 - 130	102	50 - 130	<0.030	ug/L	NC	30
9914328	Pyrene	2025/04/23	116	50 - 130	115	50 - 130	<0.050	ug/L	NC	30
9914332	F2 (C10-C16 Hydrocarbons)	2025/04/23	95	60 - 140	93	60 - 140	<90	ug/L	NC	30
9914332	F3 (C16-C34 Hydrocarbons)	2025/04/23	103	60 - 140	102	60 - 140	<200	ug/L	NC	30
9914332	F4 (C34-C50 Hydrocarbons)	2025/04/23	91	60 - 140	92	60 - 140	<200	ug/L	NC	30
9914836	Mercury (Hg)	2025/04/24	96	75 - 125	97	80 - 120	<0.10	ug/L	NC	20
9914974	Mercury (Hg)	2025/04/24	98	75 - 125	98	80 - 120	<0.10	ug/L	NC	20
9915515	F2 (C10-C16 Hydrocarbons)	2025/04/24	119	60 - 140	97	60 - 140	<90	ug/L	21	30
9915515	F3 (C16-C34 Hydrocarbons)	2025/04/24	130	60 - 140	106	60 - 140	<200	ug/L	9.9	30
9915515	F4 (C34-C50 Hydrocarbons)	2025/04/24	126	60 - 140	103	60 - 140	<200	ug/L	8.7	30
9916094	1-Methylnaphthalene	2025/04/25	83	50 - 130	75	50 - 130	<0.050	ug/L	NC	30
9916094	2-Methylnaphthalene	2025/04/25	82	50 - 130	73	50 - 130	<0.050	ug/L	NC	30
9916094	Acenaphthene	2025/04/25	102	50 - 130	93	50 - 130	<0.050	ug/L	NC	30
9916094	Acenaphthylene	2025/04/25	103	50 - 130	96	50 - 130	<0.050	ug/L	NC	30
9916094	Anthracene	2025/04/25	119	50 - 130	116	50 - 130	<0.050	ug/L	NC	30
9916094	Benzol(a)anthracene	2025/04/25	123	50 - 130	120	50 - 130	<0.050	ug/L	NC	30
9916094	Benzol(a)pyrene	2025/04/25	121	50 - 130	118	50 - 130	<0.0090	ug/L	NC	30
9916094	Benzol(b)/fluoranthene	2025/04/25	118	50 - 130	116	50 - 130	<0.050	ug/L	NC	30



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9916094	Benzol(g,h,i)perylene	2025/04/25	107	50 - 130	103	50 - 130	<0.050	ug/L	NC	30
9916094	Benzol(k)fluoranthene	2025/04/25	121	50 - 130	120	50 - 130	<0.050	ug/L	NC	30
9916094	Chrysene	2025/04/25	118	50 - 130	118	50 - 130	<0.050	ug/L	NC	30
9916094	Dibenzo(a,h)anthracene	2025/04/25	101	50 - 130	102	50 - 130	<0.050	ug/L	NC	30
9916094	Fluoranthene	2025/04/25	124	50 - 130	121	50 - 130	<0.050	ug/L	NC	30
9916094	Fluorene	2025/04/25	110	50 - 130	104	50 - 130	<0.050	ug/L	NC	30
9916094	Indeno(1,2,3-cd)pyrene	2025/04/25	109	50 - 130	108	50 - 130	<0.050	ug/L	NC	30
9916094	Naphthalene	2025/04/25	78	50 - 130	74	50 - 130	<0.050	ug/L	NC	30
9916094	Phenanthrene	2025/04/25	112	50 - 130	110	50 - 130	<0.030	ug/L	NC	30
9916094	Pyrene	2025/04/25	124	50 - 130	121	50 - 130	<0.050	ug/L	NC	30
9916104	F2 (C10-C16 Hydrocarbons)	2025/04/25	100	60 - 140	101	60 - 140	<90	ug/L	NC	30
9916104	F3 (C16-C34 Hydrocarbons)	2025/04/25	110	60 - 140	113	60 - 140	<200	ug/L	NC	30
9916104	F4 (C34-C50 Hydrocarbons)	2025/04/25	99	60 - 140	102	60 - 140	<200	ug/L	NC	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) The recovery was above the upper control limit. This may represent a high bias in some results for this specific analyte. For results that were not detected (ND), this potential bias has no impact.



BUREAU
VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE. NORTH
Sampler Initials: ZB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Your Project #: 02103035.000
 Site Location: 424 CHURCHILL
 Your C.O.C. #: C#1042183-01-01

Attention: Aqsa Gatchalian

Englobe Corp.
 Ottawa - Standing Offer
 2713 Lancaster Road
 Unit 101
 Ottawa, ON
 CANADA K1B 5R6

Report Date: 2025/04/29
 Report #: R8528865
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C545404

Received: 2025/04/23, 16:10

Sample Matrix: Ground Water
 # Samples Received: 3

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Methylnaphthalene Sum (1)	2	N/A	2025/04/28	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	3	N/A	2025/04/29		EPA 8260C m
Chloride by Automated Colourimetry (1)	1	N/A	2025/04/29	CAM SOP-00463	SM 24 4500-Cl E m
Chromium (VI) in Water (1)	1	N/A	2025/04/25	CAM SOP-00436	EPA 7199 m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	2	2025/04/27	2025/04/27	CAM SOP-00316	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	1	2025/04/28	2025/04/28	CAM SOP-00316	CCME PHC-CWS m
Mercury (1)	1	2025/04/28	2025/04/28	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS (1)	1	N/A	2025/04/29	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM) (1)	2	2025/04/27	2025/04/27	CAM SOP-00318	EPA 8270E
Volatile Organic Compounds and F1 PHCs (1)	3	N/A	2025/04/29	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

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Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.



Your Project #: 02103035.000
Site Location: 424 CHURCHILL
Your C.O.C. #: C#1042183-01-01

Attention: Aqsa Gatchalian

Englobe Corp.
Ottawa - Standing Offer
2713 Lancaster Road
Unit 101
Ottawa, ON
CANADA K1B 5R6

Report Date: 2025/04/29
Report #: R8528865
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C545404

Received: 2025/04/23, 16:10

- (1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8
- (2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Katherine Szozda, Project Manager
Email: Katherine.Szozda@bureauveritas.com
Phone# (613)274-0573 Ext:7063633

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



BUREAU
VERITAS

Bureau Veritas Job #: C545404
Report Date: 2025/04/29

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL
Sampler Initials: ZB

O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID		AQEP98			AQEP98		
Sampling Date		2025/04/23 12:00			2025/04/23 12:00		
COC Number		C#1042183-01-01			C#1042183-01-01		
	UNITS	MW25-3	RDL	QC Batch	MW25-3 Lab-Dup	RDL	QC Batch
Inorganics							
Dissolved Chloride (Cl-)	mg/L	1100	20	9916797			
Metals							
Chromium (VI)	ug/L	<0.50	0.50	9916780			
Mercury (Hg)	ug/L	<0.10	0.10	9917527			
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	9916335	<0.50	0.50	9916335
Dissolved Arsenic (As)	ug/L	<1.0	1.0	9916335	<1.0	1.0	9916335
Dissolved Barium (Ba)	ug/L	160	2.0	9916335	160	2.0	9916335
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	9916335	<0.40	0.40	9916335
Dissolved Boron (B)	ug/L	1000	10	9916335	1000	10	9916335
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	9916335	<0.090	0.090	9916335
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	9916335	<5.0	5.0	9916335
Dissolved Cobalt (Co)	ug/L	1.9	0.50	9916335	2.0	0.50	9916335
Dissolved Copper (Cu)	ug/L	1.1	0.90	9916335	1.1	0.90	9916335
Dissolved Lead (Pb)	ug/L	<0.50	0.50	9916335	<0.50	0.50	9916335
Dissolved Molybdenum (Mo)	ug/L	6.8	0.50	9916335	6.7	0.50	9916335
Dissolved Nickel (Ni)	ug/L	11	1.0	9916335	10	1.0	9916335
Dissolved Selenium (Se)	ug/L	<2.0	2.0	9916335	<2.0	2.0	9916335
Dissolved Silver (Ag)	ug/L	<0.090	0.090	9916335	<0.090	0.090	9916335
Dissolved Sodium (Na)	ug/L	700000	500	9916335	680000	500	9916335
Dissolved Thallium (Tl)	ug/L	0.56	0.050	9916335	0.54	0.050	9916335
Dissolved Uranium (U)	ug/L	1.8	0.10	9916335	1.8	0.10	9916335
Dissolved Vanadium (V)	ug/L	<0.50	0.50	9916335	<0.50	0.50	9916335
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	9916335	<5.0	5.0	9916335
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
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Bureau Veritas Job #: C545404
Report Date: 2025/04/29

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL
Sampler Initials: ZB

O.REG 153 PAHS (GROUND WATER)

Bureau Veritas ID		AQEP96	AQEP98		
Sampling Date		2025/04/21 14:00	2025/04/23 12:00		
COC Number		C#1042183-01-01	C#1042183-01-01		
	UNITS	MW25-1B	MW25-3	RDL	QC Batch
Calculated Parameters					
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	0.071	9915655
Polyaromatic Hydrocarbons					
Acenaphthene	ug/L	<0.050	<0.050	0.050	9917174
Acenaphthylene	ug/L	<0.050	<0.050	0.050	9917174
Anthracene	ug/L	<0.050	<0.050	0.050	9917174
Benzo(a)anthracene	ug/L	<0.050	<0.050	0.050	9917174
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	0.0090	9917174
Benzo(b/j)fluoranthene	ug/L	<0.050	<0.050	0.050	9917174
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	0.050	9917174
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	0.050	9917174
Chrysene	ug/L	<0.050	<0.050	0.050	9917174
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	0.050	9917174
Fluoranthene	ug/L	<0.050	<0.050	0.050	9917174
Fluorene	ug/L	<0.050	<0.050	0.050	9917174
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	0.050	9917174
1-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	9917174
2-Methylnaphthalene	ug/L	<0.050	<0.050	0.050	9917174
Naphthalene	ug/L	<0.050	<0.050	0.050	9917174
Phenanthrene	ug/L	<0.030	<0.030	0.030	9917174
Pyrene	ug/L	<0.050	<0.050	0.050	9917174
Surrogate Recovery (%)					
D10-Anthracene	%	91	90		9917174
D14-Terphenyl (FS)	%	85	75		9917174
D8-Acenaphthylene	%	106	106		9917174
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C545404
Report Date: 2025/04/29

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL
Sampler Initials: ZB

O.REG 153 VOCs BY HS & F1-F4 (GROUND WATER)

Bureau Veritas ID		AQEP96		AQEP97		AQEP98		
Sampling Date		2025/04/21 14:00		2025/04/21 16:30		2025/04/23 12:00		
COC Number		C#1042183-01-01		C#1042183-01-01		C#1042183-01-01		
	UNITS	MW25-1B	QC Batch	MW25-4B	QC Batch	MW25-3	RDL	QC Batch

Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	9915443	<0.50	9915443	<0.50	0.50	9915443
Volatile Organics								
Acetone (2-Propanone)	ug/L	<10	9916501	<10	9916501	<10	10	9916501
Benzene	ug/L	<0.17	9916501	0.65	9916501	<0.17	0.17	9916501
Bromodichloromethane	ug/L	<0.50	9916501	<0.50	9916501	<0.50	0.50	9916501
Bromoform	ug/L	<1.0	9916501	<1.0	9916501	<1.0	1.0	9916501
Bromomethane	ug/L	<0.50	9916501	<0.50	9916501	<0.50	0.50	9916501
Carbon Tetrachloride	ug/L	<0.20	9916501	<0.20	9916501	<0.20	0.20	9916501
Chlorobenzene	ug/L	<0.20	9916501	<0.20	9916501	<0.20	0.20	9916501
Chloroform	ug/L	<0.20	9916501	<0.20	9916501	<0.20	0.20	9916501
Dibromochloromethane	ug/L	<0.50	9916501	<0.50	9916501	<0.50	0.50	9916501
1,2-Dichlorobenzene	ug/L	<0.50	9916501	<0.50	9916501	<0.50	0.50	9916501
1,3-Dichlorobenzene	ug/L	<0.50	9916501	<0.50	9916501	<0.50	0.50	9916501
1,4-Dichlorobenzene	ug/L	<0.50	9916501	<0.50	9916501	<0.50	0.50	9916501
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	9916501	<1.0	9916501	<1.0	1.0	9916501
1,1-Dichloroethane	ug/L	<0.20	9916501	<0.20	9916501	<0.20	0.20	9916501
1,2-Dichloroethane	ug/L	<0.50	9916501	<0.50	9916501	<0.50	0.50	9916501
1,1-Dichloroethylene	ug/L	<0.20	9916501	<0.20	9916501	<0.20	0.20	9916501
cis-1,2-Dichloroethylene	ug/L	50	9916501	24	9916501	<0.50	0.50	9916501
trans-1,2-Dichloroethylene	ug/L	0.93	9916501	<0.50	9916501	<0.50	0.50	9916501
1,2-Dichloropropane	ug/L	<0.20	9916501	<0.20	9916501	<0.20	0.20	9916501
cis-1,3-Dichloropropene	ug/L	<0.30	9916501	<0.30	9916501	<0.30	0.30	9916501
trans-1,3-Dichloropropene	ug/L	<0.40	9916501	<0.40	9916501	<0.40	0.40	9916501
Ethylbenzene	ug/L	<0.20	9916501	<0.20	9916501	<0.20	0.20	9916501
Ethylene Dibromide	ug/L	<0.20	9916501	<0.20	9916501	<0.20	0.20	9916501
Hexane	ug/L	<1.0	9916501	<1.0	9916501	<1.0	1.0	9916501
Methylene Chloride(Dichloromethane)	ug/L	<2.0	9916501	<2.0	9916501	<2.0	2.0	9916501
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	9916501	<10	9916501	<10	10	9916501
Methyl Isobutyl Ketone	ug/L	<5.0	9916501	<5.0	9916501	<5.0	5.0	9916501
Methyl t-butyl ether (MTBE)	ug/L	<0.50	9916501	<0.50	9916501	<0.50	0.50	9916501
Styrene	ug/L	<0.50	9916501	<0.50	9916501	<0.50	0.50	9916501

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C545404
Report Date: 2025/04/29

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL
Sampler Initials: ZB

O.REG 153 VOCs BY HS & F1-F4 (GROUND WATER)

Bureau Veritas ID		AQEP96		AQEP97		AQEP98		
Sampling Date		2025/04/21 14:00		2025/04/21 16:30		2025/04/23 12:00		
COC Number		C#1042183-01-01		C#1042183-01-01		C#1042183-01-01		
	UNITS	MW25-1B	QC Batch	MW25-4B	QC Batch	MW25-3	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/L	<0.50	9916501	<0.50	9916501	<0.50	0.50	9916501
1,1,2,2-Tetrachloroethane	ug/L	<0.50	9916501	<0.50	9916501	<0.50	0.50	9916501
Tetrachloroethylene	ug/L	2.2	9916501	<0.20	9916501	0.23	0.20	9916501
Toluene	ug/L	<0.20	9916501	0.25	9916501	<0.20	0.20	9916501
1,1,1-Trichloroethane	ug/L	<0.20	9916501	<0.20	9916501	<0.20	0.20	9916501
1,1,2-Trichloroethane	ug/L	<0.50	9916501	<0.50	9916501	<0.50	0.50	9916501
Trichloroethylene	ug/L	4.9	9916501	0.47	9916501	<0.20	0.20	9916501
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	9916501	<0.50	9916501	<0.50	0.50	9916501
Vinyl Chloride	ug/L	0.70	9916501	5.0	9916501	<0.20	0.20	9916501
p+m-Xylene	ug/L	<0.20	9916501	<0.20	9916501	<0.20	0.20	9916501
o-Xylene	ug/L	<0.20	9916501	<0.20	9916501	<0.20	0.20	9916501
Total Xylenes	ug/L	<0.20	9916501	<0.20	9916501	<0.20	0.20	9916501
F1 (C6-C10)	ug/L	<25	9916501	<25	9916501	<25	25	9916501
F1 (C6-C10) - BTEX	ug/L	<25	9916501	<25	9916501	<25	25	9916501
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<90	9917175	<90	9917232	<90	90	9917175
F3 (C16-C34 Hydrocarbons)	ug/L	<200	9917175	<200	9917232	<200	200	9917175
F4 (C34-C50 Hydrocarbons)	ug/L	<200	9917175	<200	9917232	<200	200	9917175
Reached Baseline at C50	ug/L	Yes	9917175	Yes	9917232	Yes		9917175
Surrogate Recovery (%)								
o-Terphenyl	%	95	9917175	99	9917232	87		9917175
4-Bromofluorobenzene	%	101	9916501	99	9916501	101		9916501
D4-1,2-Dichloroethane	%	103	9916501	98	9916501	103		9916501
D8-Toluene	%	89	9916501	90	9916501	90		9916501
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								



BUREAU
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Bureau Veritas Job #: C545404
Report Date: 2025/04/29

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL
Sampler Initials: ZB

TEST SUMMARY

Bureau Veritas ID: AQEP96
Sample ID: MW25-1B
Matrix: Ground Water

Collected: 2025/04/21
Shipped:
Received: 2025/04/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9915655	N/A	2025/04/28	Automated Statchk
1,3-Dichloropropene Sum	CALC	9915443	N/A	2025/04/29	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9917175	2025/04/27	2025/04/27	Agnieszka Brzuzy-Snopko
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9917174	2025/04/27	2025/04/27	Jett Wu
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9916501	N/A	2025/04/29	Xueming Jiang

Bureau Veritas ID: AQEP97
Sample ID: MW25-4B
Matrix: Ground Water

Collected: 2025/04/21
Shipped:
Received: 2025/04/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9915443	N/A	2025/04/29	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9917232	2025/04/28	2025/04/28	Anna Stuglik-Rolland
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9916501	N/A	2025/04/29	Xueming Jiang

Bureau Veritas ID: AQEP98
Sample ID: MW25-3
Matrix: Ground Water

Collected: 2025/04/23
Shipped:
Received: 2025/04/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9915655	N/A	2025/04/28	Automated Statchk
1,3-Dichloropropene Sum	CALC	9915443	N/A	2025/04/29	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9916797	N/A	2025/04/29	Alina Dobreanu
Chromium (VI) in Water	IC	9916780	N/A	2025/04/25	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9917175	2025/04/27	2025/04/27	Agnieszka Brzuzy-Snopko
Mercury	CV/AA	9917527	2025/04/28	2025/04/28	Aswathy Neduveli Suresh
Dissolved Metals by ICPMS	ICP/MS	9916335	N/A	2025/04/29	Prempal Bhatti
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9917174	2025/04/27	2025/04/27	Jett Wu
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9916501	N/A	2025/04/29	Xueming Jiang

Bureau Veritas ID: AQEP98 Dup
Sample ID: MW25-3
Matrix: Ground Water

Collected: 2025/04/23
Shipped:
Received: 2025/04/23

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	9916335	N/A	2025/04/29	Prempal Bhatti



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Bureau Veritas Job #: C545404
Report Date: 2025/04/29

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL
Sampler Initials: ZB

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	6.0°C
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Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C545404
Report Date: 2025/04/29

QUALITY ASSURANCE REPORT

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL
Sampler Initials: ZB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9916501	4-Bromofluorobenzene	2025/04/29	107	70 - 130	101	70 - 130	103	%		
9916501	D4-1,2-Dichloroethane	2025/04/29	81	70 - 130	95	70 - 130	98	%		
9916501	D8-Toluene	2025/04/29	107	70 - 130	102	70 - 130	91	%		
9917174	D10-Anthracene	2025/04/27	91	50 - 130	94	50 - 130	92	%		
9917174	D14-Terphenyl (FS)	2025/04/27	93	50 - 130	99	50 - 130	97	%		
9917174	D8-Acenaphthylene	2025/04/27	111	50 - 130	113	50 - 130	107	%		
9917175	o-Terphenyl	2025/04/27	99	60 - 140	105	60 - 140	105	%		
9917232	o-Terphenyl	2025/04/28	106	60 - 140	108	60 - 140	109	%		
9916335	Dissolved Antimony (Sb)	2025/04/29	112	80 - 120	99	80 - 120	<0.50	ug/L	NC	20
9916335	Dissolved Arsenic (As)	2025/04/29	115	80 - 120	101	80 - 120	<1.0	ug/L	NC	20
9916335	Dissolved Barium (Ba)	2025/04/29	81	80 - 120	100	80 - 120	<2.0	ug/L	0.85	20
9916335	Dissolved Beryllium (Be)	2025/04/29	107	80 - 120	96	80 - 120	<0.40	ug/L	NC	20
9916335	Dissolved Boron (B)	2025/04/29	NC	80 - 120	95	80 - 120	<10	ug/L	1.5	20
9916335	Dissolved Cadmium (Cd)	2025/04/29	112	80 - 120	99	80 - 120	<0.090	ug/L	NC	20
9916335	Dissolved Chromium (Cr)	2025/04/29	116	80 - 120	102	80 - 120	<5.0	ug/L	NC	20
9916335	Dissolved Cobalt (Co)	2025/04/29	114	80 - 120	101	80 - 120	<0.50	ug/L	2.9	20
9916335	Dissolved Copper (Cu)	2025/04/29	115	80 - 120	101	80 - 120	<0.90	ug/L	2.2	20
9916335	Dissolved Lead (Pb)	2025/04/29	112	80 - 120	99	80 - 120	<0.50	ug/L	NC	20
9916335	Dissolved Molybdenum (Mo)	2025/04/29	111	80 - 120	101	80 - 120	<0.50	ug/L	1.8	20
9916335	Dissolved Nickel (Ni)	2025/04/29	111	80 - 120	99	80 - 120	<1.0	ug/L	1.8	20
9916335	Dissolved Selenium (Se)	2025/04/29	115	80 - 120	105	80 - 120	<2.0	ug/L	NC	20
9916335	Dissolved Silver (Ag)	2025/04/29	109	80 - 120	98	80 - 120	<0.090	ug/L	NC	20
9916335	Dissolved Sodium (Na)	2025/04/29	NC	80 - 120	104	80 - 120	<100	ug/L	2.1	20
9916335	Dissolved Thallium (Tl)	2025/04/29	115	80 - 120	100	80 - 120	<0.050	ug/L	3.1	20
9916335	Dissolved Uranium (U)	2025/04/29	111	80 - 120	100	80 - 120	<0.10	ug/L	1.2	20
9916335	Dissolved Vanadium (V)	2025/04/29	117	80 - 120	102	80 - 120	<0.50	ug/L	NC	20
9916335	Dissolved Zinc (Zn)	2025/04/29	113	80 - 120	101	80 - 120	<5.0	ug/L	NC	20
9916501	1,1,1,2-Tetrachloroethane	2025/04/29	105	70 - 130	106	70 - 130	<0.50	ug/L	NC	30
9916501	1,1,1-Trichloroethane	2025/04/29	108	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
9916501	1,1,2,2-Tetrachloroethane	2025/04/29	71	70 - 130	92	70 - 130	<0.50	ug/L	NC	30
9916501	1,1,2-Trichloroethane	2025/04/29	83	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
9916501	1,1-Dichloroethane	2025/04/29	93	70 - 130	94	70 - 130	<0.20	ug/L	NC	30



Bureau Veritas Job #: CS45404
Report Date: 2025/04/29

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL
Sampler Initials: ZB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9916501	1,1-Dichloroethylene	2025/04/29	112	70 - 130	101	70 - 130	<0.20	ug/L	NC	30
9916501	1,2-Dichlorobenzene	2025/04/29	94	70 - 130	106	70 - 130	<0.50	ug/L	NC	30
9916501	1,2-Dichloroethane	2025/04/29	88	70 - 130	105	70 - 130	<0.50	ug/L	NC	30
9916501	1,2-Dichloropropane	2025/04/29	87	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
9916501	1,3-Dichlorobenzene	2025/04/29	104	70 - 130	107	70 - 130	<0.50	ug/L	NC	30
9916501	1,4-Dichlorobenzene	2025/04/29	100	70 - 130	106	70 - 130	<0.50	ug/L	NC	30
9916501	Acetone (2-Propanone)	2025/04/29	74	60 - 140	105	60 - 140	<10	ug/L	NC	30
9916501	Benzene	2025/04/29	98	70 - 130	101	70 - 130	<0.17	ug/L	NC	30
9916501	Bromodichloromethane	2025/04/29	89	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
9916501	Bromoform	2025/04/29	84	70 - 130	102	70 - 130	<1.0	ug/L	NC	30
9916501	Bromomethane	2025/04/29	92	60 - 140	89	60 - 140	<0.50	ug/L	NC	30
9916501	Carbon Tetrachloride	2025/04/29	121	70 - 130	105	70 - 130	<0.20	ug/L	NC	30
9916501	Chlorobenzene	2025/04/29	97	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
9916501	Chloroform	2025/04/29	96	70 - 130	98	70 - 130	<0.20	ug/L	0.95	30
9916501	cis-1,2-Dichloroethylene	2025/04/29	100	70 - 130	105	70 - 130	<0.50	ug/L	NC	30
9916501	cis-1,3-Dichloropropene	2025/04/29	84	70 - 130	90	70 - 130	<0.30	ug/L	NC	30
9916501	Dibromochloromethane	2025/04/29	91	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
9916501	Dichlorodifluoromethane (FREON 12)	2025/04/29	139	60 - 140	124	60 - 140	<1.0	ug/L	NC	30
9916501	Ethylbenzene	2025/04/29	115	70 - 130	106	70 - 130	<0.20	ug/L	NC	30
9916501	Ethylene Dibromide	2025/04/29	80	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
9916501	F1 (C6-C10) - BTEX	2025/04/29					<25	ug/L	NC	30
9916501	F1 (C6-C10)	2025/04/29	72	60 - 140	86	60 - 140	<25	ug/L	NC	30
9916501	Hexane	2025/04/29	119	70 - 130	114	70 - 130	<1.0	ug/L	NC	30
9916501	Methyl Ethyl Ketone (2-Butanone)	2025/04/29	60	60 - 140	93	60 - 140	<10	ug/L	NC	30
9916501	Methyl Isobutyl Ketone	2025/04/29	62 (1)	70 - 130	106	70 - 130	<5.0	ug/L	NC	30
9916501	Methyl t-butyl ether (MTBE)	2025/04/29	89	70 - 130	104	70 - 130	<0.50	ug/L	NC	30
9916501	Methylene Chloride(Dichloromethane)	2025/04/29	87	70 - 130	95	70 - 130	<2.0	ug/L	NC	30
9916501	o-Xylene	2025/04/29	114	70 - 130	112	70 - 130	<0.20	ug/L	NC	30
9916501	p+m-Xylene	2025/04/29	113	70 - 130	105	70 - 130	<0.20	ug/L	NC	30
9916501	Styrene	2025/04/29	97	70 - 130	105	70 - 130	<0.50	ug/L	NC	30
9916501	Tetrachloroethylene	2025/04/29	118	70 - 130	97	70 - 130	<0.20	ug/L	14	30
9916501	Toluene	2025/04/29	106	70 - 130	99	70 - 130	<0.20	ug/L	NC	30



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Bureau Veritas Job #: C545404
Report Date: 2025/04/29

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL
Sampler Initials: ZB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9916501	Total Xylenes	2025/04/29					<0.20	ug/L	NC	30
9916501	trans-1,2-Dichloroethylene	2025/04/29	108	70 - 130	102	70 - 130	<0.50	ug/L	NC	30
9916501	trans-1,3-Dichloropropene	2025/04/29	92	70 - 130	97	70 - 130	<0.40	ug/L	NC	30
9916501	Trichloroethylene	2025/04/29	110	70 - 130	103	70 - 130	<0.20	ug/L	NC	30
9916501	Trichlorofluoromethane (FREON 11)	2025/04/29	115	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
9916501	Vinyl Chloride	2025/04/29	109	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
9916780	Chromium (VI)	2025/04/25	102	80 - 120	100	80 - 120	<0.50	ug/L	0.61	20
9916797	Dissolved Chloride (Cl ⁻)	2025/04/29	87	80 - 120	94	80 - 120	<1.0	mg/L	10	20
9917174	1-Methylnaphthalene	2025/04/27	70	50 - 130	67	50 - 130	<0.050	ug/L	NC	30
9917174	2-Methylnaphthalene	2025/04/27	68	50 - 130	64	50 - 130	<0.050	ug/L	NC	30
9917174	Acenaphthene	2025/04/27	85	50 - 130	82	50 - 130	<0.050	ug/L	NC	30
9917174	Acenaphthylene	2025/04/27	89	50 - 130	87	50 - 130	<0.050	ug/L	NC	30
9917174	Anthracene	2025/04/27	95	50 - 130	98	50 - 130	<0.050	ug/L	NC	30
9917174	Benzo(a)anthracene	2025/04/27	97	50 - 130	101	50 - 130	<0.050	ug/L	NC	30
9917174	Benzo(a)pyrene	2025/04/27	94	50 - 130	98	50 - 130	<0.0090	ug/L	NC	30
9917174	Benzo(b,j)fluoranthene	2025/04/27	95	50 - 130	97	50 - 130	<0.050	ug/L	NC	30
9917174	Benzo(g,h,i)perylene	2025/04/27	92	50 - 130	100	50 - 130	<0.050	ug/L	NC	30
9917174	Benzo(k)fluoranthene	2025/04/27	90	50 - 130	100	50 - 130	<0.050	ug/L	NC	30
9917174	Chrysene	2025/04/27	94	50 - 130	97	50 - 130	<0.050	ug/L	NC	30
9917174	Dibenzo(a,h)anthracene	2025/04/27	94	50 - 130	105	50 - 130	<0.050	ug/L	NC	30
9917174	Fluoranthene	2025/04/27	92	50 - 130	97	50 - 130	<0.050	ug/L	NC	30
9917174	Fluorene	2025/04/27	86	50 - 130	90	50 - 130	<0.050	ug/L	NC	30
9917174	Indeno(1,2,3-cd)pyrene	2025/04/27	92	50 - 130	99	50 - 130	<0.050	ug/L	NC	30
9917174	Naphthalene	2025/04/27	68	50 - 130	71	50 - 130	<0.050	ug/L	NC	30
9917174	Phenanthrene	2025/04/27	93	50 - 130	96	50 - 130	<0.030	ug/L	NC	30
9917174	Pyrene	2025/04/27	93	50 - 130	96	50 - 130	<0.050	ug/L	NC	30
9917175	F2 (C10-C16 Hydrocarbons)	2025/04/27	99	60 - 140	104	60 - 140	<90	ug/L	NC	30
9917175	F3 (C16-C34 Hydrocarbons)	2025/04/27	106	60 - 140	113	60 - 140	<200	ug/L	NC	30
9917175	F4 (C34-C50 Hydrocarbons)	2025/04/27	100	60 - 140	105	60 - 140	<200	ug/L	NC	30
9917232	F2 (C10-C16 Hydrocarbons)	2025/04/28	112	60 - 140	112	60 - 140	<90	ug/L	NC	30
9917232	F3 (C16-C34 Hydrocarbons)	2025/04/28	122	60 - 140	123	60 - 140	<200	ug/L	NC	30
9917232	F4 (C34-C50 Hydrocarbons)	2025/04/28	109	60 - 140	108	60 - 140	<200	ug/L	NC	30



BUREAU
VERITAS

Bureau Veritas Job #: CS45404
Report Date: 2025/04/29

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL
Sampler Initials: ZB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9917527	Mercury (Hg)	2025/04/28	97	75 - 125	97	80 - 120	<0.10	ug/L	NC	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) The recovery was below the lower control limit. This may represent a low bias in some results for this specific analyte.



BUREAU
VERITAS

Bureau Veritas Job #: C545404
Report Date: 2025/04/29

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL
Sampler Initials: ZB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

A handwritten signature in cursive script that reads "Louise A. Harding".

Louise Harding, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Your Project #: 02103035
 Site Location: 424 CHURCHILL AVE.NORTH
 Your C.O.C. #: C#969278-03-01

Attention: Aqsa Gatchalian

Englobe Corp.
 Ottawa - Standing Offer
 2713 Lancaster Road
 Unit 101
 Ottawa, ON
 CANADA K1B 5R6

Report Date: 2025/04/28
 Report #: R8527405
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C543505

Received: 2025/04/17, 16:40

Sample Matrix: Water
 # Samples Received: 7

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	3	N/A	2025/04/24	CAM SOP-00301	EPA 8270D m
Methylnaphthalene Sum (1)	1	N/A	2025/04/25	CAM SOP-00301	EPA 8270D m
1,3-Dichloropropene Sum (1)	7	N/A	2025/04/24		EPA 8260C m
Chloride by Automated Colourimetry (1)	5	N/A	2025/04/23	CAM SOP-00463	SM 24 4500-Cl E m
Chromium (VI) in Water (1)	5	N/A	2025/04/23	CAM SOP-00436	EPA 7199 m
Free (WAD) Cyanide (1)	5	N/A	2025/04/21	CAM SOP-00457	OMOE E3015 m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	3	2025/04/23	2025/04/23	CAM SOP-00316	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	2	2025/04/24	2025/04/24	CAM SOP-00316	CCME PHC-CWS m
Petroleum Hydrocarbons F2-F4 in Water (1, 2)	1	2025/04/25	2025/04/25	CAM SOP-00316	CCME PHC-CWS m
Mercury (1)	5	2025/04/23	2025/04/24	CAM SOP-00453	EPA 7470A m
Dissolved Metals by ICPMS (1)	5	N/A	2025/04/24	CAM SOP-00447	EPA 6020B m
PAH Compounds in Water by GC/MS (SIM) (1)	3	2025/04/23	2025/04/23	CAM SOP-00318	EPA 8270E
PAH Compounds in Water by GC/MS (SIM) (1)	1	2025/04/25	2025/04/25	CAM SOP-00318	EPA 8270E
Volatile Organic Compounds and F1 PHCs (1)	6	N/A	2025/04/23	CAM SOP-00230	EPA 8260C m
Volatile Organic Compounds in Water (1)	1	N/A	2025/04/24	CAM SOP-00228	EPA 8260D

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.



Your Project #: 02103035
Site Location: 424 CHURCHILL AVE.NORTH
Your C.O.C. #: C#969278-03-01

Attention: Aqsa Gatchalian

Englobe Corp.
Ottawa - Standing Offer
2713 Lancaster Road
Unit 101
Ottawa, ON
CANADA K1B 5R6

Report Date: 2025/04/28
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CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C543505

Received: 2025/04/17, 16:40

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8

(2) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:

Katherine Szozda, Project Manager
Email: Katherine.Szozda@bureauveritas.com
Phone# (613)274-0573 Ext:7063633

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This report has been generated and distributed using a secure automated process.

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BUREAU
VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE.NORTH
Sampler Initials: ZB

O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID		AQAV50			AQAV50			AQAV52		
Sampling Date		2025/04/16 15:00			2025/04/16 15:00			2025/04/17 10:30		
COC Number		C#969278-03-01			C#969278-03-01			C#969278-03-01		
	UNITS	MW25-2A	RDL	QC Batch	MW25-2A Lab-Dup	RDL	QC Batch	MW25-1A	RDL	QC Batch
Inorganics										
WAD Cyanide (Free)	ug/L	<1	1	9912669				<1	1	9912669
Dissolved Chloride (Cl-)	mg/L	2800	20	9914237				2700	20	9914237
Metals										
Chromium (VI)	ug/L	<1.0	1.0	9914153	<1.0	1.0	9914153	<1.0	1.0	9914153
Mercury (Hg)	ug/L	<0.10	0.10	9914974				<0.10	0.10	9914836
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	9913991				<0.50	0.50	9913991
Dissolved Arsenic (As)	ug/L	<1.0	1.0	9913991				<1.0	1.0	9913991
Dissolved Barium (Ba)	ug/L	300	2.0	9913991				350	2.0	9913991
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	9913991				<0.40	0.40	9913991
Dissolved Boron (B)	ug/L	220	10	9913991				150	10	9913991
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	9913991				<0.090	0.090	9913991
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	9913991				<5.0	5.0	9913991
Dissolved Cobalt (Co)	ug/L	0.85	0.50	9913991				<0.50	0.50	9913991
Dissolved Copper (Cu)	ug/L	1.9	0.90	9913991				<0.90	0.90	9913991
Dissolved Lead (Pb)	ug/L	<0.50	0.50	9913991				<0.50	0.50	9913991
Dissolved Molybdenum (Mo)	ug/L	3.4	0.50	9913991				3.8	0.50	9913991
Dissolved Nickel (Ni)	ug/L	8.8	1.0	9913991				4.4	1.0	9913991
Dissolved Selenium (Se)	ug/L	<2.0	2.0	9913991				<2.0	2.0	9913991
Dissolved Silver (Ag)	ug/L	<0.090	0.090	9913991				<0.090	0.090	9913991
Dissolved Sodium (Na)	ug/L	1700000	500	9913991				1700000	500	9913991
Dissolved Thallium (Tl)	ug/L	0.59	0.050	9913991				<0.050	0.050	9913991
Dissolved Uranium (U)	ug/L	1.5	0.10	9913991				1.6	0.10	9913991
Dissolved Vanadium (V)	ug/L	<0.50	0.50	9913991				<0.50	0.50	9913991
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	9913991				<5.0	5.0	9913991
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE.NORTH
Sampler Initials: ZB

O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID		AQAV53		AQAV54			AQAV54		
Sampling Date		2025/04/17 12:00		2025/04/17 13:30			2025/04/17 13:30		
COC Number		C#969278-03-01		C#969278-03-01			C#969278-03-01		
	UNITS	MW25-4A	QC Batch	MW25-5	RDL	QC Batch	MW25-5 Lab-Dup	RDL	QC Batch

Inorganics									
WAD Cyanide (Free)	ug/L	<1	9912669	<1	1	9912669			
Dissolved Chloride (Cl-)	mg/L	790	9914237	2000	20	9914237			
Metals									
Chromium (VI)	ug/L	<1.0	9914153	<1.0	1.0	9914153			
Mercury (Hg)	ug/L	<0.10	9914836	<0.10	0.10	9914974			
Dissolved Antimony (Sb)	ug/L	<0.50	9913991	<0.50	0.50	9913991	<0.50	0.50	9913991
Dissolved Arsenic (As)	ug/L	1.7	9913991	<1.0	1.0	9913991	<1.0	1.0	9913991
Dissolved Barium (Ba)	ug/L	250	9913991	190	2.0	9913991	190	2.0	9913991
Dissolved Beryllium (Be)	ug/L	<0.40	9913991	<0.40	0.40	9913991	<0.40	0.40	9913991
Dissolved Boron (B)	ug/L	410	9913991	120	10	9913991	120	10	9913991
Dissolved Cadmium (Cd)	ug/L	<0.090	9913991	<0.090	0.090	9913991	<0.090	0.090	9913991
Dissolved Chromium (Cr)	ug/L	<5.0	9913991	<5.0	5.0	9913991	<5.0	5.0	9913991
Dissolved Cobalt (Co)	ug/L	0.52	9913991	<0.50	0.50	9913991	<0.50	0.50	9913991
Dissolved Copper (Cu)	ug/L	<0.90	9913991	<0.90	0.90	9913991	<0.90	0.90	9913991
Dissolved Lead (Pb)	ug/L	<0.50	9913991	<0.50	0.50	9913991	<0.50	0.50	9913991
Dissolved Molybdenum (Mo)	ug/L	7.8	9913991	0.76	0.50	9913991	0.78	0.50	9913991
Dissolved Nickel (Ni)	ug/L	3.2	9913991	<1.0	1.0	9913991	<1.0	1.0	9913991
Dissolved Selenium (Se)	ug/L	<2.0	9913991	<2.0	2.0	9913991	<2.0	2.0	9913991
Dissolved Silver (Ag)	ug/L	<0.090	9913991	<0.090	0.090	9913991	<0.090	0.090	9913991
Dissolved Sodium (Na)	ug/L	600000	9913991	1200000	500	9913991	1200000	500	9913991
Dissolved Thallium (Tl)	ug/L	<0.050	9913991	<0.050	0.050	9913991	<0.050	0.050	9913991
Dissolved Uranium (U)	ug/L	1.8	9913991	0.28	0.10	9913991	0.26	0.10	9913991
Dissolved Vanadium (V)	ug/L	<0.50	9913991	<0.50	0.50	9913991	<0.50	0.50	9913991
Dissolved Zinc (Zn)	ug/L	<5.0	9913991	<5.0	5.0	9913991	<5.0	5.0	9913991

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE.NORTH
Sampler Initials: ZB

O.REG 153 METALS & INORGANICS PKG (WTR)

Bureau Veritas ID		AQAV55		
Sampling Date		2025/04/16		
COC Number		C#969278-03-01		
	UNITS	DUP 250416	RDL	QC Batch

Inorganics				
WAD Cyanide (Free)	ug/L	<1	1	9912669
Dissolved Chloride (Cl-)	mg/L	2800	20	9914237
Metals				
Chromium (VI)	ug/L	<1.0	1.0	9914153
Mercury (Hg)	ug/L	<0.10	0.10	9914974
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	9913991
Dissolved Arsenic (As)	ug/L	<1.0	1.0	9913991
Dissolved Barium (Ba)	ug/L	290	2.0	9913991
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	9913991
Dissolved Boron (B)	ug/L	220	10	9913991
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	9913991
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	9913991
Dissolved Cobalt (Co)	ug/L	0.99	0.50	9913991
Dissolved Copper (Cu)	ug/L	0.97	0.90	9913991
Dissolved Lead (Pb)	ug/L	<0.50	0.50	9913991
Dissolved Molybdenum (Mo)	ug/L	3.3	0.50	9913991
Dissolved Nickel (Ni)	ug/L	8.8	1.0	9913991
Dissolved Selenium (Se)	ug/L	<2.0	2.0	9913991
Dissolved Silver (Ag)	ug/L	<0.090	0.090	9913991
Dissolved Sodium (Na)	ug/L	1700000	500	9913991
Dissolved Thallium (Tl)	ug/L	0.54	0.050	9913991
Dissolved Uranium (U)	ug/L	1.5	0.10	9913991
Dissolved Vanadium (V)	ug/L	<0.50	0.50	9913991
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	9913991
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE.NORTH
Sampler Initials: ZB

O.REG 153 PAHS (WATER)

Bureau Veritas ID		AQAV50	AQAV52	AQAV53		AQAV55		
Sampling Date		2025/04/16 15:00	2025/04/17 10:30	2025/04/17 12:00		2025/04/16		
COC Number		C#969278-03-01	C#969278-03-01	C#969278-03-01		C#969278-03-01		
	UNITS	MW25-2A	MW25-1A	MW25-4A	QC Batch	DUP 250416	RDL	QC Batch

Calculated Parameters								
Methylnaphthalene, 2-(1-)	ug/L	<0.071	<0.071	<0.071	9912505	<0.071	0.071	9912505
Polyaromatic Hydrocarbons								
Acenaphthene	ug/L	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Acenaphthylene	ug/L	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Anthracene	ug/L	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Benzo(a)anthracene	ug/L	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Benzo(a)pyrene	ug/L	<0.0090	<0.0090	<0.0090	9914328	<0.0090	0.0090	9916094
Benzo(b,j)fluoranthene	ug/L	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Benzo(g,h,i)perylene	ug/L	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Benzo(k)fluoranthene	ug/L	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Chrysene	ug/L	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Dibenzo(a,h)anthracene	ug/L	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Fluoranthene	ug/L	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Fluorene	ug/L	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
1-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
2-Methylnaphthalene	ug/L	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Naphthalene	ug/L	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Phenanthrene	ug/L	<0.030	<0.030	<0.030	9914328	<0.030	0.030	9916094
Pyrene	ug/L	<0.050	<0.050	<0.050	9914328	<0.050	0.050	9916094
Surrogate Recovery (%)								
D10-Anthracene	%	102	107	110	9914328	106		9916094
D14-Terphenyl (FS)	%	48 (1)	99	114	9914328	98		9916094
D8-Acenaphthylene	%	89	92	93	9914328	101		9916094

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE.NORTH
Sampler Initials: ZB

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		AQAV50		AQAV51		AQAV52		
Sampling Date		2025/04/16 15:00		2025/04/17 08:30		2025/04/17 10:30		
COC Number		C#969278-03-01		C#969278-03-01		C#969278-03-01		
	UNITS	MW25-2A	QC Batch	MW25-2B	QC Batch	MW25-1A	RDL	QC Batch

Calculated Parameters

1,3-Dichloropropene (cis+trans)	ug/L	<0.50	9912935	<0.50	9912935	<0.50	0.50	9912935
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Volatile Organics

Acetone (2-Propanone)	ug/L	<10	9913854	<10	9913854	<10	10	9913854
Benzene	ug/L	0.33	9913854	<0.17	9913854	0.57	0.17	9913854
Bromodichloromethane	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
Bromoform	ug/L	<1.0	9913854	<1.0	9913854	<1.0	1.0	9913854
Bromomethane	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
Carbon Tetrachloride	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
Chlorobenzene	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
Chloroform	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
Dibromochloromethane	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
1,2-Dichlorobenzene	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
1,3-Dichlorobenzene	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
1,4-Dichlorobenzene	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	9913854	<1.0	9913854	<1.0	1.0	9913854
1,1-Dichloroethane	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
1,2-Dichloroethane	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
1,1-Dichloroethylene	ug/L	<0.20	9913854	<0.20	9913854	0.61	0.20	9913854
cis-1,2-Dichloroethylene	ug/L	11	9913854	5.4	9913854	300	0.50	9913854
trans-1,2-Dichloroethylene	ug/L	1.1	9913854	1.1	9913854	4.5	0.50	9913854
1,2-Dichloropropane	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
cis-1,3-Dichloropropene	ug/L	<0.30	9913854	<0.30	9913854	<0.30	0.30	9913854
trans-1,3-Dichloropropene	ug/L	<0.40	9913854	<0.40	9913854	<0.40	0.40	9913854
Ethylbenzene	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
Ethylene Dibromide	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
Hexane	ug/L	<1.0	9913854	<1.0	9913854	<1.0	1.0	9913854
Methylene Chloride(Dichloromethane)	ug/L	<2.0	9913854	<2.0	9913854	<2.0	2.0	9913854
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	9913854	<10	9913854	<10	10	9913854
Methyl Isobutyl Ketone	ug/L	<5.0	9913854	<5.0	9913854	<5.0	5.0	9913854
Methyl t-butyl ether (MTBE)	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
Styrene	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE.NORTH
Sampler Initials: ZB

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		AQAV50		AQAV51		AQAV52		
Sampling Date		2025/04/16 15:00		2025/04/17 08:30		2025/04/17 10:30		
COC Number		C#969278-03-01		C#969278-03-01		C#969278-03-01		
	UNITS	MW25-2A	QC Batch	MW25-2B	QC Batch	MW25-1A	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
1,1,2-Tetrachloroethane	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
Tetrachloroethylene	ug/L	39	9913854	17	9913854	120	0.20	9913854
Toluene	ug/L	0.21	9913854	<0.20	9913854	0.61	0.20	9913854
1,1,1-Trichloroethane	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
1,1,2-Trichloroethane	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
Trichloroethylene	ug/L	25	9913854	5.3	9913854	98	0.20	9913854
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
Vinyl Chloride	ug/L	0.22	9913854	<0.20	9913854	41	0.20	9913854
p+m-Xylene	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
o-Xylene	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
Total Xylenes	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
F1 (C6-C10)	ug/L	<25	9913854	<25	9913854	59	25	9913854
F1 (C6-C10) - BTEX	ug/L	<25	9913854	<25	9913854	58	25	9913854
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<90	9914332	<90	9915515	<90	90	9914332
F3 (C16-C34 Hydrocarbons)	ug/L	<200	9914332	<200	9915515	<200	200	9914332
F4 (C34-C50 Hydrocarbons)	ug/L	<200	9914332	<200	9915515	<200	200	9914332
Reached Baseline at C50	ug/L	Yes	9914332	Yes	9915515	Yes		9914332
Surrogate Recovery (%)								
o-Terphenyl	%	93	9914332	93	9915515	93		9914332
4-Bromofluorobenzene	%	96	9913854	99	9913854	96		9913854
D4-1,2-Dichloroethane	%	116	9913854	118	9913854	113		9913854
D8-Toluene	%	85	9913854	84	9913854	85		9913854
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								



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Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE.NORTH
Sampler Initials: ZB

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		AQAV53		AQAV54		AQAV55		
Sampling Date		2025/04/17 12:00		2025/04/17 13:30		2025/04/16		
COC Number		C#969278-03-01		C#969278-03-01		C#969278-03-01		
	UNITS	MW25-4A	QC Batch	MW25-5	QC Batch	DUP 250416	RDL	QC Batch

Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	9912935	<0.50	9912935	<0.50	0.50	9912935
Volatile Organics								
Acetone (2-Propanone)	ug/L	12	9913854	<10	9913854	<10	10	9913854
Benzene	ug/L	0.91	9913854	<0.17	9913854	0.28	0.17	9913854
Bromodichloromethane	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
Bromoform	ug/L	<1.0	9913854	<1.0	9913854	<1.0	1.0	9913854
Bromomethane	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
Carbon Tetrachloride	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
Chlorobenzene	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
Chloroform	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
Dibromochloromethane	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
1,2-Dichlorobenzene	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
1,3-Dichlorobenzene	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
1,4-Dichlorobenzene	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	9913854	<1.0	9913854	<1.0	1.0	9913854
1,1-Dichloroethane	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
1,2-Dichloroethane	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
1,1-Dichloroethylene	ug/L	<0.20	9913854	0.62	9913854	<0.20	0.20	9913854
cis-1,2-Dichloroethylene	ug/L	210	9913854	390	9913854	11	0.50	9913854
trans-1,2-Dichloroethylene	ug/L	1.5	9913854	8.4	9913854	0.97	0.50	9913854
1,2-Dichloropropane	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
cis-1,3-Dichloropropene	ug/L	<0.30	9913854	<0.30	9913854	<0.30	0.30	9913854
trans-1,3-Dichloropropene	ug/L	<0.40	9913854	<0.40	9913854	<0.40	0.40	9913854
Ethylbenzene	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
Ethylene Dibromide	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
Hexane	ug/L	<1.0	9913854	<1.0	9913854	<1.0	1.0	9913854
Methylene Chloride(Dichloromethane)	ug/L	<2.0	9913854	<2.0	9913854	<2.0	2.0	9913854
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	9913854	<10	9913854	<10	10	9913854
Methyl Isobutyl Ketone	ug/L	<5.0	9913854	<5.0	9913854	<5.0	5.0	9913854
Methyl t-butyl ether (MTBE)	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
Styrene	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE.NORTH
Sampler Initials: ZB

O.REG 153 VOCs BY HS & F1-F4 (WATER)

Bureau Veritas ID		AQAV53		AQAV54		AQAV55		
Sampling Date		2025/04/17 12:00		2025/04/17 13:30		2025/04/16		
COC Number		C#969278-03-01		C#969278-03-01		C#969278-03-01		
	UNITS	MW25-4A	QC Batch	MW25-5	QC Batch	DUP 250416	RDL	QC Batch
1,1,1,2-Tetrachloroethane	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
1,1,2-Tetrachloroethane	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
Tetrachloroethylene	ug/L	0.25	9913854	1.1	9913854	31	0.20	9913854
Toluene	ug/L	0.37	9913854	<0.20	9913854	<0.20	0.20	9913854
1,1,1-Trichloroethane	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
1,1,2-Trichloroethane	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
Trichloroethylene	ug/L	0.51	9913854	5.7	9913854	23	0.20	9913854
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	9913854	<0.50	9913854	<0.50	0.50	9913854
Vinyl Chloride	ug/L	60	9913854	95	9913854	<0.20	0.20	9913854
p+m-Xylene	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
o-Xylene	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
Total Xylenes	ug/L	<0.20	9913854	<0.20	9913854	<0.20	0.20	9913854
F1 (C6-C10)	ug/L	<25	9913854	<25	9913854	<25	25	9913854
F1 (C6-C10) - BTEX	ug/L	<25	9913854	<25	9913854	<25	25	9913854
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<90	9914332	<90	9915515	<90	90	9916104
F3 (C16-C34 Hydrocarbons)	ug/L	<200	9914332	<200	9915515	<200	200	9916104
F4 (C34-C50 Hydrocarbons)	ug/L	<200	9914332	<200	9915515	<200	200	9916104
Reached Baseline at C50	ug/L	Yes	9914332	Yes	9915515	Yes		9916104
Surrogate Recovery (%)								
o-Terphenyl	%	88	9914332	88	9915515	99		9916104
4-Bromofluorobenzene	%	96	9913854	97	9913854	97		9913854
D4-1,2-Dichloroethane	%	116	9913854	114	9913854	121		9913854
D8-Toluene	%	86	9913854	85	9913854	84		9913854
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								



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VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE.NORTH
Sampler Initials: ZB

O.REG 153 VOCS BY HS (WATER)

Bureau Veritas ID		AQAV56		
Sampling Date		2025/04/17		
COC Number		C#969278-03-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Calculated Parameters				
1,3-Dichloropropene (cis+trans)	ug/L	<0.50	0.50	9912935
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	9913960
Benzene	ug/L	<0.20	0.20	9913960
Bromodichloromethane	ug/L	<0.50	0.50	9913960
Bromoform	ug/L	<1.0	1.0	9913960
Bromomethane	ug/L	<0.50	0.50	9913960
Carbon Tetrachloride	ug/L	<0.19	0.19	9913960
Chlorobenzene	ug/L	<0.20	0.20	9913960
Chloroform	ug/L	<0.20	0.20	9913960
Dibromochloromethane	ug/L	<0.50	0.50	9913960
1,2-Dichlorobenzene	ug/L	<0.40	0.40	9913960
1,3-Dichlorobenzene	ug/L	<0.40	0.40	9913960
1,4-Dichlorobenzene	ug/L	<0.40	0.40	9913960
Dichlorodifluoromethane (FREON 12)	ug/L	<1.0	1.0	9913960
1,1-Dichloroethane	ug/L	<0.20	0.20	9913960
1,2-Dichloroethane	ug/L	<0.49	0.49	9913960
1,1-Dichloroethylene	ug/L	<0.20	0.20	9913960
cis-1,2-Dichloroethylene	ug/L	<0.50	0.50	9913960
trans-1,2-Dichloroethylene	ug/L	<0.50	0.50	9913960
1,2-Dichloropropane	ug/L	<0.20	0.20	9913960
cis-1,3-Dichloropropene	ug/L	<0.30	0.30	9913960
trans-1,3-Dichloropropene	ug/L	<0.40	0.40	9913960
Ethylbenzene	ug/L	<0.20	0.20	9913960
Ethylene Dibromide	ug/L	<0.19	0.19	9913960
Hexane	ug/L	<1.0	1.0	9913960
Methylene Chloride(Dichloromethane)	ug/L	<2.0	2.0	9913960
Methyl Ethyl Ketone (2-Butanone)	ug/L	<10	10	9913960
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	9913960
Methyl t-butyl ether (MTBE)	ug/L	<0.50	0.50	9913960
Styrene	ug/L	<0.40	0.40	9913960
1,1,1,2-Tetrachloroethane	ug/L	<0.50	0.50	9913960
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



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VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE.NORTH
Sampler Initials: ZB

O.REG 153 VOCS BY HS (WATER)

Bureau Veritas ID		AQAV56		
Sampling Date		2025/04/17		
COC Number		C#969278-03-01		
	UNITS	TRIP BLANK	RDL	QC Batch
1,1,2,2-Tetrachloroethane	ug/L	<0.40	0.40	9913960
Tetrachloroethylene	ug/L	<0.20	0.20	9913960
Toluene	ug/L	<0.20	0.20	9913960
1,1,1-Trichloroethane	ug/L	<0.20	0.20	9913960
1,1,2-Trichloroethane	ug/L	<0.40	0.40	9913960
Trichloroethylene	ug/L	<0.20	0.20	9913960
Trichlorofluoromethane (FREON 11)	ug/L	<0.50	0.50	9913960
Vinyl Chloride	ug/L	<0.20	0.20	9913960
p+m-Xylene	ug/L	<0.20	0.20	9913960
o-Xylene	ug/L	<0.20	0.20	9913960
Total Xylenes	ug/L	<0.20	0.20	9913960
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	87		9913960
D4-1,2-Dichloroethane	%	112		9913960
D8-Toluene	%	99		9913960
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE.NORTH
Sampler Initials: ZB

TEST SUMMARY

Bureau Veritas ID: AQAV50
Sample ID: MW25-2A
Matrix: Water

Collected: 2025/04/16
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9912505	N/A	2025/04/24	Automated Statchk
1,3-Dichloropropene Sum	CALC	9912935	N/A	2025/04/24	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9914237	N/A	2025/04/23	Alina Dobreanu
Chromium (VI) in Water	IC	9914153	N/A	2025/04/23	Harpuneet Kaur
Free (WAD) Cyanide	SKAL/CN	9912669	N/A	2025/04/21	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9914332	2025/04/23	2025/04/23	(Kent) Maolin Li
Mercury	CV/AA	9914974	2025/04/23	2025/04/24	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9913991	N/A	2025/04/24	Azita Fazaeli
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9914328	2025/04/23	2025/04/23	Margaret Kulczyk-Stanko
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9913854	N/A	2025/04/23	Juan Pangilinan

Bureau Veritas ID: AQAV50 Dup
Sample ID: MW25-2A
Matrix: Water

Collected: 2025/04/16
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chromium (VI) in Water	IC	9914153	N/A	2025/04/23	Harpuneet Kaur

Bureau Veritas ID: AQAV51
Sample ID: MW25-2B
Matrix: Water

Collected: 2025/04/17
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9912935	N/A	2025/04/24	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9915515	2025/04/24	2025/04/24	Dennis Ngondou
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9913854	N/A	2025/04/23	Juan Pangilinan

Bureau Veritas ID: AQAV52
Sample ID: MW25-1A
Matrix: Water

Collected: 2025/04/17
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9912505	N/A	2025/04/24	Automated Statchk
1,3-Dichloropropene Sum	CALC	9912935	N/A	2025/04/24	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9914237	N/A	2025/04/23	Alina Dobreanu
Chromium (VI) in Water	IC	9914153	N/A	2025/04/23	Harpuneet Kaur
Free (WAD) Cyanide	SKAL/CN	9912669	N/A	2025/04/21	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9914332	2025/04/23	2025/04/23	(Kent) Maolin Li
Mercury	CV/AA	9914836	2025/04/23	2025/04/24	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9913991	N/A	2025/04/24	Azita Fazaeli
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9914328	2025/04/23	2025/04/23	Margaret Kulczyk-Stanko
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9913854	N/A	2025/04/23	Juan Pangilinan



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Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE.NORTH
Sampler Initials: ZB

TEST SUMMARY

Bureau Veritas ID: AQAV53
Sample ID: MW25-4A
Matrix: Water

Collected: 2025/04/17
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9912505	N/A	2025/04/24	Automated Statchk
1,3-Dichloropropene Sum	CALC	9912935	N/A	2025/04/24	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9914237	N/A	2025/04/23	Alina Dobreanu
Chromium (VI) in Water	IC	9914153	N/A	2025/04/23	Harpuneet Kaur
Free (WAD) Cyanide	SKAL/CN	9912669	N/A	2025/04/21	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9914332	2025/04/23	2025/04/23	(Kent) Maolin Li
Mercury	CV/AA	9914836	2025/04/23	2025/04/24	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9913991	N/A	2025/04/24	Azita Fazaeli
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9914328	2025/04/23	2025/04/23	Margaret Kulczyk-Stanko
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9913854	N/A	2025/04/23	Juan Pangilinan

Bureau Veritas ID: AQAV54
Sample ID: MW25-5
Matrix: Water

Collected: 2025/04/17
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9912935	N/A	2025/04/24	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9914237	N/A	2025/04/23	Alina Dobreanu
Chromium (VI) in Water	IC	9914153	N/A	2025/04/23	Harpuneet Kaur
Free (WAD) Cyanide	SKAL/CN	9912669	N/A	2025/04/21	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9915515	2025/04/24	2025/04/24	Dennis Ngundu
Mercury	CV/AA	9914974	2025/04/23	2025/04/24	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9913991	N/A	2025/04/24	Azita Fazaeli
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9913854	N/A	2025/04/23	Juan Pangilinan

Bureau Veritas ID: AQAV54 Dup
Sample ID: MW25-5
Matrix: Water

Collected: 2025/04/17
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	9913991	N/A	2025/04/24	Azita Fazaeli

Bureau Veritas ID: AQAV55
Sample ID: DUP 250416
Matrix: Water

Collected: 2025/04/16
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9912505	N/A	2025/04/25	Automated Statchk
1,3-Dichloropropene Sum	CALC	9912935	N/A	2025/04/24	Automated Statchk
Chloride by Automated Colourimetry	SKAL	9914237	N/A	2025/04/23	Alina Dobreanu
Chromium (VI) in Water	IC	9914153	N/A	2025/04/23	Harpuneet Kaur
Free (WAD) Cyanide	SKAL/CN	9912669	N/A	2025/04/21	Prgya Panchal
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	9916104	2025/04/25	2025/04/25	Anna Stuglik-Rolland
Mercury	CV/AA	9914974	2025/04/23	2025/04/24	Maitri PATIL
Dissolved Metals by ICPMS	ICP/MS	9913991	N/A	2025/04/24	Azita Fazaeli



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Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE.NORTH
Sampler Initials: ZB

TEST SUMMARY

Bureau Veritas ID: AQAV55
Sample ID: DUP 250416
Matrix: Water

Collected: 2025/04/16
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PAH Compounds in Water by GC/MS (SIM)	GC/MS	9916094	2025/04/25	2025/04/25	Margaret Kulczyk-Stanko
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9913854	N/A	2025/04/23	Juan Pangilinan

Bureau Veritas ID: AQAV56
Sample ID: TRIP BLANK
Matrix: Water

Collected: 2025/04/17
Shipped:
Received: 2025/04/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
1,3-Dichloropropene Sum	CALC	9912935	N/A	2025/04/24	Automated Statchk
Volatile Organic Compounds in Water	GC/MS	9913960	N/A	2025/04/24	Gabriella Morrone



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	11.0°C
Package 2	11.0°C

Hexavalent Chromium: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE NORTH
Sampler Initials: ZB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9913854	4-Bromofluorobenzene	2025/04/23	105	70 - 130	104	70 - 130	99	%		
9913854	D4-1,2-Dichloroethane	2025/04/23	122	70 - 130	110	70 - 130	107	%		
9913854	D8-Toluene	2025/04/23	103	70 - 130	106	70 - 130	89	%		
9913960	4-Bromofluorobenzene	2025/04/23	94	70 - 130	91	70 - 130	89	%		
9913960	D4-1,2-Dichloroethane	2025/04/23	113	70 - 130	109	70 - 130	111	%		
9913960	D8-Toluene	2025/04/23	103	70 - 130	107	70 - 130	101	%		
9914328	D10-Anthracene	2025/04/23	109	50 - 130	111	50 - 130	118	%		
9914328	D14-Terphenyl (FS)	2025/04/23	122	50 - 130	122	50 - 130	122	%		
9914328	D8-Acenaphthylene	2025/04/23	97	50 - 130	97	50 - 130	95	%		
9914332	o-Terphenyl	2025/04/23	97	60 - 140	96	60 - 140	93	%		
9915515	o-Terphenyl	2025/04/24	93	60 - 140	90	60 - 140	94	%		
9916094	D10-Anthracene	2025/04/25	109	50 - 130	106	50 - 130	103	%		
9916094	D14-Terphenyl (FS)	2025/04/25	113	50 - 130	112	50 - 130	104	%		
9916094	D8-Acenaphthylene	2025/04/25	116	50 - 130	112	50 - 130	106	%		
9916104	o-Terphenyl	2025/04/25	105	60 - 140	105	60 - 140	103	%		
9912669	WAD Cyanide (Free)	2025/04/21	94	80 - 120	101	80 - 120	<1	ug/L	NC	20
9913854	1,1,1,2-Tetrachloroethane	2025/04/23	119	70 - 130	113	70 - 130	<0.50	ug/L	NC	30
9913854	1,1,1-Trichloroethane	2025/04/23	105	70 - 130	105	70 - 130	<0.20	ug/L	NC	30
9913854	1,1,2,2-Tetrachloroethane	2025/04/23	113	70 - 130	99	70 - 130	<0.50	ug/L	NC	30
9913854	1,1,2-Trichloroethane	2025/04/23	111	70 - 130	100	70 - 130	<0.50	ug/L	NC	30
9913854	1,1-Dichloroethane	2025/04/23	104	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
9913854	1,1-Dichloroethylene	2025/04/23	102	70 - 130	103	70 - 130	<0.20	ug/L	NC	30
9913854	1,2-Dichlorobenzene	2025/04/23	107	70 - 130	105	70 - 130	<0.50	ug/L	NC	30
9913854	1,2-Dichloroethane	2025/04/23	121	70 - 130	108	70 - 130	<0.50	ug/L	NC	30
9913854	1,2-Dichloropropane	2025/04/23	106	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
9913854	1,3-Dichlorobenzene	2025/04/23	102	70 - 130	104	70 - 130	<0.50	ug/L	NC	30
9913854	1,4-Dichlorobenzene	2025/04/23	106	70 - 130	110	70 - 130	<0.50	ug/L	NC	30
9913854	Acetone (2-Propanone)	2025/04/23	117	60 - 140	100	60 - 140	<10	ug/L	NC	30
9913854	Benzene	2025/04/23	101	70 - 130	99	70 - 130	<0.17	ug/L	NC	30
9913854	Bromodichloromethane	2025/04/23	113	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
9913854	Bromoform	2025/04/23	122	70 - 130	106	70 - 130	<1.0	ug/L	NC	30
9913854	Bromomethane	2025/04/23	122	60 - 140	113	60 - 140	<0.50	ug/L	NC	30



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE NORTH
Sampler Initials: ZB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9913854	Carbon Tetrachloride	2025/04/23	114	70 - 130	113	70 - 130	<0.20	ug/L	NC	30
9913854	Chlorobenzene	2025/04/23	94	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
9913854	Chloroform	2025/04/23	113	70 - 130	105	70 - 130	<0.20	ug/L	NC	30
9913854	cis-1,2-Dichloroethylene	2025/04/23	113	70 - 130	106	70 - 130	<0.50	ug/L	NC	30
9913854	cis-1,3-Dichloropropene	2025/04/23	100	70 - 130	94	70 - 130	<0.30	ug/L	NC	30
9913854	Dibromochloromethane	2025/04/23	118	70 - 130	106	70 - 130	<0.50	ug/L	NC	30
9913854	Dichlorodifluoromethane (FREON 12)	2025/04/23	120	60 - 140	122	60 - 140	<1.0	ug/L	NC	30
9913854	Ethylbenzene	2025/04/23	90	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
9913854	Ethylene Dibromide	2025/04/23	112	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
9913854	F1 (C6-C10) - BTEX	2025/04/23					<25	ug/L	NC	30
9913854	F1 (C6-C10)	2025/04/23	95	60 - 140	95	60 - 140	<25	ug/L	NC	30
9913854	Hexane	2025/04/23	119	70 - 130	125	70 - 130	<1.0	ug/L	NC	30
9913854	Methyl Ethyl Ketone (2-Butanone)	2025/04/23	112	60 - 140	97	60 - 140	<10	ug/L	NC	30
9913854	Methyl Isobutyl Ketone	2025/04/23	113	70 - 130	101	70 - 130	<5.0	ug/L	NC	30
9913854	Methyl t-butyl ether (MTBE)	2025/04/23	101	70 - 130	98	70 - 130	<0.50	ug/L	NC	30
9913854	Methylene Chloride(Dichloromethane)	2025/04/23	114	70 - 130	102	70 - 130	<2.0	ug/L	NC	30
9913854	o-Xylene	2025/04/23	99	70 - 130	108	70 - 130	<0.20	ug/L	NC	30
9913854	p+m-Xylene	2025/04/23	89	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
9913854	Styrene	2025/04/23	79	70 - 130	83	70 - 130	<0.50	ug/L	NC	30
9913854	Tetrachloroethylene	2025/04/23	104	70 - 130	105	70 - 130	<0.20	ug/L	NC	30
9913854	Toluene	2025/04/23	101	70 - 130	103	70 - 130	<0.20	ug/L	NC	30
9913854	Total Xylenes	2025/04/23					<0.20	ug/L	NC	30
9913854	trans-1,2-Dichloroethylene	2025/04/23	113	70 - 130	109	70 - 130	<0.50	ug/L	NC	30
9913854	trans-1,3-Dichloropropene	2025/04/23	118	70 - 130	110	70 - 130	<0.40	ug/L	NC	30
9913854	Trichloroethylene	2025/04/23	107	70 - 130	105	70 - 130	<0.20	ug/L	NC	30
9913854	Trichlorofluoromethane (FREON 11)	2025/04/23	112	70 - 130	111	70 - 130	<0.50	ug/L	NC	30
9913854	Vinyl Chloride	2025/04/23	117	70 - 130	115	70 - 130	<0.20	ug/L	NC	30
9913960	1,1,1,2-Tetrachloroethane	2025/04/23	111	70 - 130	109	70 - 130	<0.50	ug/L	NC	30
9913960	1,1,1-Trichloroethane	2025/04/23	101	70 - 130	99	70 - 130	<0.20	ug/L	NC	30
9913960	1,1,2,2-Tetrachloroethane	2025/04/23	113	70 - 130	104	70 - 130	<0.40	ug/L	NC	30
9913960	1,1,2-Trichloroethane	2025/04/23	118	70 - 130	114	70 - 130	<0.40	ug/L	NC	30
9913960	1,1-Dichloroethane	2025/04/23	109	70 - 130	107	70 - 130	<0.20	ug/L	NC	30



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VERITAS

Bureau Veritas Job #: CS43505
Report Date: 2025/04/28

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE NORTH
Sampler Initials: ZB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9913960	1,1-Dichloroethylene	2025/04/23	112	70 - 130	111	70 - 130	<0.20	ug/L	NC	30
9913960	1,2-Dichlorobenzene	2025/04/23	105	70 - 130	104	70 - 130	<0.40	ug/L	NC	30
9913960	1,2-Dichloroethane	2025/04/23	119	70 - 130	113	70 - 130	<0.49	ug/L	NC	30
9913960	1,2-Dichloropropane	2025/04/23	113	70 - 130	109	70 - 130	<0.20	ug/L	NC	30
9913960	1,3-Dichlorobenzene	2025/04/23	101	70 - 130	102	70 - 130	<0.40	ug/L	NC	30
9913960	1,4-Dichlorobenzene	2025/04/23	99	70 - 130	101	70 - 130	<0.40	ug/L	NC	30
9913960	Acetone (2-Propanone)	2025/04/23	122	60 - 140	116	60 - 140	<10	ug/L	NC	30
9913960	Benzene	2025/04/23	110	70 - 130	107	70 - 130	<0.20	ug/L	1.3	30
9913960	Bromodichloromethane	2025/04/23	108	70 - 130	103	70 - 130	<0.50	ug/L	NC	30
9913960	Bromoform	2025/04/23	106	70 - 130	99	70 - 130	<1.0	ug/L	NC	30
9913960	Bromomethane	2025/04/23	116	60 - 140	113	60 - 140	<0.50	ug/L	NC	30
9913960	Carbon Tetrachloride	2025/04/23	108	70 - 130	105	70 - 130	<0.19	ug/L	NC	30
9913960	Chlorobenzene	2025/04/23	97	70 - 130	95	70 - 130	<0.20	ug/L	NC	30
9913960	Chloroform	2025/04/23	108	70 - 130	105	70 - 130	<0.20	ug/L	NC	30
9913960	cis-1,2-Dichloroethylene	2025/04/23	110	70 - 130	107	70 - 130	<0.50	ug/L	NC	30
9913960	cis-1,3-Dichloropropene	2025/04/23	95	70 - 130	92	70 - 130	<0.30	ug/L	NC	30
9913960	Dibromochloromethane	2025/04/23	108	70 - 130	106	70 - 130	<0.50	ug/L	NC	30
9913960	Dichlorodifluoromethane (FREON 12)	2025/04/23	129	60 - 140	128	60 - 140	<1.0	ug/L	NC	30
9913960	Ethylbenzene	2025/04/23	97	70 - 130	97	70 - 130	<0.20	ug/L	NC	30
9913960	Ethylene Dibromide	2025/04/23	108	70 - 130	104	70 - 130	<0.19	ug/L	NC	30
9913960	Hexane	2025/04/23	128	70 - 130	126	70 - 130	<1.0	ug/L	NC	30
9913960	Methyl Ethyl Ketone (2-Butanone)	2025/04/23	122	60 - 140	115	60 - 140	<10	ug/L	NC	30
9913960	Methyl Isobutyl Ketone	2025/04/23	106	70 - 130	97	70 - 130	<5.0	ug/L	NC	30
9913960	Methyl t-butyl ether (MTBE)	2025/04/23	97	70 - 130	97	70 - 130	<0.50	ug/L	NC	30
9913960	Methylene Chloride(Dichloromethane)	2025/04/23	112	70 - 130	108	70 - 130	<2.0	ug/L	NC	30
9913960	o-Xylene	2025/04/23	104	70 - 130	105	70 - 130	<0.20	ug/L	NC	30
9913960	p+m-Xylene	2025/04/23	92	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
9913960	Styrene	2025/04/23	94	70 - 130	94	70 - 130	<0.40	ug/L	NC	30
9913960	Tetrachloroethylene	2025/04/23	94	70 - 130	94	70 - 130	<0.20	ug/L	NC	30
9913960	Toluene	2025/04/23	105	70 - 130	106	70 - 130	<0.20	ug/L	NC	30
9913960	Total Xylenes	2025/04/23					<0.20	ug/L	NC	30
9913960	trans-1,2-Dichloroethylene	2025/04/23	109	70 - 130	107	70 - 130	<0.50	ug/L	NC	30



Bureau Veritas Job #: C543505
Report Date: 2025/04/28

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE NORTH
Sampler Initials: ZB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9913960	trans-1,3-Dichloropropene	2025/04/23	109	70 - 130	110	70 - 130	<0.40	ug/L	NC	30
9913960	Trichloroethylene	2025/04/23	101	70 - 130	98	70 - 130	<0.20	ug/L	NC	30
9913960	Trichlorofluoromethane (FREON 11)	2025/04/23	112	70 - 130	109	70 - 130	<0.50	ug/L	NC	30
9913960	Vinyl Chloride	2025/04/23	131 (1)	70 - 130	129	70 - 130	<0.20	ug/L	NC	30
9913991	Dissolved Antimony (Sb)	2025/04/24	103	80 - 120	101	80 - 120	<0.50	ug/L	NC	20
9913991	Dissolved Arsenic (As)	2025/04/24	103	80 - 120	98	80 - 120	<1.0	ug/L	NC	20
9913991	Dissolved Barium (Ba)	2025/04/24	99	80 - 120	99	80 - 120	<2.0	ug/L	1.0	20
9913991	Dissolved Beryllium (Be)	2025/04/24	100	80 - 120	99	80 - 120	<0.40	ug/L	NC	20
9913991	Dissolved Boron (B)	2025/04/24	98	80 - 120	98	80 - 120	<10	ug/L	0.043	20
9913991	Dissolved Cadmium (Cd)	2025/04/24	94	80 - 120	97	80 - 120	<0.090	ug/L	NC	20
9913991	Dissolved Chromium (Cr)	2025/04/24	101	80 - 120	96	80 - 120	<5.0	ug/L	NC	20
9913991	Dissolved Cobalt (Co)	2025/04/24	96	80 - 120	94	80 - 120	<0.50	ug/L	NC	20
9913991	Dissolved Copper (Cu)	2025/04/24	98	80 - 120	97	80 - 120	<0.90	ug/L	NC	20
9913991	Dissolved Lead (Pb)	2025/04/24	86	80 - 120	94	80 - 120	<0.50	ug/L	NC	20
9913991	Dissolved Molybdenum (Mo)	2025/04/24	108	80 - 120	97	80 - 120	<0.50	ug/L	3.4	20
9913991	Dissolved Nickel (Ni)	2025/04/24	92	80 - 120	93	80 - 120	<1.0	ug/L	NC	20
9913991	Dissolved Selenium (Se)	2025/04/24	97	80 - 120	100	80 - 120	<2.0	ug/L	NC	20
9913991	Dissolved Silver (Ag)	2025/04/24	89	80 - 120	94	80 - 120	<0.090	ug/L	NC	20
9913991	Dissolved Sodium (Na)	2025/04/24	NC	80 - 120	95	80 - 120	<100	ug/L	0.73	20
9913991	Dissolved Thallium (Tl)	2025/04/24	90	80 - 120	97	80 - 120	<0.050	ug/L	NC	20
9913991	Dissolved Uranium (U)	2025/04/24	94	80 - 120	95	80 - 120	<0.10	ug/L	6.4	20
9913991	Dissolved Vanadium (V)	2025/04/24	105	80 - 120	96	80 - 120	<0.50	ug/L	NC	20
9913991	Dissolved Zinc (Zn)	2025/04/24	88	80 - 120	96	80 - 120	<5.0	ug/L	NC	20
9914153	Chromium (VI)	2025/04/23	101	80 - 120	103	80 - 120	<0.50	ug/L	NC	20
9914237	Dissolved Chloride (Cl-)	2025/04/23	NC	80 - 120	97	80 - 120	<1.0	mg/L	1.0	20
9914328	1-Methylnaphthalene	2025/04/23	75	50 - 130	76	50 - 130	<0.050	ug/L	5.2	30
9914328	2-Methylnaphthalene	2025/04/23	72	50 - 130	73	50 - 130	<0.050	ug/L	0.26	30
9914328	Acenaphthene	2025/04/23	84	50 - 130	88	50 - 130	<0.050	ug/L	NC	30
9914328	Acenaphthylene	2025/04/23	84	50 - 130	87	50 - 130	<0.050	ug/L	NC	30
9914328	Anthracene	2025/04/23	114	50 - 130	113	50 - 130	<0.050	ug/L	NC	30
9914328	Benzo(a)anthracene	2025/04/23	101	50 - 130	101	50 - 130	<0.050	ug/L	NC	30
9914328	Benzo(a)pyrene	2025/04/23	97	50 - 130	98	50 - 130	<0.0090	ug/L	NC	30



BUREAU
VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE NORTH
Sampler Initials: ZB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9914328	Benzol(b,j)fluoranthene	2025/04/23	105	50 - 130	105	50 - 130	<0.050	ug/L	NC	30
9914328	Benzol(g,h,i)perylene	2025/04/23	106	50 - 130	105	50 - 130	<0.050	ug/L	NC	30
9914328	Benzol(k)fluoranthene	2025/04/23	100	50 - 130	100	50 - 130	<0.050	ug/L	NC	30
9914328	Chrysene	2025/04/23	105	50 - 130	105	50 - 130	<0.050	ug/L	NC	30
9914328	Dibenzo(a,h)anthracene	2025/04/23	98	50 - 130	99	50 - 130	<0.050	ug/L	NC	30
9914328	Fluoranthene	2025/04/23	115	50 - 130	114	50 - 130	<0.050	ug/L	NC	30
9914328	Fluorene	2025/04/23	97	50 - 130	97	50 - 130	<0.050	ug/L	NC	30
9914328	Indeno(1,2,3-cd)pyrene	2025/04/23	112	50 - 130	112	50 - 130	<0.050	ug/L	NC	30
9914328	Naphthalene	2025/04/23	72	50 - 130	74	50 - 130	<0.050	ug/L	NC	30
9914328	Phenanthrene	2025/04/23	102	50 - 130	102	50 - 130	<0.030	ug/L	NC	30
9914328	Pyrene	2025/04/23	116	50 - 130	115	50 - 130	<0.050	ug/L	NC	30
9914332	F2 (C10-C16 Hydrocarbons)	2025/04/23	95	60 - 140	93	60 - 140	<90	ug/L	NC	30
9914332	F3 (C16-C34 Hydrocarbons)	2025/04/23	103	60 - 140	102	60 - 140	<200	ug/L	NC	30
9914332	F4 (C34-C50 Hydrocarbons)	2025/04/23	91	60 - 140	92	60 - 140	<200	ug/L	NC	30
9914836	Mercury (Hg)	2025/04/24	96	75 - 125	97	80 - 120	<0.10	ug/L	NC	20
9914974	Mercury (Hg)	2025/04/24	98	75 - 125	98	80 - 120	<0.10	ug/L	NC	20
9915515	F2 (C10-C16 Hydrocarbons)	2025/04/24	119	60 - 140	97	60 - 140	<90	ug/L	21	30
9915515	F3 (C16-C34 Hydrocarbons)	2025/04/24	130	60 - 140	106	60 - 140	<200	ug/L	9.9	30
9915515	F4 (C34-C50 Hydrocarbons)	2025/04/24	126	60 - 140	103	60 - 140	<200	ug/L	8.7	30
9916094	1-Methylnaphthalene	2025/04/25	83	50 - 130	75	50 - 130	<0.050	ug/L	NC	30
9916094	2-Methylnaphthalene	2025/04/25	82	50 - 130	73	50 - 130	<0.050	ug/L	NC	30
9916094	Acenaphthene	2025/04/25	102	50 - 130	93	50 - 130	<0.050	ug/L	NC	30
9916094	Acenaphthylene	2025/04/25	103	50 - 130	96	50 - 130	<0.050	ug/L	NC	30
9916094	Anthracene	2025/04/25	119	50 - 130	116	50 - 130	<0.050	ug/L	NC	30
9916094	Benzol(a)anthracene	2025/04/25	123	50 - 130	120	50 - 130	<0.050	ug/L	NC	30
9916094	Benzol(a)pyrene	2025/04/25	121	50 - 130	118	50 - 130	<0.0090	ug/L	NC	30
9916094	Benzol(b,j)fluoranthene	2025/04/25	118	50 - 130	116	50 - 130	<0.050	ug/L	NC	30
9916094	Benzol(g,h,i)perylene	2025/04/25	107	50 - 130	103	50 - 130	<0.050	ug/L	NC	30
9916094	Benzol(k)fluoranthene	2025/04/25	121	50 - 130	120	50 - 130	<0.050	ug/L	NC	30
9916094	Chrysene	2025/04/25	118	50 - 130	118	50 - 130	<0.050	ug/L	NC	30
9916094	Dibenzo(a,h)anthracene	2025/04/25	101	50 - 130	102	50 - 130	<0.050	ug/L	NC	30
9916094	Fluoranthene	2025/04/25	124	50 - 130	121	50 - 130	<0.050	ug/L	NC	30



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
 Client Project #: 02103035
 Site Location: 424 CHURCHILL AVE NORTH
 Sampler Initials: ZB

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9916094	Fluorene	2025/04/25	110	50 - 130	104	50 - 130	<0.050	ug/L	NC	30
9916094	Indeno(1,2,3-cd)pyrene	2025/04/25	109	50 - 130	108	50 - 130	<0.050	ug/L	NC	30
9916094	Naphthalene	2025/04/25	78	50 - 130	74	50 - 130	<0.050	ug/L	NC	30
9916094	Phenanthrene	2025/04/25	112	50 - 130	110	50 - 130	<0.030	ug/L	NC	30
9916094	Pyrene	2025/04/25	124	50 - 130	121	50 - 130	<0.050	ug/L	NC	30
9916104	F2 (C10-C16 Hydrocarbons)	2025/04/25	100	60 - 140	101	60 - 140	<90	ug/L	NC	30
9916104	F3 (C16-C34 Hydrocarbons)	2025/04/25	110	60 - 140	113	60 - 140	<200	ug/L	NC	30
9916104	F4 (C34-C50 Hydrocarbons)	2025/04/25	99	60 - 140	102	60 - 140	<200	ug/L	NC	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) The recovery was above the upper control limit. This may represent a high bias in some results for this specific analyte. For results that were not detected (ND), this potential bias has no impact.



BUREAU
VERITAS

Bureau Veritas Job #: C543505
Report Date: 2025/04/28

Englobe Corp.
Client Project #: 02103035
Site Location: 424 CHURCHILL AVE.NORTH
Sampler Initials: ZB

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.



Your Project #: 02103035.000
 Site Location: 424 CHURCHILL AVE N
 Your C.O.C. #: C#1039259-01-01

Attention: Aqsa Gatchalian

Englobe Corp.
 Ottawa - Standing Offer
 2713 Lancaster Road
 Unit 101
 Ottawa, ON
 CANADA K1B 5R6

Report Date: 2025/04/09
 Report #: R8517268
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C534309

Received: 2025/03/28, 10:20

Sample Matrix: Soil
 # Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Methylnaphthalene Sum (1)	6	N/A	2025/04/01	CAM SOP-00301	EPA 8270D m
Hot Water Extractable Boron (1)	4	2025/04/02	2025/04/02	CAM SOP-00408	R153 Ana. Prot. 2011
Hot Water Extractable Boron (1)	1	2025/04/02	2025/04/03	CAM SOP-00408	R153 Ana. Prot. 2011
1,3-Dichloropropene Sum (1)	6	N/A	2025/04/02		EPA 8260C m
Free (WAD) Cyanide (1)	4	2025/04/02	2025/04/02	CAM SOP-00457	OMOE E3015 m
Free (WAD) Cyanide (1)	1	2025/04/03	2025/04/03	CAM SOP-00457	OMOE E3015 m
Conductivity (1)	5	2025/04/02	2025/04/02	CAM SOP-00414	OMOE E3530 v1 m
Hexavalent Chromium in Soil by IC (1, 2)	4	2025/04/02	2025/04/02	CAM SOP-00436	EPA 3060A/7199 m
Hexavalent Chromium in Soil by IC (1, 2)	1	2025/04/03	2025/04/03	CAM SOP-00436	EPA 3060A/7199 m
Petroleum Hydrocarbons F2-F4 in Soil (1, 3)	6	2025/04/01	2025/04/02	CAM SOP-00316	CCME CWS m
F4G (CCME Hydrocarbons Gravimetric) (1)	2	2025/04/03	2025/04/03	CAM SOP-00316	CCME PHC-CWS m
Acid Extractable Metals by ICPMS (1)	5	2025/04/02	2025/04/02	CAM SOP-00447	EPA 6020B m
Acid Extractable Metals by ICPMS (1)	1	2025/04/03	2025/04/03	CAM SOP-00447	EPA 6020B m
Moisture (1)	6	N/A	2025/03/31	CAM SOP-00445	Carter 2nd ed 70.2 m
PAH Compounds in Soil by GC/MS (SIM) (1)	6	2025/03/31	2025/04/01	CAM SOP-00318	EPA 8270E
pH CaCl2 EXTRACT (1)	4	2025/04/02	2025/04/02	CAM SOP-00413	EPA 9045 D m
pH CaCl2 EXTRACT (1)	2	2025/04/03	2025/04/03	CAM SOP-00413	EPA 9045 D m
Sodium Adsorption Ratio (SAR) (1)	5	N/A	2025/04/02	CAM SOP-00102	EPA 6010C
Volatile Organic Compounds and F1 PHCs (1)	6	N/A	2025/04/01	CAM SOP-00230	EPA 8260C m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or



Your Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Your C.O.C. #: C#1039259-01-01

Attention: Aqsa Gatchalian

Englobe Corp.
Ottawa - Standing Offer
2713 Lancaster Road
Unit 101
Ottawa, ON
CANADA K1B 5R6

Report Date: 2025/04/09
Report #: R8517268
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C534309

Received: 2025/03/28, 10:20

implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested. This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Mississauga, 6740 Campobello Rd , Mississauga, ON, L5N 2L8

(2) Soils are reported on a dry weight basis unless otherwise specified.

(3) All CCME PHC results met required criteria unless otherwise stated in the report. The CWS PHC methods employed by Bureau Veritas conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following "Alberta Environment's Interpretation of the Reference Method for the Canada-Wide Standard for Petroleum Hydrocarbons in Soil Validation of Performance-Based Alternative Methods September 2003". Documentation is available upon request. Modifications from Reference Method for the Canada-wide Standard for Petroleum Hydrocarbons in Soil-Tier 1 Method: F2/F3/F4 data reported using validated cold solvent extraction instead of Soxhlet extraction.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:

Katherine Szozda, Project Manager
Email: Katherine.Szozda@bureauveritas.com
Phone# (613)274-0573 Ext:7063633

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This report has been generated and distributed using a secure automated process.

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BUREAU
VERITAS

Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

O.REG 153 ICPCMS METALS (SOIL)

Bureau Veritas ID			APJ13		
Sampling Date			2025/03/26 15:50		
COC Number			C#1039259-01-01		
	UNITS	Criteria	MW25-05	RDL	QC Batch
Metals					
Acid Extractable Antimony (Sb)	ug/g	7.5	1.8	0.20	9903353
Acid Extractable Arsenic (As)	ug/g	18	8.3	1.0	9903353
Acid Extractable Barium (Ba)	ug/g	390	270	0.50	9903353
Acid Extractable Beryllium (Be)	ug/g	5	0.49	0.20	9903353
Acid Extractable Boron (B)	ug/g	120	12	5.0	9903353
Acid Extractable Cadmium (Cd)	ug/g	1.2	0.89	0.10	9903353
Acid Extractable Chromium (Cr)	ug/g	160	18	1.0	9903353
Acid Extractable Cobalt (Co)	ug/g	22	8.4	0.10	9903353
Acid Extractable Copper (Cu)	ug/g	180	1000	0.50	9903353
Acid Extractable Lead (Pb)	ug/g	120	210	1.0	9903353
Acid Extractable Molybdenum (Mo)	ug/g	6.9	1.5	0.50	9903353
Acid Extractable Nickel (Ni)	ug/g	130	29	0.50	9903353
Acid Extractable Selenium (Se)	ug/g	2.4	<0.50	0.50	9903353
Acid Extractable Silver (Ag)	ug/g	25	0.31	0.20	9903353
Acid Extractable Thallium (Tl)	ug/g	1	0.27	0.050	9903353
Acid Extractable Uranium (U)	ug/g	23	0.40	0.050	9903353
Acid Extractable Vanadium (V)	ug/g	86	19	5.0	9903353
Acid Extractable Zinc (Zn)	ug/g	340	1400	5.0	9903353
No Fill	No Exceedance				
Grey	Exceeds 1 criteria policy/level				
Black	Exceeds both criteria/levels				
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)					
Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition					
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil					



BUREAU VERITAS

Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID			APJI11		APJI12		APJI14		
Sampling Date			2025/03/26 09:00		2025/03/26 15:25		2025/03/27 13:26		
COC Number			C#1039259-01-01		C#1039259-01-01		C#1039259-01-01		
	UNITS	Criteria	MW25-01A	QC Batch	MW25-04A	QC Batch	MW25-03	RDL	QC Batch

Calculated Parameters

Sodium Adsorption Ratio	N/A	5.0	5.5	9900894	4.7	9900894	3.6		9900894
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Inorganics

Conductivity	mS/cm	0.7	0.44	9902805	0.24	9902805	0.84	0.002	9902805
Available (CaCl2) pH	pH	-	8.04	9902902	7.81	9903408	7.91		9902902
WAD Cyanide (Free)	ug/g	0.051	<0.01	9902522	<0.01	9903264	<0.01	0.01	9902522
Chromium (VI)	ug/g	10	<0.18	9902641	<0.18	9903310	<0.18	0.18	9902641

Metals

Hot Water Ext. Boron (B)	ug/g	1.5	0.44	9902678	0.16	9902678	0.67	0.050	9902678
Acid Extractable Antimony (Sb)	ug/g	7.5	<0.20	9902853	<0.20	9902853	0.67	0.20	9902853
Acid Extractable Arsenic (As)	ug/g	18	1.1	9902853	1.2	9902853	3.0	1.0	9902853
Acid Extractable Barium (Ba)	ug/g	390	130	9902853	260	9902853	130	0.50	9902853
Acid Extractable Beryllium (Be)	ug/g	5	0.39	9902853	0.35	9902853	0.28	0.20	9902853
Acid Extractable Boron (B)	ug/g	120	11	9902853	9.7	9902853	7.6	5.0	9902853
Acid Extractable Cadmium (Cd)	ug/g	1.2	<0.10	9902853	<0.10	9902853	0.57	0.10	9902853
Acid Extractable Chromium (Cr)	ug/g	160	11	9902853	9.0	9902853	15	1.0	9902853
Acid Extractable Cobalt (Co)	ug/g	22	4.9	9902853	4.6	9902853	6.2	0.10	9902853
Acid Extractable Copper (Cu)	ug/g	180	4.8	9902853	6.7	9902853	63	0.50	9902853
Acid Extractable Lead (Pb)	ug/g	120	6.3	9902853	8.1	9902853	260	1.0	9902853
Acid Extractable Molybdenum (Mo)	ug/g	6.9	0.64	9902853	<0.50	9902853	1.1	0.50	9902853
Acid Extractable Nickel (Ni)	ug/g	130	12	9902853	11	9902853	18	0.50	9902853
Acid Extractable Selenium (Se)	ug/g	2.4	<0.50	9902853	<0.50	9902853	<0.50	0.50	9902853
Acid Extractable Silver (Ag)	ug/g	25	<0.20	9902853	<0.20	9902853	0.21	0.20	9902853
Acid Extractable Thallium (Tl)	ug/g	1	0.12	9902853	0.10	9902853	0.20	0.050	9902853
Acid Extractable Uranium (U)	ug/g	23	0.19	9902853	0.19	9902853	0.32	0.050	9902853
Acid Extractable Vanadium (V)	ug/g	86	10	9902853	8.3	9902853	18	5.0	9902853
Acid Extractable Zinc (Zn)	ug/g	340	11	9902853	10	9902853	140	5.0	9902853
Acid Extractable Mercury (Hg)	ug/g	1.8	<0.050	9902853	<0.050	9902853	0.093	0.050	9902853

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)

Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition

Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil



O.REG 153 METALS & INORGANICS PKG (SOIL)

Bureau Veritas ID			APJ15		APJ16		
Sampling Date			2025/03/27 13:42		2025/03/26		
COC Number			C#1039259-01-01		C#1039259-01-01		
	UNITS	Criteria	MW25-02A	QC Batch	DUP	RDL	QC Batch
Calculated Parameters							
Sodium Adsorption Ratio	N/A	5.0	2.5	9900894	5.6		9900894
Inorganics							
Conductivity	mS/cm	0.7	0.24	9902805	0.26	0.002	9902805
Available (CaCl2) pH	pH	-	7.84	9902750	7.80		9902902
WAD Cyanide (Free)	ug/g	0.051	<0.01	9902522	<0.01	0.01	9902522
Chromium (VI)	ug/g	10	<0.18	9902641	<0.18	0.18	9902641
Metals							
Hot Water Ext. Boron (B)	ug/g	1.5	0.20	9902678	0.20	0.050	9903387
Acid Extractable Antimony (Sb)	ug/g	7.5	2.3	9902853	<0.20	0.20	9902853
Acid Extractable Arsenic (As)	ug/g	18	1.3	9902853	1.3	1.0	9902853
Acid Extractable Barium (Ba)	ug/g	390	93	9902853	210	0.50	9902853
Acid Extractable Beryllium (Be)	ug/g	5	<0.20	9902853	0.37	0.20	9902853
Acid Extractable Boron (B)	ug/g	120	<5.0	9902853	10	5.0	9902853
Acid Extractable Cadmium (Cd)	ug/g	1.2	0.15	9902853	<0.10	0.10	9902853
Acid Extractable Chromium (Cr)	ug/g	160	7.8	9902853	9.3	1.0	9902853
Acid Extractable Cobalt (Co)	ug/g	22	2.9	9902853	4.9	0.10	9902853
Acid Extractable Copper (Cu)	ug/g	180	24	9902853	7.0	0.50	9902853
Acid Extractable Lead (Pb)	ug/g	120	99	9902853	8.8	1.0	9902853
Acid Extractable Molybdenum (Mo)	ug/g	6.9	0.87	9902853	<0.50	0.50	9902853
Acid Extractable Nickel (Ni)	ug/g	130	6.5	9902853	11	0.50	9902853
Acid Extractable Selenium (Se)	ug/g	2.4	<0.50	9902853	<0.50	0.50	9902853
Acid Extractable Silver (Ag)	ug/g	25	<0.20	9902853	<0.20	0.20	9902853
Acid Extractable Thallium (Tl)	ug/g	1	0.078	9902853	0.10	0.050	9902853
Acid Extractable Uranium (U)	ug/g	23	0.38	9902853	0.21	0.050	9902853
Acid Extractable Vanadium (V)	ug/g	86	12	9902853	8.8	5.0	9902853
Acid Extractable Zinc (Zn)	ug/g	340	36	9902853	11	5.0	9902853
Acid Extractable Mercury (Hg)	ug/g	1.8	<0.050	9902853	<0.050	0.050	9902853
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)							
Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition							
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil							



BUREAU
VERITAS

Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

O.REG 153 PAHS (SOIL)

Bureau Veritas ID			APJ11	APJ12		APJ13		
Sampling Date			2025/03/26 09:00	2025/03/26 15:25		2025/03/26 15:50		
COC Number			C#1039259-01-01	C#1039259-01-01		C#1039259-01-01		
	UNITS	Criteria	MW25-01A	MW25-04A	RDL	MW25-05	RDL	QC Batch

Calculated Parameters

Methylnaphthalene, 2-(1-)	ug/g	-	<0.0071	<0.0071	0.0071	<0.071	0.071	9900893
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Polyaromatic Hydrocarbons

Acenaphthene	ug/g	58	<0.0050	<0.0050	0.0050	<0.050	0.050	9901767
Acenaphthylene	ug/g	0.17	<0.0050	<0.0050	0.0050	<0.050	0.050	9901767
Anthracene	ug/g	0.74	<0.0050	<0.0050	0.0050	0.073	0.050	9901767
Benzo(a)anthracene	ug/g	0.63	<0.0050	0.0084	0.0050	0.20	0.050	9901767
Benzo(a)pyrene	ug/g	0.3	0.0070	0.0094	0.0050	0.18	0.050	9901767
Benzo(b/j)fluoranthene	ug/g	0.78	0.0074	0.012	0.0050	0.24	0.050	9901767
Benzo(g,h,i)perylene	ug/g	7.8	0.016	0.0061	0.0050	0.086	0.050	9901767
Benzo(k)fluoranthene	ug/g	0.78	<0.0050	<0.0050	0.0050	0.091	0.050	9901767
Chrysene	ug/g	7.8	0.0073	0.0088	0.0050	0.17	0.050	9901767
Dibenzo(a,h)anthracene	ug/g	0.1	<0.0050	<0.0050	0.0050	<0.050	0.050	9901767
Fluoranthene	ug/g	0.69	<0.0050	0.023	0.0050	0.59	0.050	9901767
Fluorene	ug/g	69	<0.0050	<0.0050	0.0050	<0.050	0.050	9901767
Indeno(1,2,3-cd)pyrene	ug/g	0.48	<0.0050	0.0063	0.0050	0.078	0.050	9901767
1-Methylnaphthalene	ug/g	3.4	<0.0050	<0.0050	0.0050	<0.050	0.050	9901767
2-Methylnaphthalene	ug/g	3.4	<0.0050	<0.0050	0.0050	<0.050	0.050	9901767
Naphthalene	ug/g	0.75	<0.0050	<0.0050	0.0050	<0.050	0.050	9901767
Phenanthrene	ug/g	7.8	0.0072	0.011	0.0050	0.42	0.050	9901767
Pyrene	ug/g	78	0.0094	0.019	0.0050	0.48	0.050	9901767

Surrogate Recovery (%)

D10-Anthracene	%	-	89	93		94		9901767
D14-Terphenyl (FS)	%	-	79	89		90		9901767
D8-Acenaphthylene	%	-	80	87		74		9901767

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
 Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition
 Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil



BUREAU
VERITAS

Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

O.REG 153 PAHS (SOIL)

Bureau Veritas ID			APJ14	APJ15	APJ16		
Sampling Date			2025/03/27 13:26	2025/03/27 13:42	2025/03/26		
COC Number			C#1039259-01-01	C#1039259-01-01	C#1039259-01-01		
	UNITS	Criteria	MW25-03	MW25-02A	DUP	RDL	QC Batch
Calculated Parameters							
Methylnaphthalene, 2-(1-)	ug/g	-	<0.0071	0.025	<0.0071	0.0071	9900893
Polyaromatic Hydrocarbons							
Acenaphthene	ug/g	58	<0.0050	0.096	<0.0050	0.0050	9901767
Acenaphthylene	ug/g	0.17	0.022	0.018	<0.0050	0.0050	9901767
Anthracene	ug/g	0.74	0.037	0.24	<0.0050	0.0050	9901767
Benzo(a)anthracene	ug/g	0.63	0.062	0.92	0.014	0.0050	9901767
Benzo(a)pyrene	ug/g	0.3	0.091	0.85	0.011	0.0050	9901767
Benzo(b/j)fluoranthene	ug/g	0.78	0.12	1.2	0.019	0.0050	9901767
Benzo(g,h,i)perylene	ug/g	7.8	0.19	0.67	0.011	0.0050	9901767
Benzo(k)fluoranthene	ug/g	0.78	0.040	0.49	0.0069	0.0050	9901767
Chrysene	ug/g	7.8	0.060	0.81	0.011	0.0050	9901767
Dibenzo(a,h)anthracene	ug/g	0.1	0.023	0.17	<0.0050	0.0050	9901767
Fluoranthene	ug/g	0.69	0.11	2.0	0.019	0.0050	9901767
Fluorene	ug/g	69	<0.0050	0.087	<0.0050	0.0050	9901767
Indeno(1,2,3-cd)pyrene	ug/g	0.48	0.13	0.72	0.0076	0.0050	9901767
1-Methylnaphthalene	ug/g	3.4	0.0054	0.014	<0.0050	0.0050	9901767
2-Methylnaphthalene	ug/g	3.4	<0.0050	0.011	<0.0050	0.0050	9901767
Naphthalene	ug/g	0.75	<0.0050	0.016	<0.0050	0.0050	9901767
Phenanthrene	ug/g	7.8	0.059	1.1	0.0095	0.0050	9901767
Pyrene	ug/g	78	0.10	1.5	0.017	0.0050	9901767
Surrogate Recovery (%)							
D10-Anthracene	%	-	83	80	89		9901767
D14-Terphenyl (FS)	%	-	71	80	81		9901767
D8-Acenaphthylene	%	-	76	81	85		9901767
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)							
Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition							
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil							



BUREAU
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Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID			APJ11			APJ11		
Sampling Date			2025/03/26 09:00			2025/03/26 09:00		
COC Number			C#1039259-01-01			C#1039259-01-01		
	UNITS	Criteria	MW25-01A	RDL	QC Batch	MW25-01A Lab-Dup	RDL	QC Batch
Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	0.083	<0.050	0.050	9900907			
Volatile Organics								
Acetone (2-Propanone)	ug/g	28	<0.49	0.49	9902053	<0.49	0.49	9902053
Benzene	ug/g	0.17	<0.0060	0.0060	9902053	<0.0060	0.0060	9902053
Bromodichloromethane	ug/g	13	<0.040	0.040	9902053	<0.040	0.040	9902053
Bromoform	ug/g	0.26	<0.040	0.040	9902053	<0.040	0.040	9902053
Bromomethane	ug/g	0.05	<0.040	0.040	9902053	<0.040	0.040	9902053
Carbon Tetrachloride	ug/g	0.12	<0.040	0.040	9902053	<0.040	0.040	9902053
Chlorobenzene	ug/g	2.7	<0.040	0.040	9902053	<0.040	0.040	9902053
Chloroform	ug/g	0.17	<0.040	0.040	9902053	<0.040	0.040	9902053
Dibromochloromethane	ug/g	9.4	<0.040	0.040	9902053	<0.040	0.040	9902053
1,2-Dichlorobenzene	ug/g	4.3	<0.040	0.040	9902053	<0.040	0.040	9902053
1,3-Dichlorobenzene	ug/g	6	<0.040	0.040	9902053	<0.040	0.040	9902053
1,4-Dichlorobenzene	ug/g	0.097	<0.040	0.040	9902053	<0.040	0.040	9902053
Dichlorodifluoromethane (FREON 12)	ug/g	25	<0.040	0.040	9902053	<0.040	0.040	9902053
1,1-Dichloroethane	ug/g	11	<0.040	0.040	9902053	<0.040	0.040	9902053
1,2-Dichloroethane	ug/g	0.05	<0.049	0.049	9902053	<0.049	0.049	9902053
1,1-Dichloroethylene	ug/g	0.05	<0.040	0.040	9902053	<0.040	0.040	9902053
cis-1,2-Dichloroethylene	ug/g	30	<0.040	0.040	9902053	<0.040	0.040	9902053
trans-1,2-Dichloroethylene	ug/g	0.75	<0.040	0.040	9902053	<0.040	0.040	9902053
1,2-Dichloropropane	ug/g	0.085	<0.040	0.040	9902053	<0.040	0.040	9902053
cis-1,3-Dichloropropene	ug/g	0.083	<0.030	0.030	9902053	<0.030	0.030	9902053
trans-1,3-Dichloropropene	ug/g	0.083	<0.040	0.040	9902053	<0.040	0.040	9902053
Ethylbenzene	ug/g	15	<0.010	0.010	9902053	<0.010	0.010	9902053
Ethylene Dibromide	ug/g	0.05	<0.040	0.040	9902053	<0.040	0.040	9902053
Hexane	ug/g	34	<0.040	0.040	9902053	<0.040	0.040	9902053
Methylene Chloride(Dichloromethane)	ug/g	0.96	<0.049	0.049	9902053	<0.049	0.049	9902053
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
Lab-Dup = Laboratory Initiated Duplicate								
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)								
Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition								
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil								



BUREAU
VERITAS

Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID			APJ11			APJ11		
Sampling Date			2025/03/26 09:00			2025/03/26 09:00		
COC Number			C#1039259-01-01			C#1039259-01-01		
	UNITS	Criteria	MW25-01A	RDL	QC Batch	MW25-01A Lab-Dup	RDL	QC Batch
Methyl Ethyl Ketone (2-Butanone)	ug/g	44	<0.40	0.40	9902053	<0.40	0.40	9902053
Methyl Isobutyl Ketone	ug/g	4.3	<0.40	0.40	9902053	<0.40	0.40	9902053
Methyl t-butyl ether (MTBE)	ug/g	1.4	<0.040	0.040	9902053	<0.040	0.040	9902053
Styrene	ug/g	2.2	<0.040	0.040	9902053	<0.040	0.040	9902053
1,1,1,2-Tetrachloroethane	ug/g	0.05	<0.040	0.040	9902053	<0.040	0.040	9902053
1,1,2,2-Tetrachloroethane	ug/g	0.05	<0.040	0.040	9902053	<0.040	0.040	9902053
Tetrachloroethylene	ug/g	2.3	0.19	0.040	9902053	0.18	0.040	9902053
Toluene	ug/g	6	<0.020	0.020	9902053	<0.020	0.020	9902053
1,1,1-Trichloroethane	ug/g	3.4	<0.040	0.040	9902053	<0.040	0.040	9902053
1,1,2-Trichloroethane	ug/g	0.05	<0.040	0.040	9902053	<0.040	0.040	9902053
Trichloroethylene	ug/g	0.52	<0.010	0.010	9902053	<0.010	0.010	9902053
Trichlorofluoromethane (FREON 11)	ug/g	5.8	<0.040	0.040	9902053	<0.040	0.040	9902053
Vinyl Chloride	ug/g	0.022	<0.019	0.019	9902053	<0.019	0.019	9902053
p-m-Xylene	ug/g	-	<0.020	0.020	9902053	<0.020	0.020	9902053
o-Xylene	ug/g	-	<0.020	0.020	9902053	<0.020	0.020	9902053
Total Xylenes	ug/g	25	<0.020	0.020	9902053	<0.020	0.020	9902053
F1 (C6-C10)	ug/g	65	<10	10	9902053	<10	10	9902053
F1 (C6-C10) - BTEX	ug/g	65	<10	10	9902053	<10	10	9902053
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	150	13	7.0	9902290			
F3 (C16-C34 Hydrocarbons)	ug/g	1300	140	50	9902290			
F4 (C34-C50 Hydrocarbons)	ug/g	5600	190	50	9902290			
Reached Baseline at C50	ug/g	-	Yes		9902290			
Surrogate Recovery (%)								
o-Terphenyl	%	-	90		9902290			
4-Bromofluorobenzene	%	-	101		9902053	98		9902053
D10-o-Xylene	%	-	90		9902053	90		9902053
D4-1,2-Dichloroethane	%	-	102		9902053	102		9902053
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
Lab-Dup = Laboratory Initiated Duplicate								
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)								
Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition								
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil								



BUREAU
VERITAS

Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID			APJ11			APJ11		
Sampling Date			2025/03/26 09:00			2025/03/26 09:00		
COC Number			C#1039259-01-01			C#1039259-01-01		
	UNITS	Criteria	MW25-01A	RDL	QC Batch	MW25-01A Lab-Dup	RDL	QC Batch
D8-Toluene	%	-	92		9902053	92		9902053
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate Criteria: Ontario Reg. 153/04 (Amended April 15, 2011) Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil								



BUREAU
VERITAS

Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID			APJI12	APJI13	APJI14	APJI15		
Sampling Date			2025/03/26 15:25	2025/03/26 15:50	2025/03/27 13:26	2025/03/27 13:42		
COC Number			C#1039259-01-01	C#1039259-01-01	C#1039259-01-01	C#1039259-01-01		
	UNITS	Criteria	MW25-04A	MW25-05	MW25-03	MW25-02A	RDL	QC Batch

Calculated Parameters								
1,3-Dichloropropene (cis+trans)	ug/g	0.083	<0.050	<0.050	<0.050	<0.050	0.050	9900907
Volatile Organics								
Acetone (2-Propanone)	ug/g	28	<0.49	<0.49	<0.49	<0.49	0.49	9902053
Benzene	ug/g	0.17	<0.0060	<0.0060	<0.0060	<0.0060	0.0060	9902053
Bromodichloromethane	ug/g	13	<0.040	<0.040	<0.040	<0.040	0.040	9902053
Bromoform	ug/g	0.26	<0.040	<0.040	<0.040	<0.040	0.040	9902053
Bromomethane	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	9902053
Carbon Tetrachloride	ug/g	0.12	<0.040	<0.040	<0.040	<0.040	0.040	9902053
Chlorobenzene	ug/g	2.7	<0.040	<0.040	<0.040	<0.040	0.040	9902053
Chloroform	ug/g	0.17	<0.040	<0.040	<0.040	<0.040	0.040	9902053
Dibromochloromethane	ug/g	9.4	<0.040	<0.040	<0.040	<0.040	0.040	9902053
1,2-Dichlorobenzene	ug/g	4.3	<0.040	<0.040	<0.040	<0.040	0.040	9902053
1,3-Dichlorobenzene	ug/g	6	<0.040	<0.040	<0.040	<0.040	0.040	9902053
1,4-Dichlorobenzene	ug/g	0.097	<0.040	<0.040	<0.040	<0.040	0.040	9902053
Dichlorodifluoromethane (FREON 12)	ug/g	25	<0.040	<0.040	<0.040	<0.040	0.040	9902053
1,1-Dichloroethane	ug/g	11	<0.040	<0.040	<0.040	<0.040	0.040	9902053
1,2-Dichloroethane	ug/g	0.05	<0.049	<0.049	<0.049	<0.049	0.049	9902053
1,1-Dichloroethylene	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	9902053
cis-1,2-Dichloroethylene	ug/g	30	<0.040	<0.040	0.058	<0.040	0.040	9902053
trans-1,2-Dichloroethylene	ug/g	0.75	<0.040	<0.040	<0.040	<0.040	0.040	9902053
1,2-Dichloropropane	ug/g	0.085	<0.040	<0.040	<0.040	<0.040	0.040	9902053
cis-1,3-Dichloropropene	ug/g	0.083	<0.030	<0.030	<0.030	<0.030	0.030	9902053
trans-1,3-Dichloropropene	ug/g	0.083	<0.040	<0.040	<0.040	<0.040	0.040	9902053
Ethylbenzene	ug/g	15	<0.010	<0.010	<0.010	<0.010	0.010	9902053
Ethylene Dibromide	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	9902053
Hexane	ug/g	34	<0.040	<0.040	<0.040	<0.040	0.040	9902053
Methylene Chloride(Dichloromethane)	ug/g	0.96	<0.049	<0.049	<0.049	<0.049	0.049	9902053
Methyl Ethyl Ketone (2-Butanone)	ug/g	44	<0.40	<0.40	<0.40	<0.40	0.40	9902053

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)

Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition

Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil



BUREAU
VERITAS

Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID			APJI12	APJI13	APJI14	APJI15		
Sampling Date			2025/03/26 15:25	2025/03/26 15:50	2025/03/27 13:26	2025/03/27 13:42		
COC Number			C#1039259-01-01	C#1039259-01-01	C#1039259-01-01	C#1039259-01-01		
	UNITS	Criteria	MW25-04A	MW25-05	MW25-03	MW25-02A	RDL	QC Batch
Methyl Isobutyl Ketone	ug/g	4.3	<0.40	<0.40	<0.40	<0.40	0.40	9902053
Methyl t-butyl ether (MTBE)	ug/g	1.4	<0.040	<0.040	<0.040	<0.040	0.040	9902053
Styrene	ug/g	2.2	<0.040	<0.040	<0.040	<0.040	0.040	9902053
1,1,1,2-Tetrachloroethane	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	9902053
1,1,2,2-Tetrachloroethane	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	9902053
Tetrachloroethylene	ug/g	2.3	0.75	1.0	1.7	<0.040	0.040	9902053
Toluene	ug/g	6	<0.020	<0.020	<0.020	<0.020	0.020	9902053
1,1,1-Trichloroethane	ug/g	3.4	<0.040	<0.040	<0.040	<0.040	0.040	9902053
1,1,2-Trichloroethane	ug/g	0.05	<0.040	<0.040	<0.040	<0.040	0.040	9902053
Trichloroethylene	ug/g	0.52	<0.010	<0.010	0.089	<0.010	0.010	9902053
Trichlorofluoromethane (FREON 11)	ug/g	5.8	<0.040	<0.040	<0.040	<0.040	0.040	9902053
Vinyl Chloride	ug/g	0.022	<0.019	<0.019	<0.019	<0.019	0.019	9902053
p+m-Xylene	ug/g	-	<0.020	<0.020	<0.020	<0.020	0.020	9902053
o-Xylene	ug/g	-	<0.020	<0.020	<0.020	<0.020	0.020	9902053
Total Xylenes	ug/g	25	<0.020	<0.020	<0.020	<0.020	0.020	9902053
F1 (C6-C10)	ug/g	65	<10	<10	<10	<10	10	9902053
F1 (C6-C10) - BTEX	ug/g	65	<10	<10	<10	<10	10	9902053
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/g	150	<7.0	7.8	26	<7.0	7.0	9902290
F3 (C16-C34 Hydrocarbons)	ug/g	1300	<50	170	340	140	50	9902290
F4 (C34-C50 Hydrocarbons)	ug/g	5600	<50	680	180	140	50	9902290
Reached Baseline at C50	ug/g	-	Yes	No	No	Yes		9902290
Surrogate Recovery (%)								
o-Terphenyl	%	-	92	82	93	96		9902290
4-Bromofluorobenzene	%	-	98	98	98	98		9902053
D10-o-Xylene	%	-	98	96	95	99		9902053
D4-1,2-Dichloroethane	%	-	102	107	107	108		9902053
D8-Toluene	%	-	93	93	92	92		9902053
No Fill	No Exceedance							
Grey	Exceeds 1 criteria policy/level							
Black	Exceeds both criteria/levels							
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)								
Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition								
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil								



BUREAU
VERITAS

Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID			APJ16		
Sampling Date			2025/03/26		
COC Number			C#1039259-01-01		
	UNITS	Criteria	DUP	RDL	QC Batch
Calculated Parameters					
1,3-Dichloropropene (cis+trans)	ug/g	0.083	<0.050	0.050	9900907
Volatile Organics					
Acetone (2-Propanone)	ug/g	28	<0.49	0.49	9902053
Benzene	ug/g	0.17	<0.0060	0.0060	9902053
Bromodichloromethane	ug/g	13	<0.040	0.040	9902053
Bromoform	ug/g	0.26	<0.040	0.040	9902053
Bromomethane	ug/g	0.05	<0.040	0.040	9902053
Carbon Tetrachloride	ug/g	0.12	<0.040	0.040	9902053
Chlorobenzene	ug/g	2.7	<0.040	0.040	9902053
Chloroform	ug/g	0.17	<0.040	0.040	9902053
Dibromochloromethane	ug/g	9.4	<0.040	0.040	9902053
1,2-Dichlorobenzene	ug/g	4.3	<0.040	0.040	9902053
1,3-Dichlorobenzene	ug/g	6	<0.040	0.040	9902053
1,4-Dichlorobenzene	ug/g	0.097	<0.040	0.040	9902053
Dichlorodifluoromethane (FREON 12)	ug/g	25	<0.040	0.040	9902053
1,1-Dichloroethane	ug/g	11	<0.040	0.040	9902053
1,2-Dichloroethane	ug/g	0.05	<0.049	0.049	9902053
1,1-Dichloroethylene	ug/g	0.05	<0.040	0.040	9902053
cis-1,2-Dichloroethylene	ug/g	30	<0.040	0.040	9902053
trans-1,2-Dichloroethylene	ug/g	0.75	<0.040	0.040	9902053
1,2-Dichloropropane	ug/g	0.085	<0.040	0.040	9902053
cis-1,3-Dichloropropene	ug/g	0.083	<0.030	0.030	9902053
trans-1,3-Dichloropropene	ug/g	0.083	<0.040	0.040	9902053
Ethylbenzene	ug/g	15	<0.010	0.010	9902053
Ethylene Dibromide	ug/g	0.05	<0.040	0.040	9902053
Hexane	ug/g	34	<0.040	0.040	9902053
No Fill	No Exceedance				
Grey	Exceeds 1 criteria policy/level				
Black	Exceeds both criteria/levels				
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)					
Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition					
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil					



BUREAU
VERITAS

Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID			APJ16		
Sampling Date			2025/03/26		
COC Number			C#1039259-01-01		
	UNITS	Criteria	DUP	RDL	QC Batch
Methylene Chloride(Dichloromethane)	ug/g	0.96	<0.049	0.049	9902053
Methyl Ethyl Ketone (2-Butanone)	ug/g	44	<0.40	0.40	9902053
Methyl Isobutyl Ketone	ug/g	4.3	<0.40	0.40	9902053
Methyl t-butyl ether (MTBE)	ug/g	1.4	<0.040	0.040	9902053
Styrene	ug/g	2.2	<0.040	0.040	9902053
1,1,1,2-Tetrachloroethane	ug/g	0.05	<0.040	0.040	9902053
1,1,2,2-Tetrachloroethane	ug/g	0.05	<0.040	0.040	9902053
Tetrachloroethylene	ug/g	2.3	1.7	0.040	9902053
Toluene	ug/g	6	0.022	0.020	9902053
1,1,1-Trichloroethane	ug/g	3.4	<0.040	0.040	9902053
1,1,2-Trichloroethane	ug/g	0.05	<0.040	0.040	9902053
Trichloroethylene	ug/g	0.52	<0.010	0.010	9902053
Trichlorofluoromethane (FREON 11)	ug/g	5.8	<0.040	0.040	9902053
Vinyl Chloride	ug/g	0.022	<0.019	0.019	9902053
p+m-Xylene	ug/g	-	<0.020	0.020	9902053
o-Xylene	ug/g	-	<0.020	0.020	9902053
Total Xylenes	ug/g	25	<0.020	0.020	9902053
F1 (C6-C10)	ug/g	65	<10	10	9902053
F1 (C6-C10) - BTEX	ug/g	65	<10	10	9902053
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/g	150	<7.0	7.0	9902290
F3 (C16-C34 Hydrocarbons)	ug/g	1300	<50	50	9902290
F4 (C34-C50 Hydrocarbons)	ug/g	5600	<50	50	9902290
Reached Baseline at C50	ug/g	-	Yes		9902290
Surrogate Recovery (%)					
o-Terphenyl	%	-	97		9902290
4-Bromofluorobenzene	%	-	98		9902053
No Fill	No Exceedance				
Grey	Exceeds 1 criteria policy/level				
Black	Exceeds both criteria/levels				
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)					
Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition					
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil					



BUREAU
VERITAS

Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

O.REG 153 VOCS BY HS & F1-F4 (SOIL)

Bureau Veritas ID			APJI16		
Sampling Date			2025/03/26		
COC Number			C#1039259-01-01		
	UNITS	Criteria	DUP	RDL	QC Batch
D10-o-Xylene	%	-	100		9902053
D4-1,2-Dichloroethane	%	-	106		9902053
D8-Toluene	%	-	92		9902053
No Fill	No Exceedance				
Grey	Exceeds 1 criteria policy/level				
Black	Exceeds both criteria/levels				
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)					
Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition					
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil					



BUREAU
VERITAS

Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

RESULTS OF ANALYSES OF SOIL

Bureau Veritas ID		APJI11	APJI12		APJI13		APJI14		
Sampling Date		2025/03/26 09:00	2025/03/26 15:25		2025/03/26 15:50		2025/03/27 13:26		
COC Number		C#1039259-01-01	C#1039259-01-01		C#1039259-01-01		C#1039259-01-01		
	UNITS	MW25-01A	MW25-04A	QC Batch	MW25-05	QC Batch	MW25-03	RDL	QC Batch

Inorganics									
Moisture	%	5.5	15	9901145	14	9901145	8.5	1.0	9901209
Available (CaCl2) pH	pH				7.69	9903408			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch									

Bureau Veritas ID		APJI15	APJI16		
Sampling Date		2025/03/27 13:42	2025/03/26		
COC Number		C#1039259-01-01	C#1039259-01-01		
	UNITS	MW25-02A	DUP	RDL	QC Batch

Inorganics					
Moisture	%	8.3	15	1.0	9901209
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					



BUREAU
VERITAS

Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

PETROLEUM HYDROCARBONS (CCME)

Bureau Veritas ID			APJI13	APJI13	APJI14		
Sampling Date			2025/03/26 15:50	2025/03/26 15:50	2025/03/27 13:26		
COC Number			C#1039259-01-01	C#1039259-01-01	C#1039259-01-01		
	UNITS	Criteria	MW25-05	MW25-05 Lab-Dup	MW25-03	RDL	QC Batch
F2-F4 Hydrocarbons							
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	5600	2900	3200	710	100	9903277
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
Lab-Dup = Laboratory Initiated Duplicate							
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)							
Table 7: Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition							
Soil - Residential/Parkland/Institutional Property Use - Medium and Fine Textured Soil							



BUREAU
VERITAS

Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

TEST SUMMARY

Bureau Veritas ID: APJI11
Sample ID: MW25-01A
Matrix: Soil

Collected: 2025/03/26
Shipped:
Received: 2025/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9900893	N/A	2025/04/01	Automated Statchk
Hot Water Extractable Boron	ICP	9902678	2025/04/02	2025/04/02	Medhat Nasr
1,3-Dichloropropene Sum	CALC	9900907	N/A	2025/04/02	Automated Statchk
Free (WAD) Cyanide	TECH	9902522	2025/04/02	2025/04/02	Prgya Panchal
Conductivity	AT	9902805	2025/04/02	2025/04/02	Gurparteeek KAUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9902641	2025/04/02	2025/04/02	Alifya Murtaza
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9902290	2025/04/01	2025/04/02	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	9902853	2025/04/02	2025/04/02	Jaswinder Kaur
Moisture	BAL	9901145	N/A	2025/03/31	Joe Thomas
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9901767	2025/03/31	2025/04/01	Mitesh Raj
pH CaCl2 EXTRACT	AT	9902902	2025/04/02	2025/04/02	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9900894	N/A	2025/04/02	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9902053	N/A	2025/04/01	Dina Wang

Bureau Veritas ID: APJI11 Dup
Sample ID: MW25-01A
Matrix: Soil

Collected: 2025/03/26
Shipped:
Received: 2025/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9902053	N/A	2025/04/01	Dina Wang

Bureau Veritas ID: APJI12
Sample ID: MW25-04A
Matrix: Soil

Collected: 2025/03/26
Shipped:
Received: 2025/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9900893	N/A	2025/04/01	Automated Statchk
Hot Water Extractable Boron	ICP	9902678	2025/04/02	2025/04/02	Medhat Nasr
1,3-Dichloropropene Sum	CALC	9900907	N/A	2025/04/02	Automated Statchk
Free (WAD) Cyanide	TECH	9903264	2025/04/03	2025/04/03	Prgya Panchal
Conductivity	AT	9902805	2025/04/02	2025/04/02	Gurparteeek KAUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9903310	2025/04/03	2025/04/03	Sousan Besharatlou
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9902290	2025/04/01	2025/04/02	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	9902853	2025/04/02	2025/04/02	Jaswinder Kaur
Moisture	BAL	9901145	N/A	2025/03/31	Joe Thomas
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9901767	2025/03/31	2025/04/01	Mitesh Raj
pH CaCl2 EXTRACT	AT	9903408	2025/04/03	2025/04/03	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9900894	N/A	2025/04/02	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9902053	N/A	2025/04/01	Dina Wang



BUREAU
VERITAS

Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

TEST SUMMARY

Bureau Veritas ID: APJI13
Sample ID: MW25-05
Matrix: Soil

Collected: 2025/03/26
Shipped:
Received: 2025/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9900893	N/A	2025/04/01	Automated Statchk
1,3-Dichloropropene Sum	CALC	9900907	N/A	2025/04/02	Automated Statchk
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9902290	2025/04/01	2025/04/02	Agnieszka Brzuzy-Snopko
F4G (CCME Hydrocarbons Gravimetric)	BAL	9903277	2025/04/03	2025/04/03	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	9903353	2025/04/03	2025/04/03	Daniel Teclu
Moisture	BAL	9901145	N/A	2025/03/31	Joe Thomas
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9901767	2025/03/31	2025/04/01	Mitesh Raj
pH CaCl2 EXTRACT	AT	9903408	2025/04/03	2025/04/03	Kien Tran
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9902053	N/A	2025/04/01	Dina Wang

Bureau Veritas ID: APJI13 Dup
Sample ID: MW25-05
Matrix: Soil

Collected: 2025/03/26
Shipped:
Received: 2025/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
F4G (CCME Hydrocarbons Gravimetric)	BAL	9903277	2025/04/03	2025/04/03	Rashmi Dubey

Bureau Veritas ID: APJI14
Sample ID: MW25-03
Matrix: Soil

Collected: 2025/03/27
Shipped:
Received: 2025/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9900893	N/A	2025/04/01	Automated Statchk
Hot Water Extractable Boron	ICP	9902678	2025/04/02	2025/04/02	Medhat Nasr
1,3-Dichloropropene Sum	CALC	9900907	N/A	2025/04/02	Automated Statchk
Free (WAD) Cyanide	TECH	9902522	2025/04/02	2025/04/02	Prgya Panchal
Conductivity	AT	9902805	2025/04/02	2025/04/02	Gurpartee K AUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9902641	2025/04/02	2025/04/02	Alifya Murtaza
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9902290	2025/04/01	2025/04/02	Agnieszka Brzuzy-Snopko
F4G (CCME Hydrocarbons Gravimetric)	BAL	9903277	2025/04/03	2025/04/03	Rashmi Dubey
Acid Extractable Metals by ICPMS	ICP/MS	9902853	2025/04/02	2025/04/02	Jaswinder Kaur
Moisture	BAL	9901209	N/A	2025/03/31	Joe Thomas
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9901767	2025/03/31	2025/04/01	Mitesh Raj
pH CaCl2 EXTRACT	AT	9902902	2025/04/02	2025/04/02	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9900894	N/A	2025/04/02	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9902053	N/A	2025/04/01	Dina Wang

Bureau Veritas ID: APJI15
Sample ID: MW25-02A
Matrix: Soil

Collected: 2025/03/27
Shipped:
Received: 2025/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9900893	N/A	2025/04/01	Automated Statchk
Hot Water Extractable Boron	ICP	9902678	2025/04/02	2025/04/02	Medhat Nasr
1,3-Dichloropropene Sum	CALC	9900907	N/A	2025/04/02	Automated Statchk



BUREAU
VERITAS

Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

TEST SUMMARY

Bureau Veritas ID: APJI15
Sample ID: MW25-02A
Matrix: Soil

Collected: 2025/03/27
Shipped:
Received: 2025/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Free (WAD) Cyanide	TECH	9902522	2025/04/02	2025/04/02	Prgya Panchal
Conductivity	AT	9902805	2025/04/02	2025/04/02	Gurparteek KAUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9902641	2025/04/02	2025/04/02	Alifya Murtaza
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9902290	2025/04/01	2025/04/02	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	9902853	2025/04/02	2025/04/02	Jaswinder Kaur
Moisture	BAL	9901209	N/A	2025/03/31	Joe Thomas
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9901767	2025/03/31	2025/04/01	Mitesh Raj
pH CaCl2 EXTRACT	AT	9902750	2025/04/02	2025/04/02	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9900894	N/A	2025/04/02	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9902053	N/A	2025/04/01	Dina Wang

Bureau Veritas ID: APJI16
Sample ID: DUP
Matrix: Soil

Collected: 2025/03/26
Shipped:
Received: 2025/03/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Methylnaphthalene Sum	CALC	9900893	N/A	2025/04/01	Automated Statchk
Hot Water Extractable Boron	ICP	9903387	2025/04/02	2025/04/03	Medhat Nasr
1,3-Dichloropropene Sum	CALC	9900907	N/A	2025/04/02	Automated Statchk
Free (WAD) Cyanide	TECH	9902522	2025/04/02	2025/04/02	Prgya Panchal
Conductivity	AT	9902805	2025/04/02	2025/04/02	Gurparteek KAUR
Hexavalent Chromium in Soil by IC	IC/SPEC	9902641	2025/04/02	2025/04/02	Alifya Murtaza
Petroleum Hydrocarbons F2-F4 in Soil	GC/FID	9902290	2025/04/01	2025/04/02	Agnieszka Brzuzy-Snopko
Acid Extractable Metals by ICPMS	ICP/MS	9902853	2025/04/02	2025/04/02	Jaswinder Kaur
Moisture	BAL	9901209	N/A	2025/03/31	Joe Thomas
PAH Compounds in Soil by GC/MS (SIM)	GC/MS	9901767	2025/03/31	2025/04/01	Mitesh Raj
pH CaCl2 EXTRACT	AT	9902902	2025/04/02	2025/04/02	Kien Tran
Sodium Adsorption Ratio (SAR)	CALC/MET	9900894	N/A	2025/04/02	Automated Statchk
Volatile Organic Compounds and F1 PHCs	GC/MSFD	9902053	N/A	2025/04/01	Dina Wang



BUREAU
VERITAS

Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	5.0°C
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Sample APJ113 [MW25-05] : PAH Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: CS34309
Report Date: 2025/04/09

QUALITY ASSURANCE REPORT

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9901767	D10-Anthracene	2025/03/31	98	50 - 130	100	50 - 130	108	%		
9901767	D14-Terphenyl (FS)	2025/03/31	127	50 - 130	98	50 - 130	99	%		
9901767	D8-Acenaphthylene	2025/03/31	89	50 - 130	89	50 - 130	84	%		
9902053	4-Bromofluorobenzene	2025/04/01	104	60 - 140	102	60 - 140	101	%		
9902053	D10-o-Xylene	2025/04/01	109	60 - 130	90	60 - 130	88	%		
9902053	D4-1,2-Dichloroethane	2025/04/01	99	60 - 140	97	60 - 140	100	%		
9902053	D8-Toluene	2025/04/01	103	60 - 140	105	60 - 140	93	%		
9902290	o-Terphenyl	2025/04/01	95	60 - 140	91	60 - 140	93	%		
9901145	Moisture	2025/03/31							0.55	20
9901209	Moisture	2025/03/31							3.4	20
9901767	1-Methylnaphthalene	2025/03/31	85	50 - 130	89	50 - 130	<0.0050	ug/g	NC	40
9901767	2-Methylnaphthalene	2025/03/31	88	50 - 130	89	50 - 130	<0.0050	ug/g	NC	40
9901767	Acenaphthene	2025/03/31	92	50 - 130	91	50 - 130	<0.0050	ug/g	NC	40
9901767	Acenaphthylene	2025/03/31	84	50 - 130	85	50 - 130	<0.0050	ug/g	NC	40
9901767	Anthracene	2025/03/31	96	50 - 130	100	50 - 130	<0.0050	ug/g	NC	40
9901767	Benzol(a)anthracene	2025/03/31	90	50 - 130	84	50 - 130	<0.0050	ug/g	NC	40
9901767	Benzol(a)pyrene	2025/03/31	83	50 - 130	86	50 - 130	<0.0050	ug/g	NC	40
9901767	Benzol(b)/fluoranthene	2025/03/31	92	50 - 130	104	50 - 130	<0.0050	ug/g	NC	40
9901767	Benzol(g,h,i)perylene	2025/03/31	128	50 - 130	71	50 - 130	<0.0050	ug/g	NC	40
9901767	Benzol(k)fluoranthene	2025/03/31	104	50 - 130	96	50 - 130	<0.0050	ug/g	NC	40
9901767	Chrysene	2025/03/31	91	50 - 130	88	50 - 130	<0.0050	ug/g	NC	40
9901767	Dibenzo(a,h)anthracene	2025/03/31	107	50 - 130	72	50 - 130	<0.0050	ug/g	NC	40
9901767	Fluoranthene	2025/03/31	117	50 - 130	94	50 - 130	<0.0050	ug/g	NC	40
9901767	Fluorene	2025/03/31	93	50 - 130	91	50 - 130	<0.0050	ug/g	NC	40
9901767	Indeno(1,2,3-cd)pyrene	2025/03/31	120	50 - 130	86	50 - 130	<0.0050	ug/g	NC	40
9901767	Naphthalene	2025/03/31	88	50 - 130	92	50 - 130	<0.0050	ug/g	NC	40
9901767	Phenanthrene	2025/03/31	87	50 - 130	87	50 - 130	<0.0050	ug/g	NC	40
9901767	Pyrene	2025/03/31	123	50 - 130	101	50 - 130	<0.0050	ug/g	NC	40
9902053	1,1,1,2-Tetrachloroethane	2025/04/01	110	60 - 140	107	60 - 130	<0.040	ug/g	NC	50
9902053	1,1,1-Trichloroethane	2025/04/01	99	60 - 140	95	60 - 130	<0.040	ug/g	NC	50
9902053	1,1,2,2-Tetrachloroethane	2025/04/01	96	60 - 140	94	60 - 130	<0.040	ug/g	NC	50
9902053	1,1,2-Trichloroethane	2025/04/01	98	60 - 140	97	60 - 130	<0.040	ug/g	NC	50



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Bureau Veritas Job #: CS34309
Report Date: 2025/04/09

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9902053	1,1-Dichloroethane	2025/04/01	99	60 - 140	94	60 - 130	<0.040	ug/g	NC	50
9902053	1,1-Dichloroethylene	2025/04/01	98	60 - 140	94	60 - 130	<0.040	ug/g	NC	50
9902053	1,2-Dichlorobenzene	2025/04/01	102	60 - 140	101	60 - 130	<0.040	ug/g	NC	50
9902053	1,2-Dichloroethane	2025/04/01	101	60 - 140	98	60 - 130	<0.049	ug/g	NC	50
9902053	1,2-Dichloropropane	2025/04/01	101	60 - 140	97	60 - 130	<0.040	ug/g	NC	50
9902053	1,3-Dichlorobenzene	2025/04/01	102	60 - 140	100	60 - 130	<0.040	ug/g	NC	50
9902053	1,4-Dichlorobenzene	2025/04/01	102	60 - 140	99	60 - 130	<0.040	ug/g	NC	50
9902053	Acetone (2-Propanone)	2025/04/01	93	60 - 140	93	60 - 140	<0.49	ug/g	NC	50
9902053	Benzene	2025/04/01	98	60 - 140	93	60 - 130	<0.0060	ug/g	NC	50
9902053	Bromodichloromethane	2025/04/01	99	60 - 140	95	60 - 130	<0.040	ug/g	NC	50
9902053	Bromoform	2025/04/01	102	60 - 140	100	60 - 130	<0.040	ug/g	NC	50
9902053	Bromomethane	2025/04/01	108	60 - 140	100	60 - 140	<0.040	ug/g	NC	50
9902053	Carbon Tetrachloride	2025/04/01	108	60 - 140	102	60 - 130	<0.040	ug/g	NC	50
9902053	Chlorobenzene	2025/04/01	93	60 - 140	91	60 - 130	<0.040	ug/g	NC	50
9902053	Chloroform	2025/04/01	101	60 - 140	97	60 - 130	<0.040	ug/g	NC	50
9902053	cis-1,2-Dichloroethylene	2025/04/01	107	60 - 140	101	60 - 130	<0.040	ug/g	NC	50
9902053	cis-1,3-Dichloropropene	2025/04/01	93	60 - 140	89	60 - 130	<0.030	ug/g	NC	50
9902053	Dibromochloromethane	2025/04/01	104	60 - 140	101	60 - 130	<0.040	ug/g	NC	50
9902053	Dichlorodifluoromethane (FREON 12)	2025/04/01	106	60 - 140	101	60 - 140	<0.040	ug/g	NC	50
9902053	Ethylbenzene	2025/04/01	95	60 - 140	93	60 - 130	<0.010	ug/g	NC	50
9902053	Ethylene Dibromide	2025/04/01	98	60 - 140	97	60 - 130	<0.040	ug/g	NC	50
9902053	F1 (C6-C10) - BTEX	2025/04/01					<10	ug/g	NC	30
9902053	F1 (C6-C10)	2025/04/01	93	60 - 140	91	80 - 120	<10	ug/g	NC	30
9902053	Hexane	2025/04/01	111	60 - 140	106	60 - 130	<0.040	ug/g	NC	50
9902053	Methyl Ethyl Ketone (2-Butanone)	2025/04/01	94	60 - 140	92	60 - 140	<0.40	ug/g	NC	50
9902053	Methyl Isobutyl Ketone	2025/04/01	93	60 - 140	93	60 - 130	<0.40	ug/g	NC	50
9902053	Methyl t-butyl ether (MTBE)	2025/04/01	96	60 - 140	94	60 - 130	<0.040	ug/g	NC	50
9902053	Methylene Chloride(Dichloromethane)	2025/04/01	100	60 - 140	95	60 - 130	<0.049	ug/g	NC	50
9902053	o-Xylene	2025/04/01	104	60 - 140	102	60 - 130	<0.020	ug/g	NC	50
9902053	p+m-Xylene	2025/04/01	95	60 - 140	93	60 - 130	<0.020	ug/g	NC	50
9902053	Styrene	2025/04/01	101	60 - 140	97	60 - 130	<0.040	ug/g	NC	50
9902053	Tetrachloroethylene	2025/04/01	102	60 - 140	97	60 - 130	<0.040	ug/g	0.59	50



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Bureau Veritas Job #: C534309
Report Date: 2025/04/09

QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9902053	Toluene	2025/04/01	100	60 - 140	98	60 - 130	<0.020	ug/g	NC	50
9902053	Total Xylenes	2025/04/01					<0.020	ug/g	NC	50
9902053	trans-1,2-Dichloroethylene	2025/04/01	109	60 - 140	102	60 - 130	<0.040	ug/g	NC	50
9902053	trans-1,3-Dichloropropene	2025/04/01	104	60 - 140	100	60 - 130	<0.040	ug/g	NC	50
9902053	Trichloroethylene	2025/04/01	103	60 - 140	97	60 - 130	<0.010	ug/g	NC	50
9902053	Trichlorofluoromethane (FREON 11)	2025/04/01	105	60 - 140	99	60 - 130	<0.040	ug/g	NC	50
9902053	Vinyl Chloride	2025/04/01	113	60 - 140	105	60 - 130	<0.019	ug/g	NC	50
9902290	F2 (C10-C16 Hydrocarbons)	2025/04/02	93	60 - 140	89	80 - 120	<7.0	ug/g	NC	30
9902290	F3 (C16-C34 Hydrocarbons)	2025/04/02	96	60 - 140	92	80 - 120	<5.0	ug/g	NC	30
9902290	F4 (C34-C50 Hydrocarbons)	2025/04/02	90	60 - 140	86	80 - 120	<5.0	ug/g	NC	30
9902522	WAD Cyanide (Free)	2025/04/02	94	75 - 125	99	80 - 120	<0.01	ug/g	NC	35
9902641	Chromium (VI)	2025/04/02	81	70 - 130	96	80 - 120	<0.18	ug/g	4.9	35
9902678	Hot Water Ext. Boron (B)	2025/04/02	104	75 - 125	108	75 - 125	<0.050	ug/g	NC	40
9902750	Available (CaCl2) pH	2025/04/02			100	97 - 103			0.69	N/A
9902805	Conductivity	2025/04/02			101	90 - 110	<0.002	ms/cm	3.0	10
9902853	Acid Extractable Antimony (Sb)	2025/04/02	97	75 - 125	101	80 - 120	<0.20	ug/g	NC	30
9902853	Acid Extractable Arsenic (As)	2025/04/02	100	75 - 125	104	80 - 120	<1.0	ug/g	3.5	30
9902853	Acid Extractable Barium (Ba)	2025/04/02	90	75 - 125	96	80 - 120	<0.50	ug/g	4.0	30
9902853	Acid Extractable Beryllium (Be)	2025/04/02	94	75 - 125	97	80 - 120	<0.20	ug/g	NC	30
9902853	Acid Extractable Boron (B)	2025/04/02	93	75 - 125	98	80 - 120	<5.0	ug/g	NC	30
9902853	Acid Extractable Cadmium (Cd)	2025/04/02	96	75 - 125	100	80 - 120	<0.10	ug/g	NC	30
9902853	Acid Extractable Chromium (Cr)	2025/04/02	99	75 - 125	98	80 - 120	<1.0	ug/g	1.3	30
9902853	Acid Extractable Cobalt (Co)	2025/04/02	97	75 - 125	102	80 - 120	<0.10	ug/g	5.5	30
9902853	Acid Extractable Copper (Cu)	2025/04/02	92	75 - 125	98	80 - 120	<0.50	ug/g	1.1	30
9902853	Acid Extractable Lead (Pb)	2025/04/02	89	75 - 125	96	80 - 120	<1.0	ug/g	3.4	30
9902853	Acid Extractable Mercury (Hg)	2025/04/02	90	75 - 125	101	80 - 120	<0.050	ug/g	NC	30
9902853	Acid Extractable Molybdenum (Mo)	2025/04/02	96	75 - 125	96	80 - 120	<0.50	ug/g	NC	30
9902853	Acid Extractable Nickel (Ni)	2025/04/02	97	75 - 125	100	80 - 120	<0.50	ug/g	2.1	30
9902853	Acid Extractable Selenium (Se)	2025/04/02	100	75 - 125	105	80 - 120	<0.50	ug/g	NC	30
9902853	Acid Extractable Silver (Ag)	2025/04/02	94	75 - 125	99	80 - 120	<0.20	ug/g	NC	30
9902853	Acid Extractable Thallium (Tl)	2025/04/02	92	75 - 125	100	80 - 120	<0.050	ug/g	NC	30
9902853	Acid Extractable Uranium (U)	2025/04/02	94	75 - 125	101	80 - 120	<0.050	ug/g	3.7	30



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
 Client Project #: 02103035.000
 Site Location: 424 CHURCHILL AVE N
 Sampler Initials: AQ

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9902853	Acid Extractable Vanadium (V)	2025/04/02	103	75 - 125	100	80 - 120	<5.0	ug/g	8.0	30
9902853	Acid Extractable Zinc (Zn)	2025/04/02	98	75 - 125	105	80 - 120	<5.0	ug/g	8.5	30
9902902	Available (CaCl2) pH	2025/04/02			99	97 - 103			0.34	N/A
9903264	WAD Cyanide (Free)	2025/04/03	108	75 - 125	101	80 - 120	<0.01	ug/g	NC	35
9903277	F4G-sg (Grav. Heavy Hydrocarbons)	2025/04/03	90	65 - 135	101	65 - 135	<100	ug/g	10	50
9903310	Chromium (VI)	2025/04/03	45 (1)	70 - 130	94	80 - 120	<0.18	ug/g	NC	35
9903353	Acid Extractable Antimony (Sb)	2025/04/03	110	75 - 125	118	80 - 120	<0.20	ug/g		
9903353	Acid Extractable Arsenic (As)	2025/04/03	105	75 - 125	105	80 - 120	<1.0	ug/g		
9903353	Acid Extractable Barium (Ba)	2025/04/03	NC	75 - 125	101	80 - 120	<0.50	ug/g	0.0073	30
9903353	Acid Extractable Beryllium (Be)	2025/04/03	103	75 - 125	103	80 - 120	<0.20	ug/g	5.4	30
9903353	Acid Extractable Boron (B)	2025/04/03	91	75 - 125	100	80 - 120	<5.0	ug/g	5.7	30
9903353	Acid Extractable Cadmium (Cd)	2025/04/03	105	75 - 125	105	80 - 120	<0.10	ug/g	10	30
9903353	Acid Extractable Chromium (Cr)	2025/04/03	NC	75 - 125	107	80 - 120	<1.0	ug/g	2.8	30
9903353	Acid Extractable Cobalt (Co)	2025/04/03	106	75 - 125	107	80 - 120	<0.10	ug/g	2.5	30
9903353	Acid Extractable Copper (Cu)	2025/04/03	99	75 - 125	103	80 - 120	<0.50	ug/g	4.0	30
9903353	Acid Extractable Lead (Pb)	2025/04/03	105	75 - 125	106	80 - 120	<1.0	ug/g	2.7	30
9903353	Acid Extractable Molybdenum (Mo)	2025/04/03	97	75 - 125	99	80 - 120	<0.50	ug/g	NC	30
9903353	Acid Extractable Nickel (Ni)	2025/04/03	106	75 - 125	108	80 - 120	<0.50	ug/g	6.3	30
9903353	Acid Extractable Selenium (Se)	2025/04/03	100	75 - 125	101	80 - 120	<0.50	ug/g		
9903353	Acid Extractable Silver (Ag)	2025/04/03	102	75 - 125	100	80 - 120	<0.20	ug/g	NC	30
9903353	Acid Extractable Thallium (Tl)	2025/04/03	104	75 - 125	106	80 - 120	<0.050	ug/g	0.76	30
9903353	Acid Extractable Uranium (U)	2025/04/03	108	75 - 125	110	80 - 120	<0.050	ug/g	0.49	30
9903353	Acid Extractable Vanadium (V)	2025/04/03	NC	75 - 125	108	80 - 120	<5.0	ug/g	1.7	30
9903353	Acid Extractable Zinc (Zn)	2025/04/03	NC	75 - 125	109	80 - 120	<5.0	ug/g	4.0	30
9903387	Hot Water Ext. Boron (B)	2025/04/03	115	75 - 125	104	75 - 125	<0.050	ug/g	6.1	40



QUALITY ASSURANCE REPORT(CONT'D)

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
9903408	Available (CaCl2) pH	2025/04/03			100	97 - 103			0.53	N/A

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) The matrix spike recovery was below the lower control limit. This may be due in part to the reducing environment of the sample. The sample was reanalyzed with the same results



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Bureau Veritas Job #: C534309
Report Date: 2025/04/09

Englobe Corp.
Client Project #: 02103035.000
Site Location: 424 CHURCHILL AVE N
Sampler Initials: AQ

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Cristina Carriere, Senior Scientific Specialist

Louise Harding, Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.