



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT

Proposed Hintonburg Development
Ottawa, Ontario

Revised March 1, 2024

Prepared for:

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Executive Summary

Taggart Realty Management / 1000147699 Ontario Inc. (the Client) retained Stantec Consulting Ltd. (Stantec) to conduct a Phase Two Environmental Site Assessment (ESA) for the properties bounded by Spencer Street, Parkdale Avenue, Armstrong Street and, Hamilton Avenue North (the “Phase Two Property” or the “Site”) in Ottawa, Ontario. These properties are broadly referred to as the “Block”. The municipal addresses for the properties within the Block are 3 Hamilton Avenue North (which includes units 5, 7A, 7B, and 340 Parkdale Avenue); and 223, 229, and 233 Armstrong Street.

The Phase Two ESA was conducted to characterize soil, groundwater and soil vapour at areas of potential environmental concern (APECs) identified as part of a Phase One ESA completed by Stantec for the contaminants of concern (COCs) associated with identified potentially contaminating activities (PCAs) and was completed consistent with the requirements of Ontario Regulation (O.Reg.)153/04. Soil and groundwater quality was assessed in the context of the applicable Ministry of Environment, Conservation and Parks (MECP) (MOE, 2011) Site Condition Standards (SCS) as referenced by O.Reg.153/04.

SITE DESCRIPTION AND CURRENT OPERATIONS

Based on the historical information gathered during the Phase One ESA, the Phase One Property and surrounding Study Area (within 250 m of the Phase One Property) were generally vacant/undeveloped or of residential property use prior to 1920. From 1920 until present day, the Phase One Property and surrounding Study Area have been developed for mixed residential/commercial/light industrial uses. Based on aerial photography, the Phase One Property underwent its first major development sometime between 1928 and 1958, and the buildings present in 1958 appear to be of similar configuration as present day.

At the time of the Phase Two ESA work, the Site consisted of multiple multi-tenant buildings, a paved parking area, and a grassy/treed courtyard area. Operations included a pet salon, a home hardware storage space (hardwood and tile storage), a storage service, several small coffee shops, an upholsterer, a bicycle shop, a tattoo parlor, a workout space, and a pub. The Client is proposing to redevelop the Site into a multi-storey mixed-use residential development with underground parking.

PREVIOUS INVESTIGATIONS

Stantec reviewed several previous environmental reports that were publicly available or provided to Stantec under a confidentiality agreement including: a Phase I ESA, a Phase II ESA, a Remedial Action Plan (RAP), groundwater injection reports, air sampling reports, soil vapour sampling reports and groundwater monitoring reports completed by several consultants between 2005 to 2023. In addition, a historical summary of groundwater, soil vapour and survey data were provided to Stantec. The previous environmental reports have been summarized in section 2.2 of this Phase Two ESA.



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Based on our review, the most recent Phase I ESA completed by Paterson Group Inc. (Paterson) in October 2011 identified six PCAs contributing to two on-site APECs and 13 PCAs located at 11 off-site properties within the 250 m of the Block that were not determined to result in APECs.

Paterson completed a Phase II ESA concurrently with the Phase I ESA (Paterson, 2011b). The Phase II ESA completed by Paterson identified chlorinated solvent impacts in the groundwater at the Block ranging from marginal exceedances to concentrations approximately 700 times the applicable standard. The chlorinated solvents and other measured impacts included: tetrachloroethylene (PCE), trichloroethylene (TCE), vinyl chloride, benzene, 1,2-dichloroethane, and 1,1-dichloroethylene (DCE). Paterson also developed a RAP (Paterson, 2012) in conjunction with the Phase I and Phase II ESAs to support the potential re-development of a portion of the Site which included an Area of Environmental Concern (AEC). The RAP recommended a full-depth remediation approach, including pumping and treatment of impacted groundwater to be undertaken concurrently with redevelopment.

Stantec conducted a Phase One ESA at the Phase Two Property (Stantec, 2023) in June 2023 which identified seventeen APECs. Details of the Phase One ESA are provided in section 2.2.1 of this Phase Two ESA.

This Phase Two ESA included a review of historical investigations for the Phase Two Property and adjacent properties, the advancement of boreholes, sampling and monitoring of the existing monitoring wells, and a soil, groundwater, and soil vapour assessment program. After reviewing the historical reports provided by others, or publicly available, considering the existing groundwater monitoring well network and given the constraints associated with the existing buildings, it was determined that no additional monitoring wells would be required to delineate groundwater quality, and a non-standard delineation approach could be applied for this Site.

The fieldwork for the Phase Two ESA was completed between June and July 2023. Soil and groundwater samples were collected for analysis of one or more of the following: petroleum hydrocarbons (PHCs), polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, xylenes (BTEX), selected metals and inorganics (Barium, Beryllium, Boron, Cadmium, Cobalt, Copper, Lead, Molybdenum, Nickel, Silver, Thallium, Uranium, Vanadium, Zinc, and hydride forming metals: Antimony, Arsenic, Selenium and other regulated parameters including Cyanide and Electrical Conductivity (EC), Sodium Adsorption ration (SAR), Fraction of Organic Carbon and pH).

The findings of the Phase Two ESA were as follows:

- Considering the proposed redevelopment of the Site, the MOE (2011) Table 7 SCS for Residential/Parkland/Institutional land use in a non-potable groundwater condition with coarse textured soils were considered the standards applicable at the Phase Two Property.
- Soil vapour results were compared to calculated soil vapour criteria for a slab-on-grade, commercial scenario. The potential for soil vapour intrusion in a residential scenario will be evaluated within a planned, regulated risk assessment process.
- The soil profile observed by Stantec during the Phase Two ESA was generally consistent with that reported during previous investigations at the Phase Two Property. Generally, the soil profile consisted of up to 1.75 m of silty sand fill and granular material which was underlain by limestone bedrock.



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- Bedrock geology in the Study Area was mapped as limestone, dolostone, shale, arkose, and sandstone of the Ottawa Group and Simcoe Group, Shadow Lake Formation (MNR, 1991). Limestone bedrock was encountered at depths between 0.46 m and 1.2 m BGS during this investigation.
- The depth to water measured in the shallow bedrock groundwater unit during the June 2023 monitoring event ranged from 1.14 m to 6.99 m BGS, with groundwater elevations ranging from 55.30 m above mean sea level (m AMSL) to 60.88 m AMSL. The depth to water measured in the intermediate bedrock groundwater unit during the June 2023 monitoring event ranged from 4.54 m to 5.81 m BGS, with groundwater elevations ranging from 56.45 m AMSL to 58.04 m AMSL. The depth to water measured in the deep bedrock groundwater unit during the June 2023 monitoring event ranged from 5.42 m below top of pipe (m BTOP) to 8.20 m BTOP, with groundwater elevations ranging from 54.47 m AMSL to 57.24 m AMSL.
- Based on groundwater level measurements from 2023, the groundwater flow direction in the shallow groundwater unit was interpreted to be north to northeast and was influenced by the presence of utility trenches. The groundwater flow direction in the intermediate groundwater unit was interpreted based on historical trends to generally be toward the north to northeast in June 2023. The groundwater flow direction in the deep groundwater unit could not be inferred since one of the three deep wells was dry in June 2023. However, based on the observed deep groundwater elevations, a south to southeast component to the flow direction (toward the geological fault adjacent to the east of the Site) was apparent. Interpreted groundwater flow directions were consistent with observations from previous investigations.
- The horizontal hydraulic gradient was calculated to be approximately 0.59 m/m, based on the June 2023 monitoring event. The average hydraulic conductivity (K) in bedrock at the Site was previously calculated as part of the 2005 Remedial Action Plan (Golder, 2005b) and was reported to range between 6.27×10^{-7} (MW01-10) and 5.35×10^{-6} m/s (MW00-4).
- Metals including hydride forming metals, PAHs, PHCs F1 to F4, and VOCs were considered COCs for soil and for groundwater.
- The results of the Quality Assurance/Quality Control (QA/QC) procedures indicated that the data quality objectives (DQOs) for the soil and groundwater data were met, and that the data were of acceptable quality and adequate for their intended use.

Based on the results of the Phase One ESA and Phase Two and considering historical data, all the contaminants of concern have been identified at the Site. Multiple investigations have been completed to locate the maximum concentrations and delineate the soil and groundwater exceedances at the Site; however, not all contaminants of concern have been delineated and are known to extend off-site. The soil, groundwater, and soil vapour data collected by Stantec is consistent to historical results and additional efforts to delineate the soil and groundwater exceedances will not significantly contribute to the Site's conceptual site model, including the interpretation of the distribution and extent of the contaminants of concern.

The soil and groundwater results exceed the applicable Table 7 SCS and soil vapour results exceed the HBIAC. Soil and groundwater exceedances of Table 7 SCS and soil vapour exceedances of the HBIAC have the potential to create adverse effect for both on-site and off-site receptors. On-site conditions are being managed by Taggart through a proposed redevelopment which will remove a significant source of impacted soil, bedrock and groundwater at the Site. The proposed redevelopment will alter conditions during construction and Taggart will be completing an offsite monitoring program during redevelopment activities to assess the potential for adverse effect for off-site receptors. The risk to receptors on-site will



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be assessed through a Tier 3 SSRA. It is anticipated that conditions will be monitored post-construction to assess the risk for receptors at the Site. Off-site monitoring is currently being completed by others.

Based on the results of the Phase Two ESA, exceedances of the MOE (2011) Table 7 SCS for the COCs noted above were measured within APECs 1 to 7 at the Phase Two Property in both soil and groundwater at the time of the assessment. A summary of maximum concentrations for soil, groundwater and soil vapour were identified using historical data provided by others and incorporating the new data collected by Stantec.

Exceedances of soil and groundwater standards will be addressed through the completion of an O.Reg. 153/04 Tier 3 Site Specific Risk Assessment (Tier 3 SSRA).

The statements made in this Executive Summary are subject to the limitations included in **Section 6.1** and are to be read in conjunction with the remainder of this report.



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1.0 INTRODUCTION

Taggart Realty Management / 1000147699 Ontario Inc. (the Client) retained Stantec Consulting Ltd. (Stantec) to conduct a Phase Two Environmental Site Assessment (ESA) for the properties bounded by Spencer Street, Parkdale Avenue, Armstrong Street and, Hamilton Avenue North (the “Phase Two Property” or the “Site”) in Ottawa, Ontario. These properties are broadly referred to as the “Block”. The municipal addresses for the properties within the Block include 3 Hamilton Avenue North (which includes units 5, 7A, 7B, and 340 Parkdale Avenue); and 223, 229, and 233 Armstrong Street.

The Phase Two ESA was conducted for the Client to characterize soil, groundwater, and soil vapour at areas of potential environmental concern (APECs) identified as part of a Phase One ESA (Stantec, 2023) for the contaminants of concern (COCs) associated with identified potentially contaminating activities (PCAs). The Phase Two ESA included further assessment of COCs previously identified by others in soil and groundwater at the Phase Two Property.

The project's objective is to obtain a Record of Site Condition (RSC) to support redevelopment of the Block. Based on the results of the Phase One and Two ESA, Stantec is proposing to complete an Ontario Regulation (O. Reg.) 153/04 Tier III Risk Assessment to assess if soil, groundwater, and soil vapour concentrations measured during the Phase Two ESA pose an unacceptable risk to human health and ecological receptors. If unacceptable risk is identified, Stantec will propose appropriate risk management measures (RMM). Upon Ministry of the Environment, Conservation and Parks (MECP) approval of the Risk Assessment and issuance of a Certificate of Property Use (CPU), a Record of Site Condition (RSC) will be prepared and submitted for MECP acknowledgment.

A survey of the Phase Two Property is provided in **Appendix A**. The Site location and the Phase Two Property details are included on **Figure Nos. 1 and 2a**.

The Phase Two ESA was completed consistent with the industry practices documented in the Canadian Standard Association (CSA) Z769-00 standard for Phase Two ESAs and the requirements of Ontario Regulation (O.Reg.) 153/04. The report headings, format, and content follow the requirements of O.Reg. 153/04. Additional report sections were included to improve report clarity and completeness.

1.1 SITE DESCRIPTION

The Site encompasses the properties bounded by Spencer Street, Parkdale Avenue, Armstrong Street and, Hamilton Avenue North (the Phase One Property) in Ottawa, Ontario. These properties are broadly referred to as the “Block”. The municipal addresses for the properties within the Block are 3 Hamilton Avenue North (which includes units 5, 7A, 7B, and 340 Parkdale Avenue); and 223, 229, and 233 Armstrong Street.

Based on the historical information gathered during the Phase One ESA, the Phase One Property and surrounding Study Area (within 250 m of the Phase One Property) were generally vacant/undeveloped or



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of residential property use prior to 1920. From 1920 until present day, the Phase One Property and surrounding Study Area have been developed for mixed residential/commercial/light industrial uses.

Based on aerial photography, the Phase One Property underwent its first major development sometime between 1928 and 1958, and the buildings present in 1958 appear to be of similar configuration as present day.

At the time of the Phase Two ESA work, the Site consisted of multiple multi-tenant buildings, a paved parking area, and an inaccessible grassy/treed courtyard area. Current operations included a pet salon, a hardware storage space (hardwood and tile storage), a storage service, several small coffee shops, an upholsterer, a bicycle shop, a tattoo parlor, a workout space, and a pub.

The total area of the Phase Two Property is approximately 0.34 hectares (ha) (0.84 acres [ac]).

The Phase Two Property comprises of four parcels of land, and can be legally described as follows:

- 3 Hamilton Avenue North, Property Identifier Number [PIN] 04035-0144, and the legal description known as LT 1156, PL 157; LTS 1158 & 1159, PL 157; LT 1161, PL 157; OTTAWA
- 233 Armstrong Street, 7 Hamilton Avenue North, PIN 04035-0145, and the legal description known as LT 1163, PL 157; LT 1165, PL 157; OTTAWA
- 229 Armstrong Street, PIN 04035-0146, and the legal description known as PT LT 1160, PL 157; PT LT 1162, PL 157, PART 2 & 3, 4R1186; S/T CR664868; OTTAWA
- 223 Armstrong Street, PIN 04035-0147, and the legal description known as PT LT 1160, PL 157; PT LT 1162, PL 15 ; PT 1, 4R1186; AS IN NS89155 EXCEPT CR664868, T/W CR664868; OTTAWA

Figure No. 1 presents the Site's location. **Figure Nos. 2a** and **2b** present site plans showing the Site's features including the buildings, parking areas, landscaped areas, APECs, PCAs as well as the adjacent properties. **Appendix A** presents a Plan of Survey for the Site.

1.2 PROPERTY OWNERSHIP

The current owners of the Phase Two Property are 1000147699 Ontario Inc., 100165951 Ontario Inc. and Carleton Tavern (Ottawa) Limited. We understand that ownership may be subject to consolidation into one parcel at a later date under the Taggart Group.

Contact information for the owner is as follows:

Victoria Neadow, Assistant Property Manager
Taggart Realty Management
225 Metcalfe Street, Suite 708
Ottawa, Ontario, K2P 1P9

1.3 CURRENT AND PROPOSED FUTURE USES

The current property use at the Phase Two Property is commercial [O.Reg, 153/04, Part I, Section 1(2)]. The proposed future property use is for a multi-storey mixed-use (commercial and residential) building with several levels of underground parking.



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1.4 APPLICABLE SITE CONDITION STANDARDS

Considering the proposed redevelopment of the Site, the applicable Ministry of Environment, Conservation and Parks (MECP) generic Site Condition Standards (SCS) for the Phase Two Property were considered to be the MECP Table 7 SCS for Residential/Parkland/Institutional land use in a non-potable groundwater condition, with coarse textured soil (MOE, 2011).

Soil vapour results were compared to soil vapour criteria considered representative of concentrations below which no health risk would be expected for indoor receptors/occupants of the commercial buildings due to vapour intrusion. The soil vapour criteria were established by using a generic attenuation factor to adjust the MECP Health-Based Indoor Air Concentrations (HBIAC). The attenuation factor applied (0.004) is considered representative of vapour migration into a generic slab on grade commercial building. Future residential scenarios were not evaluated for the purpose of this report but will be considered within a planned regulated risk assessment process.

Stantec completed a review of the following site-specific characteristics to confirm the appropriate Table of applicable SCS:

Environmental Sensitivity

Section 41 of O.Reg.153/04 states that a property is environmentally sensitive if any of the following circumstances exist:

- (1)(a) *the property is,*
 - (i) *within an area of natural significance,*
 - (ii) *includes or is adjacent to an area of natural significance or part of such an area, or*
 - (iii) *includes land that is within 30 metres of an area of natural significance or part of such an area;*
- (b) *the soil at the property has a pH value as follows:*
 - (i) *for surface soil, less than 5 or greater than 9,*
 - (ii) *for sub-surface soil, less than 5 or greater than 11; or*
- (c) *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.*

Stantec's work did not identify areas of natural significance on or adjacent to the Phase Two Property. During the Phase Two ESA investigation, pH results were within the acceptable ranges of 5 to 9 for surface soils. Therefore, the Phase Two Property is not environmentally sensitive as per the definitions provided in Section 41 of O.Reg.153/04.

The boreholes advanced as part of this assessment indicated sampler refusal on bedrock between 0.46 m and 1.5 m BGS and for this reason subsurface soil samples (deeper than 1.5 m BGS) were not collected. The borehole logs are presented in **Appendix C**.



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Soil Thickness and Proximity to a Water Body

In areas of non-potable groundwater conditions, Table 3 SCS cannot be utilized if any of the following circumstances exist (Section 43.1 of O.Reg.153/04):

- (a) *the property is a shallow soil property; or*
- (b) *the property includes all or part of a water body or is adjacent to a water body or includes land that is within 30 metres of a water body.*

Stantec did identify bedrock within 2 metres (m) of the existing ground surface. The Ottawa River is located approximately 1 km north of the Site. There were no subsurface soils encountered during this investigation as bedrock generally was encountered above 1.5 m BGS and the Phase Two Property is considered a shallow soil property. Based on the subsurface investigation conducted as part of the current Phase Two ESA and a review of available mapping, the Phase Two Property is a shallow soil property, but is not situated within 30 m of a surface water body.

Soil Texture

Section 42.1 of O.Reg.153/04 identifies specific generic SCS for coarse and medium/fine textured soil. The use of SCS for medium and fine textured soils occurs when “more than 50 per cent by mass of particles are smaller than 75 micrometres (µm) in mean diameter”. The use of SCS for coarse textured occurs when “*at least 1/3 of the soil at the property, measured by volume, consists of coarse textured soil*”.

Grain size distribution analyses were completed on soil samples BH23-1, BH23-6, BH23-7 and BH23-8 as part of this assessment. Results of the grain size analyses indicated each of the samples had more than 60% by mass of particles greater than 0.075 mm in mean diameter. Based on the grain size distribution analysis, the soil at the Phase Two Property (by volume) would be considered coarse textured.

The grain size analysis results are provided in the laboratory certificates in **Appendix D**.

Groundwater Use

ERIS completed a search of the Ontario Water Well Database for the Site as part of the Phase One ESA (Stantec, 2023). The search results indicated the presence of 41 water wells located within the Phase One Study Area (i.e., within 250 m of the Property). The listed water well records do not suggest potable use; rather the reported uses were monitoring or observation wells.

Potable water obtained from the Ottawa River is supplied to properties located, in whole or in part, within 250 m of the boundaries of the Phase Two Property through a municipal drinking water system, as defined in the Safe Drinking Water Act, 2002.

The Phase Two Property is not located in an area designated in a municipal official plan as a wellhead protection area or other designation identified by the municipality for the protection of groundwater.



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Consistent with the requirements of O.Reg. 153/04, a letter stating the intention to apply non-potable SCS at the Site was provided to the City of Ottawa on September 27, 2023. A response to the letter has not yet been received by Stantec. However, based on the location of the Site and previous experience, the City of Ottawa should not have an objection to the use of non-potable SCS at the Site.

Considering the above information, the non-potable groundwater SCS available in O.Reg. 153/04 were considered applicable at the Phase Two Property.

Land Use

The current land use is commercial. However, as the proposed future property use is residential (with ground floor commercial), the SCS for Residential/Parkland/Institutional property use were considered applicable.

Applicable Standards

Based on a review of the property characteristics presented above and considering the proposed redevelopment of the Site into mixed-use residential, the MOE (2011) Table 7 SCS for use in a non-potable groundwater condition and a Residential/Parkland/Institutional land use with coarse textured soils were considered applicable at the Phase Two Property.

No hydrogeological or geological interpretations have been included as part of this project that would differ from the assumptions on which the O.Reg.153/04 Site Condition Standards are based.



2.0 BACKGROUND INFORMATION

2.1 PHYSICAL SETTING

Based on a review of topographic mapping and observations made during the Phase One ESA (Stantec, 2023), the regional surface drainage in the area of the Phase Two Property appears to be north toward the Ottawa River. The nearest major surface water body is the Ottawa River located approximately 1.0 km to the north.

According to the Phase II ESA completed by Paterson in 2011 (Paterson, 2011b), groundwater in the intermediate bedrock unit was determined to be flowing towards the north to northeast. In the site-wide and semi-annual groundwater monitoring reports (which included both on-site and off-site monitoring wells) completed by Golder in May 2019 (Golder, 2019a) and July 2019 (Golder, 2019b), respectively, it was determined that the groundwater flow direction in the shallow bedrock was variable (towards the west, north, and east), likely due to the heavy influence by underground utility trenches. While the groundwater flow direction in the intermediate and deep bedrock intervals was noted being east and northeast towards a geological fault (Golder, 2019a), it was interpreted that the COCs at the Phase Two Property appeared to be migrating in a southern direction due to the influence of the southerly dipping bedrock, with a slightly easterly migration component due to the geological fault.

It should be noted the elevation of the local groundwater table can generally mimic the local topography and may not reflect the regional trend in drainage. The local shallow groundwater flow pattern can also be influenced by nearby subsurface structures, such as building foundations, weeping tiles and utility trenches. Previously determined groundwater flow directions may not be reflective of current groundwater flow directions due to varying conditions during previous site investigations or current site investigations including on-going construction, remedial efforts at the Phase Two Property, changes to underground utilities, and the influence of temporary construction or permanent dewatering at properties within the Study Area.

The surface of the Phase Two Property (where buildings were not present) was primarily comprised of paved parking areas, concrete sidewalks, asphalt rights-of-way, and a grassy courtyard area. It is expected that surface water infiltrates to the subsurface through the grassy courtyard area or runs off towards the storm drains around the perimeter of the Phase Two Property. During the Phase One ESA site visit on March 17, 2023, there was significant pooling of rainwater in open potholes and other small, localized depressions including areas where monitoring wells had been installed.

2.2 PAST INVESTIGATIONS

Based on the reports available for Stantec's review, soil and groundwater investigations were completed by others at the Site as far back as 2005. The results of previous investigations are summarized in the following table:



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Table 1: Reviewed Environmental and Geotechnical Reports and Company Records

Title	Date	Client	Author
Analysis of Sources of Chlorinated Solvents at 223 Armstrong Street, 233 Armstrong Street and 3 Hamilton Avenue North, Ottawa, Ontario	August 2005	Honeywell International Inc. (Honeywell)	Golder Associates Ltd (Golder).
Findings: The purpose of this report was to assess and describe the sources of chlorinated solvents resulting in groundwater impacts identified at the Site through a review of geology, hydrogeology, and contaminant distribution at 223 Armstrong Street, 233 Armstrong Street, 3 Hamilton Avenue North, and surrounding properties. A review of historical documents indicated the presence of floor drains at 233 Armstrong Street that drained wastes from motor and parts degreasing into the subsurface. A review of historical documents indicated that Ottawa Shoe Manufacturing company at 233 Armstrong Street may have used tetrachloroethylene (PCE) in leather preparation. A review of historical documents indicated historical storage of liquid hazardous materials including various chlorinated solvent degreasers, in the courtyard area of 3 Hamilton Avenue North. A review of historical documents indicated the historical operation of a structure resembling a dry well, and the historical operation of a degreasing dip tank under a “lean-to” structure located in the courtyard of 3 Hamilton Avenue North. A review of historical reports documented a number of other off-site uses of chlorinated solvents including a foundry, printing facilities, a retail fuel outlet, and a former dry cleaner within the Study Area; however, it was noted that based on the distribution of impacts observed at the Site, these off-site potential sources were unlikely to be the sources of chlorinated solvent impacts identified at the Site. Two distinct areas of Dense Non Aqueous Phase Liquid (DNAPL) chlorinated solvents in soils in unsaturated zones were identified: 1) 3 Hamilton Avenue North, and 2) 233 Armstrong Street. The two areas of chlorinated solvents had distinct chemical signatures. The main COCs consisted of PCE, trichloroethylene (TCE), cis-1,2 dichloroethylene (DCE), and vinyl chloride. Additionally, some localized petroleum hydrocarbon impacts were identified. It was noted that all accessible soil was excavated down to bedrock across the courtyard areas of the Site (outside of the building footprints) in December 2000. It was not specified what type of material was imported to backfill the soil remediation excavation. Higher concentrations of chlorinated solvents in groundwater were observed at 233 Armstrong Street than at 3 Hamilton Avenue North. Based on the different chemical signatures, it appeared that the chlorinated solvents from 233 Armstrong Street had migrated towards 3 Hamilton Avenue North and beyond; however, the chlorinated solvents from 3 Hamilton Avenue North did not appear to have migrated towards 233 Armstrong Street. As the purpose of the report was to identify the sources of the confirmed chlorinated solvent impacts, no further recommendations were made at the time of report issuance; however, Golder did provide a Remedial Action Plan (RAP) under separate cover, summarized below. Based on the review of this report, Stantec has identified PCAs contributing to APECs were identified at 223 Armstrong Street (APEC 3a, 3b, 3c) and 3 Hamilton Avenue North (APEC 4a, 4b).			
Remedial Action Plan, Migration Control – For Perimeter Shallow Groundwater Control System, 3 Hamilton Avenue North, Ottawa, Ontario	August 2005	Honeywell International Inc.	Golder Associates Ltd.
Findings: The purpose of this report was to provide description of the technical justification for a perimeter groundwater control system to be installed around 3 Hamilton Avenue North, 223 Armstrong Street, and 233 Armstrong Street. The purpose of the perimeter groundwater control system was to prevent contaminants originating from the aforementioned properties from migrating to the municipal rights-of-way and other downgradient and surrounding properties. Sources of chlorinated solvents were identified at 3 Hamilton Avenue North and 233 Armstrong Street.			



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Title	Date	Client	Author
- 3 Hamilton Avenue North is downgradient of 233 Armstrong Avenue Street (implying a north/northwesterly local groundwater flow direction). The chlorinated solvents from 233 Armstrong Street were migrating towards 3 Hamilton Street and beyond. - Without prevention of further migration of the chlorinated solvents, shallow groundwater impacts may pose an unacceptable risk to indoor air at properties downgradient of the Site. - A network of eductors in extraction wells was proposed based on cost effectiveness, ease of upgrading additional recovery wells if needed, the ability to maintain a negative vacuum on the well head to effectively recover groundwater and vapour, and the ability to maintain low water levels in the wells to induce a reasonable radius of influence in the groundwater. - The proposed system would consist of 24 recovery wells installed to a depth of 7 metres below ground surface (m bgs) and designed for continual operation. Based on pilot testing, each eductor would have a radius of influence of up to 4 metres and would recover up to 1.0L/minute. - The proposed treatment system would have two waste streams (an air stream and a water stream), running through granular activated carbon fiber filters, and the expected groundwater extraction rate would be less than 50,000 litres per day.			
Ministry of Environment (MOE) (now MECP) correspondence with Golder Associates Ltd. in response to the Analysis of Sources of Chlorinated Solvents and the Remedial Action Plan for 223 Armstrong Street, 233 Armstrong Street and 3 Hamilton Avenue North, Ottawa, Ontario	October 13, 2005	Golder Associates Ltd.	Ministry of Environmental (Ontario)
Findings: A letter was provided to comment on the findings and recommendations of the Analysis of Sources of Chlorinated Solvents and the Remedial Action Plan for 223 Armstrong Street, 233 Armstrong Street and 3 Hamilton Avenue North, as well as to provide further recommendations and requirements, as applicable. - The Ministry was in agreement with the conclusions and proposed RAP provided by Golder as outlined in the two summarized reports above. - The Ministry was concerned that the success of the perimeter pump and treatment system may depend on how closely the system simulates the Sites hydrogeological conditions; therefore, the Ministry recommended that Golder conduct quarterly sampling of 12 monitoring wells for at least two years after initiating the treatment system. - The treatment system was required to be operational for as long as the identified DNAPL source zones existed, which “may be an exceedingly long time as no accurate estimation of contaminant source mass was determined at the Site.”			
Phase I – Environmental Site Assessment, Proposed Multi-Storey Building, 233 Armstrong Street, and 3 Hamilton Avenue North, Ottawa, Ontario	October 21, 2011	Tega Developments (Tega)	Paterson Group Inc. (Paterson)
Findings: The purpose of this report was to conduct a Phase I ESA to research the past and current land uses of the Site and surrounding Study Area and to identify any environmental concerns with the potential to have impacts on the Site. - The Phase I ESA documented six former industrial sites within 200 m of the Site that had been reported as having been redeveloped by present day. - No significant environmental concerns were identified during the site visit with exception of suspected asbestos containing material. No off-site concerns were identified. - The report indicated there were five unique PCAs at two properties (233 Armstrong Street [APEC 3a, 3b, 3c] and 3 Hamilton Avenue North [APEC 4a, 4b]). Paterson recommended a Phase II ESA to assess on-site groundwater impacts that had been previously documented, as well as a remedial program for the property prior to redevelopment.			



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Title	Date	Client	Author
Phase II – Environmental Site Assessment, Proposed Multi-Storey Building, 233 Armstrong Street, and 3 Hamilton Avenue North, Ottawa, Ontario	December 1, 2011	Tega Developments	Paterson Group Inc.
Findings:	The purpose of this report was to conduct a Phase II ESA along with a geotechnical study and remedial action plan (RAP) to support the proposed redevelopment of the Site as residential condominiums. - The Phase II ESA consisted of three boreholes advanced to a maximum depth of 18 m bgs and completed with monitoring wells. Groundwater samples were collected and submitted for the analysis of VOCs. - BH1 was drilled near the centre of the Site; BH2 was drilled at the southwestern corner of the Site; and BH3 was drilled near the northwestern corner of the Site. - Concentrations of DCE and chloroform exceeded MECP Table 7 standards at all three monitoring wells. - Concentrations of PCE exceeded MECP Table 7 standards at BH1 and BH2. - Concentrations of TCE and VC exceeded MECP Table 7 standards at BH1 and BH3 - Concentrations of benzene, 1,2-dichloroethane, and 1,1-DCE exceeded MECP Table 7 standards at BH1. - Exceedances varied from marginal to significant with the largest exceedance being PCE observed at a concentration to be 700 times the applicable standard at BH1 (APEC #3 and #4). Paterson recommended that a full-depth remediation approach including pumping and treatment of impacted groundwater be conducted concurrently with the proposed redevelopment activities.		
Report review, 3 Hamilton Avenue North and 233 Armstrong Street, Ottawa, Ontario	September 12, 2011	Business Development Bank of Canada	Pinchin Environmental
Findings:	The purpose of this report was to review five environmental reports previously completed for the Site from 2005 to 2011. Key points of each report are summarized below: <i>“Remedial Action Plan, Migration Control - For Perimeter Shallow Groundwater Control System, 3 Hamilton Avenue North, Ottawa, Ontario”, prepared by Golder Associates., for Honeywell International Inc., dated August 2005.</i> - Summarized, above. <i>“August 2010 Quarterly and Annual Off-Site Groundwater at 3 Hamilton Avenue North, Ottawa, Ontario”, prepared by Golder for Honeywell, dated February 2011.</i> - 71 monitoring well samples were assessed for primarily for VOCs with a few historical samples assessed for petroleum hydrocarbons (total petroleum hydrocarbons or fractions F1-F4) from quarterly and annual groundwater monitoring and sampling events since 2005. - Golder concluded that groundwater impacts within the shallow and deep bedrock remained present both on- and off-Site but that impacts in close proximity to the Site were not increasing. <i>“Soil Vapour Sampling and Screening Level Risk Assessment, 3 Hamilton Avenue North, Ottawa, Ontario”, prepared by Golder Associates for Honeywell International Inc., dated March 2011.</i> - Eight vapour sample probes were installed at the Site and select off-Site locations to collect samples to determine ambient vapour conditions. - Potential risks were calculated based on hazard quotients and incremental lifetime cancer risks, and human receptors were identified as being residential tenants (both children and adults).		



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	- Previous risk assessment investigations completed at the Site and surrounding properties concluded that chloroform concentrations did not originate from the on-Site impacts and were likely generated from an off-Site chlorinated source leak such as drinking water or sanitary sewer. The RA concluded that chloroform did not present unacceptable risk. - Additional risk was evaluated for construction workers with limited time in a hypothetical on-Site trench (human receptor) and it was determined that no significant risk could be identified; however, it was recommended that these human receptors take precaution in the form of respirators, long sleeve shirts, pants, gloves, and boots to minimize exposure and contact with the impacts. - Golder recommended vapour sampling be continued to ensure long-term risks from inhalation remain acceptable. <i>“Phase I-II Environmental Site Assessment, Proposed Multi-Storey Building, 233 Armstrong Street and 3 Hamilton Avenue North, Ottawa, Ontario”, prepared by Paterson Group Inc. for Tega Developments, dated August 12, 2011.</i> - Summarized, above. <i>“Environmental Remedial Action Plan and Associated Quantities, Proposed Residential Building, 233 Armstrong Street and 3 Hamilton Avenue North, Ottawa, Ontario”, prepared by Paterson for Tega Developments, dated August 15, 2011.</i> - The RAP consisted of a memorandum discussing Site development including excavating on-Site soil and bedrock to an approximate depth of 21 m bgs. - Paterson proposed that all groundwater accumulated in the excavation be pumped, treated on site via air stripping or granular activated carbon and then discharged to the City sanitary sewer system. - The remedial option would be required to meet MECP requirements to complete a Record of Site Conditions as a land use change was being proposed. - The excavation was estimated to be open for 6 to 8 months and drawdown created by the excavation was estimated to be approximately 85 to 170 metres. - It was surmised that any remaining impacts would biodegrade through natural attenuation.		
Memorandum - Environmental Remedial Action Plan, Proposed Residential Building, 233 Armstrong Street and 3 Hamilton Avenue - Ottawa	December 20, 2012	Tega Developments	Paterson Group Inc.
Findings:	The purpose of the 2012 memorandum was to revise the RAP from 2011 based on new information. A summary of key points in the RAP are below: - Paterson recommended that two additional deep monitoring wells be drilled to confirm groundwater contamination was not present below the proposed foundation depth of 21 metres. - A remediation program using a full depth generic approach be used, including source removal by excavating all VOC impacted soil, bedrock, and groundwater from within the boundaries of the Site. - Overburden soils, where present would be stripped and segregated for off-Site disposal. Soil would be stockpiled in 20 to 40 m³ piles and screened and tested for VOC impacts. - Bedrock would be removed by line drilling and blasting, and line drilled holes along the site perimeter would be immediately grouted to eliminate potential vertical migration of VOCs. - Following excavation, bedrock face would be sprayed with 50 mm layer of shotcrete to seal the bedrock surface and minimize vertical migration of off-Site impacted groundwater. - Groundwater and surface water infiltrating the excavation would be directed towards a lower area of the excavation and water would be pumped through a treatment system prior to being disposed. - A VOC resistant waterproof membrane would be installed between two layers of concrete along the concrete floor slab and follow up testing and corrections would be made, if necessary, to ensure the functionality of the membrane.		



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- A confirmatory sampling program would be carried out following the implementation of the RAP program.			

2.2.1 Phase One ESA

Stantec conducted a Phase One ESA at the Phase Two Property (Stantec, 2025). The objective of the Phase One ESA was to determine if APECs exist at the Phase One Property, which may be present as a result of current and/or past activities on the Phase One Property or adjacent/neighbouring properties within 250 m of the perimeter of the Phase One Property ("Phase One Study Area").

The Phase One ESA identified PCAs contributing to 17 APECs at the Phase Two Property. A summary of the PCAs and APECs is listed in the table below, as well as on **Figure No. 2b**.

Table 2: Areas of Potential Environmental Concern

APEC	Location of APEC on Phase One Property	PCA	Location of PCA (on-site or off-site)	Contaminants of Potential Concern ¹	Media Potentially Impacted (Ground water, soil and/or sediment)
1a	Southern portion of Phase One Property	PCA No. 6 Gasoline and Associated Products Storage in Fixed Tanks (O.Reg. 153/04 PCA 28) and a fuel related spill	Off-Site	- PAHs - VOCs - BTEX - PHCs - Metals	Soil and groundwater
1b	Southwest portion of Phase One Property	PCA No. 8 Commercial Autobody Shop (O.Reg. 153/04 PCA 10) and waste generation of various types including fuel related waste	Off-Site	- PAHs - VOCs - BTEX - PHCs - Metals	Soil and groundwater
1c	Southeast portion of Phase One Property	PCA No. 11 Gasoline and Associated Products Storage in Fixed Tanks (O.Reg. 153/04 PCA 28)	Off-Site	- PAHs - VOCs - BTEX - PHCs - Metals	Soil and groundwater
1d	South portion of Phase One Property	PCA No. 12 Mill, lumber yard, and dry kiln (O.Reg. 153/04 PCA Undefined)	Off-Site	- PAHs - VOCs - BTEX	Soil and groundwater



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APEC	Location of APEC on Phase One Property	PCA	Location of PCA (on-site or off-site)	Contaminants of Potential Concern ¹	Media Potentially Impacted (Ground water, soil and/or sediment)
				• PHCs • Metals	
1e	Southeast portion of Phase One Property	<i>PCA No. 13</i> Gasoline and Associated Products Storage in Fixed Tanks (O.Reg.153/04 PCA 28) Fuel related spill	Off-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
2	Northern portion of Phase One Property	<i>PCA No. 9</i> Gasoline and Associated Products Storage in Fixed Tanks (O.Reg. 153/04 PCA 28) and a fuel related spill	Off-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
3a	Southwestern portion of Phase One Property	<i>PCA No. 1</i> Potential PCE use during leather preparation for shoe fabrication (O.Reg.153/04 PCA Undefined)	On-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
3b	West portion of Phase One Property	<i>PCA No. 14</i> Metal Fabrication (O.Reg 153/04 PCA 34)	Off-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
3c	West portion of Phase One Property	<i>PCA No. 15</i> Gasoline and Associated Products Storage in Fixed Tanks (O.Reg. 153/04 PCA 28)	Off-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
4a	Northwest portion of Phase One Property	<i>PCA No. 3</i> Vehicles and Associated Parts Manufacturing ¹ (O.Reg.	On-Site	• PAHs • VOCs • BTEX	Soil and groundwater



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APEC	Location of APEC on Phase One Property	PCA	Location of PCA (on-site or off-site)	Contaminants of Potential Concern ¹	Media Potentially Impacted (Ground water, soil and/or sediment)
		153/04 PCA 57) and waste generation of various types including fuel related waste and chlorinated solvents		• PHCs • Metals	
4b	Northwest portion of Phase One Property	PCA No. 7 Metal Fabrication (O.Reg. 153/04 PCA 34)	Off-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and ground water
5a	Southeastern portion of Phase One Property	PCA No. 10 Fuel related spill	Off-Site	• BTEX • PHCs • Metals • PAHs • VOCs	Soil and groundwater
5b	Southeastern portion of One Property	PCA No. 16 Gasoline and Associated Products Storage in Fixed Tanks (O.Reg. 153/04 PCA 28). Two historical fuel oil ASTs in the northeast corner of the Carleton Tavern (223 Armstrong Street) that have been removed.	On-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
6a	Entire Phase One Property	PCA No. 2 2: Confirmed PCE, TCE, DCE, vinyl chloride and hydrocarbon impacts	On-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater



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APEC	Location of APEC on Phase One Property	PCA	Location of PCA (on-site or off-site)	Contaminants of Potential Concern ¹	Media Potentially Impacted (Ground water, soil and/or sediment)
6b	Entire Phase One Property	PCA No. 4 4: Importation of Fill Material of Unknown Quality (O.Reg. 153/04 PCA 30)	On-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
7	Northeast portion of the Site	PCA No. 5 Poorly managed waste in basement directly overlying eroded building foundation (O.Reg.153/04 PCA Undefined)	On-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
8	Central and south-central (exterior) portions of Phase One Property. Off-site sidewalks and roadways	PCA No. 17 Historical application of de-icing compounds (O.Reg.153/04 PCA Undefined)	On-Site Off-Site	• EC, SAR • Sodium, chloride	Soil and groundwater

Notes:

PHCs: petroleum hydrocarbons

BTEX: benzene, toluene, ethylbenzene and xylenes

VOCs: Volatile Organic Compounds

PAHs: polycyclic aromatic hydrocarbons

Metals includes: Barium, Beryllium, Boron, Cadmium, Cobalt, Copper, Lead, Molybdenum, Nickel, Silver, Thallium, Uranium, Vanadium, Zinc, and hydride forming metals: Antimony, Arsenic, Selenium and other regulated parameters including Cyanide and Electrical Conductivity (EC), Sodium Adsorption ratio (SAR)

¹-While there was no evidence to indicate manufacturing of automobile parts, there was evidence and information related to the historical manufacturing of navigational equipment for vehicles (aviation).

During the completion of the Phase One ESA in 2023, Stantec submitted a request to the MECP's Freedom of Information and Protection of Privacy Office who indicated that approximately 6,500 hardcopy pages had been located and are available for purchase. Stantec purchased the information, and it was received from the MECP on February 13, 2024. A total of 20,403 pages of records were provided and reviewed. Generally, the results were consistent with information that was previously provided to Taggart and summarized above. Further, considering the historical data there was no new information presented that would warrant additional environmental assessment.



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Data Corroboration and Validation

Stantec undertook efforts to perform data corroboration and validation of the information extracted from past environmental reports as required by O.Reg. 153/04. In the absence of guidance in O.Reg. 153/04, the data corroboration and validation was undertaken consistent with the requirements of Section 6.1.2 of CSA Standard Z769-00 for conducting Phase Two ESAs. The steps taken are summarized below:

- Stantec conducted Phase One and Two ESA studies to corroborate the findings of the past assessments summarized above.
- Stantec sampling was completed consistent with the methodologies required by O.Reg. 153/04. Groundwater samples were collected and submitted for analysis of the COCs.

Stantec collected groundwater samples from previously installed monitoring wells in June 2023. Sampled monitoring wells included those installed by Golder and Paterson. Groundwater samples were analyzed by an appropriately accredited laboratory for the COCs identified by the Phase One and Phase Two ESAs.



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3.0 SCOPE OF THE INVESTIGATION

This section presents an overview of the investigations undertaken at the Phase Two Property, a summary of the media investigated, the investigation methods utilized, description of the Phase One ESA Conceptual Site Model (CSM), a discussion of deviations from the Sampling and Analysis Plan (SAP), and a description of impediments encountered during the investigation. Considering the existing groundwater monitoring well network, historical data and given the constraints associated with the location of the buildings, it was determined that no additional monitoring wells would be required to delineate groundwater quality, and a non-standard delineation approach could be applied for this Site.

3.1 OVERVIEW OF SITE INVESTIGATION

The Phase Two ESA was conducted to further assess the presence and location of COCs that could potentially be associated with APECs identified at the Phase Two Property, as summarized in the Phase One ESA (Stantec, 2023).

The Phase Two ESA followed a non-standard delineation approach which included the advancement of boreholes, a soil and groundwater sampling program as well as an assessment of soil vapour. The Phase Two ESA SAP is provided in **Appendix B**. Stantec staff observed the drilling work completed during the current Phase Two ESA. The fieldwork for the Phase Two ESA was completed between June and July 2023.

The rationale for selection of borehole locations is presented below, as well as within the Phase Two ESA scope of work table within the SAP in **Appendix B**.

- Stantec advanced boreholes BH23-1 to BH23-8, in accessible locations with overburden soil, to supplement existing soil characterization in shallow fill at the Phase Two Property.
- Soil samples collected in the field from the boreholes and test pits were field-screened for combustible vapor concentrations (CVCs) using a, RKI Eagle™ 2 combustible gas detector. The Eagle 2 is equipped with a photoionization detector (PID) and was also used to field-screen for total organic vapors (TOV).
- Select soil samples from the completed boreholes were submitted to Paracel Laboratories for analyses of one or more of the following; PHCs, metals including hydride forming metals, inorganics, PAHs, FOC, VOCs, and grain size.
- Monitoring and sampling of accessible pre-existing monitoring wells in June 2023, and submission of groundwater samples to Paracel for laboratory analysis of one or more of the following; PHCs, metals including hydride forming metals, inorganics, PAHs, and VOCs.
- Soil vapour sampling was completed at eleven soil vapour probes across the Phase Two Property to evaluate the potential for adverse effects to future on-site residential receptors. Soil vapour samples were collected at vapour probes VP07-1, VP07-3, VP12-1, VP12-2, VP12-3, VP14-1, VP14-2, VP14-3, VP14-04, VP14-7, and VP14-10 in June 2023. Soil vapour samples were collected after integrity testing of the vapour probe and sampling train indicated that ambient air would not be introduced into the sample through leaks in the sampling train or vapour probe seal. The vapour probes were purged under a plastic shroud with approximately 40% helium. The concentration of helium in purged air was



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measured using a helium detector (MGD-2002). Soil vapour samples were collected at a rate of 140 mL/min into 1.4 L Summa canisters supplied by Bureau Veritas (BV) and analyzed for concentrations of PHC F1, PHC F2 (including aromatic and aliphatic subfractions) and VOCs.

- Determination of the appropriate soil and groundwater site condition standards for use at the Site in accordance with O.Reg. 153/04 as provided in the *Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act* (July 1, 2011).
- Derivation of the appropriate soil vapour standards.
- Interpretation of the field data and the analytical results.
- Comparison of the soil and groundwater analytical results to the MOE (2011) Table 7 Site Condition Standards for Residential/Parkland/Institutional land use.
- Preparation of a Phase Two ESA summary report consistent with the requirements of O.Reg. 153/04 and CSA standard Z769-00.

Borehole and monitoring well locations are shown on **Figure 2a**.

3.2 MEDIA INVESTIGATED

The media investigated during the Phase Two ESA that are applicable to the O.Reg. 153/04 RSC filing were soil and groundwater. No surface waters are present on or near the Site, and as such surface water or sediment were not sampled. The soil vapour characterized across the Phase Two Property was completed to evaluate the potential for adverse effect via vapour intrusion at the Phase Two Property.

Soil

The main objectives of the Stantec soil sampling program were to:

1. Assess soil quality, both laterally and vertically, at the Phase Two Property.
2. Corroborate and verify the locations and concentrations of the COCs identified at the Phase Two Property.
3. Collect additional soil data to address data gaps.

To meet these objectives, eight boreholes (BH23-1 to BH23-8) were advanced in the overburden soil using a direct-push drilling system with dual tube samplers. The boreholes were advanced to bedrock, encountered at depths ranging from approximately 0.46 m to 1.5 m below ground surface (m BGS).



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Soil samples collected during the assessment were analyzed as summarized below.

Parameter	No. of Samples Analyzed*
Metals including hydride forming metals & inorganics	8
pH	8
EC	8
SAR	8
PHC	8
VOCs	8
PAHs	8

*- Not including QA/QC (field duplicate) samples

Groundwater

The main objectives of the Stantec groundwater sampling program were to:

1. Assess groundwater quality, both laterally and vertically, at the Phase Two Property.
2. Corroborate and verify the locations and concentrations of the COCs at the Phase Two Property.

Based on the existing monitoring well network at the Site in shallow, intermediate, and deep bedrock intervals, it was determined that coverage was adequate and additional monitoring wells were not required to achieve the objectives of the current Phase Two ESA. Between June and July 2023, Stantec developed and sampled 16 existing monitoring wells (MW05-4A, MW05-4, MW00-4, MW19-12A, MW19-12B, MW01-10, MW00-6, MW14-2, MW19-13A, MW19-13B, MW14-1A, MW14-1B, MW08-31A, MW08-32A, MW08-33A and MW08-34) on the Phase Two Property. Nested monitoring wells MW08-31 A/B/C, MW08-32 A/B/C and MW08-33 A/B/C were screened in the shallow and intermediate bedrock interval. The “A” series for each well was sampled in the intermediate bedrock interval as it was the deepest well in the series. Monitoring and groundwater sampling for laboratory analysis of select COCs was completed at these existing monitoring wells.

Groundwater samples were analyzed as summarized below.

Parameter	No. of Samples Analyzed*
Metals including hydride forming metals & General Chemistry	16
PHC	16
PAHs	16
VOCs	16

*- Not including QA/QC (duplicate, blank and trip) samples



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3.3 PHASE ONE CONCEPTUAL SITE MODEL

A CSM is a site-specific description of how contaminants enter the environment, how they are transported and distributed within the environment, and pathways through which exposure to humans and the environment can occur. The CSM provides the basis and framework for designing sampling programs, assessing risks from contaminants, addressing uncertainties, determining source control requirements, and identifying risk management/remedial strategies. Some of the key elements required in the CSM are the location and type of contaminant sources, transport/migration factors, contaminant fate/behavior, exposure mechanism/pathways, and potential receptors (human health and ecological).

In assessing and developing the CSM for the Phase Two Property at the time of the Phase One ESA, the site-specific physical characteristics/pathways were evaluated to assess whether or not the PCAs identified by the Phase One ESA could contribute to one or more APECs at the Phase One Property. The physical characteristics/pathways are summarized in **Table 3** below. The APECs are summarized in **Section 2.2.1**, as well as Phase Two ESA scope of work table within the SAP in **Appendix B**.

The following physical characteristics/pathways were evaluated in order to assess whether PCAs have contributed to an APEC at the Phase One Property:

Table 3: Conceptual Site Model

Physical Characteristics/ Pathways	Description
Subsurface Soils	Based on information obtained from the Ontario Geological Survey Map titled Surficial Geology of Southern Ontario, the surficial geology in the vicinity of the Phase One Property generally consists of stone-poor, sandy silt to silty sand-textured till on Paleozoic terrain. According to previous assessments of the Site, surficial soils are principally fill and only present up to approximately 1.75 m bgs, overlying a shallow bedrock in the area.
Bedrock	Based on information obtained from the Ministry of Natural Resources and Forestry (MNR) Ontario Geological Survey Map 2544, titled Bedrock Geology of Ontario, Southern Sheet, bedrock in the vicinity of the Site is reported to consist of limestone, dolostone, shale, arkose, and sandstone of the Ottawa Group and Simcoe Group, Shadow Lake Formation. According to previous assessments of the Site and the Phase One Study Area, bedrock was encountered at depths as shallow as 0.81 m bgs.
Inferred Groundwater Flow Direction	Based on information accessed from the MNR online mapping, regional surface drainage (and anticipated shallow groundwater flow direction) is expected to flow to the north toward the Ottawa River approximately 1 km from the Phase One Property. It should be noted the elevation of the local groundwater table can generally mimic the local topography and may not reflect the regional trend in drainage. The local shallow groundwater flow pattern can also be influenced by nearby subsurface structures, such as building foundations, weeping tiles and utility trenches. According to the Phase II ESA completed by Paterson in 2011, groundwater in the shallow bedrock unit was determined to be flowing to the northeast; however, according to two semi-annual groundwater monitoring events by Golder in 2019 (April and September 2018), groundwater flow in shallow bedrock was variable towards the west, north, and east.



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Physical Characteristics/ Pathways	Description
	Groundwater flow in the deep bedrock was also noted as being as being eastward toward the geological fault adjacent to the east of the Site. Stormwater collected on the Site is anticipated to drain by infiltration or overland flow to nearby catch basins or roadways.
Underground Utilities	Given the current operations on the Site and surrounding Study Area and evidence provided by GeoOttawa, the Phase One Property is serviced and underground utilities can be observed surrounding the Phase One Property and likely under the Property. Sanitary and storm manholes, catch basins, and fire hydrants were observed along the streets bounding the Block.

Features and details in relation to the Phase One Study Area and the Phase One Property are presented on Figure **Nos. 1, 2a** and **2b**. In general, the figures present the following where applicable: road names and existing buildings and structures; water bodies; locations of areas of natural significance (if present); PCAs and APECs.

3.4 DEVIATIONS FROM SAMPLING AND ANALYSIS PLAN

No deviations from the SAP were identified that would affect the findings of the Phase Two ESA.

3.5 IMPEDIMENTS

There was no denial of access or other impediments during the Phase Two ESA. The overall objectives of the investigation and assessment were reviewed and met.



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4.0 INVESTIGATION METHOD

4.1 GENERAL

The investigation methodology was completed consistent with guidance provided by the MECP (MOE, 1996) and the requirements O.Reg.153/04.

The following sub-sections provide brief descriptions of the investigation methods, equipment used, sub-contractor information, and details/rationale for departures from standard operating procedures. Detailed investigation methodologies are presented in the SAP in **Appendix B**.

4.2 DRILLING AND EXCAVATING

Strata Drilling Group (Strata) was retained to undertake the drilling program in June 2023 at the Phase Two Property. Strata is a licensed well contractor under Regulation 903 of the *Ontario Water Resources Act*. Contact information for Strata is listed below.

Mr. Jan Dean
Strata Drilling Group
165 Shields Court
Markham, ON, L3R 8V2
Tel: 905) 872-8282
Fax: 905-940-2298
jandean@stratasoil.com

The borehole drilling undertaken by Stantec utilized the following equipment:

- Track-mounted GeoProbe 5610 drill rig equipped with direct-push continuous sampling equipment, and standard 1.2 m (4') long dual tube samplers,

Potential cross-contamination of samples was reduced by using cleaned drilling and sampling equipment. For the direct push drilling, dual tube samplers with disposable PVC liners were used for soil sample collection.

Stantec staff was present during the drilling activities at the Phase Two Property.

4.3 SOIL: SAMPLING

Soil samples were collected at regular intervals during the drilling program using dual-tube samplers with disposable PVC liners. One soil sample was collected from each borehole location.



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4.4 FIELD SCREENING MEASUREMENTS

Field screening of soil samples was conducted using an RKI Eagle 2 gas detector. The Eagle 2 measures combustible vapour concentrations (CVC) and is equipped with a photoionization detector (PID) for measurement of total organic vapour (TOV). The detailed equipment specifications are presented below. Field screening measurements are presented on the borehole logs in **Appendix C**.

Item	RKI Eagle 2 PID	RKI Eagle 2 CGI
Detector	10.6eV UV lamp	Combustible gas by catalytic combustion
Chemicals Detected	VOCs	Hydrocarbons
Detection Limits	0 – 50 ppm 0 – 4000 ppm	0 – 100% LEL (CH ₄) 0 – 50,000 ppm (CH ₄)
Accuracy	Not specified	±50 ppm or ±10% of reading ±5% of reading or ±2% LEL
Precision	Not specified	Not specified
Calibration Standards	Not specified	50% LEL CH ₄

Notes: LEL = Lower Explosive Limit, CH₄ = methane, ppm = parts per million, PID = photionization detector, CGI = Combustible Gas Indicator

Using the Eagle 2, “worst-case” soil samples were selected as those samples with the highest CVC/TOV concentrations. In some cases, however, professional judgment is required to select samples for analysis that are more consistent with the potential mode of contaminant release or contaminant type (e.g., metals) rather than just relying on analyzing the sample with the maximum field headspace reading. Because contamination extent is defined by the distance (laterally and vertically) to the nearest sample that meets the applicable standards, samples to determine the extent of soil impact (through comparison of SCS) may also be collected to represent “worst-case” (i.e., for that particular soil interval and location).

4.5 GROUNDWATER: MONITORING WELL INSTALLATION

4.5.1 Monitoring Well Construction

Based on our review of the location of the existing well network screened in shallow, intermediate and deep intervals, and considering the historical groundwater results, a non-standard delineation approach was considered appropriate and no additional monitoring wells were completed as part of this Phase Two ESA.

4.5.2 Monitoring Well Development

Stantec developed the existing wells using Waterra® tubing and foot valves since it had been nearly two years since all on-site wells had been sampled. Generally, the wells were purged until a minimum of 10 casing volumes of water were removed from each well, or the well was purged dry.



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4.6 GROUNDWATER: FIELD MEASUREMENT OF WATER QUALITY PARAMETERS

Water quality parameters were measured during the groundwater sampling events conducted between June and July 2023. Stantec measured pH, specific conductance, conductivity, temperature, dissolved oxygen concentration, and oxygen reducing potential during the well purging activities. Detailed equipment specifications are summarized below.

	Parameter		
	pH	Conductivity	Temperature
Range	0.00 to 14.00	0 to 200 mS/cm	-5 to 45°C
Resolution	0.01	0.001 mS/cm to 0.1 mS/cm (range dependent)	0.1°C
Accuracy	±0.2	±0.5% of reading or 0.001 mS/cm whichever is greater	±0.15 °C
Calibration Standards	pH 4.01, 7.00, & 10.00 solutions	1 mS/cm standard	Not required

mS – millisiemens

4.7 GROUNDWATER: MONITORING

During the groundwater monitoring events conducted in June 2023, activities included measuring depth to the water table, headspace CVC/TOV, and the presence/absence of phase-separated liquids in the previously installed monitoring wells. The groundwater monitoring data are summarized in **Table I**. Survey elevation data of the existing monitoring wells was provided by WSP for ease of comparison to historical results.

4.8 GROUNDWATER: SAMPLING

Previously installed monitoring wells (E3, MW00-4, MW00-6, MW01-10, MW05-4, MW05-4A, MW08-31A, MW08-32A, MW08-33A, MW08-34, MW14-1A, MW14-1B, MW14-2, MW16-01, MW19-12A, MW19-12B, MW19-13A, and MW19-13B) were sampled between June 26 and June 30, 2023. Nested monitoring wells MW08-31 A/B/C, MW08-32 A/B/C and MW08-33 A/B/C were all screened in the shallow and intermediate bedrock groundwater intervals. The “A” series for each well was sampled in the intermediate bedrock interval as it was the deepest well in the series. Injection wells (with the “IW” prefix) were not monitored or sampled during the current Phase Two ESA as results from these wells are not considered representative due to the previous injection of abiotic remediation products to these wells.

Based on previously completed reports by others, several other pre-existing monitoring wells were situated on the Site but not found (buried under fill or structures) and assumed to be destroyed.

Groundwater sampling methods are discussed in **Appendix B**.



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4.9 SOIL VAPOUR: SAMPLING

Soil vapour sampling was completed at eleven existing soil vapour probes (VP07-1, VP07-3, VP12-1, VP12-2, VP12-3, VP14-1, VP14-2, VP14-3, VP14-04, VP14-7 and VP14-10) across the Site to evaluate the potential for adverse effects to on-site residential receptors. Soil vapour samples were collected on June 21, June 22, and June 26, 2023. Soil vapour sampling procedures are included in **Appendix B**.

4.10 SEDIMENT: SAMPLING

Sediment was not present at the Phase Two Property.

4.11 ANALYTICAL TESTING

Stantec submitted soil and groundwater samples to Paracel Laboratories Ltd. (Paracel) in Ottawa, Ontario. Soil vapour samples were submitted to BV Labs in Mississauga, Ontario. Paracel and BV meet the accreditation requirements outlined in Section 47 of O.Reg.153/04

The soil and groundwater analytical results are summarized in **Tables II** and **IIIa**, respectively. Historical groundwater data reported by others under separate cover is summarized in **Table IIIb**. The soil and groundwater analytical data were compared with the Table 7 SCS. The soil and groundwater maximum concentrations for each analyzed parameter are summarized in **Table VII** and **VIII**, respectively.

The current soil vapour analytical results are summarized in **Table IVa** and historical soil vapour results are summarized in **Table IVb**.

The waste classification (TCLP) analyses in soil are summarized in **Table V**.

Laboratory certificates of analysis and chain-of-custody forms are included in **Appendix D**. Included with the laboratory reports are the analytical methods used and the laboratory reportable detection limits (RDLs).

4.12 RESIDUE MANAGEMENT PROCEDURES

Residue management procedures are discussed in the SAP in **Appendix B**.

4.13 QUALITY ASSURANCE AND QUALITY CONTROL MEASURES

The overall data quality objective (DQO) for the investigation was to collect data that were precise, accurate, reproducible, complete, and suitable for comparison with the MOE (2011) Table 7 SCS. QC sample analytical data is presented in **Tables II, IIIa, IIIb, IVa** and **IVb**. QA/QC program details are provided in the SAP in **Appendix B**.



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As an evaluation on the laboratory analytical methods and sampling precision, Stantec submitted the following QC samples to Paracel for analysis:

Soil

- One blind field duplicate sample for analysis of VOCs, PHCs, metals, and PAHs over the course of the assessment program.
- One blind field duplicate for fraction of organic carbon (FOC).

Groundwater

- Two blind field duplicate samples for analysis of VOCs, PHCs, metals, and PAHs over the course of the June 2023 sampling events.
- One trip blank sample for analysis of VOCs and PHCs F1 during the June 2023 sampling event.
- One field blank sample for analysis of VOCs and PHCs F1 during the June 2023 sampling event.

Soil Vapour

- Two blind field duplicate samples for analysis of VOCs, PHC F1 and F2, and aromatic and aliphatic PHC sub-fractions

Soil Vapour

- One blind field duplicate sample for analysis of VOCs, PHC F1 and F2, and aromatic and aliphatic PHC sub-fractions

Stantec used the Bureau Veritas (BV) Ontario QA/QC Interpretation Guide (BV Canada) to determine acceptable RPDs for parameters in soil and groundwater. This guide is based on the MECP Protocol for Analytical Methods Used in Assessment under Part XV.1 of the Environmental Protection Act, (amended, July 2011). The following values were used as screening criteria for soil and groundwater RPDs:

- PAHs; RPD $\leq$ 40% for soil, $\leq$ 30% for groundwater.
- PHCs; RPD $\leq$ 30% for soil and groundwater.
- VOCs; RPD $\leq$ 50% for soil, $\leq$ 30% for groundwater.
- Metals and inorganics; RPD $\leq$ 30% for soil, $\leq$ 20% for groundwater.
- Available Boron; RPD $\leq$ 40% for soil and groundwater.
- Hexavalent Chromium, chloride and cyanide; $\leq$ 35% for soil, $\leq$ 20% for groundwater.
- EC; RPD $\leq$ 10% for soil and groundwater.

Screening-level acceptance criteria for soil vapour of 50% were applied.

In addition to the field QC samples identified above for soil and groundwater, laboratory QC measures included analysis of laboratory replicates, filter blanks, and filter spikes.



5.0 REVIEW AND EVALUATION

5.1 GEOLOGY

5.1.1 Surficial Geology

The Phase Two Property is located within the Ottawa Valley Clay Plains physiographic region (Chapman & Putnam, 1984). The native surficial soils in the Study Area consist of stone-poor, sandy silt to silty sand-textured till on Paleozoic terrain (OGS, 2000).

The soil profile observed by Stantec during the Phase Two ESA was generally consistent with that reported during previous investigations at the Phase Two Property. Based on historical data, the soil profile consisted of up to 1.5 m of silty sand fill soil which was underlain by limestone bedrock. The main overburden units encountered in boreholes completed during the Phase Two ESA are summarized as follows:

- **Silty Sand (Fill):** Silty sand fill was encountered at BH23-1, BH23-2 to depths between 0.46 m and 1.5 m BGS and was underlain by limestone bedrock.
- **Sand and gravel (Fill):** Sand and gravel fill was encountered at BH23-3, BH23-4, BH23-5, BH23-6, BH23-7 and BH23-8 to depths between 0.46 m and 1.04 m BGS and was underlain by limestone bedrock.

Borehole logs are presented in **Appendix C**. Cross section profiles of stratigraphy are presented on **Figure Nos. 7 – 10**.

5.1.2 Bedrock Geology

Bedrock geology in the Study Area was mapped as limestone, dolostone, shale, arkose, and sandstone of the Ottawa Group and Simcoe Group, Shadow Lake Formation (MNR, 1991). Limestone bedrock was encountered at depths between 0.46 m and 1.5 m BGS during this investigation.

5.2 GROUNDWATER: ELEVATIONS AND FLOW DIRECTION

As part of the assessment programs, the depth to groundwater, presence/absence of liquid petroleum hydrocarbons (LPH), and well headspace CVC and TOV were monitored in accessible wells at the Phase Two Property in June 2023.

The following wells were monitored and sampled as part of the current Phase Two ESA: E-3, MW00-4, MW00-6, MW01-10, MW05-4, MW05-4A, MW08-31A, MW08-32A, MW08-33A, MW08-34, MW14-1A, MW14-1B, MW14-2, MW16-01, MW19-12A, MW19-12B, MW19-13A, and MW19-13B.

The following wells could not be located at the Site and were considered to have been destroyed: MW00-3, MW00-5, MW08-35, E-2, E-4, E-5, E-6 and MW03-34.



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Injection wells (with the “IW” prefix) were not monitored or sampled during the current Phase Two ESA as results from these wells would be biased low due to the previous injection of abiotic remediation products to these wells.

Groundwater at the Site is within the bedrock unit which has been assessed as three units; shallow, intermediate and deep. Based on the depths of well screens the monitoring wells were categorized as follows:

Shallow Bedrock Groundwater Unit: MW00-4, MW00-6, MW00-9, MW01-10, MW02-30, MW05-4, MW08-31A, MW08-32A, MW08-33A, MW14-1B, MW19-12B, MW19-13B.

Intermediate Bedrock Groundwater Unit: MW05-4A, MW08-34, MW14-1A, MW14-2, MW19-12A.

Deep Bedrock Groundwater Unit: E-3, MW16-01, BH1.

Monitoring data is summarized in **Table I**. The depth to water measured in the shallow bedrock groundwater unit during the 2023 monitoring event ranged from 1.14 to 6.99 m BGS, with groundwater elevations ranging from 55.30 m above mean sea level (m AMSL) to 60.88 m ASL.

The depth to water measured in the intermediate bedrock groundwater unit during the 2023 monitoring event ranged from 4.54 to 5.81 m BGS, with groundwater elevations ranging from 56.45 m AMSL to 58.04 m ASL.

The depth to water measured in the deep bedrock groundwater unit during the 2023 monitoring event ranged from 5.42 m BTOP to 8.20 m BGS, with groundwater elevations ranging from 54.47 m AMSL to 57.24 m ASL. Groundwater flow directions interpreted during the current investigation were generally consistent with those of previous investigations at the Phase Two Property.

The horizontal hydraulic gradient (i_h) was calculated to be approximately 0.29 m/m, based on the June 2023 monitoring event. The average hydraulic conductivity value was calculated as part of the 2005 RAP (Golder, 2005b) and was 2.87×10^{-7} m/s. Hydraulic conductivity was previously measured to range between 6.27×10^{-7} (MW01-10) and 5.35×10^{-6} m/s (MW00-4). It should be noted that groundwater contouring with fractured rock environments does not reflect the complexities of the subsurface environment where the connection and orientation of fractures controls the movement of groundwater. As such, the calculated gradient and hydraulic conductivity values should be considered estimates for discussion purposes.

Groundwater flow direction in shallow, intermediate and deep groundwater units is shown on Figures 3a, 3b and 3c, respectively. Based on groundwater level measurements from 2023, the groundwater flow direction in the shallow groundwater unit was determined to be north to northeast and was influenced by the presence of utility trenches.

Groundwater flow directions for intermediate and deep bedrock groundwater units could not be interpreted based on the limited data set. One of three deep wells were dry and intermediate wells that had survey data were in a linear orientation.



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However, based on historical data and groundwater flow trends, the intermediate groundwater unit is generally inferred to be toward the northeast. Based on the historical deep groundwater elevations, a south to southeast component to the flow direction (toward the geological fault adjacent to the east of the Site) was previously reported.

Based on the review of topographical mapping in the Phase One (Stantec, 2021), the inferred direction of groundwater flow was northeast towards the Ottawa River. It is noted that the groundwater flow direction in the shallow bedrock was variable (towards the west, north, and east), likely due to the heavy influence by underground utility trenches and bedrock fractures.

Dense non-aqueous phase liquids (DNAPL) were not observed on the reported monitoring dates. While it is recognized that elevated concentrations of some contaminants have been measured in groundwater, to date, no free phase DNAPL product has been observed in over 20 years of investigations and regular monitoring at the Site. Considering the alleged historical practice of disposing waste solvents in a dry well in the courtyard at the Site, there is potential for free phase DNAPL; however, encountering free phase DNAPL in a fractured bedrock geological setting can be challenging as the DNAPL follows fracture patterns which may not be intersected by a borehole and monitoring well.

Well headspace CVC and TOV data is summarized in **Table I**. Headspace CVC measurements at monitoring wells ranged from <5 ppm_v (various) to 33% LEL (MW14-1A) and TOV measurements ranged from <0.02 ppm_v (various) to 309 ppm_v (MW19-13B) between June 26 and June 30, 2023.

5.3 GROUNDWATER: HYDRAULIC GRADIENTS

The horizontal hydraulic gradient was calculated to be approximately 0.59 m/m, based on the June 2023 monitoring event.

Vertical hydraulic gradient was evaluated by Golder in 2005 (Golder, 2005b) at one pair of nested wells (MW05-4 and MW05-4A) using groundwater elevations from June 2005. The vertical gradient was upwards at well pair MW05-4/MW05-4A (0.65).

5.4 GROUNDWATER: HYDRAULIC CONDUCTIVITY

In situ hydraulic response testing was completed by Golder in May 2005, at monitoring well locations MW01-10 and MW00-4 to estimate hydraulic conductivity (K). Well recovery was monitored manually using an interface probe. The results of the response testing were analyzed using the Hvorslev solution (Hvorslev, 1951) to determine the horizontal hydraulic conductivity of the formation within the immediate vicinity of the monitoring well screen. The previously reported calculated K values were, 6.27×10^{-7} m/s for MW01-10 and 5.35×10^{-6} for MW00-4. Each of the wells were screened within the limestone bedrock.

5.5 SOIL TEXTURE

As summarized in **Section 1.4**, soil at the Phase Two Property was considered coarse textured based on field observations, a review of available borehole logs, and analysis of grain size for four collected soil samples. Each of the four analyzed samples had greater than 60 percent by mass of particles that were



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greater than 75 micrometres in mean diameter. The soil sample location, depths and descriptions are summarized in **Table 4**, below.

Table 4: Summary of Grain Size Analysis

Sample ID	Depth (m BGS)	Soil Classification (Field Observation)	Percent Passing 75 μ m Sieve (%)	Grain Size Classification
BH23-1	0.3 – 1.2	Silty sand (fill)	37	Coarse
BH23-6	0 – 0.7	Granular A (fill)	22	Coarse
BH23-7	0 – 0.8	Granular A (fill)	27	Coarse
BH23-8	0 – 1.0	Granular A (fill)	28	Coarse

The applicable soil texture at the Site was coarse. The grain size analysis results are presented in the laboratory certificates of analysis in **Appendix D** and are summarized in **Table II** with the soil analytical results.

5.6 SOIL: FIELD SCREENING

As summarized in **Section 4.4**, soil field screening for potential impacts was completed using visual and olfactory observation and by measuring headspace CVC and TOV using an RKI Eagle 2 equipped with a PID.

CVC measurements in soil samples collected during the drilling activities ranged from less than 5 parts per million by volume (ppmv) for multiple samples to 30 ppmv at sample BH23-2. TOV measurements ranged from less than 0.02 ppmv for multiple samples to 1 ppmv at sample BH23-3 and BH23-4. Soil screening CVC and TOV readings are presented on the borehole logs in **Appendix C**. Soil sampling locations are shown on **Figure No. 2a**.

5.7 SOIL QUALITY

The Phase Two ESA soil analytical results are summarized below and presented in **Table II**. Maximum concentrations of chemical parameters in soil are summarized in **Table VI**. Based on the results of the Phase One ESA and considering historical soil data, all the contaminants of concern have been identified in soil at the Site. Multiple investigations have been completed to delineate the soil exceedances at the Site and measure the maximum concentrations; however, not all COCs have been delineated and may extend off-site. The soil data collected by Stantec is consistent to historical results for VOCs and metals and inorganics and assessed PAHs that were not previously assessed. Based on the results and distribution of the sampling locations, additional efforts to delineate the soil exceedances will not significantly contribute to the Site's conceptual site model, including the interpretation of the distribution and extent of the contaminants of concern. Therefore, a non-standard delineation approach is being applied and no additional sampling is required on the Site.



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A summary of analytical results compared to MECP Table 7 SCS for the future residential land use are shown on **Figure Nos. 4a to 4d**.

Results of soil samples submitted for laboratory analysis that exceeded Table 7 Residential/Parkland/Institutional SCS during Phase Two ESA activities are summarized below.

Laboratory certificates of analysis are presented in **Appendix D**.

Samples exceeding T7 Residential/Parkland/Institutional SCS

- BH23-1 (0.3 – 1.2 m BGS) – electrical conductivity (EC)*, PHC F3, lead, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, tetrachloroethylene (PCE), trichloroethylene (TCE)
- BH23-2 and field duplicate QC-02 (0.3 – 1.5 m BGS) - PCE, TCE
- BH23-3 (0.1 – 0.4 m BGS) – EC*, PCE
- BH23-4 (0.1 – 0.7 m BGS) – EC*, lead, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, PCE, TCE
- BH23-5 (0.1 – 1.0 m BGS) – PCE
- BH23-6 (0.1 – 0.7 m BGS) – PCE
- BH23-7 (0.1 – 0.8 m BGS) – cadmium, thallium, fluoranthene
- BH23-8 (0.1 – 1.0 m BGS) - benzo(a)anthracene, benzo(a)pyrene, fluoranthene, PCE, TCE

* indicates parameter is not a COC.

5.7.1 Contaminants of Concern - Soil

COCs in soil at the Phase Two Property were typically identified using the following rationale:

1. If an analyzed parameter was not detected at concentrations greater than the laboratory RDLs in all of the soil samples analyzed for that parameter, the parameter was assumed absent from the Phase Two Property.
2. A parameter was considered a COC if it was detected at a concentration greater than the MECP (2011) Table 7 SCS.
3. A parameter was considered a COC if the RDL for the parameter was greater than the MECP (2011) Table 7 SCS and that parameter was detected in soil in other analyzed samples.
4. Parameters detected at concentrations greater than the laboratory RDLs, for which no MECP (2011) Table 7 SCS was available, were not considered COCs if the parameter was naturally occurring (e.g., metals such as iron and magnesium); otherwise, the parameter was considered a COC.

The following parameters were considered COCs in soil:

- Trichloroethylene (TCE), tetrachloroethylene (PCE)
- PHC F3
- Metals including hydride forming metals
- acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b/j)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene



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The metals package was selected based on the PCAs identified for each APEC and included hydride forming metals. The historical activities in each PCA where metals may have been a contaminant of concern did not identify processes that could lead to hexavalent chromium. There is no evidence of any leather tanning operations at the Site. The Ottawa Shoe Manufacturing Company used leather products, but there is no evidence to suggest it processed leather.

EC and SAR are not considered COCs at the Phase Two Property. The applicable site condition standards for EC or SAR are not deemed to have been exceeded for the purpose of Part XV.1 of the Environmental Protection Act. Per Section 49.1 of O. Reg. 153/04. EC and SAR impacts are interpreted to be present because of the placement of a substance (salt) on ground surfaces for the purposes of keeping the area safe for vehicular or pedestrian traffic under conditions of snow and/or ice. The Site included paved parking and pathway areas, which would have required de-icing measures for safety.

5.7.2 Area of Soil Impacts – BTEX and Petroleum Hydrocarbons

As summarized on **Figure No. 4a**, analytical results of PHCs from soil samples collected from boreholes during the current investigation identified the following Table 7 SCS exceedances:

- Concentrations of PHC F3 exceeding the Table 7 SCS from soil sample BH23-1 collected at a depth of 0.3 to 1.2 m BGS

Source, Distribution, and Migration of Identified Impacts

The identified PHC impacts noted in soil at the above-mentioned location were likely associated with historical on-Site fuel oil storage in the basement of 223 Armstrong Street (PCA 16, APEC 5b) and/or undocumented historical fuel spills at the Site.

As shown in plan view on **Figure No. 4a**, and cross-section on **Figure No. 7a** and **8a**, the identified PHC impacts to soil were vertically delineated by the presence of limestone bedrock at 1.2 m BGS.

The lateral extent of the PHC F3 impacts have been delineated to the north (BH23-2); however, given the proximity of the boreholes to the property lines, location and construction of buildings on bedrock/thin layer of granular bedding, no additional soil sampling locations are required.

The identified PHC soil impacts exceeding the Table 7 SCS will be addressed through the proposed remedial excavation and through the completion of a Tier 3 SSRA and its associated Risk Management Plan (RMP).

5.7.3 Area of Soil Impacts – Volatile Organic Carbons

As summarized on **Figure No. 4b**, analytical results of VOCs from soil samples collected from seven of the eight boreholes advanced as part of the Phase Two ESA identified Table 7 SCS exceedances for TCE and/or PCE.

Source, Distribution, and Migration of Identified Impacts



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The identified TCE and/or PCE impacts noted in soil across the Phase Two Property were likely associated with historical on-site use, storage and disposal of chlorinated solvents on the Phase Two Property.

As shown in plan view on **Figure No. 4b**, and cross-section in **Figures No. 7b** and **8b**, the identified TCE and PCE impacts to soil were vertically delineated by the presence of limestone bedrock between depths of 0.46 m and 1.5 m BGS.

The lateral extent of the TCE and PCE impacts have not been delineated; however, given the proximity of the existing boreholes and monitoring wells to the property lines and construction of buildings on bedrock/thin layer of granular bedding, no additional soil sampling locations are required.

The identified TCE and PCE soil impacts exceeding the Table 7 SCS will be addressed through the proposed remedial excavation and through the completion of a Tier 3 SSRA and its associated RMP.

5.7.4 Area of Soil Impacts – Polycyclic Aromatic Hydrocarbons

As summarized on **Figure No. 4c**, analytical results for PAHs of soil samples collected from boreholes advanced during the current investigation identified the following Table 7 SCS exceedances:

- Concentrations acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, fluoranthene, and indeno(1,2,3-cd)pyrene exceeding the Table 7 SCS from a soil sample collected at BH23-1 at a depth of 0.3 m to 1.2 m BGS,
- Concentrations of anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene and phenanthrene exceeding the Table 7 SCS from a soil sample collected at BH23-4 at a depth of 0.1 m to 0.7 m BGS,
- Concentration of fluoranthene exceeding the Table 7 SCS from a soil sample collected at BH23-7 at a depth of 0.1 m to 0.8 m BGS.
- Concentrations of benzo(a)anthracene, benzo(a)pyrene and fluoranthene exceeding the Table 7 SCS from a soil sample collected at BH23-8 at a depth of 0.1 m to 1.0 m BGS.

Source, Distribution, and Migration of Identified Impacts

The identified PAHs impacts noted in soil at these locations were likely associated with poor quality fill material used to previously grade the ground surface of the Phase Two property.

As shown in plan view on **Figure No. 4c**, and cross-section on **Figure No. 7c** and **8c**, the identified PAH impacts to soil at boreholes BH23-1, BH23-4, BH23-7 and BH23-8 were vertically delineated by the presence of limestone bedrock at depths between 0.7 m and 1.2 m BGS.

The lateral extent of the PAHs impacts has been delineated to the west (BH23-5, BH23-6); however, given the proximity of the boreholes to the property lines, location and construction of buildings on bedrock/thin layer of granular bedding, no additional soil sampling locations are required.

The identified PAHs soil impacts exceeding the Table 7 SCS will be addressed through the proposed remedial excavation and through the completion of a Tier 3 SSRA and its associated RMP.



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5.7.5 Area of Soil Impacts – Metals

As summarized on **Figure No. 4d**, analytical results for metals of soil samples collected from boreholes during the current investigation identified the following Table 7 SCS exceedances:

- Concentrations of lead exceeding the Table 7 SCS from soil samples collected at BH23-1 at depths of 0.3 m to 1.2 m BGS and at BH23-4 at depths of 0.1 m to 0.7 m BGS.
- Concentrations of cadmium and thallium exceeding the Table 7 SCS from a soil sample collected at BH23-7 at a depth of 0.1 m to 0.8 m BGS.

Source, Distribution, and Migration of Identified Impacts

The identified metal impacts noted in soil at these locations were likely associated with poor quality fill material used to previously grade the ground surface of the Phase Two property.

As shown in plan view on **Figure No. 4d**, and in cross-section on **Figure No. 7d and 8d**, the identified metal impacts to soil were vertically delineated by the presence of limestone bedrock at depths between 0.7 and 1.2 m BGS.

The lateral extent of the metal impacts has been delineated to the west (BH23-2, BH23-5, BH23-6) and to the east (BH23-3, BH23-8); however, given the proximity of the boreholes to the property lines, location and construction of buildings on bedrock/thin layer of granular bedding, no additional soil sampling locations are required

The identified metal soil impacts exceeding the Table 7 SCS will be addressed through the proposed remedial excavation and through the completion of a Tier 3 SSRA and its associated RMP.

5.7.6 Area of Soil Impacts – EC/SAR

Analytical results for EC/SAR of soil samples collected from boreholes during the current investigation identified the following Table 7 SCS exceedances for EC/SAR:

- BH23-1 (0.3 – 1.2 m BGS) – electrical conductivity (EC)
- BH23-3 (0.1 – 0.4 m BGS) – EC
- BH23-4 (0.1 – 0.7 m BGS) – EC

EC and SAR are not considered COCs at the Phase Two Property. The applicable site condition standards for EC and SAR are not deemed to have been exceeded for the purpose of Part XV.1 of the Environmental Protection Act. Per Section 49.1 of O. Reg. 153/04, EC/SAR impacts are interpreted to be present because of the placement of a substance (salt) on ground surfaces for the purposes of keeping the area safe for vehicular or pedestrian traffic under conditions of snow and/or ice. The Site included paved parking and pathway areas, which would have required de-icing measures for safety.

5.8 GROUNDWATER QUALITY

The Phase Two ESA groundwater analytical results are summarized below and presented in **Table IIIa**. A summary of maximum groundwater concentrations for each analyzed parameter is presented in **Table**



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VII. A summary of analytical results compared to MOE (2011) Table 7 SCS (RPI Standards) are shown on **Figure Nos. 5a to 5d**.

Results of groundwater samples submitted for laboratory analysis that exceeded Table 7 SCS for All Types of Property Use during Phase Two ESA activities are summarized below.

Samples exceeding Table 7 SCS

- E3 (Intermediate, 2.5 – 11.0 m BGS, open hole) – Benzene, Toluene, PHC F2, PHC F3, Dichloroethene, 1,1- (1,1-DCE), Dichloroethene, cis-1,2- (cis-1,2-DCE), Dichloroethene, trans-1,2- (trans-1,2-DCE), 1,1,2,2-Tetrachloroethane, Tetrachloroethene (PCE), Trichloroethene (TCE), Vinyl Chloride (VC).
- MW00-4 (Shallow, 1.4 – 2.9 m BGS) - cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC.
- MW00-6 (Shallow, 1.6 – 3.1 m BGS) - cis-1,2-DCE, PCE, TCE, VC.
- MW01-10 and field duplicate QC-02 (Shallow, 1.1 – 4.3 m BGS) – PHC F2 (QC-2 only), PHC F3, PHC F4, Benzo(a)anthracene, Benzo(b)fluoranthene (QC-02 only), Benzo(g,h,i)perylene, Benzo(k)fluoranthene (QC-02 only), Chrysene, Indeno(1,2,3-cd)pyrene, Naphthalene, Pyrene, 1,1-DCE (QC-02 only), cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC.
- MW05-4 (Shallow, 4.6 – 6.0 m BGS) – Benzene, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC.
- MW05-4A (Intermediate, 6.2 – 9.1 m BGS) – cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC.
- MW08-31A (Intermediate, 6.5 – 8.0 m BGS) – Benzene, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC.
- MW08-32A (Intermediate, 6.5 – 8.0 m BGS) – Benzene, PHC F2, PHC F3, PHC F4, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC.
- MW08-33A (Intermediate, 6.9 – 8.4 m BGS) – cis-1,2-DCE, PCE, TCE.
- MW08-34 (Intermediate, 2.5 – 8.8 m BGS, open hole) – Benzene, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC.
- MW14-1A (Intermediate, 9.2 – 12.2 m BGS) – Benzene, Ethylbenzene, Xylenes, PHC F2, PHC F3, PHC F4, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC.
- MW14-1B (Shallow, 4.2 – 7.2 m BGS) – PHC F2, PHC F3, PHC F4, Anthracene, Benzo(a)pyrene, Benzo(g,h,i)perylene, naphthalene, cis-1,2-DCE, PCE, TCE.
- MW14-2 (Intermediate, 9.1 – 12.1 m BGS) – Benzene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Indeno(1,2,3-cd)pyrene, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC.
- MW16-01 (Deep, 19.0 – 22.0 m BGS) – Benzene, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE.
- MW19-12A (Deep, 15.2 – 18.3 m BGS) – Chloride *, Benzene, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC
- MW19-12B and field duplicate QC-01 (Intermediate, 9.1 – 12.2 m BGS) – Chloride *, Benzene, Xylenes (MW19-12B only), PHC F2, PHC F3, PHC F4, Benzo(g,h,i)perylene, Indeno(1,2,3-cd)pyrene, naphthalene (MW19-12B only), , 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,1,2,2-Tetrachloroethane (MW19-12B only), PCE, TCE, VC (MW19-12B only)
- MW19-13A (Intermediate) – Benzene, Xylenes, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC
- MW19-13B (Shallow) – Benzene, Ethylbenzene, Xylenes, PHC F3, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC

5.8.1 Contaminants of Concern - Groundwater

COCs in groundwater at the Phase Two Property were typically identified using the following rationale:



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1. If an analyzed parameter was not detected at concentrations greater than the laboratory RDLs in all of the groundwater samples analyzed for that parameter, the parameter was assumed absent from the Phase Two Property.
2. A parameter was considered a COC if it was detected at a concentration greater than the MECP (2011) Table 7 SCS.
3. A parameter was considered a COC if the RDL for the parameter was greater than the MECP (2011) Table 7 SCS and that parameter was detected in groundwater in other analyzed samples unless previous or subsequent samples from that monitoring well or adjacent monitoring wells indicated that the elevated RDL was associated with sample dilution by the laboratory. As noted in **Table IIIa**, the RDL for most VOC parameters and several PHC and BTEX parameters exceeded the Table 7 SCS at MW08-33A and MW14-1B. Additionally, the RDL for several PAH parameters exceeded the Table 7 SCS at MW14-1B. Parameters with elevated RDLs were not considered COCs.
4. Parameters detected at concentrations greater than the laboratory RDLs, for which no MECP (2011) Table 7 SCS was available, were not considered COCs if the parameter was naturally occurring (e.g., metals such as iron and magnesium); otherwise, the parameter was considered a COC.

In samples recovered from two monitoring wells (MW08-33A and MW14-1B), elevated detection limits were required by the laboratory for the majority of analytes due to high concentrations of a few specific COCs. Where a parameter with elevated detection limits had not been detected historically at the Site, or was not detected in other samples across the Site, or had detected concentrations that were not indicative of identification as a COC (i.e., reported at very low concentrations), and the analyte was not otherwise expected to be a COCs at the Site, consideration was taken for the exclusion of such elevated laboratory detection limits. In the case of MW08-33A and MW14-1B, detection limits were raised by orders of magnitude due to high concentrations reported for specific VOCs. In such instances, the elevated detection limits were considered anomalous and the elevated detection limits were excluded.

The following parameters were considered COCs in groundwater:

- Benzene, toluene, ethylbenzene, xylenes, PHC F2 to F4
- Anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, naphthalene, pyrene
- 1,1,2,2-Tetrachloroethane, PCE, TCE, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, VC
- Metals including hydride forming metals

The metals package was selected based on the PCAs identified for each APEC and included hydride forming metals. The historical activities in each PCA where metals may have been a contaminant of concern did not identify other regulated parameters including hexavalent chromium. There is no evidence of any leather tanning operations at the Site. The Ottawa Shoe Manufacturing Company used leather products, but there is no evidence to suggest it processed leather.

5.8.2 Area of Groundwater Impacts – BTEX and Petroleum Hydrocarbons

As summarized on **Figure No. 5a**, analytical results for BTEX and PHCs in groundwater samples collected during the current investigation identified the following Table 7 SCS exceedances:

- Concentrations of benzene exceeding the Table 7 SCS from groundwater samples collected at E3, MW05-4, MW08-31A, MW08-32A, MW08-34, MW14-1A, MW14-2, MW16-01, MW19-12A, MW19-12B, MW19-13A, and MW19-13B.



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- Concentrations of toluene exceeding the Table 7 SCS from groundwater samples collected at E3.
- Concentrations of ethylbenzene exceeding the Table 7 SCS from groundwater samples collected at MW14-1A and MW19-13B.
- Concentrations of xylenes exceeding the Table 7 SCS from groundwater samples collected at MW14-1A, MW19-12B, MW19-13A and MW19-13B.
- Concentrations of PHCs F2 exceeding the Table 7 SCS from groundwater samples collected at E3, MW01-10 (QC-02 duplicate only), MW08-32A, MW14-1A, MW14-1B and MW19-12B.
- Concentrations of PHCs F3 exceeding the Table 7 SCS from groundwater samples collected at E3, MW01-10, MW08-32A, MW14-1A, MW14-1B, MW19-12B and MW19-13B.
- Concentrations of PHCs F4 exceeding the Table 7 SCS from groundwater samples collected at MW01-10, MW08-32A, MW14-1A, MW14-1B and MW19-12B.

Monitoring well locations where concentrations of BTEX and/or PHC F1 to F4 in groundwater exceeded the Table 7 SCS during are identified on **Figure 5a**.

Source, Distribution, and Migration of Identified Impacts

The identified BTEX and PHC impacts noted in groundwater were likely associated with historical on-Site fuel oil storage in the basement of 223 Armstrong Street (PCA 16, APEC 5b) and/or off-site historical fuel spills.

As shown in plan view on **Figure No. 5a**, and in cross-section on **Figure Nos. 9a** and **10a**, the identified PHC impacts to groundwater were not laterally or vertically delineated. The maximum PHC concentrations in groundwater were measured in the intermediate groundwater interval while the maximum BTEX concentrations were measured in a range of groundwater intervals (from shallow to deep). However, no additional groundwater monitoring well locations were determined to be required due to adequate coverage by the existing well network.

The identified PHC groundwater impacts exceeding the Table 7 SCS will be addressed through the proposed remedial excavation and through the completion of a Tier 3 SSRA and its associated RMP.

5.8.3 Area of Groundwater Impacts – Volatile Organic Compounds

As summarized on **Figure No. 5b**, analytical results for VOCs of groundwater samples collected during the current investigation identified the following Table 7 SCS exceedances:

- Concentrations of 1,1-DCE exceeding the Table 7 SCS from groundwater samples collected at E3, MW01-10 (field duplicate QC-02 only), MW05-4, MW08-34, MW14-1A, MW19-12A, MW19-12B, MW19-13A, and MW19-13B.
- Concentrations of cis-1,2-DCE exceeding the Table 7 SCS from groundwater samples collected at E3, MW00-4, MW00-6, MW01-10, MW05-4, MW05-4A, MW08-31A, MW08-32A, MW08-33A, MW08-34, MW14-1A, MW14-1B, MW14-2, MW16-01, MW19-12A, MW19-12B, MW19-13A, and MW19-13B.
- Concentrations of trans-1,2-DCE exceeding the Table 7 SCS from groundwater samples collected at E3, MW00-4, MW01-10, MW05-4, MW05-4A, MW08-31A, MW08-32A, MW08-34, MW14-1A, MW14-2, MW16-01, MW19-12A, MW19-12B, MW19-13A, MW19-13B.
- Concentrations of 1,1,2,2-tetrachloroethylene exceeding the Table 7 SCS from groundwater samples collected at E3 and MW19-12B.



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- Concentrations of PCE exceeding the Table 7 SCS from groundwater samples collected at E3, MW00-4, MW00-6, MW01-10, MW05-4, MW05-4A, MW08-31A, MW08-32A, MW08-33A, MW08-34, MW14-1A, MW14-1B, MW14-2, MW16-01, MW19-12A, MW19-12B, MW19-13A, and MW19-13B.
- Concentrations of TCE exceeding the Table 7 SCS from groundwater samples collected at E3, MW00-4, MW00-6, MW01-10, MW05-4, MW05-4A, MW08-31A, MW08-32A, MW08-33A, MW08-34, MW14-1A, MW14-1B, MW14-2, MW16-01, MW19-12A, MW19-12B, MW19-13A, and MW19-13B.
- Concentrations of VC exceeding the Table 7 SCS from groundwater samples collected at E3, MW00-4, MW01-10, MW05-4, MW05-4A, MW08-31A, MW08-32A, MW08-34, MW14-1A, MW14-2, MW16-01, MW19-12A, MW19-12B (parent sample only), MW19-13A, MW19-13B.

Source, Distribution, and Migration of Identified Impacts

The identified VOC impacts noted in groundwater at these locations were likely associated with former manufacturing operations on the Phase Two Property.

As shown in plan view on **Figure No. 5b**, and cross-section on **Figure Nos. 9b** and **10b**, the identified VOC impacts to groundwater were not laterally or vertically delineated; however, maximum VOC concentrations are generally limited to the shallow and intermediate groundwater intervals and are known to extend off-site. As such, given the extensive monitoring well network and identification of maximum concentrations, no additional groundwater monitoring well locations were determined to be required.

The identified VOC groundwater impacts exceeding the Table 7 SCS will be addressed through the proposed remedial excavation and through the completion of a Tier 3 SSRA and its associated RMP.

5.8.4 Area of Groundwater Impacts – Polycyclic Aromatic Hydrocarbons

As summarized on **Figure No. 5c**, analytical results for PAHs of groundwater samples collected during the current investigation identified the following Table 7 SCS exceedances:

- Concentrations of anthracene exceeding the Table 7 SCS from groundwater samples collected at MW14-1B.
- Concentrations of benzo(a)anthracene exceeding the Table 7 SCS from groundwater samples collected at MW01-10.
- Concentrations of benzo(a)pyrene exceeding the Table 7 SCS from groundwater samples collected at MW14-1B and MW14-2.
- Concentrations of benzo(b)fluoranthene exceeding the Table 7 SCS from groundwater samples collected at MW01-10 (field duplicate QC-02 only) and MW14-2.
- Concentrations of benzo(g,h,i)perylene exceeding the Table 7 SCS from groundwater samples collected at MW01-10 (field duplicate QC-02 only), MW14-1B, MW14-2 and MW19-12B.
- Concentrations of benzo(k)fluoranthene exceeding the Table 7 SCS from groundwater samples collected at MW01-10 (field duplicate QC-02 only), and MW14-2.
- Concentrations of chrysene exceeding the Table 7 SCS from groundwater samples collected at MW01-10 and MW14-2.
- Concentrations of indeno(1,2,3-cd)pyrene exceeding the Table 7 SCS from groundwater samples collected at MW01-10, MW14-2 and MW19-12B.
- Concentrations of naphthalene exceeding the Table 7 SCS from groundwater samples collected at MW01-10, MW14-1B and MW19-12B.
- Concentrations of pyrene exceeding the Table 7 SCS from groundwater samples collected at MW01-10.



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Source, Distribution, and Migration of Identified Impacts

The identified PAH impacts noted in groundwater at these locations were likely associated with former on-site and off-site manufacturing operations.

As shown in plan view on **Figure No. 5c**, and cross-section on **Figure Nos. 9c** and **10c**, the identified PAH impacts to groundwater were not laterally or vertically delineated. The maximum PAH concentrations were measured in a range of groundwater intervals, from shallow to deep; however, no additional groundwater monitoring well locations were determined to be required due to adequate coverage by the existing well network.

The identified PAH groundwater impacts exceeding the Table 7 SCS will be addressed through the proposed remedial excavation and through the completion of a Tier 3 SSRA and its associated RMP.

5.8.5 Area of Groundwater Impacts – Metals

As summarized on **Figure No. 5d**, analytical results for metals including hydride forming metals and other regulated parameters (Cyanide and pH) in groundwater samples collected from monitoring wells identified no Table 7 SCS exceedances.

5.9 SOIL VAPOUR QUALITY

The soil vapour sampling program was completed to assess the potential of vapour intrusion to indoor air. The completion of the soil vapour sampling program was not required to support the O.Reg. 153/04 RSC filing.

A conservative soil vapour criteria for each of the submitted parameters was derived by adjusting the MECP Industrial Health Based Indoor Air Criteria (HBIAC_{ind}) by an attenuation factor (0.004) representative of vapour migration through the floor slab from soil to indoor air in a commercial building. The measured concentrations of detected parameters from the soil vapour samples were less than the derived soil vapour criteria with the exceptions of exceedances of PCE at VP14-3 (and field duplicate QC-02) and exceedances of TCE at VP12-1, VP12-3 (and field duplicate QC-01), VP14-3 (and field duplicate QC-02), VP14-04 and VP14-10. Summaries of the current and historical soil vapour analytical results are included in **Table IVa** and **Table IVb**, respectively. Recent Stantec soil vapour data are shown on **Figures 6a** and **6b**.

Soil vapour analytical results exceeded the derived soil vapour criteria for PCE, TCE and vinyl chloride on several occasions since annual soil vapour monitoring began in 2003. Indoor air sampling programs were conducted at the Site in 2012, 2013, 2014 and 2015 when elevated soil vapour concentrations were noted. Analytical results of each indoor air sampling event indicated concentrations below the comparative criteria and within acceptable levels with respect to local and provincial guidance.

Despite historical concentrations of COC in soil vapour exceeding the applicable derived soil vapour criteria, subsequent indoor air quality testing has not identified concerns for occupants of the buildings (Golder, 2013, 2014, 2015). With concentrations of COCs remaining within the historical range, and no



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significant changes having occurred in the operation of the buildings on-site, it is generally accepted that there continues to be no health concerns for building occupants.

Based on a review of the historical soil vapour analytical results between 2010 and 2023, concentrations of PHCs and VOCs in soil vapour have consistently trended downward. Additional indoor air sampling was not conducted during the present investigation since concentrations of soil vapour have decreased significantly since 2010.

5.10 SEDIMENT QUALITY

Sediment was not present at the Phase Two Property; therefore, sediment sampling was not required.

5.11 QUALITY ASSURANCE AND QUALITY CONTROL RESULTS

The objective of the investigation was to collect data that were precise, accurate, reproducible, complete, and suitable for comparison with the MOE (2011) Table 7 SCS. DQOs used to assess the precision of the soil, groundwater and soil vapour sample analyses, are listed in **Section 4.13**.

Soil, groundwater and soil vapour samples collected by Stantec were handled consistent with the requirements of O.Reg. 153/04. A laboratory certificate of analysis was received for each sample submitted for analysis and each parameter for which analysis was requested.

In most cases the RPDs could not be calculated for the soil duplicate samples because concentrations were below the RDL or were less than five times the RDL. For measured parameters in soil that were greater than five times the RDL, the RPD for the following parameters from duplicate soil samples exceeded the relevant screening criteria:

- QC-02 (field duplicate of BH23-2): EC (12%), PHC F3 (91%), PHC F4 (59%), lead (45%),

The elevated RPDs are likely a result of sample heterogeneity associated with the fill material observed at sample BH23-2 and are not associated with laboratory precision. Elevated RPDs at sample BH23-2 are associated with low concentrations of analyzed parameters that were well below the Table 7 SCS. The elevated RPDs for duplicate soil samples do not affect the interpretation of the soil analytical data. The calculated RPDs for assessment soil samples are presented in **Table II**.

In most cases the RPDs could not be calculated for the groundwater duplicate samples because concentrations were below the RDL or were less than five times the RDL. The calculated RPDs for groundwater are presented in **Table IIIa**. The RPDs for measured parameters in groundwater for the parent and duplicate groundwater samples recovered from monitoring wells MW19-12B and MW01-10 were less than the screening criteria with the following exceptions:

- QC-01 (field duplicate of MW19-12B): Ethylbenzene (31%), xylenes (51%), PHC F2 (85%), PHC F3 (72%), PHC F4 (64%), benzo(g,h,i)perylene (114%), indeno(1,2,3-cd)pyrene (115%), 1,1-DCE (56%), cis-1,2-DCE (75%), PCE (61%), TCE (83%)
- QC-02 (field duplicate of MW01-10): Chloride (32%), PHC F3 (136%), PHC F4 (95%), barium (35%), benzo(a)anthracene (39%), fluoranthene (57%), pyrene (54%), cis-1,2-DCE (80%), trans-1,2-DCE (55%), PCE (167%), TCE (155%)



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RPD values exceeding the screening criteria indicates decreased precision due to sample heterogeneity. In both cases, concentrations of VOCs, PHCs and PAHs parameters exceeded the Table 7 SCS and the decreased precision does not affect the interpretation of the results.

VOC and PHC F1 to F4 were not detected at concentrations above the laboratory RDLs in the field blank sample (**Table IIIa**). VOCs and PHC F1 to F4 were not detected at concentrations above the laboratory RDLs in the trip blank samples (**Table IIIa**). This suggests that ambient air conditions at the Site during sampling, and conditions during shipment of the sample containers to and from the Site, did not positively bias the groundwater samples collected.

Duplicate soil vapour samples were collected from soil vapour probes VP12-3 and VP14-3 on June 21 and June 22, 2023, respectively. Where calculated, the RPDs were less than the screening criteria of 50%. Probe integrity testing and leak testing confirmed that samples were not biased through the introduction of ambient air into the soil vapour samples.

Based on the above, it is Stantec's opinion that the results of the QA/QC procedures indicate that the data quality objectives for the soil, groundwater, and soil vapour analyses were met for this work program and the data can be used for its intended purpose.

5.11.1 Laboratory QA/QC Program

In addition to the assessment of field duplicate, field blank, and trip blank samples, the analytical laboratories followed internal QA/QC protocols, which included method blank, matrix spike, spiked blank, QC standard, and laboratory duplicate analyses. Paracel reported the following laboratory QA/QC qualifiers:

- The detection limits of PAHs for groundwater samples MW19-12B, QC-01, MW01-10 and QC-02 were elevated due to matrix interference. The adjustment to detection limits of the referenced sample did not impact interpretation of analytical data or associated conclusions as the detection limits were below the associated Table 7 SCS.
- Analytical results may be biased low due to multiple dilutions for the following:
 - cis-1,2-DCE, trans-1,2-DCE, TCE, PCE and VC at MW19-12B
 - cis-1,2-DCE and VC at MW08-34
- Reporting limit for PAHs was elevated due to matrix interference at MW14-1B.
- Reporting limit was elevated due to dilution required because of high target analyte concentrations for the following:
 - VOCs, PHCs F1 at MW08-33A
 - VOCs, PHCs F1 at MW14-1B

As noted above, it is Stantec's opinion that the results of the QA/QC procedures indicated that the DQO for the soil and groundwater data were met, and that the data were of acceptable quality and adequate for their intended use.



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5.12 PHASE TWO CONCEPTUAL SITE MODEL

The Phase Two CSM represents a refinement of the Phase One CSM after conducting site characterization activities. No new APECs were identified by the Phase Two ESA. The Phase Two CSM is included below.

5.12.1 Site Characteristics

5.12.1.1 Areas of Potential Environmental Concern (APECs)

The Phase One ESA for the Phase Two Property identified on and off-site PCAs with the potential to contribute to APECs on the Phase Two Property. Seventeen APECs were identified at the Phase Two Property. The locations of the PCAs and APECs are shown on **Figure No. 2b**. The PCAs and APECs are discussed and summarized in the table below.

AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

APEC	Location of APEC on Phase One Property	PCA	Location of PCA (on-site or off-site)	Contaminants of Potential Concern ¹	Media Potentially Impacted (Ground water, soil and/or sediment)
1a	Southern portion of Phase One Property	<i>PCA No. 6</i> Gasoline and Associated Products Storage in Fixed Tanks (O.Reg. 153/04 PCA 28) and a fuel related spill	Off-Site	- PAHs - VOCs - BTEX - PHCs - Metals	Soil and groundwater
1b	Southwest portion of Phase One Property	<i>PCA No. 8</i> Commercial Autobody Shop (O.Reg. 153/04 PCA 10) and waste generation of various types including fuel related waste	Off-Site	- PAHs - VOCs - BTEX - PHCs - Metals	Soil and groundwater
1c	Southeast portion of Phase One Property	<i>PCA No. 11</i> Gasoline and Associated Products Storage in Fixed Tanks (O.Reg. 153/04 PCA 28)	Off-Site	- PAHs - VOCs - BTEX - PHCs - Metals	Soil and groundwater
1d	South portion of Phase One Property	<i>PCA No. 12</i> Mill, lumber yard, and dry kiln (O.Reg. 153/04 PCA Undefined)	Off-Site	- PAHs - VOCs - BTEX - PHCs	Soil and groundwater



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				Metals	
1e	Southeast portion of Phase One Property	<i>PCA No. 13</i> Gasoline and Associated Products Storage in Fixed Tanks (O.Reg.153/04 PCA 28) Fuel related spill	Off-Site	- PAHs - VOCs - BTEX - PHCs - Metals	Soil and groundwater
2	Northern portion of Phase One Property	<i>PCA No. 9</i> Gasoline and Associated Products Storage in Fixed Tanks (O.Reg. 153/04 PCA 28) and a fuel related spill	Off-Site	- PAHs - VOCs - BTEX - PHCs - Metals	Soil and groundwater
3a	Southwestern portion of Phase One Property	<i>PCA No. 1</i> Potential PCE use during leather preparation for shoe fabrication (O.Reg.153/04 PCA Undefined)	On-Site	- PAHs - VOCs - BTEX - PHCs - Metals	Soil and groundwater
3b	West portion of Phase One Property	<i>PCA No. 14</i> Metal Fabrication (O.Reg 153/04 PCA 34)	Off-Site	- PAHs - VOCs - BTEX - PHCs - Metals	Soil and groundwater
3c	West portion of Phase One Property	<i>PCA No. 15</i> Gasoline and Associated Products Storage in Fixed Tanks (O.Reg. 153/04 PCA 28)	Off-Site	- PAHs - VOCs - BTEX - PHCs - Metals	Soil and groundwater
4a	Northwest portion of Phase One Property	<i>PCA No. 3</i> Vehicles and Associated Parts Manufacturing (O.Reg. 153/04 PCA 57) and waste generation of various types including fuel related waste and chlorinated solvents	On-Site	- PAHs - VOCs - BTEX - PHCs - Metals	Soil Ground water
4b	Northwest portion of Phase One Property	<i>PCA No. 7</i> Metal Fabrication (O.Reg. 153/04 PCA 34)	Off-Site	- PAHs - VOCs - BTEX - PHCs - Metals	Soil Ground water



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5a	Southeastern portion of Phase One Property	<i>PCA No. 10</i> Fuel related spill	Off-Site	• BTEX • PHCs • Metals • PAHs • VOCs	Soil Ground water
5b	Southeastern portion of One Property	<i>PCA No. 16</i> Gasoline and Associated Products Storage in Fixed Tanks (O.Reg. 153/04 PCA 28)	On-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil Ground water
6a	Entire Phase One Property	<i>PCA No. 2</i> 2: Confirmed PCE, TCE, DCE, vinyl chloride and hydrocarbon impacts	On-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil Ground water
6b	Entire Phase One Property	<i>PCA No. 4</i> 4: Importation of Fill Material of Unknown Quality (O.Reg. 153/04 PCA 30)	On-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil
7	Northeast portion of the Site	<i>PCA No. 5</i> Poorly managed waste in basement directly overlying eroded building foundation (O.Reg.153/04 PCA Undefined)	On-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil Ground water
8	Central and south-central (exterior) portions of Phase One Property. Off-site sidewalks and roadways	<i>PCA No. 17</i> Historical application of de-icing compounds (O.Reg.153/04 PCA Undefined)	On-Site Off-Site	• EC, SAR • Sodium, chloride	Soil Ground water

Notes: Metals includes: Barium, Beryllium, Boron, Cadmium, Cobalt, Copper, Lead, Molybdenum, Nickel, Silver, Thallium, Uranium, Vanadium, Zinc, and hydride forming metals: Antimony, Arsenic, Selenium and other regulated parameters including Cyanide



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A description of what is known about the potential reason for historical discharge of contaminants into the natural environment at the Phase Two Property is provided below.

A review of historical documents (Golder, 2005) indicated historical storage of liquid hazardous materials including various chlorinated solvent degreasers, in the courtyard area of 3 Hamilton Avenue North.

A review of historical documents (Golder, 2005) indicated the historical operation of a structure resembling a dry well, and the historical operation of a degreasing dip tank under a “lean-to” structure located in the courtyard of 3 Hamilton Avenue North. Considering the alleged historical practice of disposing waste solvents in a dry well in the courtyard at the Site, there is potential for free phase DNAPL; however, encountering free phase DNAPL in a fractured bedrock geological setting can be challenging as the DNAPL follows fracture patterns which may not be intersected by a borehole and monitoring well.

Additional information related to on-site PCAs is provided below:

PCA 16, APEC 5b: Two 500 L fuel oil aboveground storage tanks (ASTs) were formerly located in the basement of the Carleton Tavern (223 Armstrong Street) and were removed in 2019.

PCA 5, APEC 7: Property maintenance debris (discarded PVC pipe, fluorescent bulbs), and domestic waste were observed in a pile in the basement of the property at 340 Parkdale Avenue. Waste materials further within the pile could not be safely characterized. The poor housekeeping in this area suggests a potential for adverse impacts to the Site in the area of 340 Parkdale Avenue.

5.12.2 Property Use and Services

The Phase Two Property is associated with the Tier 3 SSRA and includes the municipal addresses of 3 Hamilton Avenue North (which includes units 5, 7A, 7B, and 340 Parkdale Avenue); and 223, 229, and 233 Armstrong Street.

The Phase Two Property was vacant/undeveloped or of residential property use prior to 1920. From 1920 until present day, the Phase Two Property has been developed for mixed residential/commercial/light industrial uses. Based on aerial photography, the Phase Two Property underwent its first major development sometime between 1928 and 1958, and the buildings present in 1958 appear to be of similar configuration as present day.

The Phase Two Property is covered by buildings, asphalt, and vegetated with trees, and low shrubs. The proposed future land use is for multi-storey mixed-use (commercial and residential) building with several levels of underground parking.

Utilities present at the Site include, but are not limited to, natural gas, water and sanitary sewer services. The presence of coarser grained materials around buried utilities (bedding material), near-surface fill, or building foundations can often act as preferential pathways for the migration of COC. Based on the known depths of local storm sewer and water service infrastructure at the Site that are trenched into the bedrock and considering the



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average depth to groundwater it is likely that buried utilities are acting as a preferential pathway for migration of groundwater impacts. Migration of impacts in groundwater appear to be associated with advective groundwater flow.

The Phase Two Property is not part of or adjacent to an area of natural significance. The soil pH is within the permitted ranges of 5 to 9 for surface soils. There were no subsurface soils encountered during this investigation as bedrock generally was encountered above 1.5 m BGS and the Phase Two Property is considered a shallow soil property.

The Phase Two Property did not include a water body and is not within 30 m of a water body. Therefore, the Phase Two Property is not considered environmentally sensitive under Section 43.1 of O.Reg.153/04.

Potable water, obtained from the Ottawa River, is supplied to properties located, in whole or in part, within 250 m of the boundaries of the Site through a municipal drinking water system, as defined in the Safe Drinking Water Act, 2002. The Site is not located in an area designated in a municipal official plan as a well-head protection area or other designation identified by the municipality for the protection of groundwater. Notification regarding the use of non-potable groundwater SCS has been provided to the City of Ottawa on September 28, 2023. To date, no response has been provided.

5.12.3 Stratigraphy, Soil Characteristics, and Soil Management

5.12.3.1 Stratigraphy

The Phase Two Property is located within the Ottawa Valley Clay Plains physiographic region (Chapman & Putnam, 1984). The native surficial soils in the Study Area consist of stone-poor, sandy silt to silty sand-textured till on Paleozoic terrain (OGS, 2000).

The soil profile observed by Stantec during the Phase Two ESA was generally consistent with that reported during previous investigations at the Phase Two Property. Generally, the soil profile consisted of up to 1.5 m of silty sand fill soil which was underlain by limestone bedrock. The main overburden units encountered in boreholes completed during the Phase Two ESA are summarized as follows:

- **Silty Sand (Fill):** Silty sand fill was encountered at BH23-1, BH23-2 to depths between 0.46 m and 1.5 m BGS and was underlain by limestone bedrock.
- **Sand and gravel (Fill):** Sand and gravel fill was encountered at BH23-3, BH23-4, BH23-5, BH23-6, BH23-7 and BH23-8 to depths between 0.46 m and 1.04 m BGS and was underlain by limestone bedrock.

Borehole logs are presented in **Appendix C**. Cross section profiles of stratigraphy are presented on **Figure Nos. 7 – 10**.

Bedrock geology in the Study Area was mapped as limestone, dolostone, shale, arkose, and sandstone of the Ottawa Group and Simcoe Group, Shadow Lake Formation (MNR, 1991). Limestone bedrock was encountered at depths between 0.46 m and 1.5 m BGS during this investigation.



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Based on historical details related to existing bedrock monitoring wells, it is expected that rock competency increases with depth. The bedrock unit represents a single hydrostratigraphic unit but zones within the bedrock have been grouped as shallow, intermediate and deep for the purposes of assisting with site characterization.

5.12.3.2 Grain Size

Section 42.1 of O.Reg.153/04 identifies specific generic SCS for coarse and medium/fine textured soil. The use of SCS for medium and fine textured soils occurs when “more than 50 per cent by mass of particles are smaller than 75 micrometres (μm) in mean diameter”. The use of SCS for coarse textured occurs when “*at least 1/3 of the soil at the property, measured by volume, consists of coarse textured soil*”.

Four soil samples were submitted for grain size analysis and were representative of the soil conditions on site. Each of the analyzed soil samples had less than 50 percent by mass of particles that were less than 75 micrometers in mean diameter. The soil at the Phase Two Property (by volume) was considered coarse textured.

5.12.4 Hydrogeologic Characteristics

The depth to water measured in the shallow bedrock groundwater unit during the 2023 monitoring event ranged from 1.14 to 6.99 m BGS, with groundwater elevations ranging from 55.30 m above mean sea level (m AMSL) to 60.88 m AMSL. The depth to water measured in the intermediate bedrock groundwater unit during the 2023 monitoring event ranged from 4.54 to 5.81 m BGS, with groundwater elevations ranging from 56.45 m AMSL to 58.04 m AMSL. The depth to water measured in the deep bedrock groundwater unit during the 2023 monitoring event ranged from 4.21 m BTOP to 8.20 m BGS, with groundwater elevations ranging from 54.47 m AMSL to 57.24 m AMSL. Groundwater flow directions interpreted during the current investigation were generally consistent with those of previous investigations at the Phase Two Property.

The bedrock aquifer is the water-bearing interval comprised of limestone bedrock, which was observed below 1.5 m BGS across the Phase Two Property.

Groundwater elevations and interpreted flow direction in the bedrock aquifer from the June 2023 monitoring event are presented in **Figures No. 3a-3c**.

Groundwater flow directions for intermediate and deep bedrock groundwater units could not be interpreted based on the limited data set as one of three deep wells were dry and intermediate wells were in a linear orientation.

Shallow groundwater at the Site is interpreted to flow in a northeasterly direction. During the June 2023 monitoring event, the interpreted direction of groundwater flow was generally towards the northeast.

Groundwater flow directions for intermediate and deep bedrock groundwater units could not be interpreted based on the limited data set. One of three deep wells were dry and intermediate wells were in a linear orientation.



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Based on the groundwater elevations observed, groundwater flow direction in the intermediate groundwater unit was inferred to be toward the north to northeast in June 2023. Elevations of some monitoring wells were not measured and will be collected during subsequent programs.

The groundwater flow-direction in the deep groundwater unit could not be inferred since one of the three deep wells was dry in June 2023. However, based on the observed deep groundwater elevations, a south to southeast component to the flow direction (toward the geological fault adjacent to the east of the Site) was apparent. Interpreted groundwater flow directions were consistent with observations from previous investigations.

The horizontal hydraulic gradients in the shallow bedrock and intermediate bedrock were 0.43 and 0.16, respectively, based on the 2023 monitoring data. Due to insufficient data, horizontal hydraulic gradients in the deep bedrock unit could not be calculated during the 2023 monitoring event. Vertical hydraulic gradient was evaluated by Golder in 2005 (Golder, 2005b) at one pair of nested wells (MW05-4 and MW05-4A) using groundwater elevations from June 2005. The vertical gradient was upward at well pair MW05-4/MW05-4A in 2023 (0.65) and in 2024 (0.53).

Groundwater monitoring and sampling was completed between June 26 and June 30, 2023. A regular groundwater monitoring program has been in place for the site since 2007 (undertaken by previous owners). While seasonal groundwater fluctuations have expectedly been observed, there has been no evidence to suggest that mechanisms other than advective transport have influenced the distribution and migration of contaminants characterized during the regular monitoring and sampling events.

5.12.5 Soil and Groundwater Characterization

The Phase Two Property is not considered a sensitive site as defined by O.Reg.153/04 s.41. In addition, the Phase Two Property does not contain and is not within 30 m of a watercourse. The Phase Two Property is classified as a shallow soil property.

Geologic and hydrogeologic parameters that influence the derivation of component values for the Ministry of the Environment, Conservation and Parks (MECP) 2011 O.Reg.153/04 generic SCS were compared between the site-specific data and the generic values used in the derivation of the SCS.

The majority of site-specific parameters were similar or more conservative than the default values applied in establishing the generic SCS, and therefore the generic SCS are considered appropriate for the Site. The MECP identifies that deviations from the generic assumptions do “*not necessarily indicate that the generic criteria are not valid for a given site.*” (MOE, 2011) and that “*There are many interrelated parameters and factors that were used in the development of the generic standards, and in many cases one factor.....can be outweighed by differences in other factors in a manner that, overall, there is sufficient natural protection provided by the site. In addition, it must also be considered that the component that drives the standard may not be affected by the particular limiting condition...*” (MOE, 2011); therefore, it is the opinion of the QP_{ESA} that the identification of the Table 7 generic SCS for coarse textured soils are appropriate for use at the Site.

Soil and groundwater characterization were completed consistent with the requirements of O.Reg.153/04.



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5.12.5.1 Soil Characterization – Phase Two ESA – Contaminants of Concern

A summary of Phase Two ESA analytical soil results compared to the O.Reg. 153/04 Table 7 SCS for residential parkland and institutional (RPI) property use in a non-potable groundwater condition are shown on **Figure No. 153/04 Table 7 SCS for Residential/ Parkland/Institutional property use in a non-potable groundwater condition** are shown on **Figure No. 4a to 4d** and cross-sectional **Figures Nos. 7a-d to 8a-d**. Soil analytical data are shown with red or green dots at borehole locations that met (green) or exceeded (red) the Table 7 SCS.

Results of soil samples submitted for laboratory analysis that exceeded Table 7 Residential/Parkland/Institutional SCS during this Phase Two ESA are summarized below.

Samples exceeding T7 Residential/Parkland/Institutional SCS

- BH23-1 (0.3 – 1.2 m BGS) – electrical conductivity (EC)*, PHC F3, lead, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, tetrachloroethylene (PCE), trichloroethylene (TCE)
- BH23-2 and field duplicate QC-02 (0.3 – 1.5 m BGS) - PCE, TCE
- BH23-3 (0.1 – 0.4 m BGS) – EC*, PCE
- BH23-4 (0.1 – 0.7 m BGS) – EC*, lead, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, PCE, TCE
- BH23-5 (0.1 – 1.0 m BGS) – PCE
- BH23-6 (0.1 – 0.7 m BGS) – PCE
- BH23-7 (0.1 – 0.8 m BGS) – cadmium, thallium, fluoranthene
- BH23-8 (0.1 – 1.0 m BGS) - benzo(a)anthracene, benzo(a)pyrene, fluoranthene, PCE, TCE

* indicates parameter is not a COC.

The following parameters were considered COCs in soil:

- Trichloroethylene (TCE), tetrachloroethylene (PCE)
- PHC F3
- lead, cadmium, thallium
- acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b/j)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene

As noted in **Section 5.7.6**, the applicable site condition standards for EC and SAR are not deemed to have been exceeded for the purpose of Part XV.1 of the Environmental Protection Act. Per Section 49.1 of O. Reg. 153/04, EC impacts are present because of the placement of a substance (salt) on ground surfaces for the purposes of keeping the area safe for vehicular or pedestrian traffic under conditions of snow and/or ice. The Site included paved parking and pathway areas, which would have required de-icing measures for safety.



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5.12.5.2 Area of Soil Impacts – BTEX and Petroleum Hydrocarbons

As summarized on **Figure No. 4a**, analytical results of PHCs from soil samples collected from boreholes during the current investigation identified the following Table 7 SCS exceedances:

- Concentrations of PHC F3 exceeding the Table 7 SCS from soil sample BH23-1 collected at a depth of 0.3 to 1.2 m BGS

Source, Distribution, and Migration of Identified Impacts

The identified PHC impacts noted in soil at the above-mentioned location were likely associated with undocumented historical fuel spills at the Site.

As shown in plan view on **Figure No. 4a**, and cross-section on **Figure No. 7a** and **8a**, the identified PHC impacts to soil were vertically delineated by the presence of limestone bedrock at 1.2 m BGS.

The lateral extent of the PHC F3 impacts have been delineated to the north (BH23-2); however, given the proximity of the boreholes to the property lines, location and construction of buildings on bedrock/thin layer of granular bedding, no additional soil sampling locations are required.

The identified PHC soil impacts exceeding the Table 7 SCS will be addressed through the proposed remedial excavation and through the completion of a Tier 3 SSRA and its associated Risk Management Plan (RMP).

5.12.5.3 Area of Soil Impacts – Volatile Organic Carbons

As summarized on **Figure No. 4b**, analytical results of VOCs from soil samples collected from seven of the eight boreholes advanced as part of the Phase Two ESA identified Table 7 SCS exceedances for TCE and/or PCE.

Source, Distribution, and Migration of Identified Impacts

The identified TCE and/or PCE impacts noted in soil across the Phase Two Property were likely associated with historical on-site use, storage and disposal of chlorinated solvents on the Phase Two Property.

As shown in plan view on **Figure No. 4b**, and cross-section in **Figures No. 7b** and **8b**, the identified TCE and PCE impacts to soil were vertically delineated by the presence of limestone bedrock between depths of 0.46 m and 1.5 m BGS.

The lateral extent of the TCE and PCE impacts have not been delineated; however, given the proximity of the existing boreholes and monitoring wells to the property lines, location and construction of buildings on bedrock/thin layer of granular bedding, no additional soil sampling locations are required.

The identified TCE and PCE soil impacts exceeding the Table 7 SCS will be addressed through the proposed remedial excavation and through the completion of a Tier 3 SSRA and its associated RMP.



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5.12.5.4 Area of Soil Impacts – Polycyclic Aromatic Hydrocarbons

As summarized on **Figure No. 4c**, analytical results for PAHs of soil samples collected from boreholes advanced during the current investigation identified the following Table 7 SCS exceedances:

- Concentrations acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, fluoranthene, and indeno(1,2,3-cd)pyrene exceeding the Table 7 SCS from a soil sample collected at BH23-1 at a depth of 0.3 m to 1.2 m BGS,
- Concentrations of anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene and phenanthrene exceeding the Table 7 SCS from a soil sample collected at BH23-4 at a depth of 0.1 m to 0.7 m BGS,
- Concentration of fluoranthene exceeding the Table 7 SCS from a soil sample collected at BH23-7 at a depth of 0.1 m to 0.8 m BGS.
- Concentrations of benzo(a)anthracene, benzo(a)pyrene and fluoranthene exceeding the Table 7 SCS from a soil sample collected at BH23-8 at a depth of 0.1 m to 1.0 m BGS.

Source, Distribution, and Migration of Identified Impacts

The identified PAHs impacts noted in soil at these locations were likely associated with poor quality fill material used to previously grade the ground surface of the Phase Two property.

As shown in plan view on **Figure No. 4c**, and cross-section on **Figure No. 7c and 8c**, the identified PAH impacts to soil at boreholes BH23-1, BH23-4, BH23-7 and BH23-8 were vertically delineated by the presence of limestone bedrock at depths between 0.7 m and 1.2 m BGS.

The lateral extent of the PAHs impacts has been delineated to the west (BH23-5, BH23-6); however, given the proximity of the boreholes to the property lines, location and construction of buildings on bedrock/thin layer of granular bedding, no additional soil sampling locations are required.

The identified PAHs soil impacts exceeding the Table 7 SCS will be addressed through the proposed remedial excavation and through the completion of a Tier 3 SSRA and its associated RMP.

5.12.5.5 Area of Soil Impacts – Metals

As summarized on **Figure No. 4d**, analytical results for metals of soil samples collected from boreholes during the current investigation identified the following Table 7 SCS exceedances:

- Concentrations of lead exceeding the Table 7 SCS from soil samples collected at BH23-1 at depths of 0.3 m to 1.2 m BGS and at BH23-4 at depths of 0.1 m to 0.7 m BGS.
- Concentrations of cadmium and thallium exceeding the Table 7 SCS from a soil sample collected at BH23-7 at a depth of 0.1 m to 0.8 m BGS.

Source, Distribution, and Migration of Identified Impacts

The identified metal impacts noted in soil at these locations were likely associated with poor quality fill material used to previously grade the ground surface of the Phase Two property.



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As shown in plan view on **Figure No. 4d**, and in cross-section on **Figure No. 7d and 8d**, the identified metal impacts to soil were vertically delineated by the presence of limestone bedrock at depths between 0.7 and 1.2 m BGS.

The lateral extent of the metal impacts has been delineated to the west (BH23-2, BH23-5, BH23-6) and to the east (BH23-3, BH23-8); however, given the proximity of the boreholes to the property lines and construction of buildings on bedrock/thin layer of granular bedding, no additional soil sampling locations are required

The identified metal soil impacts exceeding the Table 7 SCS will be addressed through the proposed remedial excavation and through the completion of a Tier 3 SSRA and its associated RMP.

5.12.5.6 Area of Soil Impacts – EC/SAR

Analytical results for EC/SAR of soil samples collected from boreholes during the current investigation identified the following Table 7 SCS exceedances for EC/SAR:

- BH23-1 (0.3 – 1.2 m BGS) – electrical conductivity (EC)
- BH23-3 (0.1 – 0.4 m BGS) – EC
- BH23-4 (0.1 – 0.7 m BGS) – EC

EC and SAR are not considered COCs at the Phase Two Property. The applicable site condition standards for EC and SAR are not deemed to have been exceeded for the purpose of Part XV.1 of the Environmental Protection Act. Per Section 49.1 of O. Reg. 153/04, EC/SAR impacts are interpreted to be present because of the placement of a substance (salt) on ground surfaces for the purposes of keeping the area safe for vehicular or pedestrian traffic under conditions of snow and/or ice. The Site included paved parking and pathway areas, which would have required de-icing measures for safety.

5.12.5.7 Groundwater Characterization – Phase Two ESA – Contaminants of Concern

The Phase Two ESA groundwater analytical results are summarized below and presented in **Table III**. A summary of maximum groundwater concentrations for each analyzed parameter is presented in **Table VII**. A summary of analytical results compared to MOE (2011) Table 7 SCS (Residential/Parkland/Institutional Standards) are shown on **Figure Nos. 5a to 5d**.

Results of groundwater samples submitted for laboratory analysis that exceeded Table 7 Residential/Parkland/Institutional SCS during Phase Two ESA activities are summarized below.

Samples exceeding Table 7 SCS

- E3 (Intermediate, 2.5 – 11.0 m BGS, open hole) – Benzene, Toluene, PHC F2, PHC F3, Dichloroethene, 1,1- (1,1-DCE), Dichloroethene, cis-1,2- (cis-1,2-DCE), Dichloroethene, trans-1,2- (trans-1,2-DCE), 1,1,2,2-Tetrachloroethane, Tetrachloroethene (PCE), Trichloroethene (TCE), Vinyl Chloride (VC).
- MW00-4 (Shallow, 1.4 – 2.9 m BGS) - cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC.
- MW00-6 (Shallow, 1.6 – 3.1 m BGS) - cis-1,2-DCE, PCE, TCE, VC.
- MW01-10 and field duplicate QC-02 (Shallow, 1.1 – 4.3 m BGS) – PHC F2 (QC-2 only), PHC F3, PHC F4, Benzo(a)anthracene, Benzo(b)fluoranthene (QC-02 only), Benzo(g,h,i)perylene,



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- Benzo(k)fluoranthene (QC-02 only), Chrysene, Indeno(1,2,3-cd)pyrene, Naphthalene, Pyrene, 1,1-DCE (QC-02 only), cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC.
- MW05-4 (Shallow, 4.6 – 6.0 m BGS) – Benzene, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC.
 - MW05-4A (Intermediate, 6.2 – 9.1 m BGS) – cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC.
 - MW08-31A (Intermediate, 6.5 – 8.0 m BGS) – Benzene, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC.
 - MW08-32A (Intermediate, 6.5 – 8.0 m BGS) – Benzene, PHC F2, PHC F3, PHC F4, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC.
 - MW08-33A (Intermediate, 6.9 – 8.4 m BGS) – cis-1,2-DCE, PCE, TCE.
 - MW08-34 (Intermediate, 2.5 – 8.8 m BGS, open hole) – Benzene, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC.
 - MW14-1A (Intermediate, 9.2 – 12.2 m BGS) – Benzene, Ethylbenzene, Xylenes, PHC F2, PHC F3, PHC F4, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC.
 - MW14-1B (Shallow, 4.2 – 7.2 m BGS) – PHC F2, PHC F3, PHC F4, Anthracene, Benzo(a)pyrene, Benzo(g,h,i)perylene, naphthalene, cis-1,2-DCE, PCE, TCE.
 - MW14-2 (Intermediate, 9.1 – 12.1 m BGS) – Benzene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Indeno(1,2,3-cd)pyrene, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC.
 - MW16-01 (Deep, 19.0 – 22.0 m BGS) – Benzene, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE.
 - MW19-12A (Deep, 15.2 – 18.3 m BGS) – Chloride *, Benzene, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC
 - MW19-12B and field duplicate QC-01 (Intermediate, 9.1 – 12.2 m BGS) – Chloride *, Benzene, Xylenes (MW19-12B only), PHC F2, PHC F3, PHC F4, Benzo(g,h,i)perylene, Indeno(1,2,3-cd)pyrene, naphthalene (MW19-12B only), , 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, 1,1,2,2-Tetrachloroethane (MW19-12B only), PCE, TCE, VC (MW19-12B only)
 - MW19-13A (Intermediate) – Benzene, Xylenes, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC
 - MW19-13B (Shallow) – Benzene, Ethylbenzene, Xylenes, PHC F3, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, TCE, VC

The following parameters were considered COCs in groundwater:

- Benzene, toluene, ethylbenzene, xylenes, PHC F2 to F4
- Anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, naphthalene, pyrene
- Tetrachloroethane, 1,1,2,2-, PCE, TCE, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, VC

Sodium and chloride are not considered COCs at the Phase Two Property. The applicable site condition standards for sodium and chloride are not deemed to have been exceeded for the purpose of Part XV.1 of the Environmental Protection Act. Per Section 49.1 of O. Reg. 153/04, Sodium and chloride impacts are interpreted to be present because of the placement of a substance (salt) on ground surfaces for the purposes of keeping the area safe for vehicular or pedestrian traffic under conditions of snow and/or ice. The Site included paved parking and pathway areas, which would have required de-icing measures for safety.

5.12.5.8 Area of Groundwater Impacts – BTEX and Petroleum Hydrocarbons

As summarized on **Figure No. 5a**, analytical results for BTEX and PHCs in groundwater samples collected during the current investigation identified the following Table 7 SCS exceedances:



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- Concentrations of benzene exceeding the Table 7 SCS from groundwater samples collected at E3, MW05-4, MW08-31A, MW08-32A, MW08-34, MW14-1A, MW14-2, MW16-01, MW19-12A, MW19-12B, MW19-13A, and MW19-13B.
- Concentrations of toluene exceeding the Table 7 SCS from groundwater samples collected at E3.
- Concentrations of ethylbenzene exceeding the Table 7 SCS from groundwater samples collected at MW14-1A and MW19-13B.
- Concentrations of xylenes exceeding the Table 7 SCS from groundwater samples collected at MW14-1A, MW19-12B, MW19-13A and MW19-13B.
- Concentrations of PHCs F2 exceeding the Table 7 SCS from groundwater samples collected at E3, MW01-10 (QC-02 duplicate only), MW08-32A, MW14-1A, MW14-1B and MW19-12B.
- Concentrations of PHCs F3 exceeding the Table 7 SCS from groundwater samples collected at E3, MW01-10, MW08-32A, MW14-1A, MW14-1B, MW19-12B and MW19-13B.
- Concentrations of PHCs F4 exceeding the Table 7 SCS from groundwater samples collected at MW01-10, MW08-32A, MW14-1A, MW14-1B and MW19-12B.

Monitoring well locations where concentrations of BTEX and/or PHC F1 to F4 in groundwater exceeded the Table 7 SCS during are identified on **Figure 5a**.

Source, Distribution, and Migration of Identified Impacts

The identified BTEX and PHC impacts noted in groundwater were likely associated with off-site historical fuel spills, storage and dispensing at fuel outlets to the south of the Phase Two Property (at 1186 Wellington Avenue and 390 Parkdale Avenue).

As shown in plan view on **Figure No. 5a**, and in cross-section on **Figure Nos. 9a** and **10a**, the identified PHC impacts to groundwater were not laterally or vertically delineated. The maximum PHC concentrations in groundwater were measured in the intermediate groundwater interval while the maximum BTEX concentrations were measured in a range of groundwater intervals (from shallow to deep). However, no additional groundwater monitoring well locations were determined to be required due to adequate coverage by the existing well network.

The identified PHC groundwater impacts exceeding the Table 7 SCS will be addressed through the proposed remedial excavation and through the completion of a Tier 3 SSRA and its associated RMP.

5.12.5.9 Area of Groundwater Impacts – Volatile Organic Compounds

As summarized on **Figure No. 5b**, analytical results for VOCs of groundwater samples collected during the current investigation identified the following Table 7 SCS exceedances:

- Concentrations of 1,1-DCE exceeding the Table 7 SCS from groundwater samples collected at E3, MW01-10 (field duplicate QC-02 only), MW05-4, MW08-34, MW14-1A, MW19-12A, MW19-12B, MW19-13A, and MW19-13B.
- Concentrations of cis-1,2-DCE exceeding the Table 7 SCS from groundwater samples collected at E3, MW00-4, MW00-6, MW01-10, MW05-4, MW05-4A, MW08-31A, MW08-32A, MW08-33A, MW08-34, MW14-1A, MW14-1B, MW14-2, MW16-01, MW19-12A, MW19-12B, MW19-13A, and MW19-13B.
- Concentrations of trans-1,2-DCE exceeding the Table 7 SCS from groundwater samples collected at E3, MW00-4, MW01-10, MW05-4, MW05-4A, MW08-31A, MW08-32A, MW08-34, MW14-1A, MW14-2, MW16-01, MW19-12A, MW19-12B, MW19-13A, MW19-13B.



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- Concentrations of 1,1,2,2-tetrachloroethylene exceeding the Table 7 SCS from groundwater samples collected at E3 and MW19-12B.
- Concentrations of PCE exceeding the Table 7 SCS from groundwater samples collected at E3, MW00-4, MW00-6, MW01-10, MW05-4, MW05-4A, MW08-31A, MW08-32A, MW08-33A, MW08-34, MW14-1A, MW14-1B, MW14-2, MW16-01, MW19-12A, MW19-12B, MW19-13A, and MW19-13B.
- Concentrations of TCE exceeding the Table 7 SCS from groundwater samples collected at E3, MW00-4, MW00-6, MW01-10, MW05-4, MW05-4A, MW08-31A, MW08-32A, MW08-33A, MW08-34, MW14-1A, MW14-1B, MW14-2, MW16-01, MW19-12A, MW19-12B, MW19-13A, and MW19-13B.
- Concentrations of VC exceeding the Table 7 SCS from groundwater samples collected at E3, MW00-4, MW01-10, MW05-4, MW05-4A, MW08-31A, MW08-32A, MW08-34, MW14-1A, MW14-2, MW16-01, MW19-12A, MW19-12B (parent sample only), MW19-13A, MW19-13B.

Source, Distribution, and Migration of Identified Impacts

The identified VOC impacts noted in groundwater at these locations were likely associated with former manufacturing operations on the Phase Two Property.

As shown in plain view on **Figure No. 5b**, and cross-section on **Figure Nos. 9b** and **10b**, the identified VOC impacts to groundwater were not laterally or vertically delineated; however, maximum VOC concentrations are generally limited to the shallow and intermediate groundwater intervals and are known to extend off-site. As such, given the extensive monitoring well network and identification of maximum concentrations, no additional groundwater monitoring well locations were determined to be required.

The identified VOC groundwater impacts exceeding the Table 7 SCS will be addressed through the proposed remedial excavation and through the completion of a Tier 3 SSRA and its associated RMP.

5.12.5.10 Area of Groundwater Impacts – Polycyclic Aromatic Hydrocarbons

As summarized on **Figure No. 5c**, analytical results for PAHs of groundwater samples collected during the current investigation identified the following Table 7 SCS exceedances:

- Concentrations of anthracene exceeding the Table 7 SCS from groundwater samples collected at MW14-1B.
- Concentrations of benzo(a)anthracene exceeding the Table 7 SCS from groundwater samples collected at MW01-10.
- Concentrations of benzo(a)pyrene exceeding the Table 7 SCS from groundwater samples collected at MW14-1B and MW14-2.
- Concentrations of benzo(b)fluoranthene exceeding the Table 7 SCS from groundwater samples collected at MW01-10 (field duplicate QC-02 only) and MW14-2.
- Concentrations of benzo(g,h,i)perylene exceeding the Table 7 SCS from groundwater samples collected at MW01-10 (field duplicate QC-02 only), MW14-1B, MW14-2 and 19-12B.
- Concentrations of benzo(k)fluoranthene exceeding the Table 7 SCS from groundwater samples collected at MW01-10 (field duplicate QC-02 only), and MW14-2.
- Concentrations of chrysene exceeding the Table 7 SCS from groundwater samples collected at MW01-10 and MW14-2.
- Concentrations of indeno(1,2,3-cd)pyrene exceeding the Table 7 SCS from groundwater samples collected at MW01-10, MW14-2 and MW19-12B.
- Concentrations of naphthalene exceeding the Table 7 SCS from groundwater samples collected at MW01-10, MW14-1B and MW19-12B.



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- Concentrations of pyrene exceeding the Table 7 SCS from groundwater samples collected at MW01-10.

Source, Distribution, and Migration of Identified Impacts

The identified PAH impacts noted in groundwater at these locations were likely associated with former on-site and off-site manufacturing operations.

As shown in plan view on **Figure No. 5c**, and cross-section on **Figure Nos. 9c** and **10c**, the identified PAH impacts to groundwater were not laterally or vertically delineated. The maximum PAH concentrations were measured in a range of groundwater intervals, from shallow to deep; however, no additional groundwater monitoring well locations were determined to be required due to adequate coverage by the existing well network.

The identified PAH groundwater impacts exceeding the Table 7 SCS will be addressed through the proposed remedial excavation and through the completion of a Tier 3 SSRA and its associated RMP.

5.12.5.11 Area of Groundwater Impacts – Metals

As summarized on **Figure No. 5d**, analytical results for metals in groundwater samples collected from monitoring wells identified no Table 7 SCS exceedances.

5.12.6 Soil Vapour Quality

The soil vapour sampling program was completed to assess the potential of vapour intrusion to indoor air. The completion of the soil vapour sampling program was not required to support the O.Reg. 153/04 RSC filing.

A conservative soil vapour criteria for each of the submitted parameters was derived by adjusting the MECP Industrial Health Based Indoor Air Criteria (HBIAC_{ind}) by an attenuation factor (0.004) representative of vapour migration through the floor slab from soil to indoor air in a commercial building. The measured concentrations of detected parameters from the soil vapour samples are shown on **Figures 6a** and **6b**.

Based on a review of the historical soil vapour analytical results between 2010 and 2023, concentrations of PHCs and VOCs in soil vapour have consistently trended downward. Additional indoor air sampling was not conducted during the present investigation since concentrations of soil vapour have decreased significantly since 2010.

5.13 NON-STANDARD DELINEATION

Based on the historical results, and discussions with the district engineer on June 14, 2023, the application of a non-standard delineation approach was considered reasonable, if the requirements of Section 7 of Schedule E are met, with the exception of clause 7(4)(c). As new data is collected, it will be incorporated to confirm the assumptions used as part of the NSD rationale remain accurate. Results from the Phase Two were consistent with historical results, and several parameter groups were not delineated laterally or vertically in soil and groundwater at the Site. Non-



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standard delineation under Section 7.1 of Schedule E, O.Reg. 153/04, is required as part of preparing the Phase Two report, as soil characterization for VOCs, PHCs, PAHs, and metals did not achieve lateral delineation and vertical delineation was not possible as the deepest samples were collected just above bedrock. Similarly, groundwater characterization for VOCs, PHCs, and PAHs did not achieve lateral or vertical delineation.

The identified PHC F3 impacts reported in soil at BH23-1 on the south-central portion of the Site are considered likely to be associated with poor-quality fill soil on the south-central portion of the Site. PHCs impacts in soil at this location were laterally delineated to the north by BH23-2 (approximately 5m north of BH23-1), to the east and west by the on-Site buildings (beneath which there is no soil) and to the south by the south property boundary. PHC impacts in soil at BH23-1 were vertically delineated by the bedrock interface which was encountered at a depth of 1.2 m BGS.

The identified metals impacts reported in soil at BH23-1 (lead), BH23-4 (lead) and BH23-7 (cadmium and thallium) are considered likely to be associated with poor-quality fill imported to the Site in 2000 following removal of the on-Site soil down to bedrock as part of remediation efforts at the time. Metals impacts were vertically delineated by the bedrock interface (1.2 m BGS at BH23-1, 0.7 m BGS at BH23-4 and 0.8 m BGS at BH23-7).

The identified PAHs impacts reported in soil at BH23-1, BH23-4, BH23-7 and BH23-8 are considered likely to be associated with poor-quality fill imported to the Site in 2000 following removal of the on-Site soil down to bedrock as part of remediation efforts at the time. Maximum PAH concentrations were primarily observed at BH23-4 on the central portion of the Site. PAHs impacts were vertically delineated by the bedrock interface (1.2 m BGS at BH23-1, 0.7 m BGS at BH23-4, 0.8 m BGS at BH23-7 and 1.0 m BGS at BH23-8).

The identified PCE and TCE impacts reported in soil at BH23-1, BH23-2, BH23-3, BH23-4, BH23-5, BH23-6 and BH23-8 are considered likely to be associated with smearing effects from impacted groundwater during high water table periods. Maximum soil concentrations of TCE and PCE were observed at BH23-2 on the south-central portion of the Site, approximately 5 m west of MW01-10.

The identified BTEX and PHC impacts reported in groundwater are considered likely to be associated with undocumented fuel spills and/or poor waste disposal practices at the Site. As shown in plan view (**Figure 5a**) and in cross-section (**Figures 9a** and **10a**), the identified PHC impacts in groundwater were not laterally or vertically delineated. The maximum PHC concentrations in groundwater were measured on the central and south portions of the Site at MW14-1B (PHC F1) and at MW01-10 (PHC F2, F3, F4), both in the shallow groundwater interval. The maximum BTEX concentrations were measured at MW08-33A (benzene, toluene) and MW14-1B (ethylbenzene, xylenes) each on the central portion of the Site in the shallow bedrock groundwater interval. Based on the existing historical data and monitoring well network, it is the opinion of the QP that further effort to delineate the COCs in bedrock is unlikely to contribute any further significant or meaningful information regarding the interpretation of the distribution and extent of contaminants on, in or under the Phase Two Property.

The identified PAH impacts noted in groundwater are considered likely to be associated with former on-Site and off-Site manufacturing operations. As shown in plan view (**Figure 5c**) and cross-section (**Figure 9c** and **10c**) the identified PAH impacts in groundwater were not laterally or vertically delineated. The maximum PAH concentrations were measured primarily at MW01-10 on the south-central portion of the Site in the shallow bedrock groundwater interval. Maximum concentrations of benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene were observed at MW19-12B on the south-central portion of the Site in the intermediate bedrock groundwater interval. Based on the existing historical data and monitoring well network, it is the opinion of the QP that further effort to delineate the COCs in



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bedrock is unlikely to contribute any further significant or meaningful information regarding the interpretation of the distribution and extent of contaminants on, in or under the Phase Two Property.

The identified VOC impacts noted in groundwater were likely associated with former manufacturing operations on the Phase Two Property. As shown in plan view (**Figure 5b**), and cross-section (**Figure 9b** and **10b**), the identified VOC impacts to groundwater were not laterally or vertically delineated; however, maximum VOC concentrations are generally limited to the shallow and intermediate groundwater intervals and are known to extend off-Site. As such, given the existing monitoring well network and identification of maximum concentrations, it is the opinion of the QP that further effort to delineate the COCs in bedrock is unlikely to contribute any further significant or meaningful information regarding the interpretation of the distribution and extent of contaminants on, in or under the Phase Two Property.

Based on the results of the Phase One and Phase Two ESA and considering historical data, the appropriate contaminants of concern have been identified at the Site. Multiple investigations have been completed to locate the maximum concentrations and delineate the groundwater exceedances at the Site; however, not all COCs have been delineated and some are understood to extend off-Site to adjacent properties. Additional vertical delineation of COCs in groundwater is further challenged by the need to intersect rock fractures in the fractured bedrock environment with rock competency increasing with depth. The groundwater data collected by Stantec is consistent to historical results and additional efforts to delineate the soil and groundwater exceedances will not significantly contribute to the Site's conceptual site model, including the interpretation of the distribution and extent of the contaminants of concern. As such, a non-standard delineation approach is being applied to this Site and it is appropriate to apply the non-standard delineation exemption.

Soil Parameter Concentrations for Which NSD is Being Applied

Chemical of Concern	Maximum Concentration (µg/g)	Borehole Location	Table 7 SCS (µg/g)
PHC F3	1,020	BH23-1	300
Cadmium	2.0	BH23-7	1.2
Lead	204	BH23-1	120
Thallium	2.3	BH23-7	1
Acenaphthylene	0.47	BH23-1	0.15
Anthracene	2.13	BH23-4	0.67



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Benzo(a)anthracene	3.85	BH23-4	0.5
Benzo(a)pyrene	2.87	BH23-4	0.3
Benzo(b)fluoranthene	3.56	BH23-4	0.78
Benzo(k)fluoranthene	1.98	BH23-4	0.78
Indeno(1,2,3-cd)pyrene	1.58	BH23-1	0.38
Phenanthrene	10.4	BH23-4	6.2
Tetrachloroethene (PCE)	3.94	BH23-2	0.28
Trichloroethene (TCE)	0.36	BH23-2	0.061

Groundwater Parameter Concentrations for Which NSD is Being Applied

Chemical of Concern	Maximum Concentration (µg/L)	Monitoring Well Location	Table 7 SCS (µg/L)
Benzene	2,080	MW08-33A	0.5
Toluene	1,720	MW08-33A	320
Ethylbenzene	160	MW14-1B	54
Xylenes	560	MW14-1B	72
PHC F1	34,800	MW14-1B	420
PHC F2	313,000	MW01-10	150
PHC F3	317,000	MW01-10	500



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PHC F4	142,000	MW01-10	500
Acenaphthylene	<5.0	n/a (RDL issue)	1
Anthracene	5.57	MW01-10	1
Benzo(a)anthracene	8.31	MW01-10	1.8
Benzo(a)pyrene	6.74	MW01-10	0.81
Benzo(b)fluoranthene	6.69	MW01-10	0.75
Benzo(g,h,i)perylene	13.3	MW19-12B	0.2
Benzo(k)fluoranthene	4.05	MW01-10	0.4
Chrysene	7.10	MW01-10	0.7
Indeno(1,2,3-cd)pyrene	8.52	MW19-12B	0.2
Naphthalene	126	MW01-10	7
Pyrene	15.5	MW01-10	5.7
Dichloroethene, 1,1-	140	MW08-33A	0.5
Dichloroethene, cis-1,2-	390,000	MW14-1A	1.6
Dichloroethene, trans-1,2-	900	MW19-12A	1.6
Dichloropropane, 1,2-	3.0	E3	0.58
Tetrachloroethane, 1,1,2,2-	4.8	MW19-12B	0.5



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Tetrachloroethene (PCE)	460,000	E4	0.5
Toluene	1,720	MW08-33A	320
Trichloroethene (TCE)	98,000	MW14-1A	0.5
Vinyl Chloride	56,000	E5	0.5

5.14 EXEMPTIONS

The QP_{ESA} will not be relying upon exemptions outlined paragraph 1.1 or 2, 3 of section 49.1 of O. Reg 153/04, and/or subsections 6 (2), 43 (3) and (4) of Schedule E of O. Reg 153/04 under the phase two environmental site assessment.

The QP_{ESA} will be relying upon the exemption as outlined under paragraph 1 section 49.1 of O. Reg 153/04. The QP_{ESA} has determined, based on the phase one environmental site assessment, that a salt has been applied to surfaces of the Phase Two Property (for use as a parking lot) for the safety of vehicular or pedestrian traffic under conditions of snow or ice or both. As such, EC exceedances in soil and sodium and chloride exceedances in groundwater are not considered to be contaminants of concern with need for further investigation.

5.15 SUMMARY

Based on the results of the Phase One ESA and Phase Two and considering historical data, all the contaminants of concern have been identified at the Site. Multiple investigations have been completed at the Site to identify the maximum concentrations and delineate soil and groundwater exceedances both laterally and vertically. However, not all contaminants of concern have been delineated and some are known to extend off-site. Considering the multiple assessments that have been completed, location and extent of the soil and soil vapour sampling locations and monitoring well network targeting three difference groundwater intervals, appropriate steps have been taken to locate the maximum concentrations of COCs at the Site. It is our opinion that additional assessment to delineate the soil and groundwater exceedances is not required. As attempts to identify the maximum COC concentrations have been completed, it is reasonable to consider the data set representative of worst-case conditions and as such, these maximum values can be carried forward as part of a site-specific human health and ecological risk assessment to evaluate if the COCs pose an unacceptable risk to receptors. Additional delineation will not significantly contribute to the Site's conceptual site model, including the interpretation of the distribution and extent of the COCs, nor is additional assessment to collect additional data practical given the existing sampling locations proximate to the property boundaries and that the buildings are constructed on granular material or directly on bedrock.



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The soil and groundwater results exceed the applicable Table 7 SCS, and soil vapour results exceed the HBIAC. Soil and groundwater exceedances of Table 7 SCS and soil vapour exceedances of the HBIAC have the potential to create adverse effect for both on-site and off-site receptors. On-site conditions are being managed by Taggart through a proposed redevelopment which will remove a significant source of impacted soil, bedrock and groundwater at the Site. The proposed redevelopment will alter conditions during construction and Taggart will be completing an offsite monitoring program during redevelopment activities to assess the potential for adverse effect for off-site receptors. The risk to receptors on-site will be assessed through a Tier 3 SSRA. It is anticipated that conditions will be monitored post-construction to assess the risk for receptors at the Site. Off-site monitoring is currently being completed by others.

Excess soil has not been finally placed at the RSC property for backfilling/grading purposes.

5.15.1 Contaminant Fate and Transport Mechanisms

5.15.1.1 Preferential Pathways

The presence of coarser grained materials around buried utilities (bedding material), near-surface fill, or building foundations can often act as preferential pathways for the migration of COC. Based on the known depths (within the overburden, less than 1.5 m BGS) of local storm sewer and water service infrastructure at the Site and considering the average depth to the water table (within bedrock unit and greater than 2 m BGS) it is likely that buried utilities are acting as a preferential pathway for migration of groundwater impacts. Migration of impacts in groundwater appear to be associated with advective groundwater flow.

5.15.1.2 Climatic and Meteorological Conditions

Daily average temperatures for the Ottawa area range from a minimum of -10.0°C (January) to a maximum of 27.0°C (July). Precipitation (rain and snowfall) ranges from approximately 49.5 mm (February) to 96.8 mm (June).

Considering the depth to groundwater and the moderate precipitation, it is considered unlikely that the local climate or meteorological conditions have significantly influenced the distribution of the COCs at the Phase Two Property; however, soil leaching within the courtyard area is likely occurring and contributing to impacted groundwater. The primary mechanism for contaminant transport in groundwater in the fractured bedrock is advection, although dispersion and adsorption are likely occurring as secondary transport mechanisms.

5.15.1.3 Soil Vapour Intrusion

A multi-storey mixed-use building with several levels of underground parking is planned for the future development at the Site. Therefore, vapour intrusion into buildings will be assessed in the Risk Assessment and potential migration of vapours to off-site receptors will also be considered.

Human health and ecological CSMs will be provided in the RA and provide additional details regarding potential receptors and associated exposure pathways considered reasonable for the Site.



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5.15.2 Contaminant Pathways and Receptors

At the time of the site assessment activities, the buildings at 3 Hamilton Avenue North (which includes units 5, 7A, 7B, and 340 Parkdale Avenue) and 223, 229, and 233 Armstrong Street were occupied. The future property use will be residential and is in an area of mixed residential and commercial uses. The following sections summarize applicable pathways and receptors associated with identified concentrations of COCs that are reported to exceed the O.Reg. 153/04 Table 7 SCS at the Site.

5.15.2.1 Human Health CSM

The human health CSM describes the potential release and transport mechanisms for soil and groundwater COCs and identifies the exposure pathways for the human receptors (including sensitive receptors) that are likely to be present on the Site under the future land use and on adjacent properties (nearest off-Site receptors). The CSM will be relied upon as the framework for examining potential health risks in the human health risk assessment.

Based on the current site characteristics, and with the understanding that land use at the Site is to become residential, it is expected that human receptors at the Site are likely to include the following:

- Resident (toddler and composite)
- Adult subsurface worker (i.e., short-term construction worker)
- Adult indoor worker (i.e., long-term indoor worker)
- Adult outdoor worker (i.e., long-term maintenance worker)
- Site visitor / Trespasser

Off-Site human receptors are likely to include:

- Residents (toddler and composite)
- Adult subsurface worker (i.e., short-term construction worker)
- Adult indoor worker (e.g., long-term indoor worker)
- Adult outdoor worker (e.g., long-term maintenance workers)
- Site Visitor / Trespasser

Under the residential land use scenario, with no Risk Management Measures (RMMs) in place, the likely exposure pathways on-Site include:

Soil

- Dermal contact/ incidental ingestion (on-site receptors only)
- Inhalation of soil particulates (subsurface worker only)
- Ingestion of vegetation (garden produce for residents)
- Inhalation of volatiles/vapour skin contact
 - Outdoor air (resident, outdoor worker)
 - Indoor air (resident, indoor worker)
 - Trench air (subsurface worker)
- Vapour skin contact in indoor and outdoor air

Groundwater



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT – PROPOSED HINTONBURG DEVELOPMENT OTTAWA, ONTARIO

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- Inhalation of volatiles/vapour skin contact
 - Outdoor air (resident, outdoor worker, subsurface worker)
 - Indoor air (resident, indoor worker)
 - Trench air (subsurface worker)
- Vapour skin contact in indoor and outdoor air

The Visitor/Trespasser receptor is considered lesser exposed relative to the other receptors for applicable pathways and will therefore be evaluated qualitatively.

Each of the identified exposure pathways for the referenced human receptors will be evaluated using a risk-based approach. Where potential risk associated with the observed COCs in soil and groundwater are identified, RMMs may be recommended.

Two human health CSMs are provided and outline potential exposure pathways under conditions where RMMs are absent (**Figure 11a**), and where RMMs are in place (**Figure 11b**).

5.15.3 Ecological Receptors and Exposure Pathways

The ecological CSM provides an illustrative description of the exposure pathways and the transport mechanisms by which COCs can move through the property and the contaminated media that ecological receptors (on and off-Site) may encounter. The exposure pathways and receptors have been chosen based on the soil and groundwater site conditions and proposed future Site redevelopment plans. Typical ecological receptors present for urban areas include:

- Terrestrial Plants and soil invertebrates
- Mammals and birds including
 - American woodcock (*Scolopax minor*)
 - Meadow vole (field mouse; *Microtus Pennsylvanicus*)
 - Short-tailed shrew (*Blarina brevicauda*)
 - Red-tailed hawk (*Buteo jamaicensis*)
 - Red-winged blackbird (*Agelaius phoeniceus*)
 - Red fox (*Vulpes vulpes*)
- Reptiles

Amphibians (terrestrial and aquatic phases, e.g., spring peeper) are not expected to be present due to the absence of suitable habitats (e.g., marshes, ponds, and damp forests) on-Site and in the local off-Site areas

There are no aquatic features within 30 m of the Site. The nearest downgradient surface water body is the Ottawa River located 1 km north of the Site. Off-Site aquatic life (i.e., fish, aquatic plants, aquatic invertebrates (water column and benthic) and aquatic phase amphibians) will be considered for off-Site exposure.



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Additionally, under the residential land use scenario, with no RMM in place, the likely exposure pathways include:

Soil

- Soil Ingestion, and/or dermal contact with soil, and/or particulate inhalation
- Ingestion of soil invertebrates, terrestrial mammals, terrestrial birds or terrestrial plants
- Vapour inhalation and/or stem/foliar uptake of vapour

Groundwater

- Direct contact, and/or dermal contact with groundwater
- Uptake from groundwater-to-surface water and sediment by off-Site aquatic receptors (off-Site only)
- Ingestion of aquatic biota (off-Site only)

Two ecological CSMs are provided and outline potential exposure pathways under conditions where RMMs are absent (**Figure 12a**), and where RMMs are in place (**Figure 12b**).



Conclusions
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6.0 CONCLUSIONS

Taggart retained Stantec to conduct a Phase Two ESA for the properties bounded by Spencer Street, Hamilton Avenue North, Parkdale Avenue, and Armstrong Street (the “Phase Two Property” or the “Site”) in Ottawa, Ontario.

The Phase Two ESA was conducted to characterize soil, groundwater and soil vapour at APECs identified as part of a Phase One ESA completed by Stantec for the COCs associated with identified PCAs and was completed consistent with the requirements of O.Reg.153/04. Soil and groundwater quality was assessed in the context of the applicable MECP (MOE, 2011) SCS as referenced by O.Reg.153/04.

The current Phase Two ESA included a review of historical investigations for the Phase Two Property and adjacent properties, the advancement of boreholes, sampling and monitoring of the existing monitoring wells, and a soil, groundwater, and soil vapour assessment program. The fieldwork for the Phase Two ESA was completed between June and July 2023. Soil and groundwater samples were collected for analysis of one or more of the following: PHCs PAHs, VOCs including BTEX, metals including hydride forming metals, EC, SAR, and pH.

The findings of the Phase Two ESA were as follows:

- Considering the proposed redevelopment of the Site, the MOE (2011) Table 7 SCS for Residential/Parkland/Institutional land use in a non-potable groundwater condition with coarse textured soils were considered the standards applicable at the Phase Two Property.
- Soil vapour results were compared to calculated soil vapour criteria for a slab-on-grade, commercial scenario. The potential for soil vapour intrusion in a residential scenario will be evaluated within a planned, regulated risk assessment process.
- The soil profile observed by Stantec during the Phase Two ESA was generally consistent with that reported during previous investigations at the Phase Two Property. Generally, the soil profile consisted of up to 1.75 m of silty sand fill and granular material which was underlain by limestone bedrock.
- Bedrock geology in the Study Area was mapped as limestone, dolostone, shale, arkose, and sandstone of the Ottawa Group and Simcoe Group, Shadow Lake Formation (MNR, 1991). Limestone bedrock was encountered at depths between 0.46 m and 1.2 m BGS during this investigation.
- The depth to water measured in the shallow bedrock groundwater unit during the June 2023 monitoring event ranged from 1.14 m to 6.99 m BGS, with groundwater elevations ranging from 55.30 m above mean sea level (m AMSL) to 60.88 m AMSL. The depth to water measured in the intermediate bedrock groundwater unit during the June 2023 monitoring event ranged from 4.54 m to 5.81 m BGS, with groundwater elevations ranging from 56.45 m AMSL to 58.04 m AMSL. The depth to water measured in the deep bedrock groundwater unit during the June 2023 monitoring event ranged from 5.42 m below top of pipe (m BTOP) to 8.20 m BTOP, with groundwater elevations ranging from 54.47 m AMSL to 57.24 m AMSL.



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- Based on groundwater level measurements from 2023, the groundwater flow direction in the shallow groundwater unit was interpreted to be north to northeast and was influenced by the presence of utility trenches. The groundwater flow direction in the intermediate groundwater unit was interpreted based on historical trends to generally be toward the north to northeast in June 2023. The groundwater flow direction in the deep groundwater unit could not be inferred since one of the three deep wells was dry in June 2023. However, based on the observed deep groundwater elevations, a south to southeast component to the flow direction (toward the geological fault adjacent to the east of the Site) was apparent.
- The horizontal hydraulic gradient was calculated to be approximately 0.59 m/m, based on the June 2023 monitoring event. The average hydraulic conductivity (K) in bedrock at the Site was previously calculated as part of the 2005 Remedial Action Plan (Golder, 2005b) and was reported to range between 6.27×10^{-7} (MW01-10) and 5.35×10^{-6} m/s (MW00-4).
- Metals including hydride forming metals, PAHs, PHCs F1 to F4, and VOCs were considered COCs for soil and for groundwater.
- The results of the Quality Assurance/Quality Control (QA/QC) procedures indicated that the data quality objectives (DQOs) for the soil and groundwater data were met, and that the data were of acceptable quality and adequate for their intended use.

Based on the results of the Phase Two ESA, the MOE (2011) Table 7 SCS were not met for the COCs noted above within APECs 1 to 8 at the Phase Two Property at the time of the assessment.

Soil and groundwater impacts will be addressed through a combination of a proposed remedial excavation and completion of an O.Reg. 153/04 Tier 3 SSRA.

6.1 SIGNATURES

This report documents work that was performed consistent with generally accepted professional standards at the time and location in which the services were provided. No other representations, warranties or guarantees are made concerning the accuracy or completeness of the data or conclusions contained within this report, including no assurance that this work has uncovered all potential liabilities associated with the identified property.

This report provides an evaluation of selected environmental conditions associated with the identified portion of the property that was assessed at the time the work was conducted and is based on information obtained by and/or provided to Stantec at that time. There are no assurances regarding the accuracy and completeness of this information. All information received from the client or third parties in the preparation of this report has been assumed by Stantec to be correct. Stantec assumes no responsibility for any deficiency or inaccuracy in information received from others.

The opinions in this report can only be relied upon as they relate to the condition of the portion of the identified property that was assessed at the time the work was conducted. Activities at the property subsequent to Stantec's assessment may have significantly altered the property's condition. Stantec cannot comment on other areas of the property that were not assessed.



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT – PROPOSED HINTONBURG DEVELOPMENT OTTAWA, ONTARIO

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Conclusions made within this report consist of Stantec's professional opinion as of date of issue of this report, and are based solely on the scope of work described in the report, the limited data available, and the results of the work. They are not a certification of the property's environmental condition. This report should not be construed as legal advice.

This report has been prepared for the exclusive use of the client identified herein and any use by any third party is prohibited. Stantec assumes no responsibility for losses, damages, liabilities or claims, howsoever arising, from third party use of this report.

This report is limited to:

- The sampling locations as shown on Figure No. 2a. Conditions may vary between sampling locations.
- The analytical parameters listed in Tables II, III, and IV.

The locations of any utilities, buildings and structures, and property boundaries illustrated in or described within this report, if any, including pole lines, conduits, water mains, sewers and other surface or sub-surface utilities and structures are not guaranteed. Before starting work, the exact location of all such utilities and structures should be confirmed and Stantec assumes no liability for damage to them.

The conclusions are based on the site conditions encountered by Stantec at the time the work was performed at the specific testing and/or sampling locations, and conditions may vary among sampling locations. Factors such as areas of potential concern identified in previous studies, site conditions (e.g., utilities) and cost may have constrained the sampling locations used in this assessment. In addition, analysis has been carried out for only a limited number of chemical parameters, and it should not be inferred that other chemical species are not present. Due to the nature of the investigation and the limited data available, Stantec does not warrant against undiscovered environmental liabilities nor that the sampling results are indicative of the condition of the entire site. As the purpose of this report is to identify site conditions that may pose an environmental risk; the identification of non-environmental risks to structures or people on the site is beyond the scope of this assessment.

Should additional information become available which differs significantly from our understanding of conditions presented in this report, Stantec specifically disclaims any responsibility to update the conclusions in this report.

This report was prepared by Philip Resendes, B.Sc., and was reviewed by Dylan Hemmings, M.Sc., P.Geo.

As QP_{ESA}, I (Dylan Hemmings) confirm that I have supervised this Phase Two ESA and concur with the findings and conclusions of this report. In addition, I confirm that I have completed a technical review of the Phase Two ESA report.



PHASE TWO ENVIRONMENTAL SITE ASSESSMENT – PROPOSED HINTONBURG DEVELOPMENT OTTAWA, ONTARIO

Conclusions
March 1, 2024

All of which is respectively submitted,

STANTEC CONSULTING LTD.



Digitally signed by
Resendes, Philip
Date: 2025.12.17
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Philip Resendes, B.Sc.
Environmental Site Assessor
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Hemmings
Date: 2025.12.17
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Dylan.Hemmings@stantec.com



References
March 1, 2024

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March 1, 2024

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FIGURES

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DRAFT



Stantec

Legend

 Approximate Site Boundary



Notes

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Project Location
Ottawa, ON

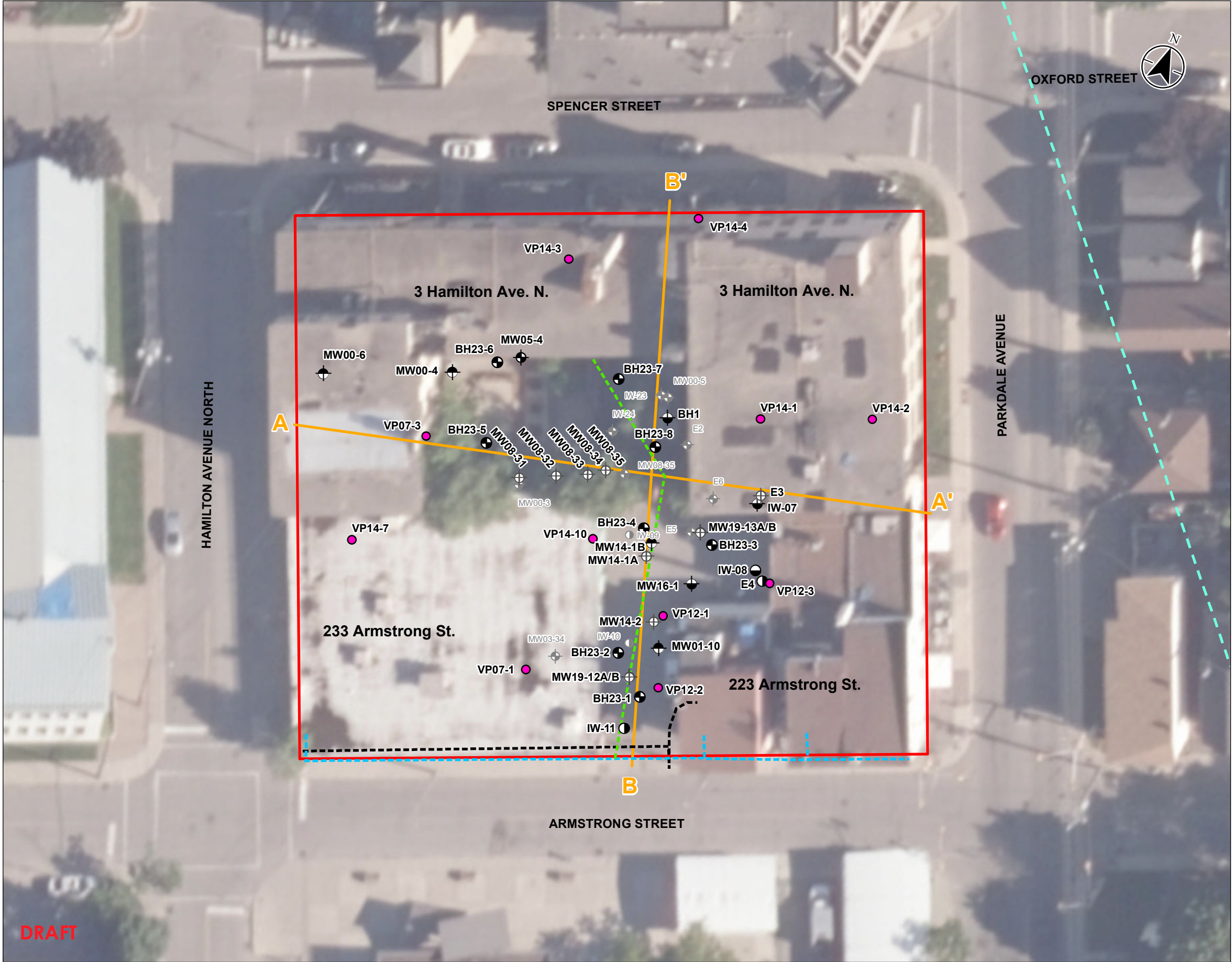
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Prepared by CL on 2025-02-05

Client/Project
Taggart Realty Management
1000147699 Ontario Inc. Proposed Parkdale
Redevelopment

Figure No.
1

Title
Site Location

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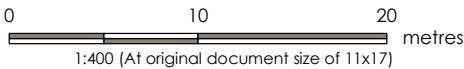


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Legend

- Approximate Vapour Probe Location
 - Borehole
 - Shallow Monitoring Well
 - Shallow/Intermediate Monitoring Well
 - Intermediate Injection Well
 - Intermediate Monitoring Well
 - Deep Injection Well
 - Deep Monitoring Well
 - Approximate Intermediate Injection Well (Presumed Destroyed)
 - Approximate Monitoring Well Location (Presumed Destroyed)
 - Cross-Section Line
 - Geological Fault
 - Gas Line
 - Sanitary Line
 - Water Line
 - Approximate Site Boundary
- IW - Injection Well
BH - Borehole
MW - Monitoring Well



Notes

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Project Location
Ottawa, ON

122170424 REV8
Prepared by CL on 2025-03-26

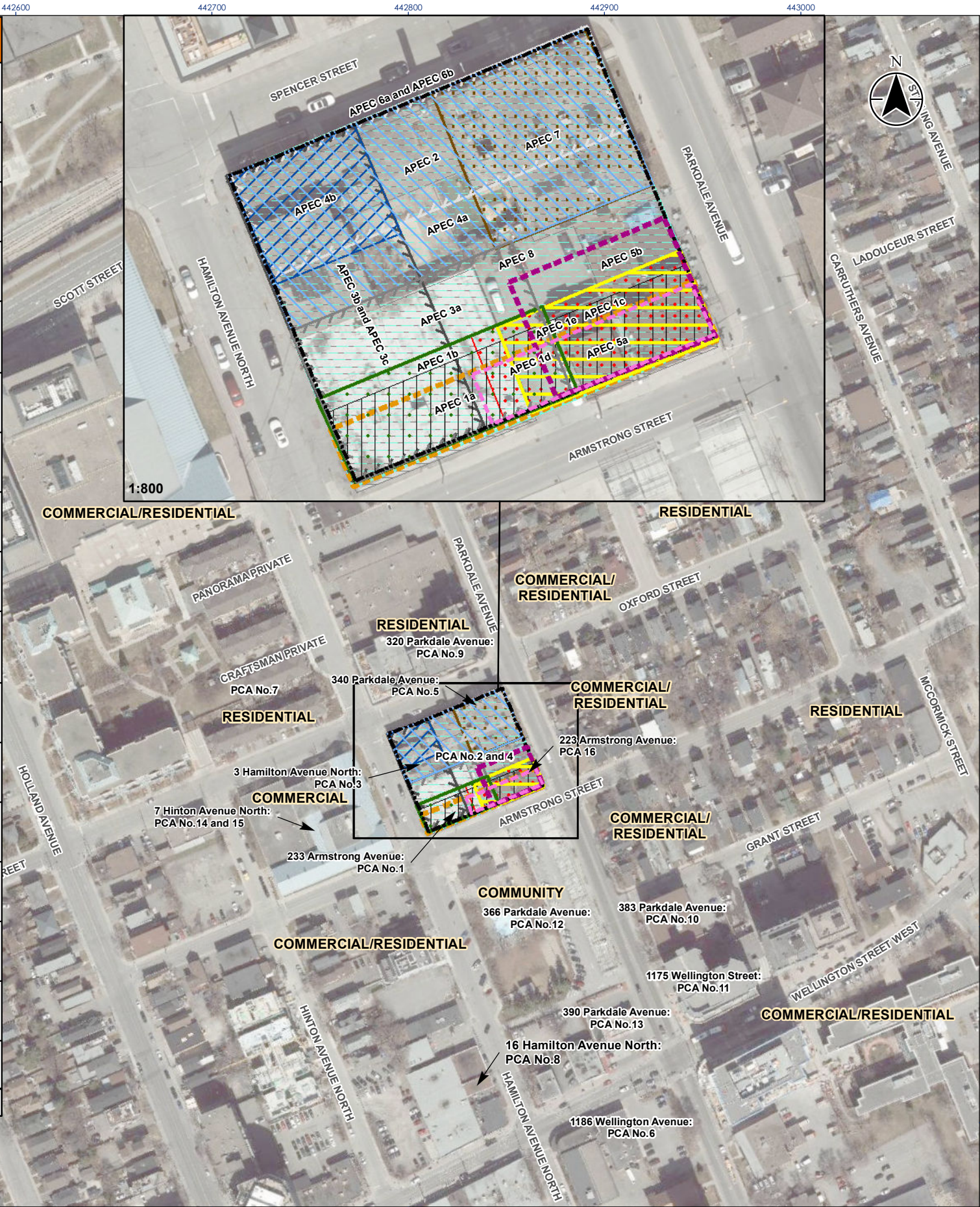
Client/Project
Taggart Realty Management
1000147699 Ontario Inc. Proposed Parkdale
Redevelopment

Figure No.
2a

Title
Site Plan

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APEC	Location of APEC on Phase One Property	PCA	Location of PCA (on-site or off-site)	Contaminants of Potential Concern ¹	Media Potentially Impacted (Ground water, soil and/or sediment)
1a	Southern portion of Phase One Property	PCA No. 6 Gasoline and Associated Products Storage in Fixed Tanks (O.Reg. 153/04 PCA 28) and a fuel related spills	Off-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
1b	Southwest portion of Phase One Property	PCA No. 8 Commercial Autobody Shop (O.Reg. 153/04 PCA 10) and waste generation of various types including fuel related waste	Off-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
1c	Southeast portion of Phase One Property	PCA No. 11 Gasoline and Associated Products Storage in Fixed Tanks (O.Reg. 153/04 PCA 28)	Off-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
1d	South portion of Phase One Property	PCA No. 12 Mill, lumberyard, and dry kiln (O.Reg. 153/04 PCA Undefined)	Off-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
1e	Southeast portion of Phase One Property	PCA No. 13 Gasoline and Associated Products Storage in Fixed Tanks (O.Reg. 153/04 PCA 28) Fuel related spill	Off-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
2	Northern portion of Phase One Property	PCA No. 9 Gasoline and Associated Products Storage in Fixed Tanks (O.Reg. 153/04 PCA 28) and a fuel related spill	Off-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
3a	Southwestern portion of Phase One Property	PCA No. 1 1: Potential PCE usage during leather preparation (O.Reg. 153/04 PCA Undefined)	On-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
3b	West portion of Phase One Property	PCA No. 14 Metal Fabrication (O.Reg. 153/04 PCA 34)	Off-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
3c	West portion of Phase One Property	PCA No. 15 Gasoline and Associated Products Storage in Fixed Tanks (O.Reg. 153/04 PCA 28)	Off-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
4a	North portion of Phase One Property	PCA No. 3 Vehicles and Associated Parts Manufacturing (O.Reg. 153/04 PCA 57) and waste generation of various types including fuel related waste and chlorinated solvents	On-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
4b	Northwest portion of Phase One Property	PCA No. 7 Metal Fabrication (O.Reg. 153/04 PCA 34)	Off-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
5a	Southeastern portion of Phase One Property	PCA No. 10 Fuel related spill	Off-Site	• BTEX • VOCs • PHCs • Metals • PAHs	Soil and groundwater
5b	Southeastern portion of One Property	PCA No. 16 Gasoline and Associated Products Storage in Fixed Tanks (O.Reg. 153/04 PCA 28)	On-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
6a	Entire Phase One Property	PCA No. 2 2: Confirmed PCE, TCE, DCE, vinyl chloride and hydrocarbon impacts	On-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
6b	Entire Phase One Property	PCA No. 4 4: Importation of Fill Material of Unknown Quality (O.Reg. 153/04 PCA 30)	On-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil
7	Northeast portion of the Site	PCA No. 5 Poorly managed waste in basement directly overlying eroded building foundation (O.Reg. 153/04 PCA Undefined)	On-Site	• PAHs • VOCs • BTEX • PHCs • Metals	Soil and groundwater
8	Central and south-central (exterior) portions of Phase One Property	PCA No. 17 Historical application of de-icing compounds (O.Reg. 153/04 PCA Undefined)	On-Site	• EC • Sodium, chloride • SAR	Soil and groundwater
¹ Contaminants include petroleum hydrocarbons (PHCs), volatile organic compounds (VOCs), benzene, toluene, ethylbenzene, and xylenes (BTEX), polycyclic aromatic hydrocarbons (PAHs), electrical conductivity (EC).					



Legend

- APEC 1a
- APEC 1b
- APEC 1c
- APEC 1d
- APEC 1e
- APEC 2
- APEC 3a
- APEC 3b and APEC 3c
- APEC 4a
- APEC 4b
- APEC 5a
- APEC 5b
- APEC 6a and APEC 6b (Entire Property)
- APEC 7
- APEC 8
- No Overburden, Bedrock Foundation

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Notes

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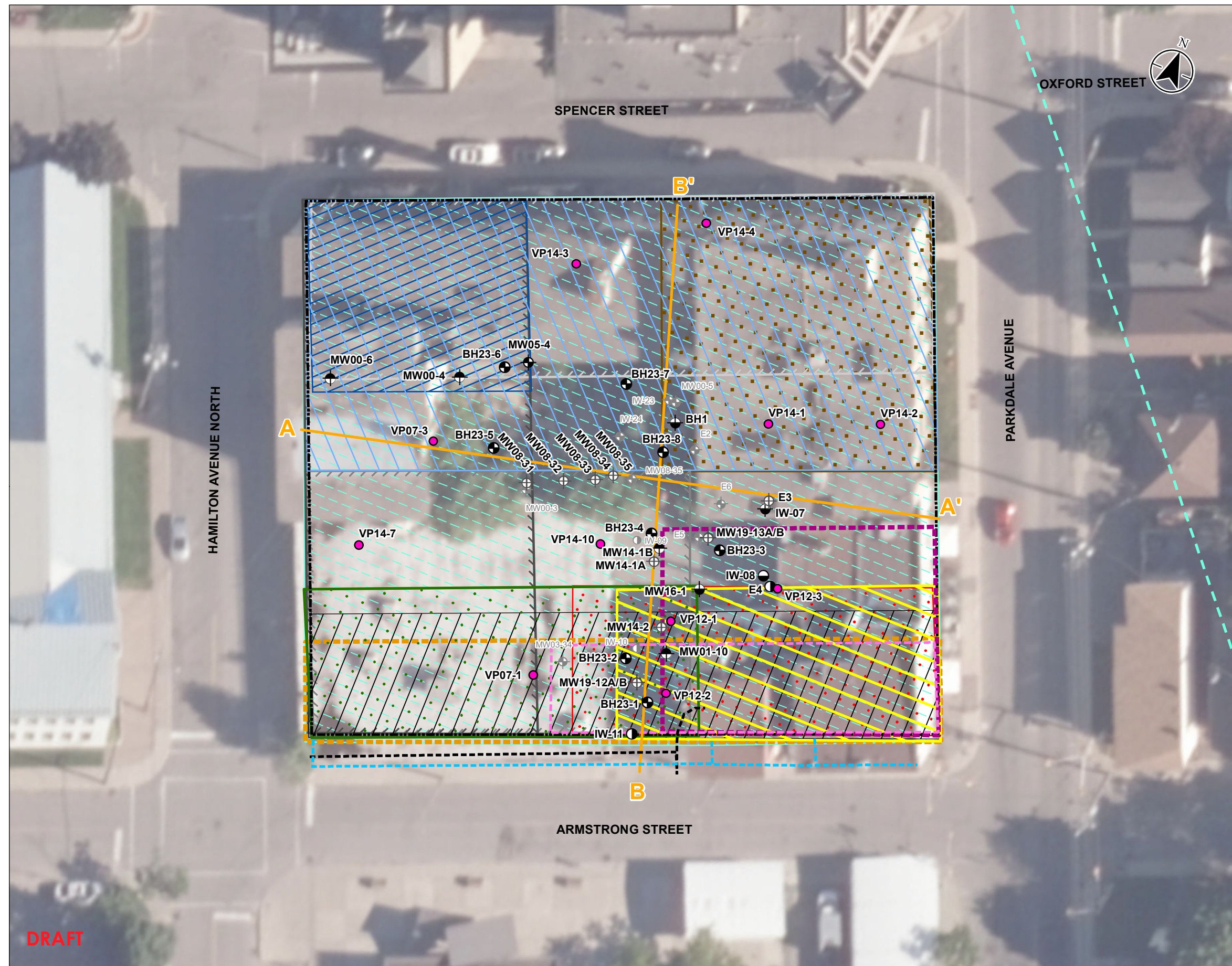
Project Location
Ottawa, ON

122170424 REV8
Prepared by CL on 2025-04-02

Client/Project
Taggart Realty Management
1000147699 Ontario Inc. Proposed Hintonburg
Redevelopment

Figure No.
2b

Title
Areas of Potential Concern (APEC)



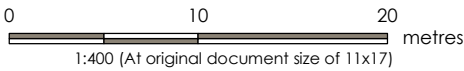
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Legend

- Shallow Monitoring Well
- Shallow/Intermediate
- Approximate Monitoring Well Location (Presumed Destroyed)
- Inferred Groundwater Flow Direction
- Approximate Site Boundary
- 61.87 Groundwater Elevation (m ASL)
- NC Not Calculable

IW - Injection Well
BH - Borehole
MW - Monitoring Well



- Notes**
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 4. m ASL - metres above mean sea level



Project Location
Ottawa, ON

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Prepared by CL on 2024-02-09

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Taggart Realty Management
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Redevelopment

Figure No.
3a

Title
**Groundwater Elevations Shallow Bedrock
Unit – June 26 and 27, 2023**

\\Ca0218.sphsa\work_group\2012\active\122170424\03_data\gls\gls\mxd\Remediation\report_figures\Phase_1\122170424_Phase1_Fig03b_Intermediate_GW_Elevations_REV01.mxd Revised: 2024-02-02 By: clee



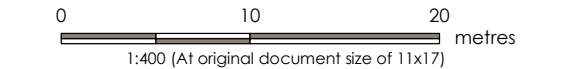


Stantec

Legend

-  Shallow/Intermediate
-  Intermediate Monitoring Well
-  Approximate Monitoring Well Location (Presumed Destroyed)
-  Approximate Site Boundary
- 61.87 Groundwater Elevation (m ASL)
- NC Not Calculable

IW - Injection Well
BH - Borehole
MW - Monitoring Well



- Notes**
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 4. m ASL - metres above mean sea level



Project Location
Ottawa, ON

122170424 REV01
Prepared by CL on 2024-02-02

Client/Project
Taggart Realty Management
1000147699 Ontario Inc. Proposed Hintonburg
Redevelopment

Figure No.
3b

Title
**Groundwater Elevations Intermediate
Bedrock Unit – June 26 and 27, 2023**

\\C0218.sphsa\work_group\2012\active\122170424\03_data\gls_cad\gls\mxds\Remediation\report_figures\Phase_1\122170424_Phase1A_Fig03c_Deep_GW_Elevations_REV8.mxd Revised: 2024-02-02 By: cbe



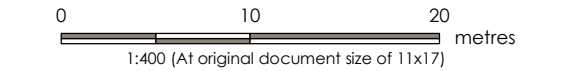


Stantec

Legend

-  Deep Monitoring Well
-  Approximate Monitoring Well Location (Presumed Destroyed)
-  Approximate Site Boundary
- 61.87 Groundwater Elevation (m ASL)
- NC Not Calculable

IW - Injection Well
BH - Borehole
MW - Monitoring Well



- Notes**
1. Coordinate System: NAD 1983 UTM Zone 18N
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 4. m ASL - metres above mean sea level



Project Location
Ottawa, ON

122170424 REV8
Prepared by CL on 2024-02-02

Client/Project
Taggart Realty Management
1000147699 Ontario Inc. Proposed Hintonburg
Redevelopment

Figure No.
3c

Title
**Groundwater Elevations Deep Bedrock
Unit – June 26 and 27, 2023**

\\Ca0218.sphsa\work_group\2012\active\122170424\03_data\gis\mxd\Remediation\report_figures\Phase_1\122170424_PhilSA_Fig04a_4d_SO_Analytical_REV0.mxd Revised: 2024-02-02 By: dee



BH23-1	
	0.3 - 1.2 m 06/26/2023
PHC F3 (>C16-C34 range)	1020

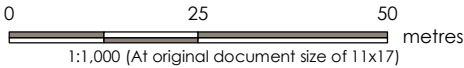
Legend

- Approximate Borehole Location
- Approximate Monitoring Well Location (Presumed Destroyed)
- Approximate Site Boundary
- Soil Parameters Tested Met Regulatory Standards (2011 MECP Table 7 SCS)
- One or More Soil Parameters Exceed Regulatory Standards (2011 MECP Table 7 SCS)

IW - Injection Well
BH - Borehole
MW - Monitoring Well

Sample ID	Depth (m BGS)/Date
BH23-1	0.3 - 1.2 m 06/26/2023
PHC F3 (>C16-C34 range)	1020
Parameter	Parameters Exceed Table 7 SCS

MECP 2011 Table 7 SCS		
Parameter	Value	Units
PHC F3 (>C16-C34 range)	300	µg/g



- Notes**
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 4. m BGS - metres below ground surface
 7. PHCs - Petroleum Hydrocarbons
 8. BTEX - Benzene, Toluene, Ethylbenzene, Xylenes.

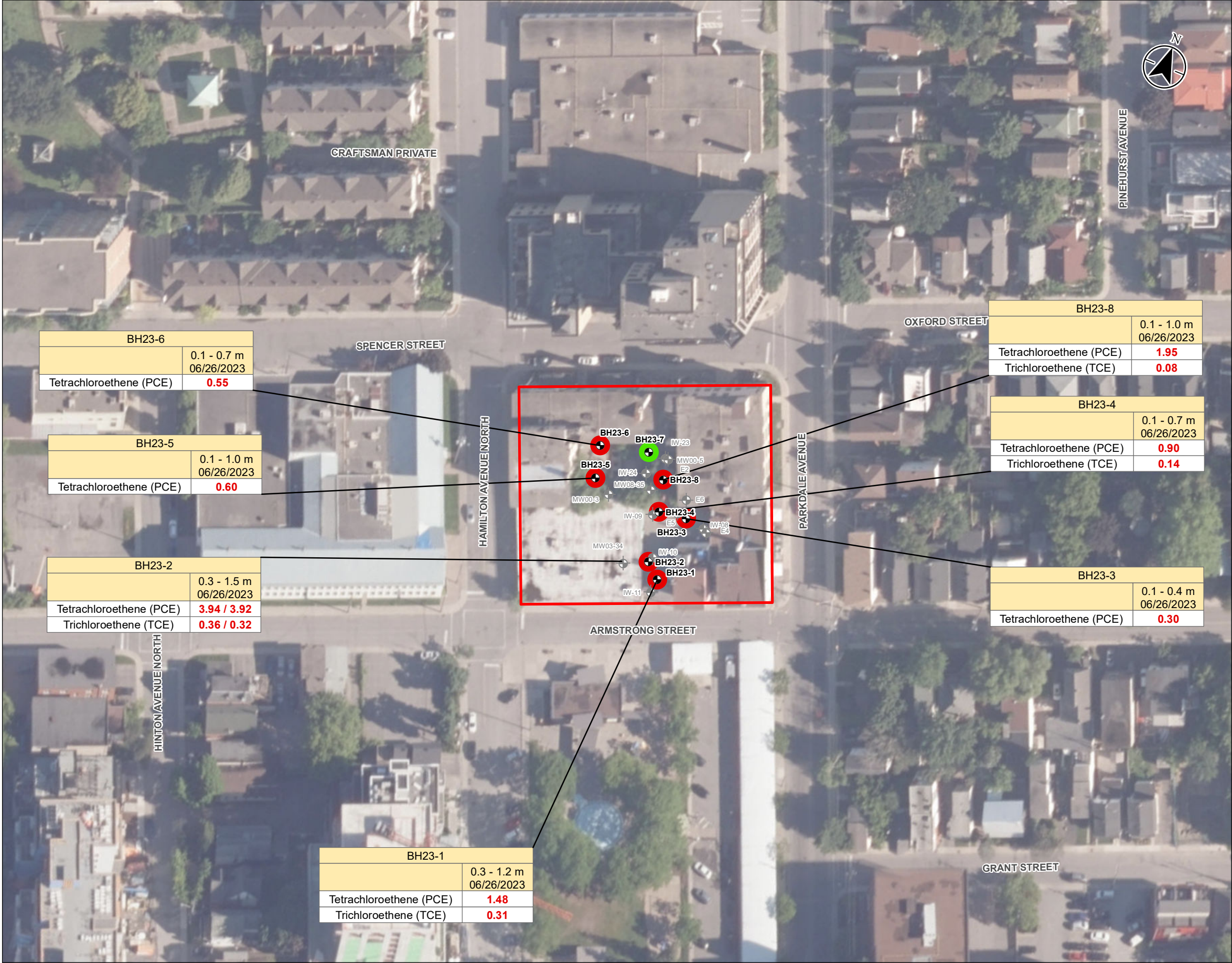
Project Location 122170424 REV0
Ottawa, ON Prepared by CL on 2024-02-02

Client/Project
Taggart Realty Management
1000147699 Ontario Inc. Proposed Hintonburg
Redevelopment

Figure No.
4a

Title
**Summary of Summary of Soil Analytical
Results for PHCs and BTEX**

\\Ca0218.sphsa\work_group\01221\active\122170424\03_data\gls\gls\remediation\report_figures\Phase_1\122170424_Philisa_Fig04b_4d_SO_Analytical_REV0.mxd Revised: 2024-02-02 By: clee



Legend

- Approximate Borehole Location
- Approximate Monitoring Well Location (Presumed Destroyed)
- Approximate Site Boundary
- Soil Parameters Tested Met Regulatory Standards (2011 MECP Table 7 SCS)
- One or More Soil Parameters Exceed Regulatory Standards (2011 MECP Table 7 SCS)

IW - Injection Well
BH - Borehole
MW - Monitoring Well

Sample ID	Depth (m BGS)/Date
BH23-2	0.1 - 0.7 m 06/26/2023
Tetrachloroethene (PCE)	1.95
Trichloroethene (TCE)	0.08

Parameter	Parameters Exceed Table 7 SCS
Tetrachloroethene (PCE)	3.94 / 3.92

MECP 2011 Table 7 SCS		
Parameter	Value	Units
Tetrachloroethene(PCE)	0.28	µg/g
Trichloroethene(TCE)	0.061	µg/g

0 25 50 metres

1:1,000 (At original document size of 11x17)

Notes

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- Orthoimagery © City of Ottawa, 2024. Imagery Date, 2022.
- m BGS - metres below ground surface
- VOCs - Volatile Organic Compounds

Project Location
Ottawa, ON

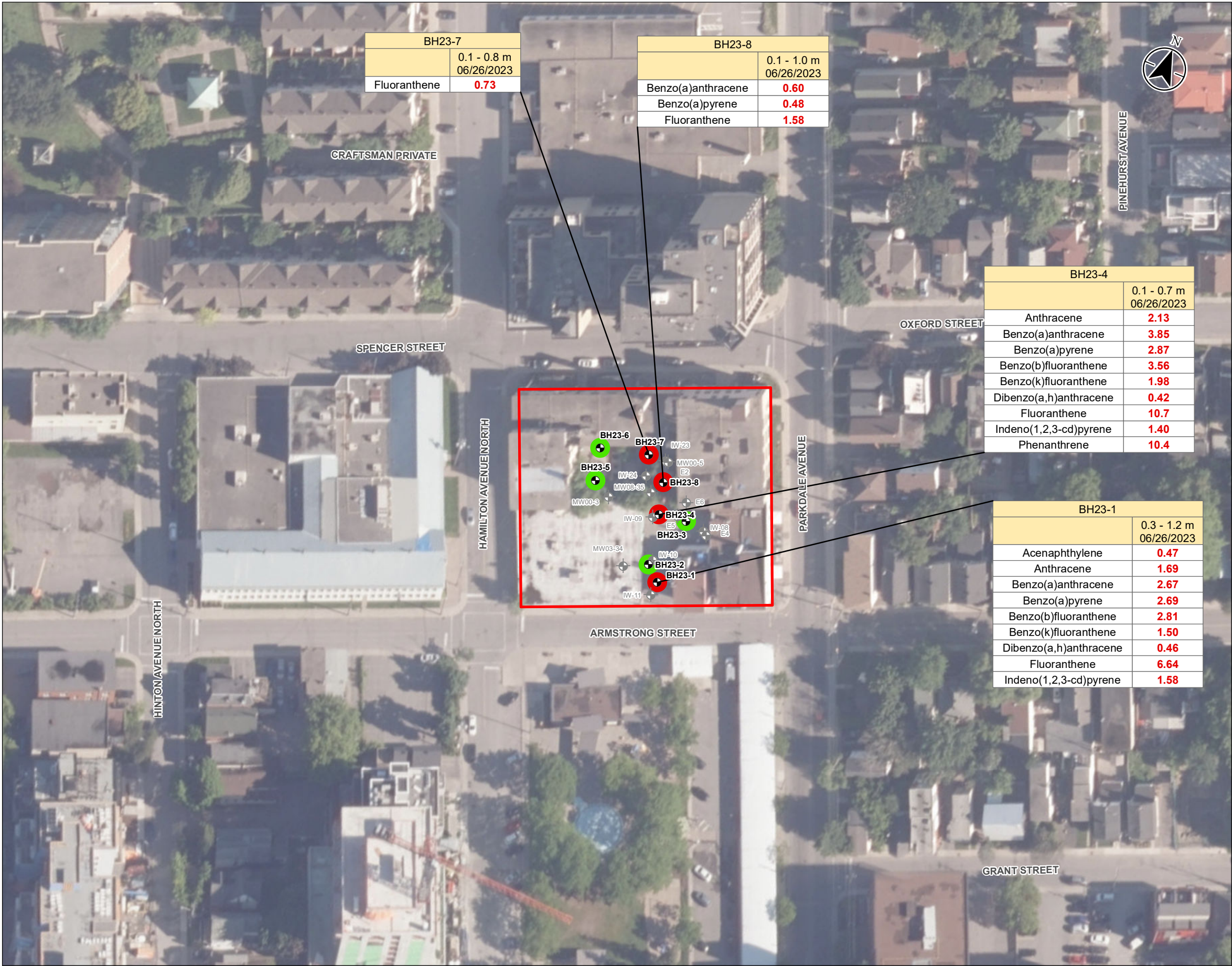
122170424 REV0
Prepared by CL on 2024-02-02

Client/Project
Taggart Realty Management
1000147699 Ontario Inc. Proposed Hintonburg
Redevelopment

Figure No.
4b

Title
**Summary of Summary of Soil Analytical
Results for VOCs**

\\C0218.sphsa\work_group\01221\active\122170424\03_data\gls_cad\gls\mxd\Remediation\report_figures\Phase_1\122170424_Phase1A_Fig04a_4d_SO_Analytical_REV0.mxd Revised: 2024-02-02 By: dee



BH23-7	
0.1 - 0.8 m	06/26/2023
Fluoranthene	0.73

BH23-8	
0.1 - 1.0 m	06/26/2023
Benzo(a)anthracene	0.60
Benzo(a)pyrene	0.48
Fluoranthene	1.58

BH23-4	
0.1 - 0.7 m	06/26/2023
Anthracene	2.13
Benzo(a)anthracene	3.85
Benzo(a)pyrene	2.87
Benzo(b)fluoranthene	3.56
Benzo(k)fluoranthene	1.98
Dibenzo(a,h)anthracene	0.42
Fluoranthene	10.7
Indeno(1,2,3-cd)pyrene	1.40
Phenanthrene	10.4

BH23-1	
0.3 - 1.2 m	06/26/2023
Acenaphthylene	0.47
Anthracene	1.69
Benzo(a)anthracene	2.67
Benzo(a)pyrene	2.69
Benzo(b)fluoranthene	2.81
Benzo(k)fluoranthene	1.50
Dibenzo(a,h)anthracene	0.46
Fluoranthene	6.64
Indeno(1,2,3-cd)pyrene	1.58



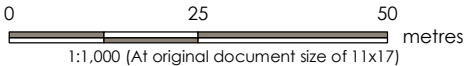
Legend

- Approximate Borehole Location
- Approximate Monitoring Well Location (Presumed Destroyed)
- Approximate Site Boundary
- Soil Parameters Tested Met Regulatory Standards (2011 MECP Table 7 SCS)
- One or More Soil Parameters Exceed Regulatory Standards (2011 MECP Table 7 SCS)

IW - Injection Well
BH - Borehole
MW - Monitoring Well

Sample ID	Depth (m BGS)/Date
BH23-8	
0.1 - 1.0 m	06/26/2023
Benzo(a)anthracene	0.60
Parameter	Parameters Exceed Table 7 SCS

MECP 2011 Table 7 SCS		
Parameter	Value	Units
Acenaphthylene	0.15	µg/g
Anthracene	0.67	µg/g
Benzo(a)anthracene	0.5	µg/g
Benzo(a)pyrene	0.3	µg/g
Benzo(b)fluoranthene	0.78	µg/g
Benzo(g,h,i)perylene	6.6	µg/g
Benzo(k)fluoranthene	0.78	µg/g
Dibenzo(a,h)anthracene	0.1	µg/g
Fluoranthene	0.69	µg/g
Indeno(1,2,3-cd)pyrene	0.38	µg/g
Phenanthrene	6.2	µg/g



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 - m BGS - metres below ground surface
 - PAHs - Polycyclic Aromatic hydrocarbons

Project Location
Ottawa, ON

122170424 REV0
Prepared by CL on 2024-02-02

Client/Project
Taggart Realty Management
1000147699 Ontario Inc. Proposed Hintonburg
Redevelopment

Figure No.

4c

Title

Summary of Summary of Soil Analytical
Results for PAHs

\\C0218.sphsa\work_group\2012\active\122170424\03_data\gis\mxd\Remediation\report_figures\Phase_1\122170424_PhilISA_Fig04d_4d_SO_Analytical_REV0.mxd Revised: 2024-02-02 By: dee



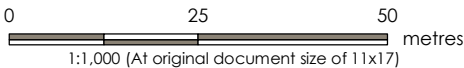
Legend

- Approximate Borehole Location
- Approximate Monitoring Well Location (Presumed Destroyed)
- Approximate Site Boundary
- Soil Parameters Tested Met Regulatory Standards (2011 MECP Table 7 SCS)
- One or More Soil Parameters Exceed Regulatory Standards (2011 MECP Table 7 SCS)

IW - Injection Well
BH - Borehole
MW - Monitoring Well

Sample ID	Depth (m BGS)/Date
BH23-7	0.1 - 0.8 m 06/26/2023
Cadmium [T]	2.0
Parameter	Parameters Exceed Table 7 SCS

MECP 2011 Table 7 SCS		
Parameter	Value	Units
Cadmium	12	µg/g
Lead	120	µg/g
Thallium	1	µg/g



- Notes
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 3. Orthoimagery © City of Ottawa, 2024. Imagery Date, 2022.
 4. m BGS - metres below ground surface

Project Location
Ottawa, ON

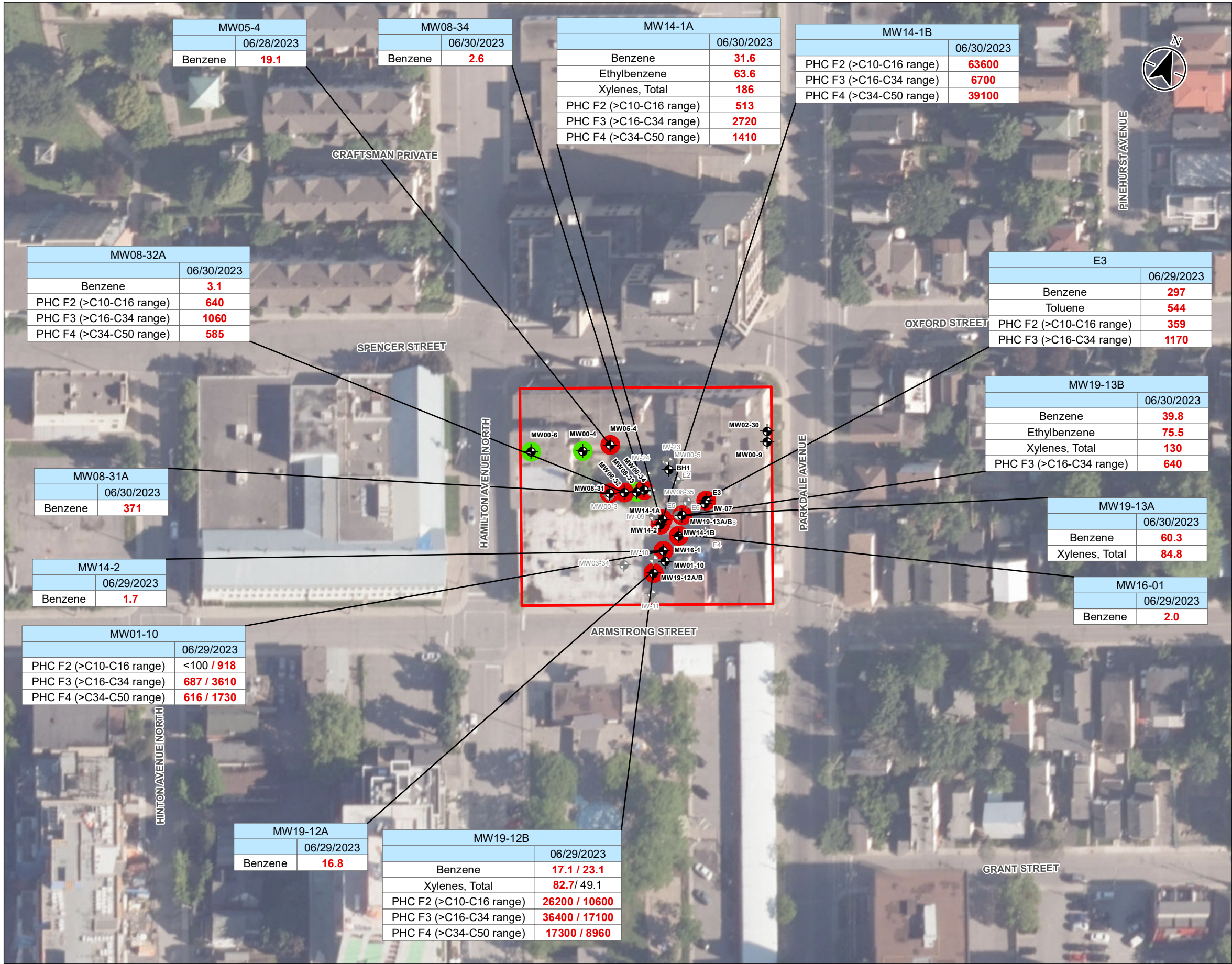
122170424 REV0
Prepared by CL on 2024-02-02

Client/Project
Taggart Realty Management
1000147699 Ontario Inc. Proposed Hintonburg
Redevelopment

Figure No.
4d

Title
**Summary of Summary of Soil Analytical
Results for Metals**

\\Ca0218.sphsa\work_group\01221\active\122170424\03_data\gls\gls\mxd\Remediation\report_figures\Phase_1\122170424_Phase1A_Fig05a_5d_GW_Analytical_REV0.mxd Reviewed: 2024-02-02 By: clee

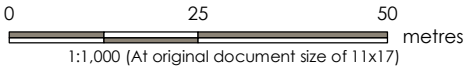


- Legend
- Approximate Monitoring Well Location
 - Approximate Monitoring Well Location (Presumed Destroyed)
 - Approximate Site Boundary
 - Groundwater Parameters Tested Met Regulatory Standards (2011 MECP Table 7 SCS)
 - One or More Groundwater Parameters Exceed Regulatory Standards (2011 MECP Table 7 SCS)

IW - Injection Well
BH - Borehole
MW - Monitoring Well

Sample ID	Date
MW01-10	06/29/2023
PHC F2 (>C10-C16 range)	<100 / 918
Parameter	Parameters Exceed Table 7 SCS

MECP 2011 Table 7 SCS		
Parameter	Value	Units
Benzene	300	µg/L
Toluene	300	µg/L
Ethylbenzene	300	µg/L
Xylenes, Total	300	µg/L
PHC F2 (>C10-C16 range)	300	µg/L
PHC F3 (>C16-C34 range)	300	µg/L
PHC F4 (>C34-C50 range)	300	µg/L



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 - m BGS - metres below ground surface
 - PHCs - Petroleum Hydrocarbons
 - BTEX - Benzene, Toluene, Ethylbenzene, Xylenes.

Project Location
Ottawa, ON

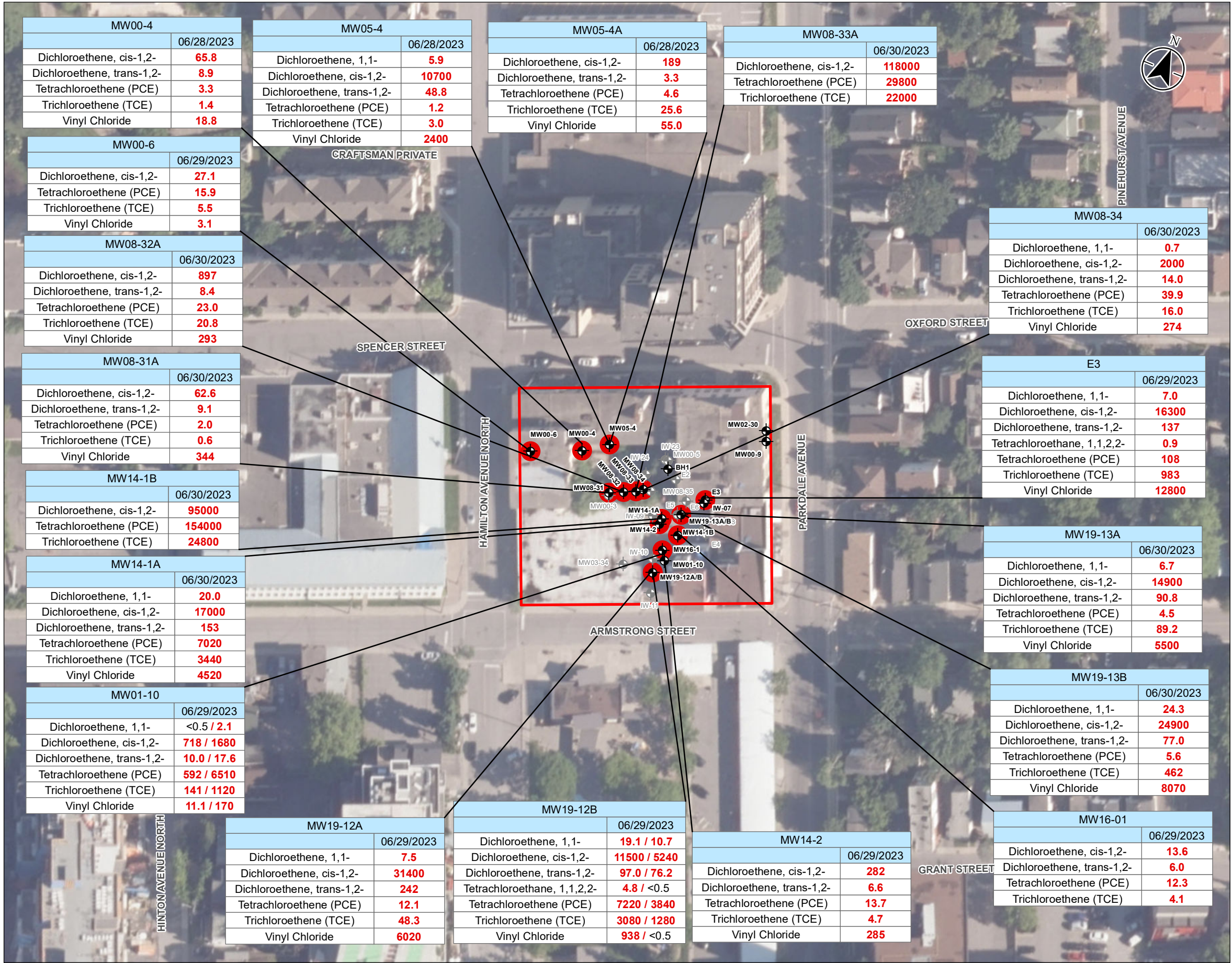
122170424 REV0
Prepared by CL on 2024-02-02

Client/Project
Taggart Realty Management
1000147699 Ontario Inc. Proposed Hintonburg
Redevelopment

Figure No.
5a

Title
**Summary of Summary of Groundwater
Analytical Results for PHCs and BTEX**

\\Ca0218.sphsa\work_group\20121\active\122170424\03_data\gls\gls\remediation\report_figures\Phase_1\122170424_Phase1A_Fig05a_5d_GW_Analytical_REV0.mxd Revised: 2024-02-02 By: clee



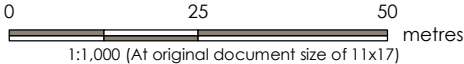
Legend

- Approximate Monitoring Well Location
- Approximate Monitoring Well Location (Presumed Destroyed)
- Approximate Site Boundary
- One or More Groundwater Parameters Exceed Regulatory Standards (2011 MECP Table 7 SCS)

IW - Injection Well
BH - Borehole
MW - Monitoring Well

Sample ID	Date
MW19-12B	06/29/2023
Dichloroethene, 1,1-	19.1 / 10.7
Parameter	Parameters Exceed Table 7 SCS

MECP 2011 Table 7 SCS		
Parameter	Value	Units
Dichloroethene, 1,1-	0.5	µg/L
Dichloroethene, cis-1,2-	1.6	µg/L
Dichloroethene, trans-1,2-	1.6	µg/L
Tetrachloroethane, 1,1,2,2-	0.5	µg/L
Tetrachloroethene(PCE)	0.5	µg/L
Trichloroethene(TCE)	0.5	µg/L
Vinyl Chloride	0.5	µg/L



- Notes
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 3. Orthoimagery © City of Ottawa, 2024. Imagery Date, 2022.
 4. m BGS - metres below ground surface
 7. VOCs - Volatile Organic Compounds

Project Location 122170424 REV0
Ottawa, ON Prepared by CL on 2024-02-02

Client/Project
Taggart Realty Management
1000147699 Ontario Inc. Proposed Hintonburg
Redevelopment

Figure No.
5b

Title
**Summary of Summary of Groundwater
Analytical Results for VOCs**

\\Ca0218.sphsa\work_group\01221\active\122170424\03_data\figs\mxd\Remediation\report_figures\Phase_1\122170424_Phase1_Fig05a_5d_GW_Analytical_REVc.mxd Revised: 2024-02-02 By: clec





Stantec

Legend

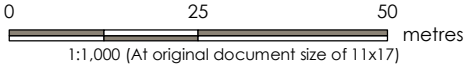
 Approximate Monitoring Well Location

 Approximate Monitoring Well Location (Presumed Destroyed)

 Approximate Site Boundary

 Groundwater Parameters Tested Met Regulatory Standards (2011 MECP Table 7 SCS)

IW - Injection Well
BH - Borehole
MW - Monitoring Well



- Notes
1. Coordinate System: NAD 1983 UTM Zone 18N

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3. Orthoimagery © City of Ottawa, 2024. Imagery Date, 2022.

4. m BGS - metres below ground surface

Project Location

Ottawa, ON

122170424 REVc

Prepared by CL on 2024-02-02

Client/Project

Taggart Realty Management

1000147699 Ontario Inc. Proposed Hintonburg

Redevelopment

Figure No.

5d

Title

Summary of Summary of Groundwater

Analytical Results for Metals

\\Ca0218.sphsa\work_group\2012\active\122170424\03_data\gls_cad\gls\remediation\report_figures\Phase_1\122170424_PhilISA_Fig06a_4b_SV_Analytical_REVA.mxd Revised: 2024-01-31 By: Clee





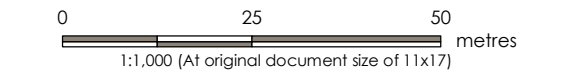
Stantec

Legend

Approximate Site Boundary

Approximate Vapour Probe Location

Vapour Probe Parameters Tested Met Regulatory Standards (2011 MECP Table 7 SCS)



- Notes
1. Coordinate System: NAD 1983 UTM Zone 18N

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3. Orthoimagery © City of Ottawa, 2024. Imagery Date, 2022.

4. HBIAC Stantec - Golder/WSP HBIACs: Site specific criteria based on industrial HBIAC/a, where alpha is 0.004. Soil Vapour Criteria derived from HBIAC - Commercial Land use.

Project Location

Ottawa, ON

122170424 REVA

Prepared by CL on 2024-01-31

Client/Project

Taggart Realty Management

1000147699 Ontario Inc. Proposed Hintonburg

Redevelopment

Figure No.

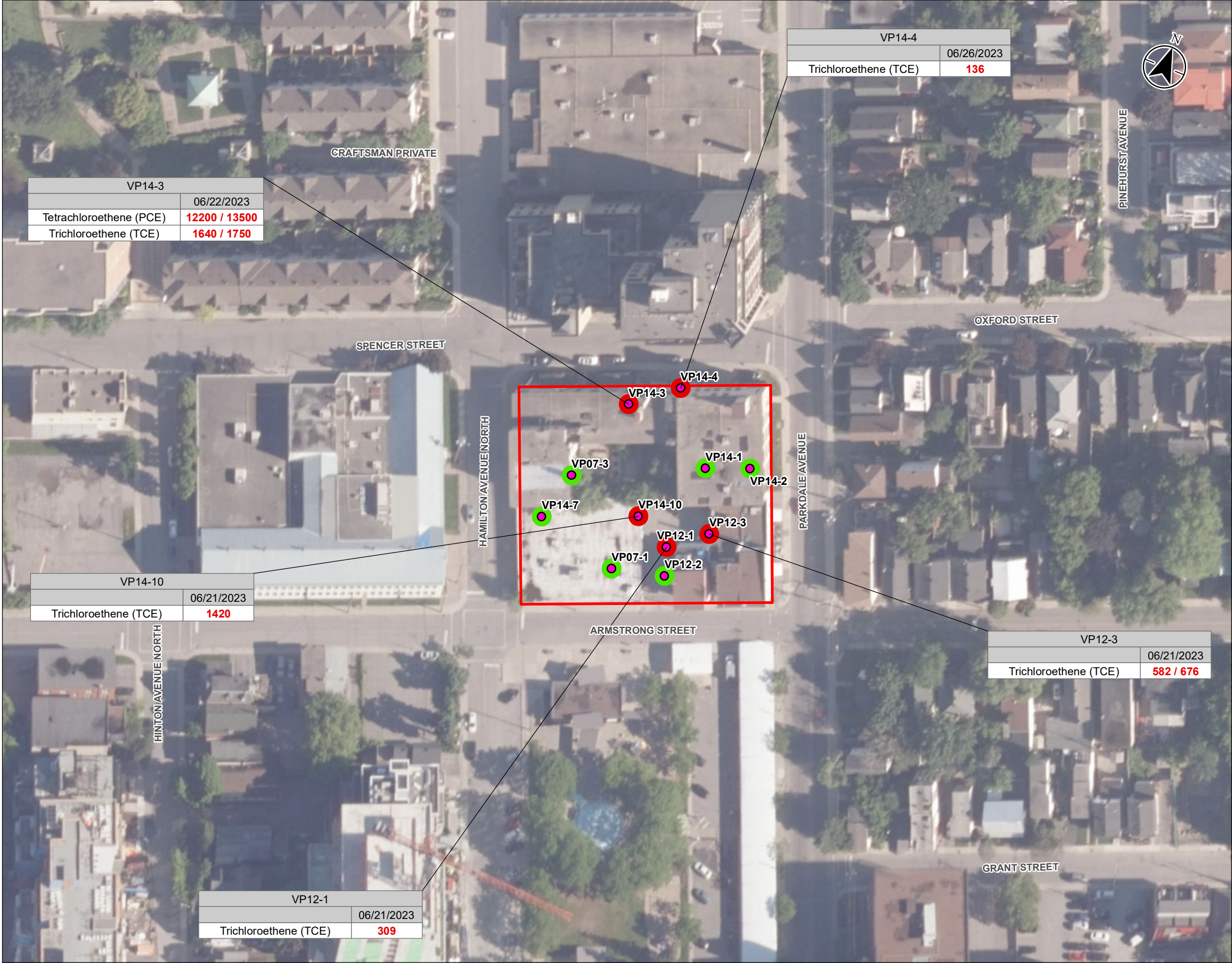
6a

Title

Summary of Summary of Soil Vapour

Analytical Results for PHCs and BTEX

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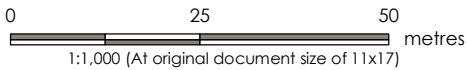


Legend

- Approximate Site Boundary
- Approximate Vapour Probe Location
- Vapour Probe Parameters Tested Met Regulatory Standards (2011 MECP Table 7 SCS)
- One or More Vapour Probe Parameters Exceed Regulatory Standards (2011 MECP Table 7 SCS)

VP14-3	
	06/21/2023
Tetrachloroethene (PCE)	12200 / 13500

HIBIAC Stantec		
Parameter	Value	Units
Tetrachloroethene (PCE)	3,438	µg/m3
Trichloroethene (TCE)	100/218	µg/m3



- Notes**
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 4. HIBIAC Stantec - Golder/WSP HIBIACs: Site specific criteria based on industrial HIBIAC/a, where alpha is 0.004. Soil Vapour Criteria derived from HIBIAC - Commercial Land use.

Project Location

Ottawa, ON

122170424 REVA

Prepared by CL on 2024-01-31

Client/Project

Taggart Realty Management

1000147699 Ontario Inc. Proposed Hintonburg

Redevelopment

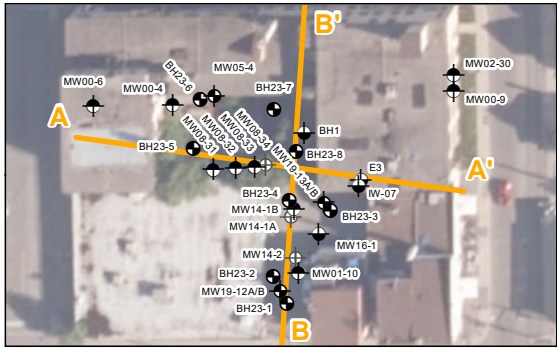
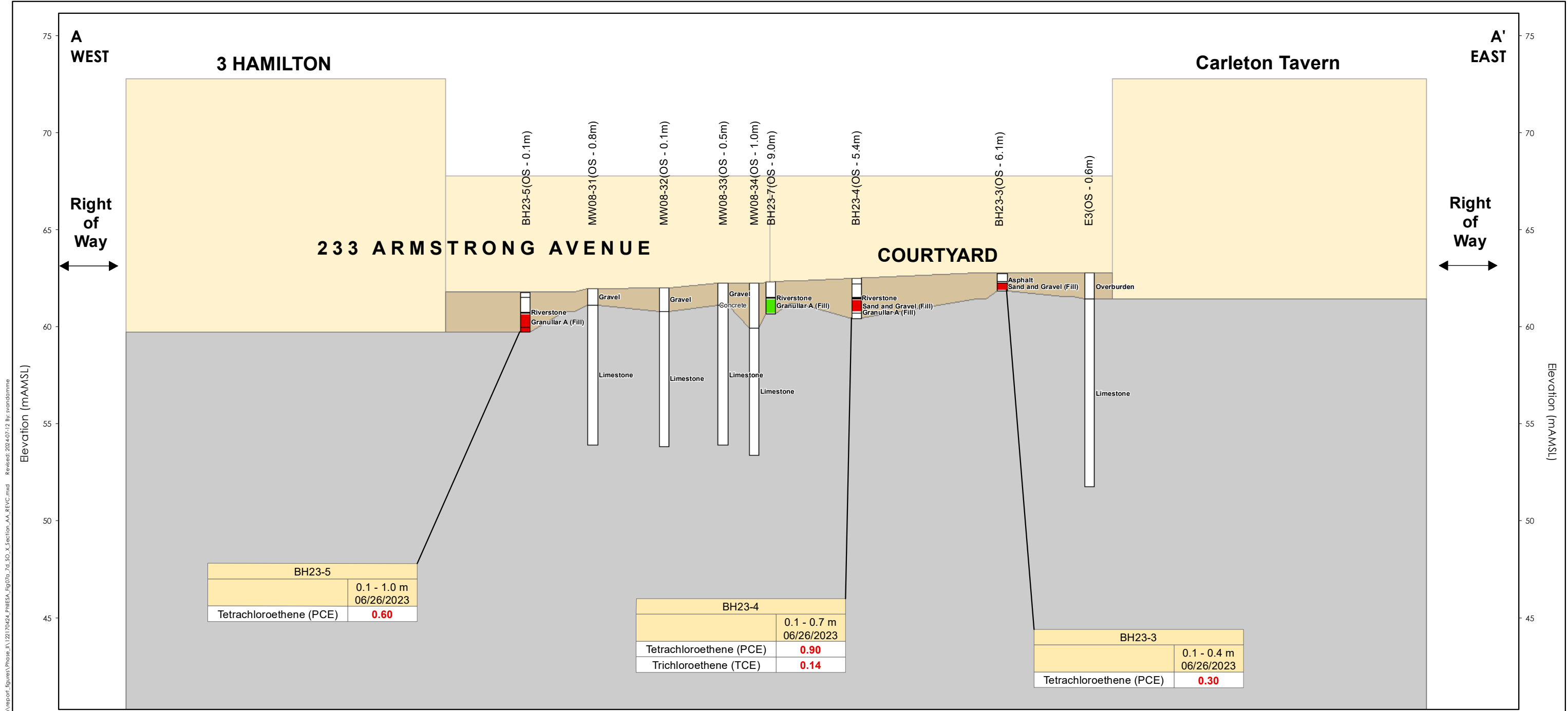
Figure No.

6b

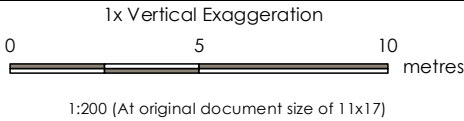
Title

Summary of Summary of Soil Vapour

Analytical Results for VOCs



- Legend
- Building
 - Overburden
 - Bedrock
 - Soil Parameters Tested Met Regulatory Standards (2011 MECP Table 7 SCS)
 - One or More Soil Parameters Exceed Regulatory Standards (2011 MECP Table 7 SCS)



Project Location
Ottawa, ON

1221 70424 REV C
Prepared by svandamme on 2024-07-12

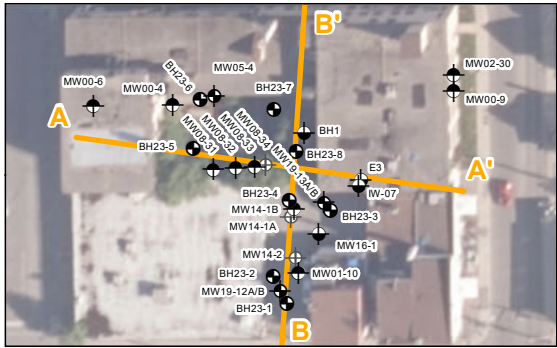
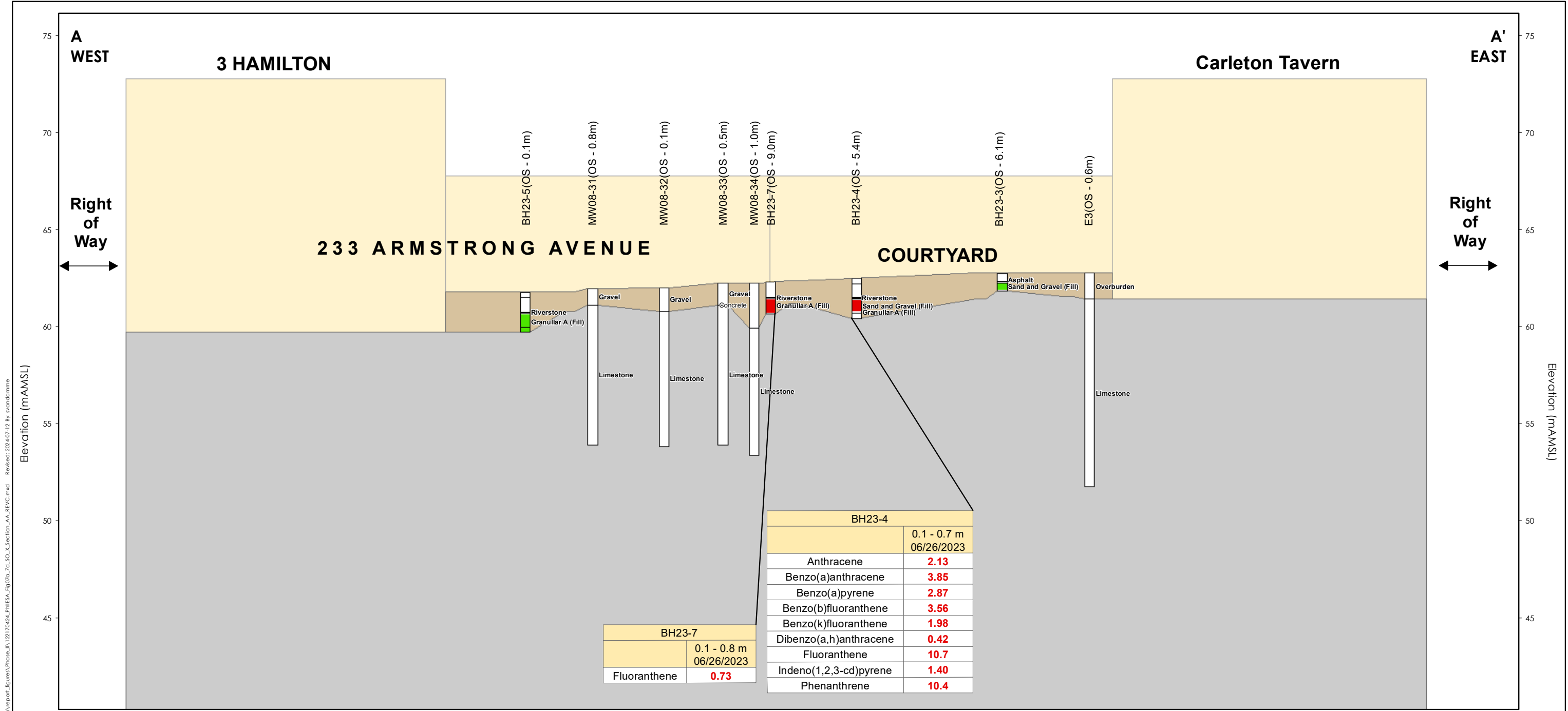
Client/Project
Taggart Realty Management
1000147699 Ontario Inc. Proposed Hintonburg
Redevelopment

Figure No.
7b

Title
**Cross Section A-A': Soil Analytical Results
for VOCs**

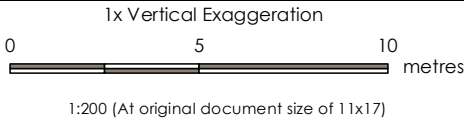
Sample ID	Depth (m BGS)/Date
BH23-2	0.3 - 1.5 m 06/26/2023
Tetrachloroethene (PCE)	3.94 / 3.92
Parameter	Parameters Exceed Table 7 SCS

MECP 2011 Table 7 SCS		
Parameter	Value	Units
Tetrachloroethene(PCE)	0.28	µg/g
Trichloroethene(TCE)	0.061	µg/g



- Legend
- Building
 - Overburden
 - Bedrock
 - Soil Parameters Tested Met Regulatory Standards (2011 MECP Table 7 SCS)
 - One or More Soil Parameters Exceed Regulatory Standards (2011 MECP Table 7 SCS)

Sample ID	Depth (m BGS)/Date
BH23-8	0.1 - 1.0 m 06/26/2023
Benzo(a)anthracene	0.60
Parameter	Parameters Exceed Table 7 SCS



MECP 2011 Table 7 SCS		
Parameter	Value	Units
Acenaphthylene	0.15	µg/g
Anthracene	0.67	µg/g
Benzo(a)anthracene	0.5	µg/g
Benzo(a)pyrene	0.3	µg/g
Benzo(b)fluoranthene	0.78	µg/g
Benzo(g,h,i)perylene	6.6	µg/g
Benzo(k)fluoranthene	0.78	µg/g
Dibenzo(a,h)anthracene	0.1	µg/g
Fluoranthene	0.69	µg/g
Indeno(1,2,3-cd)pyrene	0.38	µg/g
Phenanthrene	6.2	µg/g



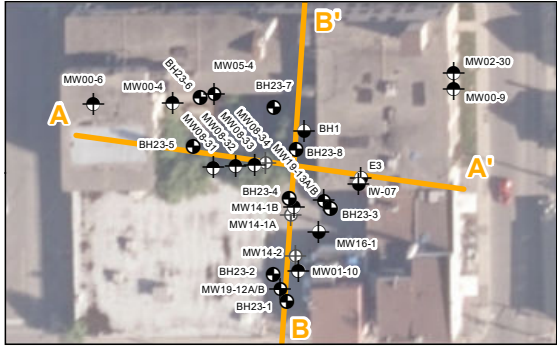
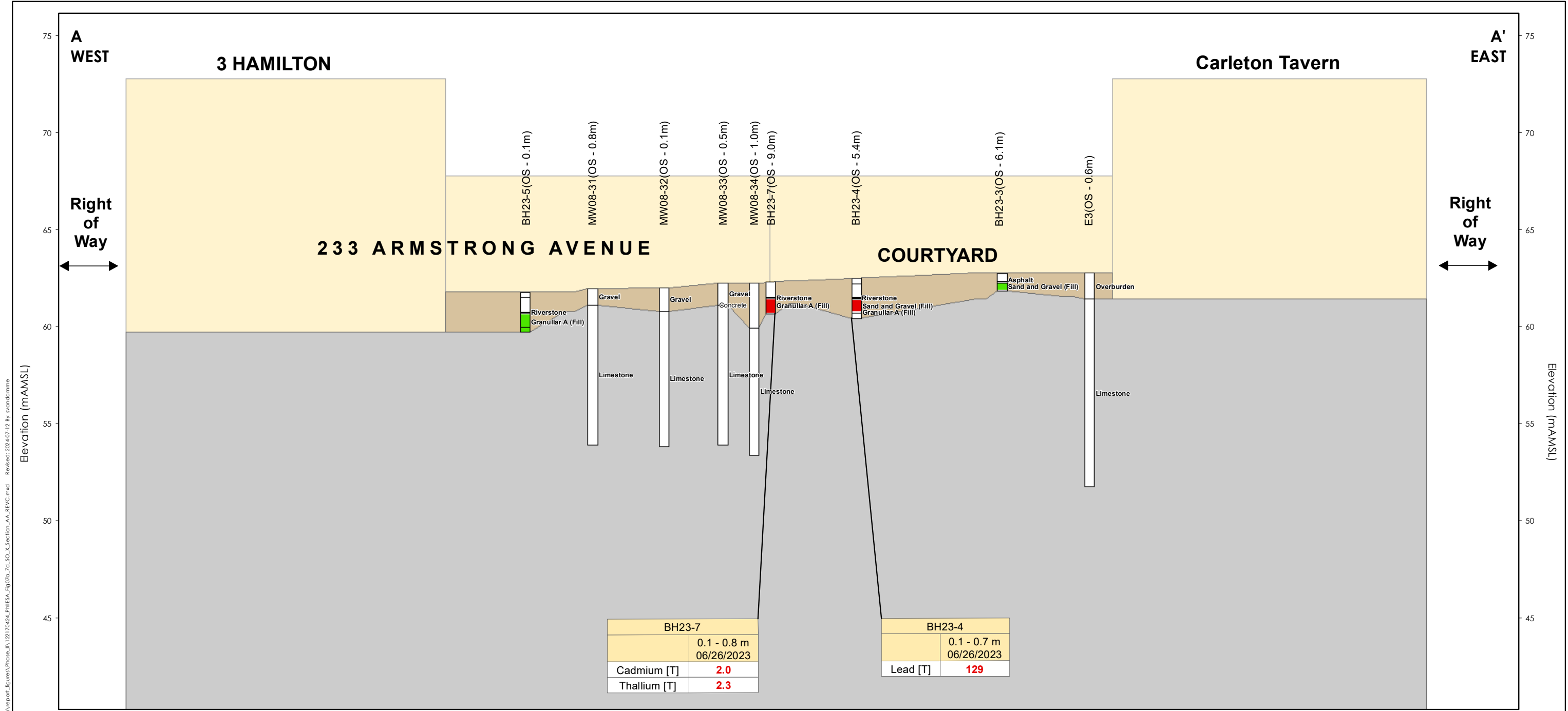
Project Location
Ottawa, ON

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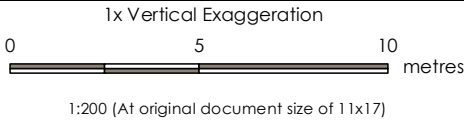
Figure No.
7c

Title
**Cross Section A-A': Soil Analytical Results
for PAHs**

1221 70424 REV C
Prepared by svandamme on 2024-07-12



- Legend
- Building
 - Overburden
 - Bedrock
 - Soil Parameters Tested Met Regulatory Standards (2011 MECP Table 7 SCS)
 - One or More Soil Parameters Exceed Regulatory Standards (2011 MECP Table 7 SCS)



Project Location
Ottawa, ON

1221 70424 REV C
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Figure No.
7d

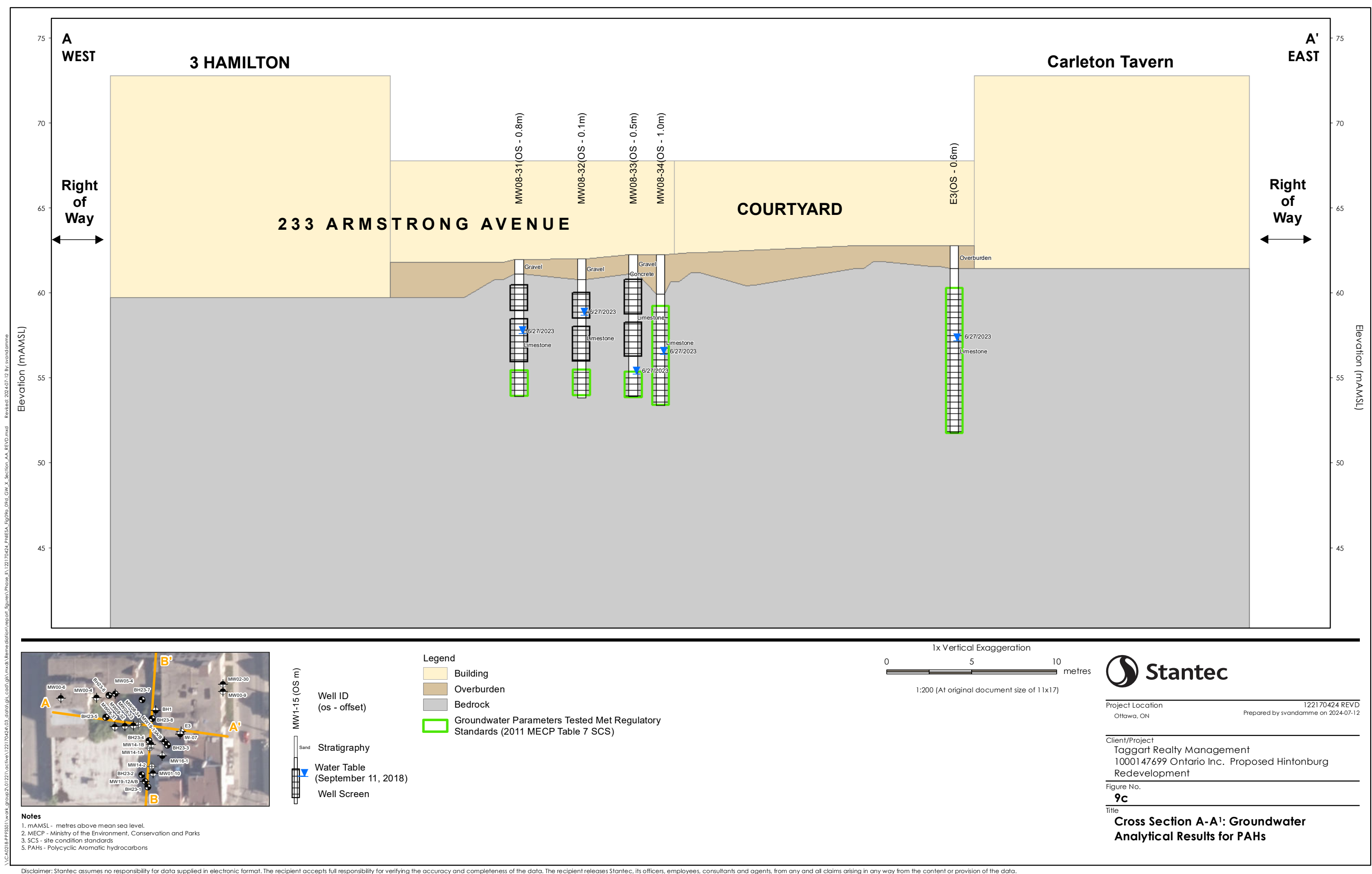
Title
Cross Section A-A': Soil Analytical Results
for Metals

Sample ID	Depth (m BGS)/Date
BH23-7	0.1 - 0.8 m 06/26/2023
Cadmium [T]	2.0

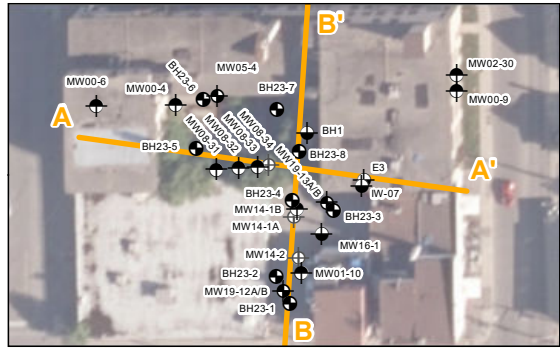
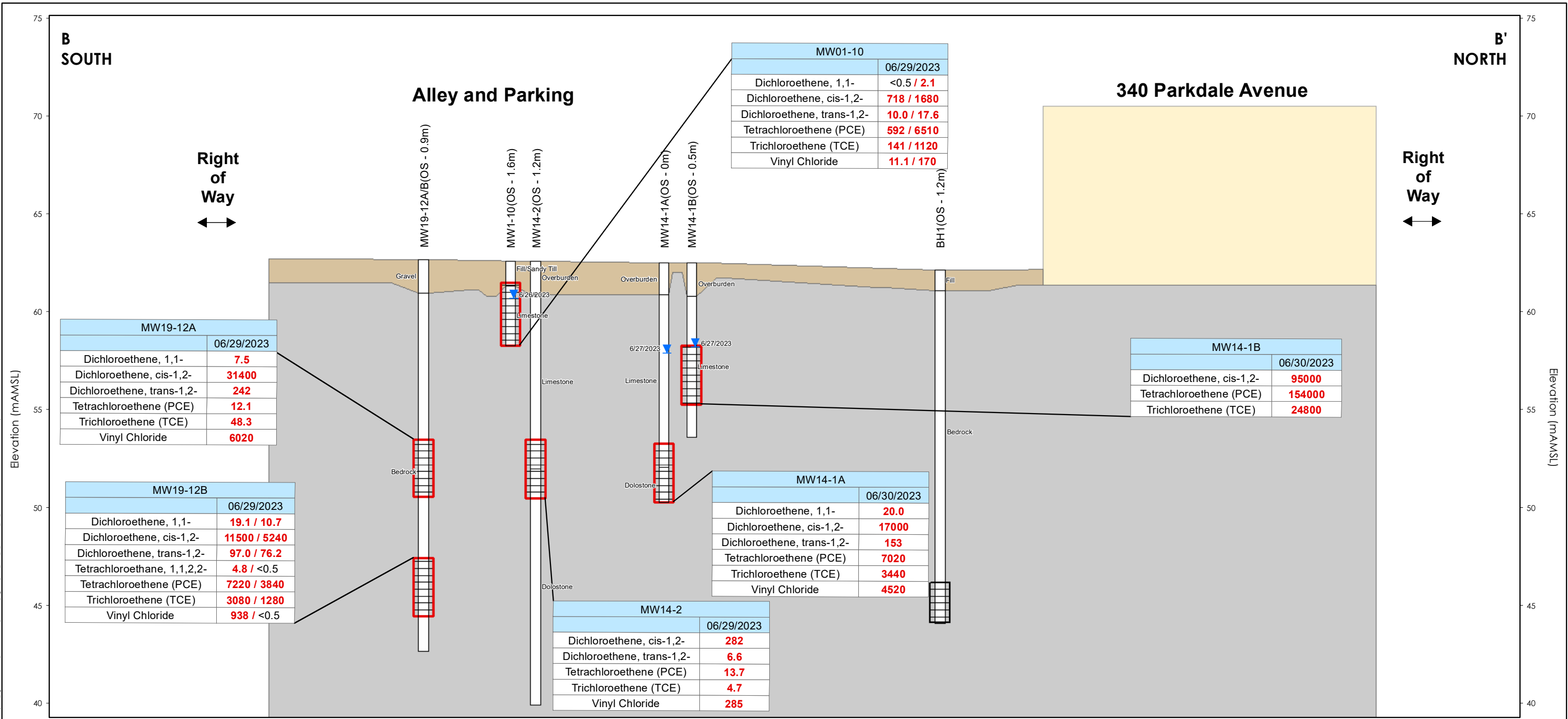
Parameter

Parameters Exceed Table 7 SCS

MECP 2011 Table 7 SCS		
Parameter	Value	Units
Cadmium	12	µg/g
Lead	120	µg/g
Thallium	1	µg/g



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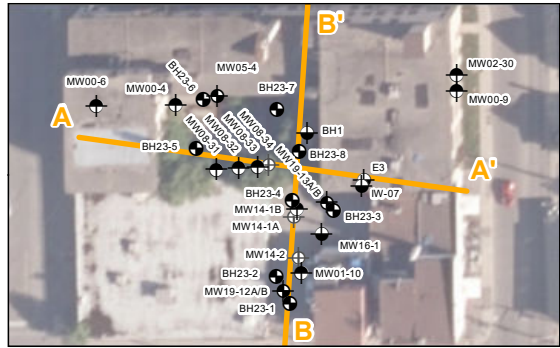
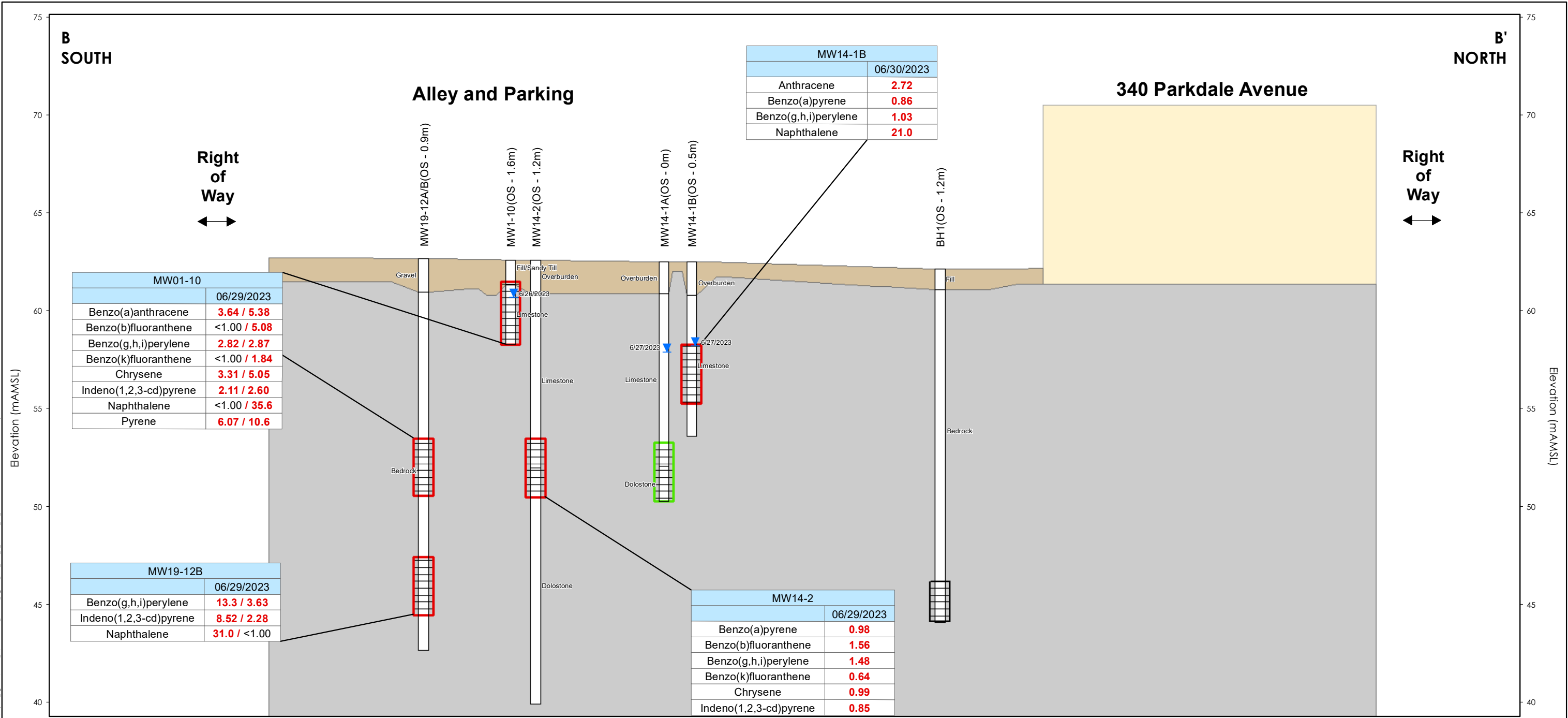


Notes

- mAMSL - metres above mean sea level.
- MECP - Ministry of the Environment, Conservation and Parks
- SCS - site condition standards
- Table 7 - All Types of Property Use - Coarse Textured Soils
- VOCs - Volatile Organic Compounds

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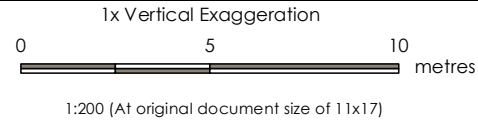
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Notes

1. mAMSL - metres above mean sea level.
2. MECP - Ministry of the Environment, Conservation and Parks
3. SCS - site condition standards
4. Table 7 - All Types of Property Use - Coarse Textured Soils
7. PAHs - Polycyclic Aromatic hydrocarbons

Sample ID	Date
MW19-12B	06/29/2023
Benzo(g,h,i)perylene	13.3 / 3.63
Parameter	Parameters Exceed Table 7 SCS



MECP 2011 Table 7 SCS		
Parameter	Value	Units
Anthracene	1	µg/L
Benzo(a)anthracene	1.8	µg/L
Benzo(a)pyrene	0.81	µg/L
Benzo(b)fluoranthene	0.75	µg/L
Benzo(g,h,i)perylene	0.2	µg/L
Benzo(k)fluoranthene	0.4	µg/L
Chrysene	0.7	µg/L
Indeno(1,2,3-cd)pyrene	0.2	µg/L
Naphthalene	7	µg/L
Pyrene	5.7	µg/L



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Ottawa, ON

1221 70424 REV0
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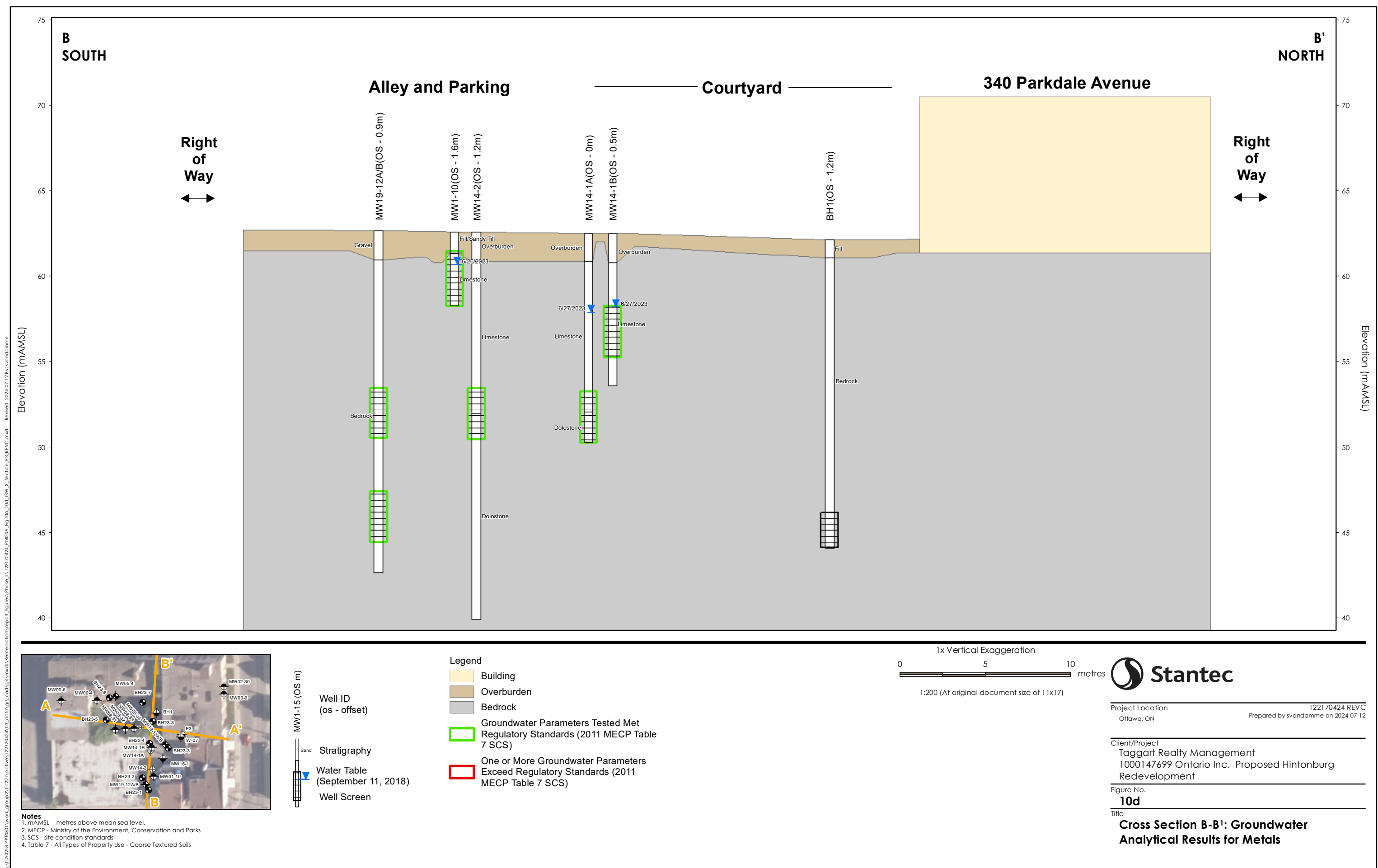
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Figure No.

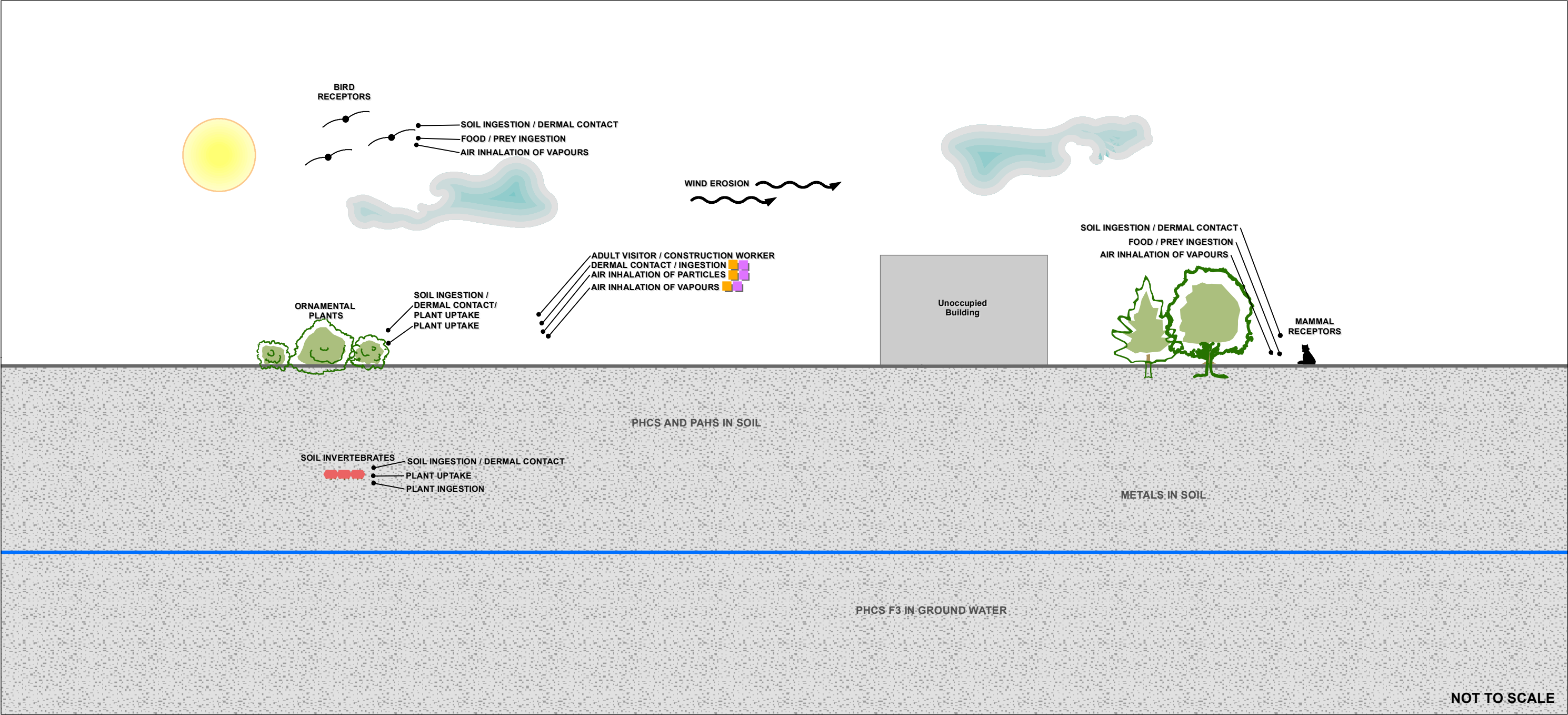
10c

Title

**Cross Section B-B': Groundwater
Analytical Results for PAHs**



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Legend

- Adult Visitor
- Construction Worker
- Groundwater Level



Project Location
Ottawa, ON

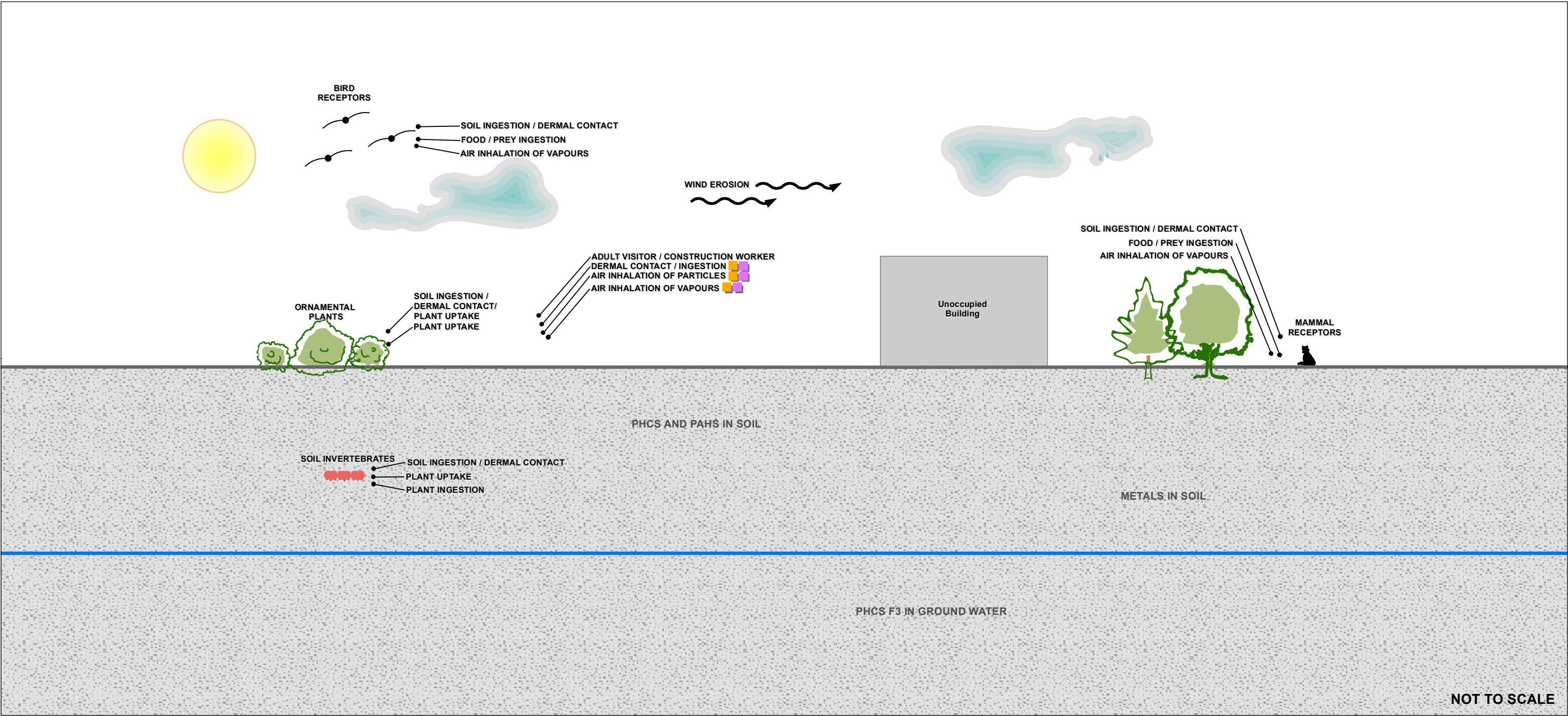
122170424
Prepared by CL on 2024-02-01

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Figure No.
11

Title
**Human Health CSM without Risk
Management Measures**

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Legend

- Adult Visitor
- Construction Worker
- Groundwater Level



Project Location
Ottawa, ON

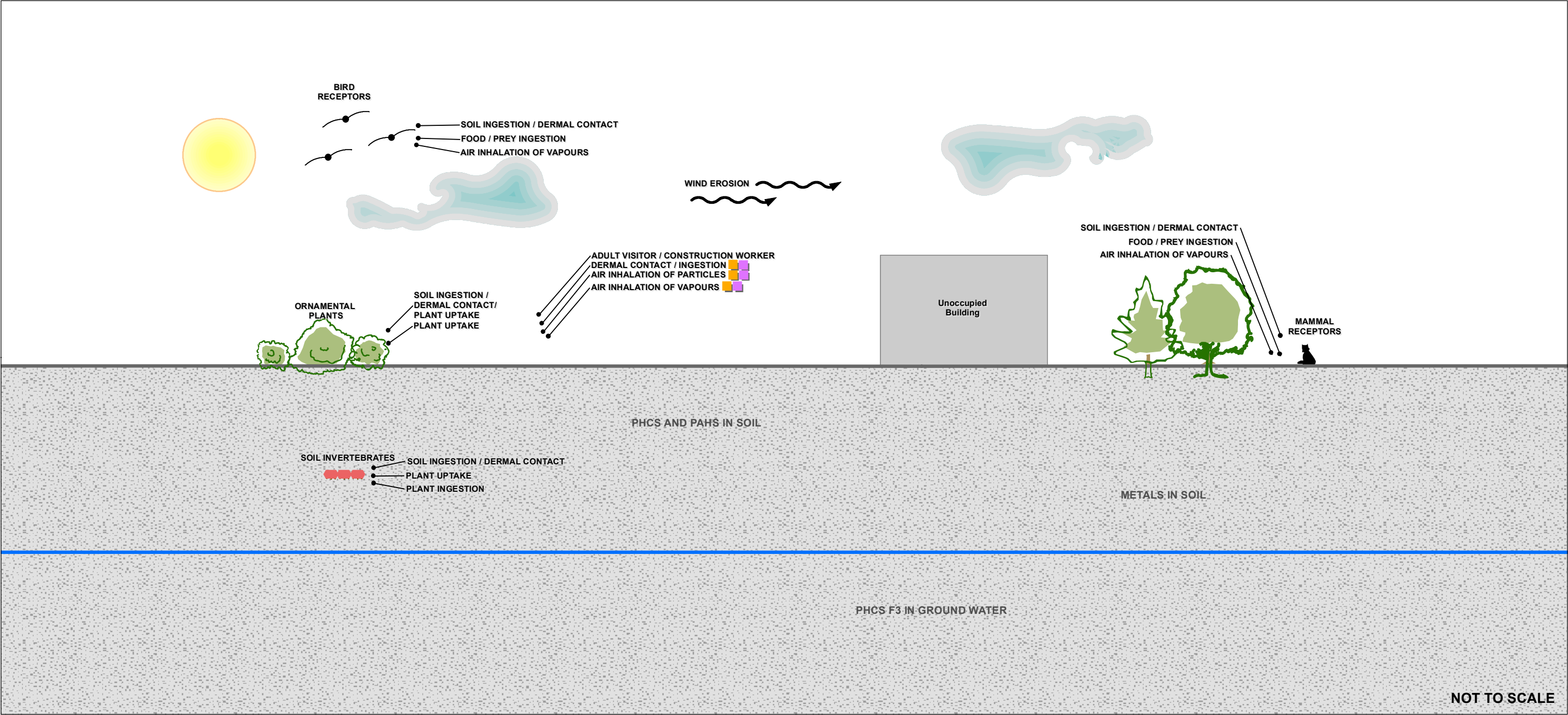
122170424
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Figure No.
12

Title
**Human Health CSM with Risk Management
Considered**

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Legend

- Adult Visitor
- Construction Worker
- Groundwater Level



Project Location
Ottawa, ON

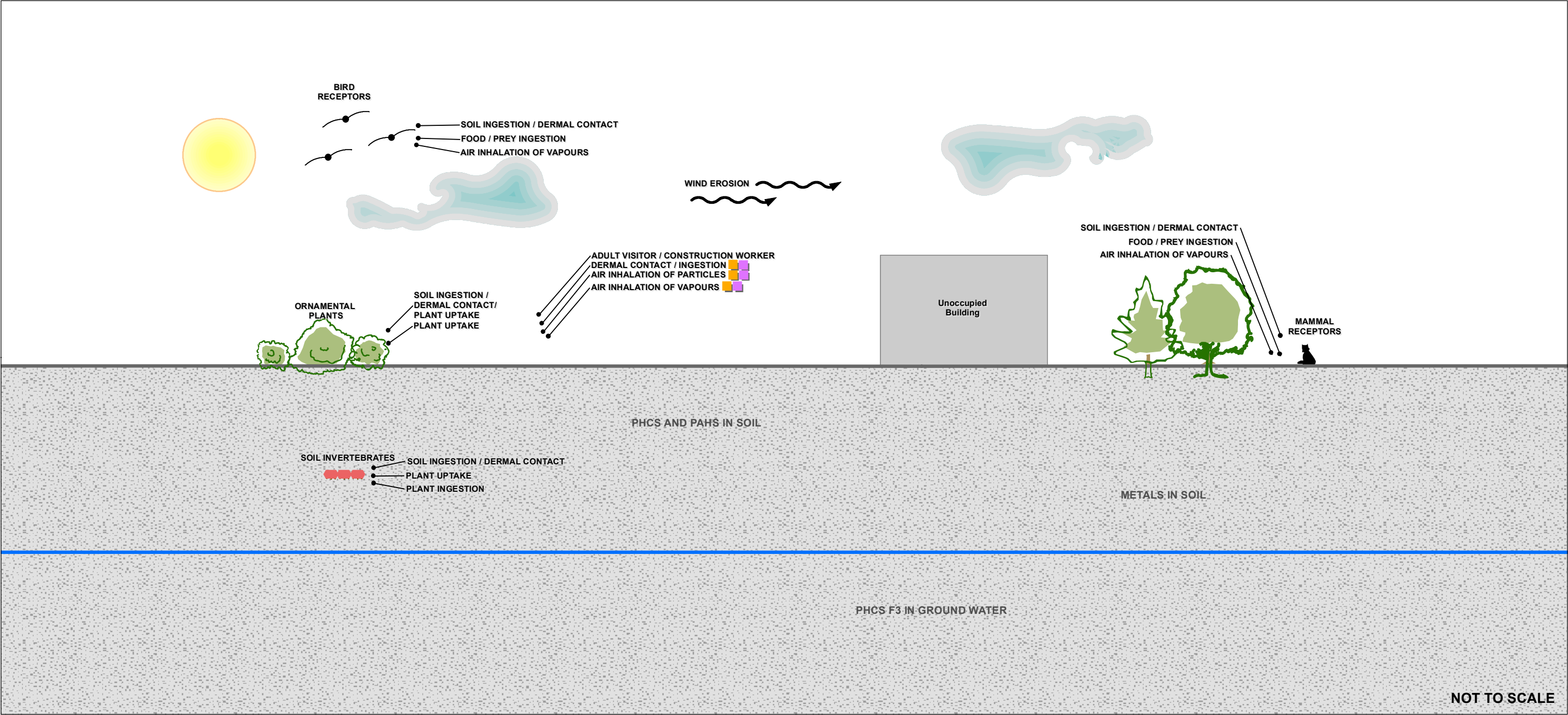
122170424
Prepared by CL on 2024-02-01

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Redevelopment

Figure No.
13

Title
**Ecological CSM without Risk Management
Measures**

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Legend

- Adult Visitor
- Construction Worker
- Groundwater Level



Project Location	122170424
Ottawa, ON	Prepared by CL on 2024-02-01
Client/Project	
Taggart Realty Management	
1000147699 Ontario Inc. Proposed Hintonburg	
Redevelopment	
Figure No.	
14	
Title	
Ecological CSM with Risk Management	
Measures	

TABLES

Table I
Summary of Groundwater Monitoring Results
Proposed Hintonburg Development

Monitoring Location	Monitoring Date (dd-mmm-yy)	Depth Classification	Screened Interval (m BGS)	Ground Surface Elevation (m ASL)	Top of Pipe Elevation (m ASL)	Water Level Elevation (m ASL)	Water Level Depth (m BTOP)	Water Level Depth (m BGS)	Liquid-Phase Petroleum Hydrocarbon Apparent Thickness (mm)	Well Headspace Combustible Vapour Concentration (ppm _v)	Well Headspace Total Organic Vapour Concentrations (ppm _v)
BH1	26-Jun-23	Deep	16.4 - 17.9	NS	62.37	NC	Dry	Dry	NM	<5	<0.02
E3	26-Jun-23	Deep	2.5 - 11.02	NS	62.66	57.24	5.42	NC	NM	720	230
MW00-4	26-Jun-23	Shallow	1.4 - 2.9	62.02	62.12	60.88	1.24	1.14	NM	<5	<0.02
MW00-6	28-Jun-23	Shallow	1.67 - 3.17	62.13	61.92	60.36	1.56	1.77	NM	40	15
MW01-10	26-Jun-23	Shallow	1.1 - 4.29	62.59	62.51	60.75	1.76	1.84	NM	<5	<0.02
MW05-4	26-Jun-23	Shallow	4.6 - 6.04	62.03	62.09	58.09	4.00	3.94	NM	<5	<0.02
MW05-4A	26-Jun-23	Intermediate	6.2 - 9.1	62.05	62.11	56.55	5.56	5.5	NM	<5	<0.02
MW08-31A	30-Jun-23	Shallow	3.0 - 6.0	61.98	62.80	57.65	5.15	4.33	NM	<5	<0.02
MW08-32A	30-Jun-23	Shallow	4.0 - 6.0	62.03	62.99	58.75	4.24	3.28	NM	<5	<0.02
MW08-33A	30-Jun-23	Shallow	4.0 - 6.0	62.29	62.23	55.30	6.93	6.99	NM	<5	16
MW08-34	26-Jun-23	Intermediate	3.0 - 8.8	62.26	62.35	56.45	5.90	5.81	NM	<5	3
MW14-1A	27-Jun-23	Intermediate	9.2 - 12.2	62.58	62.49	58.04	4.45	4.54	NM	33 % LEL	39
MW14-1B	27-Jun-23	Shallow	4.2 - 7.2	62.57	62.49	58.33	4.16	4.24	NM	5	39
MW14-2	26-Jun-23	Intermediate	9.1 - 12.1	NS	NS	NC	3.27	NC	NM	12% LEL	57
MW16-01	26-Jun-23	Deep	19 - 22	62.67	62.59	54.47	8.12	8.2	NM	55	<0.02
MW19-12A	28-Jun-23	Deep	15.2 - 18.3	63.04	NS	NC	4.21	NC	NM	470	77
MW19-12B	28-Jun-23	Intermediate	9.1 - 12.2	63.04	NS	NC	4.19	NC	NM	<5	99
MW19-13A	27-Jun-23	Deep	15.2 - 18.3	NS	NS	NC	9.01	NC	NM	410	87
MW19-13B	27-Jun-23	Intermediate	8.6-11.6	NS	NS	NC	NM	NC	NM	16 % LEL	309

Notes:

- m AMSL Metres above mean sea level
- m BTOP Metres below top of pipe
- m BGS Metres below ground surface
- mm Millimetres
- ppm_v Parts per million by volume
- NS Not Surveyed
- NC Not Calculable
- NM Not Measured
- Screened Interval Unknown

Table II
Summary of Soil Analytical Results
Proposed Hintonburg Development

Sample Location			BH23-1			BH23-2			BH23-3	BH23-4	BH23-5	BH23-6	BH23-7	BH23-8
Sample Date			26-Jun-23	26-Jun-23		26-Jun-23	26-Jun-23		26-Jun-23	26-Jun-23	26-Jun-23	26-Jun-23	26-Jun-23	26-Jun-23
Sample ID			BH23-1	QC-01		BH23-2	QC-02		BH23-3	BH23-4	BH23-5	BH23-6	BH23-7	BH23-8
Sample Depth			0.3 - 1.2 m	0.3 - 1.2 m		0.3 - 1.5 m	0.3 - 1.5 m		0.1 - 0.4 m	0.1 - 0.7 m	0.1 - 1 m	0.1 - 0.7 m	0.1 - 0.8 m	0.1 - 1 m
Sampling Company			STANTEC	STANTEC		STANTEC	STANTEC		STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARACEL	PARACEL		PARACEL	PARACEL		PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL
Laboratory Work Order			2326112	2326112		2326112	2326112		2326112	2326112	2326112	2326112	2326112	2326112
Laboratory Sample ID			2326112-01	2326112-02	RPD (%)	2326112-04	2326112-03	RPD (%)	2326112-05	2326112-06	2326112-07	2326112-08	2326112-09	2326112-10
Sample Type	Units	Ontario SCS		Field Duplicate			Field Duplicate							
General Chemistry														
Cyanide (Free)	µg/g	0.051 ^A	<0.03	-	-	<0.03	<0.03	nc	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Electrical Conductivity, Lab	µS/cm	700 ^A	994 ^A	-	-	338	300	12%	897 ^A	999 ^A	138	120	177	134
Fraction of Organic Carbon Rep.#1	g/g	n/v	0.046 CA	0.048 CA	4%	-	-	-	-	-	-	-	0.077 CA	0.067 CA
Fraction of Organic Carbon Rep.#2	g/g	n/v	0.049 CA	0.053 CA	2%	-	-	-	-	-	-	-	0.075 CA	0.063 CA
Fraction of Organic Carbon Rep.#3	g/g	n/v	0.049 CA	0.050 CA	8%	-	-	-	-	-	-	-	0.078 CA	0.069 CA
pH, lab	S.U.	n/v	7.49	-	-	7.86	7.62	3%	7.73	7.69	7.93	7.83	7.96	7.87
Sodium Adsorption Ratio (SAR)	none	5 ^A	1.71	-	-	0.22	0.25	13%	1.04	3.27	0.10	0.09	0.07	0.08
Physical Properties														
Percent Solids	%wt	n/v	85.9	-	-	94.6	94.4	0%	94.0	92.5	97.1	96.8	94.6	95.7
Sieve - #200 (<0.075mm)	%	n/v	36.6	-	-	-	-	-	-	-	-	22.2	27.7	28.8
Sieve - #200 (>0.075mm)	%	n/v	63.4	-	-	-	-	-	-	-	-	77.8	72.3	71.2
Grain Size	%	n/v	Coarse	-	-	-	-	-	-	-	-	Coarse	Coarse	Coarse
BTEX and Petroleum Hydrocarbons														
Benzene	µg/g	0.21 ^A	<0.02	-	-	<0.02	<0.02	nc	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Toluene	µg/g	2.3 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	µg/g	2 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene, m & p-	µg/g	s1 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylene, o-	µg/g	s1 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Xylenes, Total	µg/g	3.1s1 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
PHC F1 (C6-C10 range) minus BTEX	µg/g	55s7 ^A	<7	-	-	<7	<7	nc	<7	<7	<7	<7	<7	<7
PHC F2 (>C10-C16 range)	µg/g	98s15 ^A	72	-	-	33	<4	nc	<4	<4	<4	<4	<4	12
PHC F3 (>C16-C34 range)	µg/g	300s8 ^A	1,020 OD ^A	-	-	163	61	91%	85	116 OD	149	188	64	62
PHC F4 (>C34-C50 range)	µg/g	2,800s10 ^A	846 BX	-	-	652 BX	356 BX	59%	220 BX	177 BX	488 BX	604 BX	159 BX	130 BX
PHC F4 (>C34) Gravimetric	µg/g	2,800s10 ^A	594	-	-	254	402	45%	341	476	443	1,110	180	178
Metals														
Antimony	µg/g	7.5 ^A	3.7	-	-	<1.0	<1.0	nc	<1.0	2.8	<1.0	<1.0	2.7	<1.0
Arsenic	µg/g	18 ^A	6.0	-	-	4.3	4.4	nc	4.4	7.6	2.4	2.7	4.4	3.1
Barium	µg/g	390 ^A	172	-	-	91.3	101	10%	124	222	179	179	144	130
Beryllium	µg/g	4 ^A	0.6	-	-	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	1.8	<0.5
Boron	µg/g	120s16 ^A	15.7	-	-	8.8	11.2	nc	10.6	22.1	13.2	16.3	16.3	14.9
Cadmium	µg/g	1.2 ^A	<0.5	-	-	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	2.0 ^A	<0.5
Chromium	µg/g	160 ^A	20.6	-	-	13.4	15.8	nc	14.8	18.2	11.5	16.5	17.1	18.2
Cobalt	µg/g	22 ^A	7.9	-	-	6.9	7.9	14%	7.2	8.8	5.1	6.3	7.7	6.0
Copper	µg/g	140 ^A	68.0	-	-	13.6	16.3	nc	19.1	38.5	19.0	16.6	22.6	88.1
Lead	µg/g	120 ^A	204 ^A	-	-	14.7	23.2	45%	61.5	129 ^A	12.9	24.0	21.5	23.5
Molybdenum	µg/g	6.9 ^A	3.3	-	-	2.6	2.4	nc	2.6	2.3	<1.0	<1.0	3.4	1.7
Nickel	µg/g	100 ^A	17.0	-	-	12.9	15.2	nc	14.3	18.2	12.5	14.6	16.3	14.3
Selenium	µg/g	2.4 ^A	<1.0	-	-	<1.0	<1.0	nc	<1.0	<1.0	<1.0	<1.0	2.0	<1.0
Silver	µg/g	20 ^A	0.4	-	-	<0.3	<0.3	nc	<0.3	<0.3	<0.3	<0.3	2.2	0.4
Thallium	µg/g	1 ^A	<1.0	-	-	<1.0	<1.0	nc	<1.0	<1.0	<1.0	<1.0	2.3 ^A	<1.0
Uranium	µg/g	23 ^A	<1.0	-	-	<1.0	<1.0	nc	<1.0	<1.0	<1.0	<1.0	2.2	<1.0
Vanadium	µg/g	86 ^A	25.2	-	-	18.8	19.0	nc	20.7	22.8	10.1	14.1	13.9	16.2
Zinc	µg/g	340 ^A	136	-	-	24.4	37.2	nc	54.4	134	35.4	71.2	56.3	89.6
Metals-SPLP														
Antimony	µg/L	n/v	4.2	-	-	-	-	-	-	-	-	-	<0.5	<0.5
Arsenic	µg/L	n/v	1.2	-	-	-	-	-	-	-	-	-	<1.0	<1.0
Barium	µg/L	n/v	35.8	-	-	-	-	-	-	-	-	-	20.2	15.8
Beryllium	µg/L	n/v	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5
Boron	µg/L	n/v	40.4	-	-	-	-	-	-	-	-	-	32.7	41.2
Cadmium	µg/L	n/v	<0.2	-	-	-	-	-	-	-	-	-	<0.2	<0.2
Chromium	µg/L	n/v	1.3	-	-	-	-	-	-	-	-	-	1.1	1.3
Cobalt	µg/L	n/v	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5
Copper	µg/L	n/v	8.7	-	-	-	-	-	-	-	-	-	0.6	1.0
Lead	µg/L	n/v	21.1	-	-	-	-	-	-	-	-	-	0.5	<0.2
Molybdenum	µg/L	n/v	8.9	-	-	-	-	-	-	-	-	-	1.2	1.6
Nickel	µg/L	n/v	1.5	-	-	-	-	-	-	-	-	-	<1.0	<1.0
Selenium	µg/L	n/v	<1.0	-	-	-	-	-	-	-	-	-	<1.0	<1.0
Silver	µg/L	n/v	<0.2	-	-	-	-	-	-	-	-	-	<0.2	<0.2
Thallium	µg/L	n/v	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5
Uranium	µg/L	n/v	0.4	-	-	-	-	-	-	-	-	-	<0.2	<0.2
Vanadium	µg/L	n/v	2.0	-	-	-	-	-	-	-	-	-	1.5	1.8
Zinc	µg/L	n/v	15.8	-	-	-	-	-	-	-	-	-	<5.0	<5.0

Table II
Summary of Soil Analytical Results
Proposed Hintonburg Development

Sample Location			BH23-1			BH23-2			BH23-3	BH23-4	BH23-5	BH23-6	BH23-7	BH23-8
Sample Date			26-Jun-23	26-Jun-23		26-Jun-23	26-Jun-23		26-Jun-23	26-Jun-23	26-Jun-23	26-Jun-23	26-Jun-23	26-Jun-23
Sample ID			BH23-1	QC-01		BH23-2	QC-02		BH23-3	BH23-3	BH23-5	BH23-6	BH23-7	BH23-8
Sample Depth			0.3 - 1.2 m	0.3 - 1.2 m		0.3 - 1.5 m	0.3 - 1.5 m		0.1 - 0.4 m	0.1 - 0.7 m	0.1 - 1 m	0.1 - 0.7 m	0.1 - 0.8 m	0.1 - 1 m
Sampling Company			STANTEC	STANTEC		STANTEC	STANTEC		STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARACEL	PARACEL		PARACEL	PARACEL		PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL
Laboratory Work Order			2326112	2326112		2326112	2326112		2326112	2326112	2326112	2326112	2326112	2326112
Laboratory Sample ID			2326112-01	2326112-02		2326112-04	2326112-03		2326112-05	2326112-06	2326112-07	2326112-08	2326112-09	2326112-10
Sample Type	Units	Ontario SCS		Field Duplicate	RPD (%)		Field Duplicate	RPD (%)						
Polycyclic Aromatic Hydrocarbons														
Acenaphthene	µg/g	7.9 ^A	0.53	-	-	<0.02	<0.02	nc	<0.02	1.24	<0.02	0.04	0.03	0.11
Acenaphthylene	µg/g	0.15 ^A	0.47 ^A	-	-	<0.02	<0.02	nc	0.02	0.10	<0.02	0.02	0.12	0.06
Anthracene	µg/g	0.67 ^A	1.69 ^A	-	-	0.03	<0.02	nc	<0.02	2.13 ^A	<0.02	0.09	0.12	0.25
Benzo(a)anthracene	µg/g	0.5 ^A	2.67 ^A	-	-	0.04	0.02	nc	0.07	3.85 ^A	0.04	0.23	0.30	0.60 ^A
Benzo(a)pyrene	µg/g	0.3 ^A	2.69 ^A	-	-	0.04	0.02	nc	0.08	2.87 ^A	0.04	0.20	0.30	0.48 ^A
Benzo(b)fluoranthene	µg/g	0.78 ^A	2.81 ^A	-	-	0.05	0.03	nc	0.10	3.56 ^A	0.06	0.27	0.38	0.59
Benzo(g,h,i)perylene	µg/g	6.6 ^A	1.88	-	-	0.03	0.03	nc	0.07	1.47	0.05	0.16	0.22	0.27
Benzo(k)fluoranthene	µg/g	0.78 ^A	1.50 ^A	-	-	0.02	<0.02	nc	0.05	1.98 ^A	0.03	0.13	0.20	0.32
Chrysene	µg/g	7 ^A	2.45	-	-	0.04	0.02	nc	0.06	3.51	0.04	0.20	0.26	0.59
Dibenzo(a,h)anthracene	µg/g	0.1 ^A	0.46 ^A	-	-	<0.02	<0.02	nc	<0.02	0.42 ^A	<0.02	0.04	0.05	0.08
Fluoranthene	µg/g	0.69 ^A	6.64 ^A	-	-	0.09	0.05	nc	0.14	10.7 ^A	0.10	0.56	0.73 ^A	1.58 ^A
Fluorene	µg/g	62 ^A	0.62	-	-	<0.02	<0.02	nc	<0.02	1.23	<0.02	0.04	0.04	0.13
Indeno(1,2,3-cd)pyrene	µg/g	0.38 ^A	1.58 ^A	-	-	0.02	<0.02	nc	0.05	1.40 ^A	0.03	0.11	0.19	0.25
Methylnaphthalene (Total)	µg/g	0.99 _{s3} ^A	0.11	-	-	<0.04	<0.04	nc	0.11	0.26	<0.04	<0.04	<0.04	0.04
Methylnaphthalene, 1-	µg/g	_{s3} ^A	0.05	-	-	<0.02	<0.02	nc	<0.02	0.12	<0.02	<0.02	<0.02	<0.02
Methylnaphthalene, 2-	µg/g	_{s3} ^A	0.06	-	-	<0.02	<0.02	nc	<0.02	0.14	<0.02	<0.02	<0.02	0.02
Naphthalene	µg/g	0.6 ^A	0.11	-	-	<0.01	<0.01	nc	0.01	0.21	<0.01	0.01	0.02	0.05
Phenanthrene	µg/g	6.2 ^A	5.40	-	-	0.09	0.05	nc	0.09	10.4 ^A	0.07	0.48	0.46	1.31
Pyrene	µg/g	78 ^A	5.77	-	-	0.08	0.05	nc	0.13	8.11	0.09	0.46	0.58	1.20
Volatile Organic Compounds														
Acetone	µg/g	16 ^A	<0.50	-	-	<0.50	<0.50	nc	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	µg/g	13 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromoform (Tribromomethane)	µg/g	0.27 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Bromomethane (Methyl bromide)	µg/g	0.05 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride (Tetrachloromethane)	µg/g	0.05 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chlorobenzene (Monochlorobenzene)	µg/g	2.4 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Chloroform (Trichloromethane)	µg/g	0.05 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	µg/g	9.4 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichlorobenzene, 1,2-	µg/g	3.4 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichlorobenzene, 1,3-	µg/g	4.8 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichlorobenzene, 1,4-	µg/g	0.083 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichlorodifluoromethane (Freon 12)	µg/g	16 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloroethane, 1,1-	µg/g	3.5 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloroethane, 1,2-	µg/g	0.05 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloroethene, 1,1-	µg/g	0.05 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloroethene, cis-1,2-	µg/g	3.4 ^A	0.17	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloroethene, trans-1,2-	µg/g	0.084 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloropropane, 1,2-	µg/g	0.05 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/g	0.05 _{s11} ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloropropene, cis-1,3-	µg/g	_{s11} ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Dichloropropene, trans-1,3-	µg/g	_{s11} ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/g	0.05 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Hexane (n-Hexane)	µg/g	2.8 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/g	16 ^A	<0.50	-	-	<0.50	<0.50	nc	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone (MIBK)	µg/g	1.7 ^A	<0.50	-	-	<0.50	<0.50	nc	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl tert-butyl ether (MTBE)	µg/g	0.75 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Methylene Chloride (Dichloromethane)	µg/g	0.1 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Styrene	µg/g	0.7 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Tetrachloroethane, 1,1,1,2-	µg/g	0.058 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Tetrachloroethane, 1,1,2,2-	µg/g	0.05 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Tetrachloroethene (PCE)	µg/g	0.28 ^A	1.48 ^A	-	-	3.94 ^A	3.92 ^A	1%	0.30 ^A	0.90 ^A	0.60 ^A	0.55 ^A	0.25	1.95 ^A
Trichloroethane, 1,1,1-	µg/g	0.38 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichloroethane, 1,1,2-	µg/g	0.05 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Trichloroethene (TCE)	µg/g	0.061 ^A	0.31 ^A	-	-	0.36 ^A	0.32 ^A	12%	<0.05	0.14 ^A	<0.05	<0.05	<0.05	0.08 ^A
Trichlorofluoromethane (Freon 11)	µg/g	4 ^A	<0.05	-	-	<0.05	<0.05	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Vinyl Chloride	µg/g	0.02 ^A	<0.02	-	-	<0.02	<0.02	nc	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Table II
Summary of Soil Analytical Results
Proposed Hintonburg Development

Sample Location			BH23-1			BH23-2			BH23-3	BH23-4	BH23-5	BH23-6	BH23-7	BH23-8
Sample Date			26-Jun-23	26-Jun-23		26-Jun-23	26-Jun-23		26-Jun-23	26-Jun-23	26-Jun-23	26-Jun-23	26-Jun-23	26-Jun-23
Sample ID			BH23-1	QC-01		BH23-2	QC-02		BH23-3	BH23-4	BH23-5	BH23-6	BH23-7	BH23-8
Sample Depth			0.3 - 1.2 m	0.3 - 1.2 m		0.3 - 1.5 m	0.3 - 1.5 m		0.1 - 0.4 m	0.1 - 0.7 m	0.1 - 1 m	0.1 - 0.7 m	0.1 - 0.8 m	0.1 - 1 m
Sampling Company			STANTEC	STANTEC		STANTEC	STANTEC		STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARACEL	PARACEL		PARACEL	PARACEL		PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL
Laboratory Work Order			2326112	2326112		2326112	2326112		2326112	2326112	2326112	2326112	2326112	2326112
Laboratory Sample ID			2326112-01	2326112-02	RPD	2326112-04	2326112-03	RPD	2326112-05	2326112-06	2326112-07	2326112-08	2326112-09	2326112-10
Sample Type	Units	Ontario SCS		Field Duplicate	(%)		Field Duplicate	(%)						
Volatile Organic Compounds-SPLP														
Bromomethane (Methyl bromide)	µg/L	n/v	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5
Carbon Tetrachloride (Tetrachloromethane)	µg/L	n/v	<0.2	-	-	-	-	-	-	-	-	-	<0.2	<0.2
Chloroform (Trichloromethane)	µg/L	n/v	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5
Dichlorobenzene, 1,2-	µg/L	n/v	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5
Dichlorobenzene, 1,4-	µg/L	n/v	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5
Dichloroethane, 1,1-	µg/L	n/v	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5
Dichloroethane, 1,2-	µg/L	n/v	<0.2	-	-	-	-	-	-	-	-	-	<0.2	<0.2
Dichloroethene, 1,1-	µg/L	n/v	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5
Dichloroethene, cis-1,2-	µg/L	n/v	<0.2	-	-	-	-	-	-	-	-	-	<0.2	<0.2
Dichloroethene, trans-1,2-	µg/L	n/v	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5
Dichloropropane, 1,2-	µg/L	n/v	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	n/v	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5
Dichloropropene, cis-1,3-	µg/L	n/v	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5
Dichloropropene, trans-1,3-	µg/L	n/v	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	n/v	<0.2	-	-	-	-	-	-	-	-	-	<0.2	<0.2
Tetrachloroethane, 1,1,1,2-	µg/L	n/v	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5
Tetrachloroethene (PCE)	µg/L	n/v	2.2	-	-	-	-	-	-	-	-	-	<0.5	5.2
Trichloroethane, 1,1,2-	µg/L	n/v	<0.5	-	-	-	-	-	-	-	-	-	<0.5	<0.5
Trichloroethene (TCE)	µg/L	n/v	0.8	-	-	-	-	-	-	-	-	-	<0.5	<0.5

See notes on last page.

Table II
Summary of Soil Analytical Results
Proposed Hintonburg Development

Notes:	
Ontario SCS	Soil, Ground Water and Sediment Standards for Use under Part XV.I of the Environmental Protection Act (MOE, 2011) Site Condition Standards (SCS)
A	Table 7 - Residential / Parkland / Institutional Property Use - Coarse Textured Soils
6.5 ^A	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
<0.50	Laboratory reporting limit was greater than the applicable standard.
<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
s1	Standard is applicable to total xylenes, and m & p-xylenes and o-xylenes should be summed for comparison.
s3	Standard is applicable to both 1-methylnaphthalene and 2-methylnaphthalene, with the provision that if both are detected the sum of the two must not exceed the standard.
s7	Standard is applicable to PHC in the F1 range minus BTEX.
s8	Standard is applicable to PHC in the F3 range, minus PAHs (other than naphthalene). If PAHs were not analyzed, the standard is applied to F3.
s10	If baseline is not reached during F4 analysis, then gravimetric analysis is to be performed, and the standard is applied to the higher of the two results.
s11	Standard is applicable to 1,3-Dichloropropene, and the individual isomers (cis + trans) should be added for comparison.
s15	Standard is applicable to PHC in the F2 range minus naphthalene. If naphthalene was not analyzed, the standard is applied to F2.
s16	For surface soil, the boron standard is for hot water soluble extract. For subsurface soil, the standard is for total boron (mixed strong acid digest), as ecological criteria are not considered.
BX	GC-FID signal did not return to baseline by C50
CA	Subcontracted analysis.
OD	ORG12 Peak(s) in the GC-FID Chromatogram are not typical of petroleum hydrocarbon distillates. May be the result of high concentrations of non-mineral based compounds not completely removed by the method cleanup.
RPD	Relative Percent Difference.
61%	RPD exceeds data quality objective of [source: Bureau Veritas Ontario QA/QC Interpretation Guide – Environmental Services (CAM FCD-01224/2).]
	10% for Electrical Conductivity
	30% for PHCs, Metals, and Inorganics
	35% for FOC, and Cyanide
	40% for PAHs
	50% for VOCs
nc	RPD is not calculated if one or more values is non detect or if one or more values is less than five times the reportable detection limit.

Table IIIa
Summary of Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			E3	MW00-4	MW00-6	MW01-10			MW05-4	MW05-4A	MW08-31A	MW08-32A	MW08-33A	MW08-34	MW14-1A	MW14-1B	MW14-2	MW16-01	MW19-12A
Sample Date			29-Jun-23	28-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23		28-Jun-23	28-Jun-23	30-Jun-23	30-Jun-23	30-Jun-23	30-Jun-23	30-Jun-23	30-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23
Sample ID			E3	MW00-4	MW00-6	MW01-10	QC-02		MW05-4	MW05-4A	MW08-31A	MW08-32A	MW08-33A	MW08-34	MW14-1A	MW14-1B	MW14-2	MW16-01	MW19-12A
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC		STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARACEL	PARACEL	PARACEL	PARACEL	PARACEL		PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL
Laboratory Work Order			2326467	2326467	2326467	2326467	2326467		2326467	2326467	2326529	2326529	2326529	2326529	2326529	2326529	2326467	2326467	2326467
Laboratory Sample ID			2326467-12	2326467-03	2326467-09	2326467-07	2326467-08		2326467-02	2326467-01	2326529-05	2326529-06	2326529-07	2326529-08	2326529-03	2326529-04	2326467-10	2326467-11	2326467-04
Sample Type	Units	Ontario SCS					Field Duplicate	RPD (%)											
General Chemistry																			
Chloride	mg/L	1,800 ^A	1,120	4	161	187	258	32%	266	1,150	201	164	565	801	916	609	1,670	568	3,190 ^A
Cyanide (Free)	µg/L	52 ^A	<2	<2	<2	<2	<2	nc	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
pH, lab	S.U.	n/v	7.3	8.1	8.0	8.1	7.9	3%	7.8	7.7	8.1	7.7	7.8	7.8	7.0	7.0	7.6	7.9	7.5
BTEX and Petroleum Hydrocarbons																			
Benzene	µg/L	0.5 ^A	297 ^A	<0.5	<0.5	<0.5	<0.5	nc	19.1 ^A	<0.5	371 ^A	3.1 ^A	<2,500	2.6 ^A	31.6 ^A	<2,500	1.7 ^A	2.0 ^A	16.8 ^A
Toluene	µg/L	320 ^A	544 ^A	<0.5	<0.5	<0.5	2.8	nc	5.6	<0.5	31.2	2.3	<2,500	1.7	230	<2,500	<0.5	1.9	14.3
Ethylbenzene	µg/L	54 ^A	18.5	<0.5	<0.5	<0.5	3.4	nc	2.2	<0.5	1.9	1.7	<2,500	0.6	63.6 ^A	<2,500	<0.5	<0.5	1.9
Xylene, m & p-	µg/L	51 ^A	40.8	<0.5	<0.5	<0.5	6.8	nc	1.3	<0.5	1.2	1.7	<2,500	0.6	120	<2,500	<0.5	<0.5	3.9
Xylene, o-	µg/L	51 ^A	20.1	<0.5	<0.5	<0.5	5.9	nc	0.7	<0.5	0.5	0.5	<2,500	<0.5	66.1	<2,500	<0.5	<0.5	2.7
Xylenes, Total	µg/L	7251 ^A	60.9	<0.5	<0.5	<0.5	12.8	nc	2.0	<0.5	1.8	2.2	<2,500	0.6	186 ^A	<2,500	<0.5	<0.5	6.7
PHC F1 (C6-C10 range) minus BTEX	µg/L	42097 ^A	<25	<25	<25	<25	<25	nc	<25	<25	<25	<25	<125,000	<25	<25	<125,000	<25	<25	<25
PHC F2 (>C10-C16 range)	µg/L	150315 ^A	359 ^A	<100	<100	<100	918 ^A	nc	<100	<100	<100	640 ^A	<100	<100	513 ^A	63,600 ^A	<100	<100	<100
PHC F3 (>C16-C34 range)	µg/L	50038 ^A	1,170 ^A	<100	<100	687 ^A	3,610 ^A	136%	<100	<100	<100	1,060 ^A	<100	217	2,720 ^A	6,700 ^A	<100	<100	<100
PHC F4 (>C34-C50 range)	µg/L	500310 ^A	471	<100	<100	616 ^A	1,730 ^A	95%	<100	<100	<100	585 ^A	<100	200	1,410 ^A	39,100 ^A	<100	<100	<100
Metals																			
Antimony	µg/L	16,000 ^A	<0.5	0.5	0.6	1.3	1.2	nc	<0.5	<0.5	1.4	<0.5	8.0	<0.5	0.9	0.7	<0.5	6.0	<0.5
Arsenic	µg/L	1,500 ^A	4	<1	<1	<1	<1	nc	<1	<1	14	<1	4	<1	<1	<1	<1	17	3
Barium	µg/L	23,000 ^A	2,690	74	109	87	61	35%	817	156	54	100	51	231	543	205	603	76	708
Beryllium	µg/L	53 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron	µg/L	36,000 ^A	844	59	141	165	161	2%	194	483	675	38	1,840	229	199	153	667	992	1,160
Cadmium	µg/L	2.1 ^A	<0.1	<0.1	<0.1	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium	µg/L	640 ^A	<1	<1	<1	<1	<1	nc	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cobalt	µg/L	52 ^A	0.9	<0.5	1.2	6.4	<0.5	nc	<0.5	<0.5	<0.5	<0.5	8.8	<0.5	0.8	0.7	<0.5	0.7	<0.5
Copper	µg/L	69 ^A	<0.5	21.0	4.4	5.8	5.9	2%	2.3	0.6	2.0	1.3	3.8	<0.5	1.8	1.3	0.8	<0.5	1.5
Lead	µg/L	20 ^A	<0.1	0.2	<0.1	0.1	0.1	nc	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	0.1	0.2	<0.1	<0.1
Molybdenum	µg/L	7,300 ^A	1.9	2.0	3.6	10.4	10.5	1%	2.8	2.4	130	2.5	13.7	0.7	1.4	1.4	<0.5	0.6	5.4
Nickel	µg/L	390 ^A	2	2	2	10	3	nc	1	2	<1	2	59	1	3	3	1	16	2
Selenium	µg/L	50 ^A	2	<1	<1	2	<1	nc	<1	<1	<1	<1	<1	<1	<1	<1	1	5	<1
Silver	µg/L	1.2 ^A	<0.1	<0.1	<0.1	<0.1	<0.1	nc	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sodium	µg/L	1,800,000 ^A	704,000	9,020	101,000	182,000	180,000	1%	121,000	570,000	425,000	40,600	445,000	424,000	293,000	293,000	632,000	1,230,000	1,250,000
Thallium	µg/L	400 ^A	<0.1	<0.1	0.4	0.3	0.3	nc	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Uranium	µg/L	330 ^A	0.4	0.2	0.9	0.6	0.6	0%	0.1	0.2	0.6	0.3	14.2	0.3	0.1	0.7	0.1	0.1	5.8
Vanadium	µg/L	200 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	0.8	<0.5	<0.5	<0.5	3.1	<0.5	<0.5	1.5	1.5	21.3	0.6
Zinc	µg/L	890 ^A	<5	<5	<5	<5	<5	nc	<5	<5	<5	<5	118	<5	<5	9	<5	<5	<5
Polycyclic Aromatic Hydrocarbons																			
Acenaphthene	µg/L	17 ^A	0.13	<0.05	<0.05	<1.00	<1.00	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1.00	<0.25	<0.05	<0.05
Acenaphthylene	µg/L	1 ^A	<0.05	<0.05	<0.05	<1.00	<1.00	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1.00	<0.25	<0.05	<0.05
Anthracene	µg/L	1 ^A	0.05	<0.01	<0.01	<0.20	<0.20	nc	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	2.72 ^A	0.45	<0.01	<0.01
Benzo(a)anthracene	µg/L	1.8 ^A	0.10	<0.01	<0.01	3.64 ^A	5.38 ^A	39%	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1.33	0.93	<0.01	<0.01
Benzo(a)pyrene	µg/L	0.81 ^A	0.07	<0.01	<0.01	<0.20	<0.20	nc	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.86 ^A	0.98 ^A	<0.01	<0.01
Benzo(b)fluoranthene	µg/L	0.75 ^A	0.05	<0.05	<0.05	<1.00	5.08 ^A	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1.00	1.56 ^A	<0.05	<0.05
Benzo(g,h,i)perylene	µg/L	0.2 ^A	<0.05	<0.05	<0.05	2.82 ^A	2.87 ^A	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.03 ^A	1.48 ^A	<0.05	<0.05
Benzo(k)fluoranthene	µg/L	0.4 ^A	<0.05	<0.05	<0.05	<1.00	1.84 ^A	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1.00	0.64 ^A	<0.05	<0.05
Chrysene	µg/L	0.7 ^A	0.07	<0.05	<0.05	3.31 ^A	5.05 ^A	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1.00	0.99 ^A	<0.05	<0.05
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	<0.05	<0.05	<0.05	<1.00	<1.00	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1.00	0.27	<0.05	<0.05
Fluoranthene	µg/L	44 ^A	0.22	<0.01	<0.01	7.64	13.7	57%	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.13	1.89	2.09	0.02	<0.01
Fluorene	µg/L	290 ^A	<0.05	<0.05	<0.05	<1.00	<1.00	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.11	<0.25	<0.05	<0.05
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	<0.05	<0.05	<0.05	2.11 ^A	2.60 ^A	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1.00	0.85 ^A	<0.05	<0.05
Methylnaphthalene (Total)	µg/L	1,5003 ^A	0.95	<0.10	<0.10	<2.00	37.3	nc	<0.10	<0.10	<0.10	<0.10	0.38	<0.10	1.52	15.9	<0.50	<0.10	<0.10

Table IIIa
Summary of Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			E3	MW00-4	MW00-6	MW01-10			MW05-4	MW05-4A	MW08-31A	MW08-32A	MW08-33A	MW08-34	MW14-1A	MW14-1B	MW14-2	MW16-01	MW19-12A
Sample Date			29-Jun-23	28-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23		28-Jun-23	28-Jun-23	30-Jun-23	30-Jun-23	30-Jun-23	30-Jun-23	30-Jun-23	30-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23
Sample ID			E3	MW00-4	MW00-6	MW01-10	QC-02		MW05-4	MW05-4A	MW08-31A	MW08-32A	MW08-33A	MW08-34	MW14-1A	MW14-1B	MW14-2	MW16-01	MW19-12A
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC		STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARACEL	PARACEL	PARACEL	PARACEL	PARACEL		PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL
Laboratory Work Order			2326467	2326467	2326467	2326467	2326467		2326467	2326467	2326529	2326529	2326529	2326529	2326529	2326529	2326467	2326467	2326467
Laboratory Sample ID			2326467-12	2326467-03	2326467-09	2326467-07	2326467-08		2326467-02	2326467-01	2326529-05	2326529-06	2326529-07	2326529-08	2326529-03	2326529-04	2326467-10	2326467-11	2326467-04
Sample Type	Units	Ontario SCS					Field Duplicate	RPD (%)											
Methylnaphthalene, 1-	µg/L	^A _{s3}	0.43	<0.05	<0.05	<1.00	13.6	nc	<0.05	<0.05	<0.05	<0.05	0.38	<0.05	0.52	5.18	<0.25	<0.05	<0.05
Methylnaphthalene, 2-	µg/L	^A _{s3}	0.53	<0.05	<0.05	<1.00	23.7	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.00	10.7	0.30	<0.05	<0.05
Naphthalene	µg/L	7 ^A	0.79	<0.05	<0.05	<1.00	35.6 ^A	nc	<0.05	<0.05	<0.05	<0.05	1.78	<0.05	2.51	21.0 ^A	<0.25	<0.05	<0.05
Phenanthrene	µg/L	380 ^A	0.34	<0.05	<0.05	<1.00	18.4	nc	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.33	4.24	1.35	<0.05	<0.05
Pyrene	µg/L	5.7 ^A	0.20	<0.01	<0.01	6.07 ^A	10.6 ^A	54%	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	2.09	1.82	<0.01	<0.01

See notes on last page.

Table IIIa
Summary of Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			E3	MW00-4	MW00-6	MW01-10			MW05-4	MW05-4A	MW08-31A	MW08-32A	MW08-33A	MW08-34	MW14-1A	MW14-1B	MW14-2	MW16-01	MW19-12A
Sample Date			29-Jun-23	28-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23		28-Jun-23	28-Jun-23	30-Jun-23	30-Jun-23	30-Jun-23	30-Jun-23	30-Jun-23	30-Jun-23	29-Jun-23	29-Jun-23	29-Jun-23
Sample ID			E3	MW00-4	MW00-6	MW01-10	QC-02		MW05-4	MW05-4A	MW08-31A	MW08-32A	MW08-33A	MW08-34	MW14-1A	MW14-1B	MW14-2	MW16-01	MW19-12A
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC		STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARACEL	PARACEL	PARACEL	PARACEL	PARACEL		PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL	PARACEL
Laboratory Work Order			2326467	2326467	2326467	2326467	2326467		2326467	2326467	2326529	2326529	2326529	2326529	2326529	2326529	2326467	2326467	2326467
Laboratory Sample ID			2326467-12	2326467-03	2326467-09	2326467-07	2326467-08		2326467-02	2326467-01	2326529-05	2326529-06	2326529-07	2326529-08	2326529-03	2326529-04	2326467-10	2326467-11	2326467-04
Sample Type	Units	Ontario SCS					Field Duplicate	RPD (%)											
Volatile Organic Compounds																			
Acetone	µg/L	100,000 ^A	12,600	<5.0	<5.0	<5.0	<5.0	nc	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	2,230	<25,000	<5.0	3,250	<5.0
Bromodichloromethane	µg/L	67,000 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Bromoform (Tribromomethane)	µg/L	5 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	<0.2	<0.2	<0.2	<0.2	<0.2	nc	<0.2	<0.2	<0.2	<0.2	<1,000	<0.2	<0.2	<1,000	<0.2	<0.2	<0.2
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Chloroform (Trichloromethane)	µg/L	2 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	65,000 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Dichlorobenzene, 1,2-	µg/L	150 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	<1.0	<1.0	<1.0	<1.0	<1.0	nc	<1.0	<1.0	<1.0	<1.0	<5,000	<1.0	<1.0	<5,000	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	11 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Dichloroethane, 1,2-	µg/L	0.5 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Dichloroethene, 1,1-	µg/L	0.5 ^A	7.0 ^A	<0.5	<0.5	<0.5	2.1 ^A	nc	5.9 ^A	<0.5	<0.5	<0.5	<2,500	0.7 ^A	20.0 ^A	<2,500	<0.5	<0.5	7.5 ^A
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	16,300 ^A	65.8 ^A	27.1 ^A	718 ^A	1,680 ^A	80%	10,700 ^A	189 ^A	62.6 ^A	897 ^A	118,000 ^A	2,000 VOCL ^A	17,000 ^A	95,000 ^A	282 ^A	13.6 ^A	31,400 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	137 ^A	8.9 ^A	<0.5	10.0 ^A	17.6 ^A	55%	48.8 ^A	3.3 ^A	9.1 ^A	8.4 ^A	<2,500	14.0 ^A	153 ^A	<2,500	6.6 ^A	6.0 ^A	242 ^A
Dichloropropane, 1,2-	µg/L	0.58 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Dichloropropene, cis-1,3-	µg/L	s11 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Dichloropropene, trans-1,3-	µg/L	s11 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	<0.2	<0.2	<0.2	<0.2	<0.2	nc	<0.2	<0.2	<0.2	<0.2	<1,000	<0.2	<0.2	<1,000	<0.2	<0.2	<0.2
Hexane (n-Hexane)	µg/L	5 ^A	<1.0	<1.0	<1.0	<1.0	<1.0	nc	<1.0	<1.0	<1.0	<1.0	<5,000	<1.0	<1.0	<5,000	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	162	<5.0	<5.0	<5.0	<5.0	nc	<5.0	<5.0	<5.0	<5.0	<25,000	<5.0	115	<25,000	<5.0	167	<5.0
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	19.0	<5.0	<5.0	<5.0	<5.0	nc	<5.0	<5.0	<5.0	<5.0	<25,000	<5.0	<5.0	<25,000	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	<2.0	<2.0	<2.0	<2.0	<2.0	nc	<2.0	<2.0	<2.0	<2.0	<10,000	<2.0	<2.0	<10,000	<2.0	<2.0	<2.0
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	<5.0	<5.0	<5.0	<5.0	<5.0	nc	<5.0	<5.0	<5.0	<5.0	<25,000	<5.0	<5.0	<25,000	<5.0	<5.0	<5.0
Styrene	µg/L	43 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	0.9 ^A	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Tetrachloroethene (PCE)	µg/L	0.5 ^A	108 ^A	3.3 ^A	15.9 ^A	592 ^A	6,510 ^A	167%	1.2 ^A	4.6 ^A	2.0 ^A	23.0 ^A	29,800 ^A	39.9 ^A	7,020 ^A	154,000 ^A	13.7 ^A	12.3 ^A	12.1 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	<0.5	<0.5	<0.5	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5	<2,500	<0.5	<0.5	<2,500	<0.5	<0.5	<0.5
Trichloroethene (TCE)	µg/L	0.5 ^A	983 ^A	1.4 ^A	5.5 ^A	141 ^A	1,120 ^A	155%	3.0 ^A	25.6 ^A	0.6 ^A	20.8 ^A	22,000 ^A	16.0 ^A	3,440 ^A	24,800 ^A	4.7 ^A	4.1 ^A	48.3 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	<1.0	<1.0	<1.0	<1.0	<1.0	nc	<1.0	<1.0	<1.0	<1.0	<5,000	<1.0	<1.0	<5,000	<1.0	<1.0	<1.0
Vinyl Chloride	µg/L	0.5 ^A	12,800 ^A	18.8 ^A	3.1 ^A	11.1 ^A	170 ^A	nc	2,400 ^A	55.0 ^A	344 ^A	293 ^A	<2,500	274 VOCL ^A	4,520 ^A	<2,500	285 ^A	<0.5	6,020 ^A

See notes on last page.

Table IIIa
Summary of Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Ontario SCS	MW19-12B			MW19-13A	MW19-13B	FIELD BLANK	TRIP BLANK
			29-Jun-23	29-Jun-23		30-Jun-23	30-Jun-23	30-Jun-23	20-Jun-23
			MW19-12B	QC-01		MW19-13A	MW19-13B	Field Blank	Trip Blank
			STANTEC	STANTEC		STANTEC	STANTEC	STANTEC	STANTEC
			PARACEL	PARACEL		PARACEL	PARACEL	PARACEL	PARACEL
			2326467	2326467		2326529	2326529	2326529	2326529
			2326467-05	2326467-06	RPD (%)	2326529-01	2326529-02	2326529-10	2326529-09
				Field Duplicate				Field Blank	Trip Blank
General Chemistry									
Chloride	mg/L	1,800 ^A	3,830 ^A	4,320 ^A	12%	862	482	-	-
Cyanide (Free)	µg/L	52 ^A	<2	<2	nc	<2	<2	-	-
pH, lab	S.U.	n/v	7.5	7.5	0%	7.5	7.5	-	-
BTEX and Petroleum Hydrocarbons									
Benzene	µg/L	0.5 ^A	17.1 ^A	23.1 ^A	30%	60.3 ^A	39.8 ^A	<0.5	<0.5
Toluene	µg/L	320 ^A	11.0	10.0	10%	165	161	<0.5	<0.5
Ethylbenzene	µg/L	54 ^A	31.0	22.6	31%	42.0	75.5 ^A	<0.5	<0.5
Xylene, m & p-	µg/L	s1 ^A	58.0	33.7	53%	51.3	83.8	<0.5	<0.5
Xylene, o-	µg/L	s1 ^A	24.6	15.4	46%	33.6	45.7	<0.5	<0.5
Xylenes, Total	µg/L	72. s1 ^A	82.7 ^A	49.1	51%	84.8 ^A	130 ^A	<0.5	<0.5
PHC F1 (C6-C10 range) minus BTEX	µg/L	420. s7 ^A	<25	<25	nc	<25	<25	<25	-
PHC F2 (>C10-C16 range)	µg/L	150. s15 ^A	26,200 ^A	10,600 ^A	85%	<100	<100	-	-
PHC F3 (>C16-C34 range)	µg/L	500. s8 ^A	36,400 ^A	17,100 ^A	72%	<100	640 ^A	-	-
PHC F4 (>C34-C50 range)	µg/L	500. s10 ^A	17,300 ^A	8,960 ^A	64%	<100	340	-	-
Metals									
Antimony	µg/L	16,000 ^A	<0.5	<0.5	nc	<0.5	<0.5	-	-
Arsenic	µg/L	1,500 ^A	<1	<1	nc	4	2	-	-
Barium	µg/L	23,000 ^A	4,750	4,560	4%	659	548	-	-
Beryllium	µg/L	53 ^A	<0.5	<0.5	nc	<0.5	<0.5	-	-
Boron	µg/L	36,000 ^A	239	237	1%	618	229	-	-
Cadmium	µg/L	2.1 ^A	<0.1	<0.1	nc	<0.1	<0.1	-	-
Chromium	µg/L	640 ^A	<1	<1	nc	1	<1	-	-
Cobalt	µg/L	52 ^A	<0.5	<0.5	nc	<0.5	0.5	-	-
Copper	µg/L	69 ^A	1.6	1.4	nc	1.6	1.9	-	-
Lead	µg/L	20 ^A	<0.1	<0.1	nc	0.4	<0.1	-	-
Molybdenum	µg/L	7,300 ^A	<0.5	<0.5	nc	2.7	2.0	-	-
Nickel	µg/L	390 ^A	<1	<1	nc	3	3	-	-
Selenium	µg/L	50 ^A	<1	<1	nc	<1	<1	-	-
Silver	µg/L	1.2 ^A	<0.1	<0.1	nc	<0.1	<0.1	-	-
Sodium	µg/L	1,800,000 ^A	1,360,000	1,320,000	3%	821,000	523,000	-	-
Thallium	µg/L	400 ^A	<0.1	<0.1	nc	<0.1	<0.1	-	-
Uranium	µg/L	330 ^A	0.2	0.2	nc	4.4	7.9	-	-
Vanadium	µg/L	200 ^A	0.9	0.9	nc	3.8	<0.5	-	-
Zinc	µg/L	890 ^A	<5	<5	nc	<5	<5	-	-
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	µg/L	17 ^A	<5.00	<1.00	nc	<0.05	<0.05	-	-
Acenaphthylene	µg/L	1 ^A	<5.00	<1.00	nc	<0.05	<0.05	-	-
Anthracene	µg/L	1 ^A	<1.00	<0.20	nc	<0.01	<0.01	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	<1.00	<0.20	nc	<0.01	0.02	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	<1.00	<0.20	nc	<0.01	<0.01	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	<5.00	<1.00	nc	<0.05	<0.05	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	13.3 ^A	3.63 ^A	114%	<0.05	<0.05	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	<5.00	<1.00	nc	<0.05	<0.05	-	-
Chrysene	µg/L	0.7 ^A	<5.00	<1.00	nc	<0.05	<0.05	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	<5.00	<1.00	nc	<0.05	<0.05	-	-
Fluoranthene	µg/L	44 ^A	<1.00	<0.20	nc	<0.01	<0.01	-	-
Fluorene	µg/L	290 ^A	<5.00	<1.00	nc	<0.05	<0.05	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	8.52 ^A	2.28 ^A	115%	<0.05	<0.05	-	-
Methylnaphthalene (Total)	µg/L	1,500. s3 ^A	<10.0	<2.00	nc	<0.10	<0.10	-	-

Table IIIa
Summary of Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW19-12B			MW19-13A	MW19-13B	FIELD BLANK	TRIP BLANK
Sample Date			29-Jun-23	29-Jun-23		30-Jun-23	30-Jun-23	30-Jun-23	20-Jun-23
Sample ID			MW19-12B	QC-01		MW19-13A	MW19-13B	Field Blank	Trip Blank
Sampling Company			STANTEC	STANTEC		STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARACEL	PARACEL		PARACEL	PARACEL	PARACEL	PARACEL
Laboratory Work Order			2326467	2326467		2326529	2326529	2326529	2326529
Laboratory Sample ID			2326467-05	2326467-06	RPD (%)	2326529-01	2326529-02	2326529-10	2326529-09
Sample Type	Units	Ontario SCS		Field Duplicate				Field Blank	Trip Blank
Methylnaphthalene, 1-	µg/L	µg/L ^A _{s3}	<5.00	<1.00	nc	<0.05	<0.05	-	-
Methylnaphthalene, 2-	µg/L	µg/L ^A _{s3}	<5.00	<1.00	nc	<0.05	<0.05	-	-
Naphthalene	µg/L	7 ^A	31.0 ^A	<1.00	nc	0.47	0.42	-	-
Phenanthrene	µg/L	380 ^A	<5.00	<1.00	nc	<0.05	<0.05	-	-
Pyrene	µg/L	5.7 ^A	<1.00	<0.20	nc	<0.01	<0.01	-	-

See notes on last page.

Table IIIa
Summary of Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW19-12B			MW19-13A	MW19-13B	FIELD BLANK	TRIP BLANK
Sample Date			29-Jun-23	29-Jun-23		30-Jun-23	30-Jun-23	30-Jun-23	20-Jun-23
Sample ID			MW19-12B	QC-01		MW19-13A	MW19-13B	Field Blank	Trip Blank
Sampling Company			STANTEC	STANTEC		STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARACEL	PARACEL		PARACEL	PARACEL	PARACEL	PARACEL
Laboratory Work Order			2326467	2326467		2326529	2326529	2326529	2326529
Laboratory Sample ID			2326467-05	2326467-06	RPD	2326529-01	2326529-02	2326529-10	2326529-09
Sample Type	Units	Ontario SCS		Field Duplicate	(%)			Field Blank	Trip Blank
Volatile Organic Compounds									
Acetone	µg/L	100,000 ^A	<5.0	<5.0	nc	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane	µg/L	67,000 ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Bromoform (Tribromomethane)	µg/L	5 ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	<0.2	<0.2	nc	<0.2	<0.2	<0.2	<0.2
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Chloroform (Trichloromethane)	µg/L	2 ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	µg/L	65,000 ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Dichlorobenzene, 1,2-	µg/L	150 ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	<1.0	<1.0	nc	<1.0	<1.0	<1.0	<1.0
Dichloroethane, 1,1-	µg/L	11 ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Dichloroethane, 1,2-	µg/L	0.5 ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Dichloroethene, 1,1-	µg/L	0.5 ^A	19.1 ^A	10.7 ^A	56%	6.7 ^A	24.3 ^A	<0.5	<0.5
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	11,500 VOCL ^A	5,240 ^A	75%	14,900 ^A	24,900 ^A	<0.5	<0.5
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	97.0 VOCL ^A	76.2 ^A	24%	90.8 ^A	77.0 ^A	<0.5	<0.5
Dichloropropane, 1,2-	µg/L	0.58 ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Dichloropropene, cis-1,3-	µg/L	s11 ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Dichloropropene, trans-1,3-	µg/L	s11 ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	<0.2	<0.2	nc	<0.2	<0.2	<0.2	<0.2
Hexane (n-Hexane)	µg/L	5 ^A	<1.0	<1.0	nc	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	<5.0	<5.0	nc	<5.0	<5.0	<5.0	<5.0
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	<5.0	<5.0	nc	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	<2.0	<2.0	nc	<2.0	<2.0	<2.0	<2.0
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	<5.0	<5.0	nc	<5.0	<5.0	<5.0	<5.0
Styrene	µg/L	43 ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	4.8 ^A	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene (PCE)	µg/L	0.5 ^A	7,220 VOCL ^A	3,840 ^A	61%	4.5 ^A	5.6 ^A	<0.5	<0.5
Trichloroethane, 1,1,1-	µg/L	23 ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	<0.5	<0.5	nc	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE)	µg/L	0.5 ^A	3,080 VOCL ^A	1,280 ^A	83%	89.2 ^A	462 ^A	<0.5	<0.5
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	<1.0	<1.0	nc	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	µg/L	0.5 ^A	938 VOCL ^A	<0.5	nc	5,500 ^A	8,070 ^A	<0.5	<0.5

See notes on last page.

Table IIIa
Summary of Groundwater Analytical Results
Proposed Hintonburg Development

Notes:	
Ontario SCS	Soil, Ground Water and Sediment Standards for Use under Part XV.1 of the Environmental Protection Act (MOE, 2011) Site Condition Standards (SCS)
A	Table 7 - All Types of Property Use - Coarse Textured Soils
6.5 ^A	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
<0.50	Laboratory reporting limit was greater than the applicable standard.
<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
s1	Standard is applicable to total xylenes, and m & p-xylenes and o-xylenes should be summed for comparison.
s3	Standard is applicable to both 1-methylnaphthalene and 2-methylnaphthalene, with the provision that if both are detected the sum of the two must not exceed the standard.
s7	Standard is applicable to PHC in the F1 range minus BTEX.
s8	Standard is applicable to PHC in the F3 range, minus PAHs (other than naphthalene). If PAHs were not analyzed, the standard is applied to F3.
s10	If baseline is not reached during F4 analysis, then gravimetric analysis is to be performed, and the standard is applied to the higher of the two results.
s11	Standard is applicable to 1,3-Dichloropropene, and the individual isomers (cis + trans) should be added for comparison.
s15	Standard is applicable to PHC in the F2 range minus naphthalene. If naphthalene was not analyzed, the standard is applied to F2.
VOCL	VOC result based on an analysis taken from a previously analyzed sample vial (due to multiple dilutions). Results may be biased low.
RPD	Relative Percent Difference.
61%	RPD exceeds data quality objective of [source: Bureau Veritas Ontario QA/QC Interpretation Guide – Environmental Services (CAM FCD-01224/2).] 10% for Electrical Conductivity 20% for Metals, Inorganics, and Mercury, Chromium VI, FOC, Chloride, Cyanide 30% for PHCs, ABNs, PAHs, OC Pesticides, PCBs, HWSB, and Methyl Mercury 40% for HWSB 50% for VOCs
nc	RPD is not calculated if one or more values is non detect or if one or more values is less than five times the reportable detection limit.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			BH1		BH1-12	BH2		BH3		E2												
Sample Date			22-Jul-11	19-Oct-11	14-Dec-12	27-Jul-11	19-Oct-11	27-Jul-11	19-Oct-11	30-Apr-12	3-May-12	27-Jun-12	26-Jun-13	13-Nov-13	25-Sep-14	10-Oct-14	4-Dec-14	28-Jan-15	12-May-15	12-May-15	15-Jul-15	11-Sep-15
Sample ID			BH-1	BH-1	BH1-12	BH-2	BH-2	BH-3	BH-3	E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-2	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS																		Field Duplicate		
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72 ^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^A _{s7}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150 ^A _{s15}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500 ^A _{s8}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500 ^A _{s10}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500 ^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			BH1		BH1-12	BH2		BH3								E2						
Sample Date			22-Jul-11	19-Oct-11	14-Dec-12	27-Jul-11	19-Oct-11	27-Jul-11	19-Oct-11	30-Apr-12	3-May-12	27-Jun-12	26-Jun-13	13-Nov-13	25-Sep-14	10-Oct-14	4-Dec-14	28-Jan-15	12-May-15	12-May-15	15-Jul-15	11-Sep-15
Sample ID			BH-1	BH-1	BH1-12	BH-2	BH-2	BH-3	BH-3	E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-2
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																		Field Duplicate		
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	660 ^A	310 ^A	<0.5	530 ^A	2,900 ^A	24 ^A	64 ^A	38,000 ^A	36 ^A	9,400 ^A	12,000 ^A	12,000 ^A	21,000 ^A	8,500 ^A	9,600 ^A	4,100 ^A	27,000 ^A	29,000 ^A	27,000 ^A	26,000 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<10	12 ^A	<0.5	<3	11 ^A	<0.5	0.2	20,000 ^A	140 ^A	17,000 ^A	210,000 ^A	120,000 ^A	280,000 ^A	18,000 ^A	46 ^A	63 ^A	19,000 ^A	30,000 ^A	2,100 ^A	2,200 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	<10	63 ^A	<0.4	7 ^A	150 ^A	2.0 ^A	1.9 ^A	18,000 ^A	17 ^A	7,100 ^A	24,000 ^A	36,000 ^A	54,000 ^A	8,800 ^A	34 ^A	62 ^A	8,900 ^A	10,000 ^A	4,700 ^A	630 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	37 ^A	77 ^A	<0.4	14 ^A	130 ^A	22 ^A	9.8 ^A	1,600 ^A	<2.0	900 ^A	<2,000	3,000 ^A	1,600 ^A	1,900 ^A	3,000 ^A	3,100 ^A	2,700 ^A	2,800 ^A	3,900 ^A	5,300 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type		Units	Ontario	SCS	E2 (Continued)										E3									
					23-Oct-15	16-Dec-15	11-Mar-16	29-Jul-16	1-Aug-17	24-Oct-17	1-Mar-18	19-Apr-18	5-Jun-18	20-Sep-18	30-Apr-12	1-May-12	2-May-12	2-May-12	27-Jun-12	26-Jun-13	25-Sep-14	10-Oct-14	2-Dec-14	27-Jan-15
					E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-3	E-3	E-3	E-3	E-3	E-3	E-3	E-3	E-3	E-3
					UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
					HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	Field Duplicate	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN			
General Chemistry																								
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Petroleum Hydrocarbons																								
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Metals, Dissolved																								
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Polycyclic Aromatic Hydrocarbons																								
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			E2 (Continued)										E3									
Sample Date			23-Oct-15	16-Dec-15	11-Mar-16	29-Jul-16	1-Aug-17	24-Oct-17	1-Mar-18	19-Apr-18	5-Jun-18	20-Sep-18	30-Apr-12	1-May-12	2-May-12	2-May-12	27-Jun-12	26-Jun-13	25-Sep-14	10-Oct-14	2-Dec-14	27-Jan-15
Sample ID			E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-2	E-3	E-3	E-3	E-3	E-3	E-3	E-3	E-3	E-3	E-3
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS														Field Duplicate						
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	68,000 ^A	70,000 ^A	62,000 ^A	16,000 ^A	8,000 ^A	39,000 ^A	40,000 ^A	100,000 ^A	91,000 ^A	49,000 ^A	53,000 ^A	110 ^A	110 ^A	560 ^A	15,000 ^A	24,000 ^A	34,000 ^A	3,400 ^A	58,000 ^A	70,000 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	2,800 ^A	1,800 ^A	4,700 ^A	2,700 ^A	60,000 ^A	28,000 ^A	3,100 ^A	8,800 ^A	17,000 ^A	<0.20	110,000 ^A	1,400 ^A	930 ^A	7,100 ^A	45,000 ^A	54,000 ^A	71,000 ^A	3,000 ^A	1,000 ^A	600 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	1,500 ^A	3,200 ^A	5,400 ^A	5,700 ^A	13,000 ^A	11,000 ^A	8,900 ^A	26,000 ^A	4,600 ^A	<0.20	46,000 ^A	250 ^A	160 ^A	890 ^A	26,000 ^A	40,000 ^A	77,000 ^A	8,500 ^A	18,000 ^A	13,000 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	6,400 ^A	7,300 ^A	7,300 ^A	2,200 ^A	330 ^A	430 ^A	2,600 ^A	2,900 ^A	2,700 ^A	7,700 ^A	2,300 ^A	<20	<10	<100	<400	1,000 ^A	1,000 ^A	120 ^A	910 ^A	3,700 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			13-May-15 E-3	15-Jul-15 E-3	10-Sep-15 E-3	22-Oct-15 E-3	16-Dec-15 E-3	11-Mar-16 E-3	29-Jul-16 E-3	25-Apr-17 E-3	25-Apr-17 E-3	1-Aug-17 E-3	27-Oct-17 E-3	28-Feb-18 E-3	5-Jun-18 E-3	20-Sep-18 E-3	20-Mar-19 E-3	27-Aug-19 E-3	14-Nov-19 E-3	20-Apr-20 E-3	E4 30-Apr-12 E-4	3-May-12 E-4 (10)
Sample Date			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sampling Company			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS									Field Duplicate											
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 ^{s1 A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^{s7 A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 ^{s15 A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 ^{s8 A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 ^{s10 A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 ^{s3 A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s9 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location											E3 (Continued)											
Sample Date			13-May-15	15-Jul-15	10-Sep-15	22-Oct-15	16-Dec-15	11-Mar-16	29-Jul-16	25-Apr-17	25-Apr-17	1-Aug-17	27-Oct-17	28-Feb-18	5-Jun-18	20-Sep-18	20-Mar-19	27-Aug-19	14-Nov-19	20-Apr-20	E4	3-May-12
Sample ID			E-3	E-3	E-3	E-3	E-3	E-3	E-3	E-3	E-3	E-3	E-3	E-3	E-3	E-3	E-3	E-3	E-3	E-3	E-4	E-4 (10)
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS									Field Duplicate											
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	30,000 ^A	76,000 ^A	76,000 ^A	150,000 ^A	190,000 ^A	180,000 ^A	110,000 ^A	13,000 ^A	60,000 ^A	15,000 ^A	18,000 ^A	19,000 ^A	24,000 ^A	27,000 ^A	62,000 ^A	64,000 ^A	130,000 ^A	130,000 ^A	12,000 ^A	600 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	^{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	^{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	14,000 ^A	250 ^A	440 ^A	510 ^A	24,000 ^A	11,000 ^A	10,000 ^A	4,000 ^A	2,700 ^A	48,000 ^A	61,000 ^A	90,000 ^A	2,000 ^A	420 ^A	610 ^A	46 ^A	67 ^A	330 ^A	640 ^A	2,800 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	40,000 ^A	8,400 ^A	14,000 ^A	1,600 ^A	13,000 ^A	11,000 ^A	8,100 ^A	3,700 ^A	3,100 ^A	6,600 ^A	8,100 ^A	11,000 ^A	820 ^A	1,400 ^A	2,400 ^A	4,600 ^A	3,200 ^A	7,600 ^A	4,100 ^A	510 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	2,200 ^A	2,700 ^A	2,000 ^A	3,700 ^A	16,000 ^A	26,000 ^A	21,000 ^A	7,700 ^A	38,000 ^A	1,300 ^A	1,100 ^A	2,500 ^A	2,000 ^A	1,600 ^A	2,600 ^A	5,700 ^A	12,000 ^A	34,000 ^A	140 ^A	<40

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Ontario SCS	E4 (Continued)																			
			3-May-12 E-4 (11)	3-May-12 E-4 (9)	27-Jun-12 E-4	26-Jun-13 E-4	25-Sep-14 E-4	10-Oct-14 E-4	4-Dec-14 E-4	28-Jan-15 E-4	12-May-15 E-4	15-Jul-15 E-4	10-Sep-15 E-4	23-Oct-15 E-4	16-Dec-15 E-4	10-Mar-16 E-4	29-Jul-16 E-4	25-Apr-17 E-4	2-Aug-17 E-4	24-Oct-17 E-4	1-Mar-18 E-4	19-Apr-18 E-4
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location		Units	Ontario SCS	E4 (Continued)																		19-Apr-18 E-4 UNKNOWN HISTWG UNKNOWN	
Sample Date	Sample ID			3-May-12 E-4 (11) UNKNOWN HISTWG UNKNOWN	3-May-12 E-4 (9) UNKNOWN HISTWG UNKNOWN	27-Jun-12 E-4 UNKNOWN HISTWG UNKNOWN	26-Jun-13 E-4 UNKNOWN HISTWG UNKNOWN	25-Sep-14 E-4 UNKNOWN HISTWG UNKNOWN	10-Oct-14 E-4 UNKNOWN HISTWG UNKNOWN	4-Dec-14 E-4 UNKNOWN HISTWG UNKNOWN	28-Jan-15 E-4 UNKNOWN HISTWG UNKNOWN	12-May-15 E-4 UNKNOWN HISTWG UNKNOWN	15-Jul-15 E-4 UNKNOWN HISTWG UNKNOWN	10-Sep-15 E-4 UNKNOWN HISTWG UNKNOWN	23-Oct-15 E-4 UNKNOWN HISTWG UNKNOWN	16-Dec-15 E-4 UNKNOWN HISTWG UNKNOWN	10-Mar-16 E-4 UNKNOWN HISTWG UNKNOWN	29-Jul-16 E-4 UNKNOWN HISTWG UNKNOWN	25-Apr-17 E-4 UNKNOWN HISTWG UNKNOWN	2-Aug-17 E-4 UNKNOWN HISTWG UNKNOWN	24-Oct-17 E-4 UNKNOWN HISTWG UNKNOWN		1-Mar-18 E-4 UNKNOWN HISTWG UNKNOWN
Sampling Company	Laboratory																						
Laboratory Work Order	Laboratory Sample ID																						
Sample Type																							
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	130 ^A	560 ^A	9,500 ^A	11,000 ^A	21,000 ^A	790 ^A	20,000 ^A	85,000 ^A	88,000 ^A	130,000 ^A	90,000 ^A	160,000 ^A	130,000 ^A	95,000 ^A	34,000 ^A	380,000 ^A	49,000 ^A	48,000 ^A	31,000 ^A	45,000 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	270 ^A	3,300 ^A	28,000 ^A	26,000 ^A	19,000 ^A	20,000 ^A	58,000 ^A	32,000 ^A	79,000 ^A	13,000 ^A	34,000 ^A	15,000 ^A	35,000 ^A	33,000 ^A	75,000 ^A	47,000 ^A	460,000 ^A	260,000 ^A	43,000 ^A	23,000 ^A	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	86 ^A	510 ^A	23,000 ^A	25,000 ^A	31,000 ^A	3,000 ^A	8,800 ^A	36,000 ^A	42,000 ^A	35,000 ^A	28,000 ^A	57,000 ^A	32,000 ^A	28,000 ^A	26,000 ^A	24,000 ^A	22,000 ^A	18,000 ^A	5,100 ^A	6,300 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	<5.0	<50	<200	370 ^A	1,300 ^A	48 ^A	950 ^A	8,200 ^A	8,900 ^A	14,000 ^A	9,300 ^A	24,000 ^A	42,000 ^A	14,000 ^A	4,800 ^A	22,000 ^A	3,000 ^A	1,600 ^A	2,100 ^A	6,200 ^A	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Ontario SCS	E4 (Continued)					E5													28-Feb-18 E-5 UNKNOWN HISTWG UNKNOWN			
			6-Jun-18 E-4 UNKNOWN HISTWG UNKNOWN	20-Sep-18 E-4 UNKNOWN HISTWG UNKNOWN	27-Aug-19 E-4 UNKNOWN HISTWG UNKNOWN	18-Nov-19 E-4 UNKNOWN HISTWG UNKNOWN	20-Apr-20 E-4 UNKNOWN HISTWG UNKNOWN	9-Oct-14 E-5 UNKNOWN HISTWG UNKNOWN	4-Dec-14 E-5 UNKNOWN HISTWG UNKNOWN	27-Jan-15 E-5 UNKNOWN HISTWG UNKNOWN	11-May-15 E-5 UNKNOWN HISTWG UNKNOWN	15-Jul-15 E-5 UNKNOWN HISTWG UNKNOWN	11-Sep-15 E-5 UNKNOWN HISTWG UNKNOWN	23-Oct-15 E-5 UNKNOWN HISTWG UNKNOWN	16-Dec-15 E-5 UNKNOWN HISTWG UNKNOWN	10-Mar-16 E-5 UNKNOWN HISTWG UNKNOWN	29-Jul-16 E-5 UNKNOWN HISTWG UNKNOWN	26-Apr-17 E-5 UNKNOWN HISTWG UNKNOWN	26-Apr-17 E-5 UNKNOWN HISTWG Field Duplicate	2-Aug-17 E-5 UNKNOWN HISTWG UNKNOWN		24-Oct-17 E-5 UNKNOWN HISTWG UNKNOWN		
			General Chemistry																					
			Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
			Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Petroleum Hydrocarbons																								
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Metals, Dissolved																								
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Polycyclic Aromatic Hydrocarbons																								
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location		Units	Ontario SCS	E4 (Continued)						E5													28-Feb-18 E-5 UNKNOWN HISTWG UNKNOWN
Sample Date	Sample ID			6-Jun-18 E-4 UNKNOWN HISTWG UNKNOWN	20-Sep-18 E-4 UNKNOWN HISTWG UNKNOWN	27-Aug-19 E-4 UNKNOWN HISTWG UNKNOWN	18-Nov-19 E-4 UNKNOWN HISTWG UNKNOWN	20-Apr-20 E-4 UNKNOWN HISTWG UNKNOWN	9-Oct-14 E-5 UNKNOWN HISTWG UNKNOWN	4-Dec-14 E-5 UNKNOWN HISTWG UNKNOWN	27-Jan-15 E-5 UNKNOWN HISTWG UNKNOWN	11-May-15 E-5 UNKNOWN HISTWG UNKNOWN	15-Jul-15 E-5 UNKNOWN HISTWG UNKNOWN	11-Sep-15 E-5 UNKNOWN HISTWG UNKNOWN	23-Oct-15 E-5 UNKNOWN HISTWG UNKNOWN	16-Dec-15 E-5 UNKNOWN HISTWG UNKNOWN	10-Mar-16 E-5 UNKNOWN HISTWG UNKNOWN	29-Jul-16 E-5 UNKNOWN HISTWG UNKNOWN	26-Apr-17 E-5 UNKNOWN HISTWG UNKNOWN	26-Apr-17 E-5 UNKNOWN HISTWG Field Duplicate	2-Aug-17 E-5 UNKNOWN HISTWG UNKNOWN	24-Oct-17 E-5 UNKNOWN HISTWG UNKNOWN	
Sampling Company	Laboratory																						
Laboratory Work Order	Laboratory Sample ID																						
Sample Type																							
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	34,000 ^A	130,000 ^A	120,000 ^A	89,000 ^A	17,000 ^A	3,500 ^A	41,000 ^A	35,000 ^A	30,000 ^A	30,000 ^A	28,000 ^A	3,700 ^A	59,000 ^A	56,000 ^A	27,000 ^A	59,000 ^A	57,000 ^A	11,000 ^A	9,400 ^A	35,000 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	4,400 ^A	10,000 ^A	460 ^A	1,100 ^A	1,400 ^A	11,000 ^A	380,000 ^A	97,000 ^A	110,000 ^A	91,000 ^A	93,000 ^A	37,000 ^A	16,000 ^A	15,000 ^A	28,000 ^A	2,400 ^A	2,100 ^A	150,000 ^A	19,000 ^A	3,500 ^A	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	4,100 ^A	1,400 ^A	3,600 ^A	1,500 ^A	1,700 ^A	2,200 ^A	93,000 ^A	64,000 ^A	56,000 ^A	59,000 ^A	56,000 ^A	4,300 ^A	8,800 ^A	13,000 ^A	8,200 ^A	20,000 ^A	18,000 ^A	17,000 ^A	3,400 ^A	3,200 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	3,800 ^A	5,500 ^A	11,000 ^A	8,300 ^A	10,000 ^A	380 ^A	290 ^A	1,600 ^A	1,000 ^A	1,100 ^A	1,000 ^A	3,900 ^A	9,400 ^A	8,200 ^A	3,000 ^A	56,000 ^A	53,000 ^A	2,500 ^A	1,700 ^A	1,900 ^A	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Ontario SCS	E5 (Continued)				E6																16-May-00 MW00-3 UNKNOWN HISTWG UNKNOWN		
			19-Apr-18 E-5 UNKNOWN HISTWG UNKNOWN	5-Jun-18 E-5 UNKNOWN HISTWG UNKNOWN	20-Sep-18 E-5 UNKNOWN HISTWG UNKNOWN	9-Oct-14 E-6 UNKNOWN HISTWG UNKNOWN	4-Dec-14 E-6 UNKNOWN HISTWG UNKNOWN	27-Jan-15 E-6 UNKNOWN HISTWG UNKNOWN	12-May-15 E-6 UNKNOWN HISTWG UNKNOWN	15-Jul-15 E-6 UNKNOWN HISTWG UNKNOWN	11-Sep-15 E-6 UNKNOWN HISTWG UNKNOWN	23-Oct-15 E-6 UNKNOWN HISTWG UNKNOWN	17-Dec-15 E-6 UNKNOWN HISTWG UNKNOWN	11-Mar-16 E-6 UNKNOWN HISTWG UNKNOWN	29-Jul-16 E-6 UNKNOWN HISTWG UNKNOWN	26-Apr-17 E-6 UNKNOWN HISTWG UNKNOWN	1-Aug-17 E-6 UNKNOWN HISTWG UNKNOWN	26-Oct-17 E-6 UNKNOWN HISTWG UNKNOWN	1-Mar-18 E-6 UNKNOWN HISTWG UNKNOWN	5-Jun-18 E-6 UNKNOWN HISTWG UNKNOWN	20-Sep-18 E-6 UNKNOWN HISTWG UNKNOWN				
			General Chemistry																						
			Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
			Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Petroleum Hydrocarbons																									
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Metals, Dissolved																									
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Polycyclic Aromatic Hydrocarbons																									
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				

See notes on last page.

Table IIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location		Units	Ontario SCS	E5 (Continued)					E6															16-May-00 MW00-3 UNKNOWN HISTWG UNKNOWN
Sample Date	Sample ID			19-Apr-18 E-5	5-Jun-18 E-5	20-Sep-18 E-5	9-Oct-14 E-6	4-Dec-14 E-6	27-Jan-15 E-6	12-May-15 E-6	15-Jul-15 E-6	11-Sep-15 E-6	23-Oct-15 E-6	17-Dec-15 E-6	11-Mar-16 E-6	29-Jul-16 E-6	26-Apr-17 E-6	1-Aug-17 E-6	26-Oct-17 E-6	1-Mar-18 E-6	5-Jun-18 E-6	20-Sep-18 E-6		
Sampling Company	Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Laboratory Work Order	Laboratory Sample ID			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG		
Laboratory Sample ID	Sample Type			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Volatile Organic Compounds																								
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	23,000 ^A	44,000 ^A	13,000 ^A	22,000 ^A	3,700 ^A	47,000 ^A	74,000 ^A	130,000 ^A	85,000 ^A	9,600 ^A	60,000 ^A	38,000 ^A	630 ^A	2,500 ^A	10,000 ^A	8,200 ^A	11,000 ^A	4,200 ^A	13 ^A	273 ^A		
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tetrachloroethene (PCE)	µg/L	0.5 ^A	2,200 ^A	1,100 ^A	110 ^A	66,000 ^A	9,900 ^A	8,800 ^A	8,600 ^A	600 ^A	3,800 ^A	43,000 ^A	220 ^A	280 ^A	130 ^A	23 ^A	18 ^A	82 ^A	580 ^A	2.4 ^A	0.76 ^A	520 ^A		
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Trichloroethene (TCE)	µg/L	0.5 ^A	1,900 ^A	1,500 ^A	100 ^A	35,000 ^A	2,400 ^A	2,100 ^A	3,000 ^A	710 ^A	8,000 ^A	3,700 ^A	3,300 ^A	560 ^A	350 ^A	91 ^A	5.4 ^A	340 ^A	350 ^A	2.9 ^A	0.42	185 ^A		
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vinyl Chloride	µg/L	0.5 ^A	2,100 ^A	3,700 ^A	380 ^A	740 ^A	240 ^A	7,200 ^A	9,300 ^A	17,000 ^A	16,000 ^A	2,000 ^A	7,400 ^A	10,000 ^A	490 ^A	560 ^A	870 ^A	1,800 ^A	3,700 ^A	6,000 ^A	59 ^A	<0.5		

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Ontario SCS	MW00-3												MW00-4									
			16-Aug-01	9-Jul-02	15-Jun-03	12-Nov-03	2-Sep-04	20-Jun-05	5-Dec-08	20-Aug-09	28-Aug-10	25-Nov-15	15-Aug-16	16-May-00	16-Aug-01	9-Jul-02	15-Jun-03	12-Nov-03	24-Aug-04	16-Jun-05	5-Dec-08	26-Jul-11		
			MW00-3	MW00-3	MW00-3	MW00-3	MW00-3	MW00-3	MW00-3	MW00-3	MW00-3	MW00-3	MW00-3	MW00-4	MW00-4	MW00-4	MW00-4	MW00-4	MW00-4	MW00-4	MW00-4	MW00-4		
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG		
UNKNOWN			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN			

General Chemistry																								
Chloride	mg/L	1,800^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Cyanide (Free)	µg/L	52^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Petroleum Hydrocarbons																								
Benzene	µg/L	0.5^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Toluene	µg/L	320^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Ethylbenzene	µg/L	54^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Xylene, m & p-	µg/L	^A_{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Xylene, o-	µg/L	^A_{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Xylenes, Total	µg/L	72^A_{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F1 (C6-C10 range) minus BTEX	µg/L	420^A_{s7}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F2 (>C10-C16 range)	µg/L	150^A_{s15}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F3 (>C16-C34 range)	µg/L	500^A_{s8}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F4 (>C34-C50 range)	µg/L	500^A_{s10}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Metals, Dissolved																								
Antimony	µg/L	16,000^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Arsenic	µg/L	1,500^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Barium	µg/L	23,000^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Beryllium	µg/L	53^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Boron	µg/L	36,000^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Cadmium	µg/L	2.1^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Chromium	µg/L	640^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Cobalt	µg/L	52^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Copper	µg/L	69^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Lead	µg/L	20^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Molybdenum	µg/L	7,300^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Nickel	µg/L	390^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Selenium	µg/L	50^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Silver	µg/L	1.2^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Sodium	µg/L	1,800,000^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Thallium	µg/L	400^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Uranium	µg/L	330^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Vanadium	µg/L	200^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Zinc	µg/L	890^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Polycyclic Aromatic Hydrocarbons																								
Acenaphthene	µg/L	17^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Acenaphthylene	µg/L	1^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Anthracene	µg/L	1^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(a)anthracene	µg/L	1.8^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(a)pyrene	µg/L	0.81^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(b)fluoranthene	µg/L	0.75^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(g,h,i)perylene	µg/L	0.2^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(k)fluoranthene	µg/L	0.4^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Chrysene	µg/L	0.7^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dibenzo(a,h)anthracene	µg/L	0.4^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Fluoranthene	µg/L	44^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Fluorene	µg/L	290^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Indeno(1,2,3-cd)pyrene	µg/L	0.2^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methylnaphthalene (Total)	µg/L	1,500^A_{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methylnaphthalene, 1-	µg/L	^A_{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methylnaphthalene, 2-	µg/L	^A_{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Naphthalene	µg/L	7^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Phenanthrene	µg/L	380^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Pyrene	µg/L	5.7^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW00-3											MW00-4									
Sample Date	Sample ID		16-Aug-01 MW00-3	9-Jul-02 MW00-3	15-Jun-03 MW00-3	12-Nov-03 MW00-3	2-Sep-04 MW00-3	20-Jun-05 MW00-3	5-Dec-08 MW00-3	20-Aug-09 MW00-3	28-Aug-10 MW00-3	25-Nov-15 MW00-3	15-Aug-16 MW00-3	16-May-00 MW00-4	16-Aug-01 MW00-4	9-Jul-02 MW00-4	15-Jun-03 MW00-4	12-Nov-03 MW00-4	24-Aug-04 MW00-4	16-Jun-05 MW00-4	5-Dec-08 MW00-4	26-Jul-11 MW00-4	
Sampling Company	Laboratory		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order	Laboratory Sample ID		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Sample Type	Units	Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	3,300 ^A	4,400 ^A	689 ^A	8,810 ^A	13,000 ^A	3,590 ^A	3,000 ^A	12,000 ^A	4,000 ^A	8,500 ^A	490 ^A	1,500 ^A	9,400 ^A	7.6 ^A	166 ^A	14.8 ^A	2,210 ^A	7.1 ^A	21 ^A	3,000 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	300 ^A	330 ^A	365 ^A	1,300 ^A	1,210 ^A	528 ^A	770 ^A	3,800 ^A	910 ^A	60,000 ^A	61 ^A	14,400 ^A	750 ^A	8.5 ^A	817 ^A	19.2 ^A	492 ^A	2.7 ^A	28 ^A	230 ^A	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	600 ^A	940 ^A	317 ^A	5,300 ^A	6,940 ^A	1,710 ^A	2,200 ^A	17,000 ^A	4,300 ^A	11,000 ^A	130 ^A	3,500 ^A	2,200 ^A	2 ^A	155 ^A	3.6 ^A	524 ^A	1.5 ^A	14 ^A	240 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	450 ^A	850 ^A	12.7 ^A	713 ^A	1,140 ^A	343 ^A	76 ^A	410 ^A	180 ^A	250 ^A	20 ^A	<0.5	1,800 ^A	<0.5	4.8 ^A	0.7 ^A	604 ^A	<0.2	2.2 ^A	23 ^A	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW00-4 (Continued)											MW00-5										MW00-5 (C
Sample Date			23-Nov-12	27-Jun-13	8-May-14	25-Nov-15	15-Aug-16	2-Aug-17	19-Apr-18	20-Nov-19	11-Aug-20	4-May-21		16-May-00	16-Aug-01	9-Jul-02	15-Jun-03	12-Nov-03	27-Aug-04	20-Jun-05	5-Dec-08	20-Aug-09	28-Aug-10	
Sample ID			MW00-4	MW00-4	MW00-4	MW00-4	MW00-4	MW00-4	MW00-4	MW00-4	MW00-4	MW00-4		MW00-5	MW00-5	MW00-5	MW00-5	MW00-5	MW00-5	MW00-5	MW00-5	MW00-5	MW00-5	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS																						
General Chemistry																								
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Petroleum Hydrocarbons																								
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Metals, Dissolved																								
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Polycyclic Aromatic Hydrocarbons																								
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

See notes on last page.

Table IIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW00-4 (Continued)										MW00-5									
Sample Date	Sample ID		23-Nov-12 MW00-4	27-Jun-13 MW00-4	8-May-14 MW00-4	25-Nov-15 MW00-4	15-Aug-16 MW00-4	2-Aug-17 MW00-4	19-Apr-18 MW00-4	20-Nov-19 MW00-4	11-Aug-20 MW00-4	4-May-21 MW00-4	16-May-00 MW00-5	16-Aug-01 MW00-5	9-Jul-02 MW00-5	15-Jun-03 MW00-5	12-Nov-03 MW00-5	27-Aug-04 MW00-5	20-Jun-05 MW00-5	5-Dec-08 MW00-5	20-Aug-09 MW00-5	28-Aug-10 MW00-5
Sampling Company	Laboratory	Laboratory Work Order	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID	Sample Type	Units	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Ontario SCS																						
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	330 ^A	8,200 ^A	460 ^A	1,600 ^A	56 ^A	310 ^A	2.4 ^A	70 ^A	15 ^A	1.3	29 ^A	50,000 ^A	9,500 ^A	16,600 ^A	12,100 ^A	9,540 ^A	9,760 ^A	330 ^A	130 ^A	170 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	17 ^A	75 ^A	4.1 ^A	34 ^A	5.3 ^A	1.9 ^A	0.53 ^A	8.0 ^A	2.5 ^A	1.3 ^A	50 ^A	<250	<25	38.8 ^A	<50	<40	<50	3 ^A	<5	0.6 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	19 ^A	230 ^A	5.8 ^A	37 ^A	4.2 ^A	3.3 ^A	0.22	3.5 ^A	1.3 ^A	0.40	20.9 ^A	400 ^A	240 ^A	207 ^A	39.7 ^A	<40	<50	2 ^A	<5	2.0 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	53 ^A	410 ^A	<4.0	14 ^A	16 ^A	14 ^A	3.4 ^A	80 ^A	3.7 ^A	<0.20	<0.5	2,800 ^A	880 ^A	738 ^A	2,310 ^A	2,400 ^A	1,440 ^A	80 ^A	81 ^A	110 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			Continued)		MW00-6							MW00-7							MW00-7 (Continued)			
Sample Date			27-Jul-11	19-Apr-18	16-May-00	16-Aug-01	21-Feb-02	9-Jul-02	15-Jun-03	12-Nov-03	24-Aug-04	16-May-00	16-Aug-01	21-Feb-02	9-Jul-02	15-Jun-03	12-Nov-03	24-Aug-04	20-Jun-05	9-Dec-08	24-Aug-09	31-Aug-10
Sample ID			MW00-5	MW00-5	MW00-6	MW00-6	MW00-6	MW00-6	MW00-6	MW00-6	MW00-6	MW00-7	MW00-7	MW00-7	MW00-7	MW00-7	MW00-7	MW00-7	MW00-7	MW00-7	MW00-7	MW00-7
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			Continued)		MW00-6							MW00-7							MW00-7 (Continued)			
Sample Date			27-Jul-11	19-Apr-18	16-May-00	16-Aug-01	21-Feb-02	9-Jul-02	15-Jun-03	12-Nov-03	24-Aug-04	16-May-00	16-Aug-01	21-Feb-02	9-Jul-02	15-Jun-03	12-Nov-03	24-Aug-04	20-Jun-05	9-Dec-08	24-Aug-09	31-Aug-10
Sample ID			MW00-5	MW00-5	MW00-6	MW00-6	MW00-6	MW00-6	MW00-6	MW00-6	MW00-6	MW00-7	MW00-7	MW00-7	MW00-7	MW00-7	MW00-7	MW00-7	MW00-7	MW00-7	MW00-7	MW00-7
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	18 ^A	6.8 ^A	<0.4	13,000 ^A	9,800 ^A	55 ^A	181 ^A	294 ^A	1,650 ^A	58 ^A	1,800 ^A	2,100 ^A	2,300 ^A	4,300 ^A	5,170 ^A	9,780 ^A	5,220 ^A	2,700 ^A	610 ^A	670 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.3	0.71 ^A	267 ^A	4,800 ^A	59,000 ^A	370 ^A	1,050 ^A	1,100 ^A	500 ^A	46.2 ^A	75 ^A	100 ^A	2,200 ^A	1,240 ^A	1,280 ^A	1,330 ^A	2,410 ^A	680 ^A	47 ^A	<5
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	1.1 ^A	0.70 ^A	773 ^A	9,000 ^A	36,000 ^A	89 ^A	373 ^A	350 ^A	917 ^A	19.6 ^A	440 ^A	840 ^A	3,200 ^A	4,210 ^A	8,120 ^A	12,000 ^A	7,940 ^A	1,800 ^A	39 ^A	9 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	31 ^A	2.2 ^A	641 ^A	1,500 ^A	1,900 ^A	48 ^A	83.1 ^A	269 ^A	347 ^A	920 ^A	450 ^A	200 ^A	700 ^A	616 ^A	564 ^A	746 ^A	563 ^A	93 ^A	110 ^A	650 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW00-8										MW01-10									
Sample Date			27-Jul-11	23-Nov-12	16-May-00	16-Aug-01	9-Jul-02	15-Jun-03	12-Nov-03	27-Aug-04	20-Jun-05	16-Aug-01	9-Jul-02	15-Jun-03	12-Nov-03	30-Aug-04	15-Jun-05	5-Dec-08	20-Aug-09	28-Aug-10	26-Jul-11	23-Nov-12
Sample ID			MW00-7	MW00-7	MW00-8	MW00-8	MW00-8	MW00-8	MW00-8	MW00-8	MW00-8	MW01-10	MW01-10	MW01-10	MW01-10	MW01-10	MW01-10	MW01-10	MW01-10	MW01-10	MW01-10	MW01-10
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 _{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 _{s7} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 _{s15} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 _{s8} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 _{s10} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 _{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			)		MW00-8							MW01-10										
Sample Date			27-Jul-11	23-Nov-12	16-May-00	16-Aug-01	9-Jul-02	15-Jun-03	12-Nov-03	27-Aug-04	20-Jun-05	16-Aug-01	9-Jul-02	15-Jun-03	12-Nov-03	30-Aug-04	15-Jun-05	5-Dec-08	20-Aug-09	28-Aug-10	26-Jul-11	23-Nov-12
Sample ID			MW00-7	MW00-7	MW00-8	MW00-8	MW00-8	MW00-8	MW00-8	MW00-8	MW00-8	MW01-10	MW01-10	MW01-10	MW01-10	MW01-10	MW01-10	MW01-10	MW01-10	MW01-10	MW01-10	MW01-10
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	400 ^A	38 ^A	497 ^A	960 ^A	1,200 ^A	265 ^A	178 ^A	1,490 ^A	977 ^A	1,100 ^A	400 ^A	361 ^A	682 ^A	690 ^A	300 ^A	590 ^A	570 ^A	440 ^A	630 ^A	410 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	2 ^A	0.57 ^A	159 ^A	1,500 ^A	2,000 ^A	1,320 ^A	1,690 ^A	1,330 ^A	564 ^A	2,700 ^A	4,600 ^A	13,500 ^A	9,520 ^A	11,700 ^A	6,130 ^A	780 ^A	580 ^A	210 ^A	240 ^A	360 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	4 ^A	3.0 ^A	115 ^A	340 ^A	900 ^A	322 ^A	353 ^A	614 ^A	301 ^A	940 ^A	720 ^A	1,650 ^A	924 ^A	1,480 ^A	745 ^A	600 ^A	370 ^A	160 ^A	170 ^A	200 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	320 ^A	170 ^A	18.7 ^A	<25	180 ^A	<8	<20	9.6 ^A	<10	25 ^A	<50	<80	<80	<200	<40	<4	9.1 ^A	21 ^A	<20	<20

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW01-10 (Continued)										MW02-17										
Sample Date	Sample ID		26-Jun-13 MW01-10	8-May-14 MW01-10	26-Nov-15 MW01-10	16-Aug-16 MW01-10	2-Aug-17 MW01-10	19-Apr-18 MW01-10	28-Nov-19 MW01-10	10-Aug-20 MW01-10	4-May-21 MW01-10		21-Feb-02 MW02-17	9-Jul-02 MW02-17	15-Jun-03 MW02-17	12-Nov-03 MW02-17	26-Aug-04 MW02-17	16-Jun-05 MW02-17	1-Dec-05 MW02-17	16-Mar-06 MW02-17	19-Jun-06 MW02-17	5-Oct-06 MW02-17	9-Jan-07 MW02-17
Sampling Company	Laboratory	Laboratory Work Order	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID	Sample Type	Units	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Ontario SCS																							
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	300 ^A	770 ^A	5,400 ^A	1,000 ^A	500 ^A	530 ^A	2,200 ^A	20,000 ^A	210 ^A	2,000 ^A	1,900 ^A	3,400 ^A	2,520 ^A	2,620 ^A	992 ^A	690 ^A	1,500 ^A	510 ^A	410 ^A	650 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	860 ^A	1,400 ^A	610 ^A	2,300 ^A	680 ^A	580 ^A	250 ^A	61,000 ^A	150 ^A	2,400 ^A	500 ^A	587 ^A	462 ^A	111 ^A	99.4 ^A	21 ^A	200 ^A	13 ^A	21 ^A	20 ^A	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	500 ^A	630 ^A	250 ^A	500 ^A	310 ^A	240 ^A	480 ^A	28,000 ^A	66 ^A	760 ^A	240 ^A	404 ^A	321 ^A	93.2 ^A	93.1 ^A	13 ^A	220 ^A	13 ^A	14 ^A	19 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<10	<10	1,600 ^A	220 ^A	6.1 ^A	3.4 ^A	580 ^A	3,400 ^A	11 ^A	450 ^A	350 ^A	510 ^A	841 ^A	891 ^A	388 ^A	1,300 ^A	1,400 ^A	1,200 ^A	1,800 ^A	1,200 ^A	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Ontario SCS	MW02-17 (Continued)																11-Nov-13 MW02-17 UNKNOWN UNKNOWN HISTWG UNKNOWN	8-May-14 MW02-17 UNKNOWN UNKNOWN HISTWG UNKNOWN	24-Sep-14 MW02-17 UNKNOWN UNKNOWN HISTWG UNKNOWN	14-Jul-15 MW02-17 UNKNOWN UNKNOWN HISTWG UNKNOWN	26-Nov-15 MW02-17 UNKNOWN UNKNOWN HISTWG UNKNOWN
			4-May-07 MW02-17 UNKNOWN HISTWG UNKNOWN	14-Aug-07 MW02-17 UNKNOWN HISTWG UNKNOWN	28-Aug-08 MW02-17 UNKNOWN HISTWG UNKNOWN	9-Dec-08 MW02-17 UNKNOWN HISTWG UNKNOWN	19-May-09 MW02-17 UNKNOWN HISTWG UNKNOWN	20-Aug-09 MW02-17 UNKNOWN HISTWG UNKNOWN	20-Nov-09 MW02-17 UNKNOWN HISTWG UNKNOWN	19-Feb-10 MW02-17 UNKNOWN HISTWG UNKNOWN	4-Jun-10 MW02-17 UNKNOWN HISTWG UNKNOWN	27-Aug-10 MW02-17 UNKNOWN HISTWG UNKNOWN	30-Nov-10 MW02-17 UNKNOWN HISTWG UNKNOWN	26-Jul-11 MW02-17 UNKNOWN HISTWG UNKNOWN	27-Jun-12 MW02-17 UNKNOWN HISTWG UNKNOWN	21-Nov-12 MW02-17 UNKNOWN HISTWG UNKNOWN	3-Jul-13 MW02-17 UNKNOWN HISTWG UNKNOWN						
General Chemistry																							
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																							
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																							
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-17 (Continued)																			
Sample Date	Sample ID		4-May-07 MW02-17	14-Aug-07 MW02-17	28-Aug-08 MW02-17	9-Dec-08 MW02-17	19-May-09 MW02-17	20-Aug-09 MW02-17	20-Nov-09 MW02-17	19-Feb-10 MW02-17	4-Jun-10 MW02-17	27-Aug-10 MW02-17	30-Nov-10 MW02-17	26-Jul-11 MW02-17	27-Jun-12 MW02-17	21-Nov-12 MW02-17	3-Jul-13 MW02-17	11-Nov-13 MW02-17	8-May-14 MW02-17	24-Sep-14 MW02-17	14-Jul-15 MW02-17	26-Nov-15 MW02-17
Sampling Company	Laboratory	Laboratory Work Order	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID	Units	Ontario SCS	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN
Sample Type																						
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	3,600 ^A	6,600 ^A	1,500 ^A	480 ^A	1,500 ^A	1,200 ^A	4,900 ^A	9,700 ^A	2,200 ^A	2,100 ^A	170 ^A	820 ^A	1,600 ^A	270 ^A	660 ^A	1,900 ^A	250 ^A	1,200 ^A	490 ^A	500 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	1,200 ^A	1,100 ^A	900 ^A	690 ^A	1,000 ^A	810 ^A	410 ^A	510 ^A	170 ^A	220 ^A	47 ^A	110 ^A	270 ^A	150 ^A	520 ^A	760 ^A	68 ^A	770 ^A	430 ^A	250 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	1,200 ^A	1,300 ^A	730 ^A	370 ^A	720 ^A	510 ^A	550 ^A	930 ^A	190 ^A	630 ^A	48 ^A	79 ^A	210 ^A	100 ^A	310 ^A	560 ^A	61 ^A	520 ^A	270 ^A	230 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	610 ^A	950 ^A	130 ^A	28 ^A	61 ^A	66 ^A	190 ^A	180 ^A	250 ^A	150 ^A	48 ^A	23 ^A	92 ^A	16 ^A	84 ^A	560 ^A	22 ^A	150 ^A	96 ^A	97 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Ontario SCS	MW02-17 (Continued)															21-Feb-02 MW02-18 UNKNOWN UNKNOWN UNKNOWN	9-Jul-02 MW02-18 UNKNOWN UNKNOWN UNKNOWN	15-Jun-03 MW02-18 UNKNOWN UNKNOWN UNKNOWN	12-Nov-03 MW02-18 UNKNOWN UNKNOWN UNKNOWN	28-Aug-04 MW02-18 UNKNOWN UNKNOWN UNKNOWN	
			21-Apr-16 MW02-17 UNKNOWN HISTWG UNKNOWN	16-Aug-16 MW02-17 UNKNOWN HISTWG UNKNOWN	25-Apr-17 MW02-17 UNKNOWN HISTWG UNKNOWN	1-Aug-17 MW02-17 UNKNOWN HISTWG UNKNOWN	26-Oct-17 MW02-17 UNKNOWN HISTWG UNKNOWN	13-Aug-18 MW02-17 UNKNOWN HISTWG UNKNOWN	19-Sep-18 MW02-17 UNKNOWN HISTWG UNKNOWN	15-Apr-19 MW02-17 UNKNOWN HISTWG UNKNOWN	27-Aug-19 MW02-17 UNKNOWN HISTWG UNKNOWN	20-Nov-19 MW02-17 UNKNOWN HISTWG UNKNOWN	3-Jun-20 MW02-17 UNKNOWN HISTWG UNKNOWN	11-Aug-20 MW02-17 UNKNOWN HISTWG UNKNOWN	23-Sep-20 MW02-17 UNKNOWN HISTWG UNKNOWN	11-Dec-20 MW02-17 UNKNOWN HISTWG UNKNOWN	6-May-21 MW02-17 UNKNOWN HISTWG UNKNOWN						
General Chemistry																							
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																							
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																							
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-17 (Continued)																											
Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Sample Type	Units	Ontario SCS	21-Apr-16 MW02-17 UNKNOWN HISTWG UNKNOWN	16-Aug-16 MW02-17 UNKNOWN HISTWG UNKNOWN	25-Apr-17 MW02-17 UNKNOWN HISTWG UNKNOWN	1-Aug-17 MW02-17 UNKNOWN HISTWG UNKNOWN	26-Oct-17 MW02-17 UNKNOWN HISTWG UNKNOWN	13-Apr-18 MW02-17 UNKNOWN HISTWG UNKNOWN	19-Sep-18 MW02-17 UNKNOWN HISTWG UNKNOWN	15-Apr-19 MW02-17 UNKNOWN HISTWG UNKNOWN	27-Aug-19 MW02-17 UNKNOWN HISTWG UNKNOWN	20-Nov-19 MW02-17 UNKNOWN HISTWG UNKNOWN	3-Jun-20 MW02-17 UNKNOWN HISTWG UNKNOWN	11-Aug-20 MW02-17 UNKNOWN HISTWG UNKNOWN	23-Sep-20 MW02-17 UNKNOWN HISTWG UNKNOWN	11-Dec-20 MW02-17 UNKNOWN HISTWG UNKNOWN	6-May-21 MW02-17 UNKNOWN HISTWG UNKNOWN	21-Feb-02 MW02-18 UNKNOWN HISTWG UNKNOWN	9-Jul-02 MW02-18 UNKNOWN HISTWG UNKNOWN	15-Jun-03 MW02-18 UNKNOWN HISTWG UNKNOWN	12-Nov-03 MW02-18 UNKNOWN HISTWG UNKNOWN	28-Aug-04 MW02-18 UNKNOWN HISTWG UNKNOWN		
Volatile Organic Compounds																														
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	79 ^A	790 ^A	580 ^A	1,200 ^A	590 ^A	2,100 ^A	3,100 ^A	9,800 ^A	1,500 ^A	8,700 ^A	3,000 ^A	2,300 ^A	620 ^A	2,900 ^A	3,800 ^A	920 ^A	770 ^A	1,050 ^A	447 ^A	715 ^A								
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-18															MW02-18 (Continued)				
Sample Date			15-Jun-05	5-Dec-08	26-Jul-11	21-Nov-12	3-Jul-13	8-May-14	25-Nov-15	16-Aug-16	25-Apr-17	1-Aug-17	25-Oct-17	27-Feb-18	11-Apr-18	27-Aug-19	20-Nov-19	3-Jun-20	7-Aug-20	23-Sep-20	8-Dec-20	22-Feb-21
Sample ID			MW02-18	MW02-18	MW02-18	MW02-18	MW02-18	MW02-18	MW02-18	MW02-18	MW02-18	MW02-18	MW02-18	MW02-18	MW02-18	MW02-18	MW02-18	MW02-18	MW02-18	MW02-18	MW02-18	MW02-18
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-18															MW02-18 (Continued)				
Sample Date	Sample ID		15-Jun-05 MW02-18	5-Dec-08 MW02-18	26-Jul-11 MW02-18	21-Nov-12 MW02-18	3-Jul-13 MW02-18	8-May-14 MW02-18	25-Nov-15 MW02-18	16-Aug-16 MW02-18	25-Apr-17 MW02-18	1-Aug-17 MW02-18	25-Oct-17 MW02-18	27-Feb-18 MW02-18	11-Apr-18 MW02-18	27-Aug-19 MW02-18	20-Nov-19 MW02-18	3-Jun-20 MW02-18	7-Aug-20 MW02-18	23-Sep-20 MW02-18	8-Dec-20 MW02-18	22-Feb-21 MW02-18
Sampling Company	Laboratory	Laboratory Work Order	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID	Units	Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type																						
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	402 ^A	180 ^A	110 ^A	55 ^A	7.9 ^A	1.6	0.84	6.4 ^A	2.8 ^A	3.2 ^A	13 ^A	0.75	1.4	<0.50	2.5 ^A	5.7 ^A	100 ^A	12 ^A	3.2 ^A	3.8 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	7 ^A	15 ^A	<10	<0.25	340 ^A	1.6 ^A	1.7 ^A	12 ^A	1.5 ^A	0.41	0.37	0.22	0.31	<0.20	17 ^A	0.62 ^A	0.38	0.67 ^A	0.31	0.22
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	11.9 ^A	2 ^A	<10	3.7 ^A	10 ^A	1.4 ^A	<0.10	1.8 ^A	0.55 ^A	0.76 ^A	0.55 ^A	<0.20	0.27	0.80 ^A	0.95 ^A	0.41	0.54 ^A	0.32	<0.20	0.22
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	82.8 ^A	190 ^A	93 ^A	1.1 ^A	<4.0	<0.20	<0.20	<0.20	0.60 ^A	0.82 ^A	4.9 ^A	0.37	2.5 ^A	<0.20	0.58 ^A	2.4 ^A	80 ^A	0.38	1.6 ^A	1.4 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location				7-May-21	21-Feb-02	9-Jul-02	15-Jun-03	12-Nov-03	26-Aug-04	16-Jun-05	9-Dec-08	26-Jul-11	21-Nov-12	3-Jul-13	8-May-14	25-Nov-15	16-Aug-16	25-Apr-17	2-Aug-17	26-Oct-17	27-Feb-18	13-Apr-18	27-Aug-19
Sample Date				MW02-18	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19
Sampling Company				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order				HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																					
General Chemistry																							
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																							
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																							
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location										MW02-19												
Sample Date	Sample ID		7-May-21	21-Feb-02	9-Jul-02	15-Jun-03	12-Nov-03	26-Aug-04	16-Jun-05	9-Dec-08	26-Jul-11	21-Nov-12	3-Jul-13	8-May-14	25-Nov-15	16-Aug-16	25-Apr-17	2-Aug-17	26-Oct-17	27-Feb-18	13-Apr-18	27-Aug-19
Sampling Company	Laboratory		MW02-18	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19	MW02-19
Laboratory Work Order	Laboratory Sample ID		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.50	2,900 ^A	1,600 ^A	<0.1	3,100 ^A	2,210 ^A	885 ^A	52 ^A	4,500 ^A	2,400 ^A	1,300 ^A	150 ^A	1,400 ^A	1,000 ^A	1,100 ^A	1,100 ^A	2,100 ^A	1,900 ^A	2,300 ^A	15,000 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	0.30	2,700 ^A	500 ^A	657 ^A	580 ^A	35.9 ^A	31.4 ^A	<0.1	26 ^A	22 ^A	100 ^A	17 ^A	200 ^A	49 ^A	12 ^A	28 ^A	35 ^A	40 ^A	230 ^A	1,100 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	<0.20	960 ^A	280 ^A	265 ^A	470 ^A	35.1 ^A	34.1 ^A	2.2 ^A	350 ^A	38 ^A	200 ^A	28 ^A	300 ^A	120 ^A	16 ^A	54 ^A	96 ^A	140 ^A	470 ^A	1,300 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<0.20	850 ^A	700 ^A	266 ^A	693 ^A	1,460 ^A	986 ^A	46 ^A	120 ^A	350 ^A	160 ^A	17 ^A	92 ^A	12 ^A	83 ^A	3.7 ^A	16 ^A	190 ^A	80 ^A	3,200 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Ontario SCS	MW02-19 (Continued)								MW02-21								1-Dec-05 MW02-21 UNKNOWN UNKNOWN UNKNOWN UNKNOWN	16-Mar-06 MW02-21 UNKNOWN UNKNOWN UNKNOWN UNKNOWN	19-Jun-06 MW02-21 UNKNOWN UNKNOWN UNKNOWN UNKNOWN	5-Oct-06 MW02-21 UNKNOWN UNKNOWN UNKNOWN UNKNOWN	9-Jan-07 MW02-21 UNKNOWN UNKNOWN UNKNOWN UNKNOWN
			20-Nov-19 MW02-19	3-Jun-20 MW02-19	7-Aug-20 MW02-19	23-Sep-20 MW02-19	8-Dec-20 MW02-19	22-Feb-21 MW02-19	6-May-21 MW02-19	21-Feb-02 MW02-21	9-Jul-02 MW02-21	15-Jun-03 MW02-21	12-Nov-03 MW02-21	27-Aug-04 MW02-21	16-Dec-04 MW02-21	29-Apr-05 MW02-21	16-Jun-05 MW02-21						
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN						
			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG						
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN						
General Chemistry																							
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																							
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72 _{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 _{s7} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150 _{s15} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500 _{s8} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500 _{s10} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																							
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500 _{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-19 (Continued)								MW02-21												
Sample Date	Sample ID		20-Nov-19 MW02-19	3-Jun-20 MW02-19	7-Aug-20 MW02-19	23-Sep-20 MW02-19	8-Dec-20 MW02-19	22-Feb-21 MW02-19	6-May-21 MW02-19		21-Feb-02 MW02-21	9-Jul-02 MW02-21	15-Jun-03 MW02-21	12-Nov-03 MW02-21	27-Aug-04 MW02-21	16-Dec-04 MW02-21	29-Apr-05 MW02-21	16-Jun-05 MW02-21	1-Dec-05 MW02-21	16-Mar-06 MW02-21	19-Jun-06 MW02-21	5-Oct-06 MW02-21	9-Jan-07 MW02-21
Sampling Company	Laboratory		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order	Laboratory Sample ID		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Sample Type	Units	Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	6,600 ^A	3,400 ^A	5,200 ^A	5,100 ^A	2,600 ^A	130 ^A	1,700 ^A	210 ^A	320 ^A	272 ^A	192 ^A	309 ^A	168 ^A	281 ^A	196 ^A	200 ^A	180 ^A	190 ^A	210 ^A	190 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	1,000 ^A	96 ^A	98 ^A	87 ^A	41 ^A	2.4 ^A	23 ^A	39 ^A	100 ^A	62.6 ^A	118 ^A	155 ^A	84.6 ^A	86.3 ^A	118 ^A	98 ^A	66 ^A	83 ^A	110 ^A	73 ^A	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	950 ^A	170 ^A	180 ^A	170 ^A	68 ^A	4.3 ^A	42 ^A	55 ^A	100 ^A	66.3 ^A	94.8 ^A	176 ^A	88.9 ^A	64.7 ^A	127 ^A	100 ^A	69 ^A	100 ^A	110 ^A	78 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	650 ^A	430 ^A	700 ^A	840 ^A	200 ^A	770 ^A	580 ^A	29 ^A	20 ^A	16.8 ^A	5.1 ^A	11.1 ^A	3 ^A	87 ^A	10.1 ^A	8 ^A	24 ^A	8 ^A	10 ^A	11 ^A	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-21 (Continued)																				
Sample Date	Sample ID		4-May-07 MW02-21	14-Aug-07 MW02-21	4-Mar-08 MW02-21	28-Aug-08 MW02-21	25-Mar-09 MW02-21	15-May-09 MW02-21	21-Aug-09 MW02-21	20-Nov-09 MW02-21	19-Feb-10 MW02-21	3-Jun-10 MW02-21	27-Aug-10 MW02-21	29-Nov-10 MW02-21	17-Mar-11 MW02-21	27-Jul-11 MW02-21	19-Jun-12 MW02-21	23-Nov-12 MW02-21	26-Jun-13 MW02-21	12-Nov-13 MW02-21	7-May-14 MW02-21	24-Sep-14 MW02-21	
Sampling Company	Laboratory		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order	Laboratory Sample ID		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Sample Type	Units	Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	2,800 ^A	610 ^A	250 ^A	200 ^A	180 ^A	140 ^A	330 ^A	340 ^A	210 ^A	320 ^A	420 ^A	430 ^A	230 ^A	370 ^A	180 ^A	160 ^A	230 ^A	160 ^A	170 ^A	280 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	130 ^A	62 ^A	69 ^A	59 ^A	36 ^A	48 ^A	85 ^A	46 ^A	35 ^A	39 ^A	82 ^A	89 ^A	48 ^A	71 ^A	59 ^A	50 ^A	61 ^A	45 ^A	44 ^A	43 ^A	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	480 ^A	170 ^A	73 ^A	78 ^A	44 ^A	56 ^A	120 ^A	76 ^A	60 ^A	79 ^A	120 ^A	130 ^A	85 ^A	140 ^A	93 ^A	75 ^A	80 ^A	63 ^A	68 ^A	70 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	660 ^A	67 ^A	3 ^A	5 ^A	9 ^A	<1	6 ^A	16 ^A	2 ^A	12 ^A	7 ^A	<5	6 ^A	12 ^A	4.6 ^A	6.4 ^A	2.1 ^A	4.2 ^A	2.3 ^A	20 ^A	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Ontario SCS	MW02-21 (Continued)															9-Jul-02 MW02-22 UNKNOWN UNKNOWN HISTWG UNKNOWN	12-Sep-02 MW02-22 UNKNOWN UNKNOWN HISTWG UNKNOWN	15-Jun-03 MW02-22 UNKNOWN UNKNOWN HISTWG UNKNOWN	12-Nov-03 MW02-22 UNKNOWN UNKNOWN HISTWG UNKNOWN	2-Sep-04 MW02-22 UNKNOWN UNKNOWN HISTWG UNKNOWN	
			14-Jul-15 MW02-21 UNKNOWN UNKNOWN HISTWG UNKNOWN	23-Nov-15 MW02-21 UNKNOWN UNKNOWN HISTWG UNKNOWN	20-Apr-16 MW02-21 UNKNOWN UNKNOWN HISTWG UNKNOWN	17-Aug-16 MW02-21 UNKNOWN UNKNOWN HISTWG UNKNOWN	24-Apr-17 MW02-21 UNKNOWN UNKNOWN HISTWG UNKNOWN	3-Aug-17 MW02-21 UNKNOWN UNKNOWN HISTWG UNKNOWN	25-Oct-17 MW02-21 UNKNOWN UNKNOWN HISTWG UNKNOWN	1-Mar-18 MW02-21 UNKNOWN UNKNOWN HISTWG UNKNOWN	9-Apr-18 MW02-21 UNKNOWN UNKNOWN HISTWG UNKNOWN	19-Sep-18 MW02-21 UNKNOWN UNKNOWN HISTWG UNKNOWN	16-Apr-19 MW02-21 UNKNOWN UNKNOWN HISTWG UNKNOWN	26-Nov-19 MW02-21 UNKNOWN UNKNOWN HISTWG UNKNOWN	28-Jul-20 MW02-21 UNKNOWN UNKNOWN HISTWG UNKNOWN	19-Oct-20 MW02-21 UNKNOWN UNKNOWN HISTWG UNKNOWN	27-Apr-21 MW02-21 UNKNOWN UNKNOWN HISTWG UNKNOWN						
General Chemistry																							
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																							
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72 ^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^A _{s7}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150 ^A _{s15}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500 ^A _{s8}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500 ^A _{s10}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																							
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500 ^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-21 (Continued)																			
Sample Date	Sample ID		14-Jul-15 MW02-21	23-Nov-15 MW02-21	20-Apr-16 MW02-21	17-Aug-16 MW02-21	24-Apr-17 MW02-21	3-Aug-17 MW02-21	25-Oct-17 MW02-21	1-Mar-18 MW02-21	9-Apr-18 MW02-21	19-Sep-18 MW02-21	16-Apr-19 MW02-21	26-Nov-19 MW02-21	28-Jul-20 MW02-21	19-Oct-20 MW02-21	27-Apr-21 MW02-21	9-Jul-02 MW02-22	12-Sep-02 MW02-22	15-Jun-03 MW02-22	12-Nov-03 MW02-22	2-Sep-04 MW02-22
Sampling Company	Laboratory	Units	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order	Laboratory Sample ID		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Sample Type		Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	170 ^A	220 ^A	150 ^A	74 ^A	110 ^A	140 ^A	200 ^A	150 ^A	160 ^A	230 ^A	1,200 ^A	49 ^A	280 ^A	1,800 ^A	2,100 ^A	180 ^A	180 ^A	89.2 ^A	35.4 ^A	86.6 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	16 ^A	28 ^A	11 ^A	9.5 ^A	13 ^A	68 ^A	9.0 ^A	17 ^A	18 ^A	13 ^A	0.92 ^A	0.43	0.36	0.31	<0.20	7 ^A	12 ^A	27.5 ^A	5.2 ^A	5.7 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	24 ^A	47 ^A	22 ^A	11 ^A	29 ^A	7.0 ^A	25 ^A	37 ^A	51 ^A	33 ^A	1.5 ^A	0.51 ^A	0.52 ^A	3.0 ^A	1.2 ^A	46 ^A	66 ^A	35 ^A	11.6 ^A	60.7 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	19 ^A	8.5 ^A	33 ^A	11 ^A	41 ^A	31 ^A	39 ^A	44 ^A	36 ^A	59 ^A	2,000 ^A	81 ^A	730 ^A	3,400 ^A	2,600 ^A	10 ^A	7 ^A	8.3 ^A	1.7 ^A	2.6 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-22																								
Sample Date			29-Apr-05	2-Dec-05	16-Mar-06	19-Jun-06	5-Oct-06	9-Jan-07	4-May-07	14-Aug-07	4-Mar-08	28-Aug-08	5-Dec-08	25-Mar-09	19-May-09	20-Aug-09	20-Nov-09	19-Feb-10	3-Jun-10	27-Aug-10	17-Mar-11	24-Sep-14					
Sample ID			MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22					
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN					
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN					
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG					
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN					
Sample Type	Units	Ontario SCS																									
General Chemistry																											
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Petroleum Hydrocarbons																											
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Metals, Dissolved																											
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Polycyclic Aromatic Hydrocarbons																											
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-22																											
Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Sample Type	Units	Ontario SCS	29-Apr-05 MW02-22 UNKNOWN HISTWG UNKNOWN	2-Dec-05 MW02-22 UNKNOWN HISTWG UNKNOWN	16-Mar-06 MW02-22 UNKNOWN HISTWG UNKNOWN	19-Jun-06 MW02-22 UNKNOWN HISTWG UNKNOWN	5-Oct-06 MW02-22 UNKNOWN HISTWG UNKNOWN	9-Jan-07 MW02-22 UNKNOWN HISTWG UNKNOWN	4-May-07 MW02-22 UNKNOWN HISTWG UNKNOWN	14-Aug-07 MW02-22 UNKNOWN HISTWG UNKNOWN	4-Mar-08 MW02-22 UNKNOWN HISTWG UNKNOWN	28-Aug-08 MW02-22 UNKNOWN HISTWG UNKNOWN	5-Dec-08 MW02-22 UNKNOWN HISTWG UNKNOWN	25-Mar-09 MW02-22 UNKNOWN HISTWG UNKNOWN	19-May-09 MW02-22 UNKNOWN HISTWG UNKNOWN	20-Aug-09 MW02-22 UNKNOWN HISTWG UNKNOWN	20-Nov-09 MW02-22 UNKNOWN HISTWG UNKNOWN	19-Feb-10 MW02-22 UNKNOWN HISTWG UNKNOWN	3-Jun-10 MW02-22 UNKNOWN HISTWG UNKNOWN	27-Aug-10 MW02-22 UNKNOWN HISTWG UNKNOWN	17-Mar-11 MW02-22 UNKNOWN HISTWG UNKNOWN	24-Sep-14 MW02-22 UNKNOWN HISTWG UNKNOWN		
Volatile Organic Compounds																														
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	61.4 ^A	110 ^A	99 ^A	150 ^A	200 ^A	130 ^A	150 ^A	49 ^A	71 ^A	38 ^A	56 ^A	30 ^A	<0.1	35 ^A	<0.1	61 ^A	<0.1	67 ^A	37 ^A	15 ^A								
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	12.4 ^A	22 ^A	26 ^A	56 ^A	94 ^A	50 ^A	25 ^A	31 ^A	35 ^A	16 ^A	9.5 ^A	4.7 ^A	0.1	4.1 ^A	<0.1	4.8 ^A	<0.1	8.2 ^A	1.9 ^A	1.5 ^A								
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	28.1 ^A	110 ^A	110 ^A	98 ^A	130 ^A	87 ^A	49 ^A	37 ^A	70 ^A	56 ^A	58 ^A	30 ^A	0.4	23 ^A	0.1	39 ^A	0.2	62 ^A	26 ^A	14 ^A								
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	7 ^A	7 ^A	7.0 ^A	6 ^A	10 ^A	<1	1.4 ^A	1.1 ^A	3.8 ^A	0.9 ^A	1.7 ^A	0.6 ^A	<0.2	0.7 ^A	<0.2	0.7 ^A	<0.2	2.2 ^A	1.0 ^A	0.45								

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			MW02-22 (Continued)													
			14-Jul-15 MW02-22 UNKNOWN UNKNOWN HISTWG UNKNOWN	23-Nov-15 MW02-22 UNKNOWN HISTWG UNKNOWN	20-Apr-16 MW02-22 UNKNOWN HISTWG UNKNOWN	17-Aug-16 MW02-22 UNKNOWN HISTWG UNKNOWN	3-Aug-17 MW02-22 UNKNOWN HISTWG UNKNOWN	27-Oct-17 MW02-22 UNKNOWN HISTWG UNKNOWN	11-Apr-18 MW02-22 UNKNOWN HISTWG UNKNOWN	19-Sep-18 MW02-22 UNKNOWN HISTWG UNKNOWN	17-Apr-19 MW02-22 UNKNOWN HISTWG UNKNOWN	21-Nov-19 MW02-22 UNKNOWN HISTWG UNKNOWN	28-Jul-20 MW02-22 UNKNOWN HISTWG UNKNOWN	19-Oct-20 MW02-22 UNKNOWN HISTWG UNKNOWN	28-Apr-21 MW02-22 UNKNOWN HISTWG UNKNOWN	
General Chemistry																
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72 ^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^A _{s7}	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150 ^A _{s15}	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500 ^A _{s8}	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500 ^A _{s10}	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500 ^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-22 (Continued)													
Sample Date			14-Jul-15	23-Nov-15	20-Apr-16	17-Aug-16	3-Aug-17	27-Oct-17	11-Apr-18	19-Sep-18	17-Apr-19	21-Nov-19	28-Jul-20	19-Oct-20	28-Apr-21	
Sample ID			MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	MW02-22	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS														
Volatile Organic Compounds																
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	8.9 ^A	58 ^A	17 ^A	22 ^A	26 ^A	27 ^A	29 ^A	50 ^A	9.4 ^A	49 ^A	33 ^A	56 ^A	33 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	0.56 ^A	1.7 ^A	1.3 ^A	1.2 ^A	0.78 ^A	5.5 ^A	1.7 ^A	1.2 ^A	0.48	0.55 ^A	0.79 ^A	0.74 ^A	0.65 ^A	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	6.4 ^A	53 ^A	30 ^A	27 ^A	31 ^A	15 ^A	55 ^A	43 ^A	18 ^A	19 ^A	52 ^A	44 ^A	37 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	0.23	0.92 ^A	<0.20	1.2 ^A	0.62 ^A	0.65 ^A	0.67 ^A	0.87 ^A	0.31	0.70 ^A	1.3 ^A	0.85 ^A	0.58 ^A	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location				MW02-23																MW02-24			
Sample Date			9-Jul-02	12-Sep-02	15-Jun-03	12-Nov-03	27-Aug-04	16-Dec-04	16-Jun-05	25-Mar-09	20-Aug-09	27-Aug-10	26-Jul-11	18-Oct-11	26-Jun-13	17-Aug-16	19-Sep-18	27-Apr-21	9-Jul-02	12-Sep-02	15-Jun-03	12-Nov-03	
Sample ID			MW02-23	MW02-23	MW02-23	MW02-23	MW02-23	MW02-23	MW02-23	MW02-23	MW02-23	MW02-23	MW02-23	MW02-23	MW02-23	MW02-23	MW02-23	MW02-23	MW02-24	MW02-24	MW02-24	MW02-24	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS																					
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	13 ^A	52 ^A	54.3 ^A	24.8 ^A	87.9 ^A	80.2 ^A	75.1 ^A	70 ^A	87 ^A	140 ^A	19,000 ^A	100 ^A	79 ^A	36 ^A	30 ^A	1.3	200 ^A	110 ^A	76.1 ^A	97.8 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	1 ^A	<0.5	3 ^A	7.2 ^A	23.1 ^A	21.9 ^A	23.3 ^A	15 ^A	16 ^A	23 ^A	2,600 ^A	20 ^A	12 ^A	7.4 ^A	6.0 ^A	0.23	37 ^A	15 ^A	9.7 ^A	15 ^A	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	2 ^A	1.6 ^A	7.6 ^A	8.1 ^A	31.8 ^A	31.7 ^A	31.9 ^A	20 ^A	24 ^A	40 ^A	4,000 ^A	34 ^A	22 ^A	9.9 ^A	9.8 ^A	1.3 ^A	43 ^A	14 ^A	14.9 ^A	22.3 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	<0.5	<0.5	<0.4	<0.2	0.2	<1	<1	<0.2	<0.4	<0.2	<20	<2	<1.0	<0.20	<0.20	0.20	36 ^A	29 ^A	9.3 ^A	10.1 ^A	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type		Units	Ontario SCS	MW02-24 (Continued)																				
				30-Aug-04	9-Dec-05	17-Mar-06	20-Jun-06	5-Oct-06	9-Jan-07	4-May-07	14-Aug-07	4-Mar-08	27-Aug-08	5-Dec-08	19-Feb-09	15-May-09	20-Aug-09	23-Nov-09	19-Feb-10	3-Jun-10	27-Aug-10	30-Nov-10	17-Mar-11	
				MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24
				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
				HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN			
General Chemistry																								
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																								
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72 ^{s1A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^{s7A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150 ^{s15A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500 ^{s8A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500 ^{s10A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																								
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																								
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500 ^{s3A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location												MW02-24 (Continued)																
Sample Date	Sample ID		30-Aug-04	9-Dec-05	17-Mar-06	20-Jun-06	5-Oct-06	9-Jan-07	4-May-07	14-Aug-07	4-Mar-08	27-Aug-08	5-Dec-08	19-Feb-09	15-May-09	20-Aug-09	23-Nov-09	19-Feb-10	3-Jun-10	27-Aug-10	30-Nov-10	17-Mar-11						
Sampling Company	Laboratory		MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24						
Laboratory Work Order	Laboratory Sample ID		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN						
Sample Type	Units	Ontario SCS	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG						
Volatile Organic Compounds																												
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	38.1 ^A	6.0 ^A	3.2 ^A	3.1 ^A	3.2 ^A	2.2 ^A	6.6 ^A	5.0 ^A	3.0 ^A	3.3 ^A	7.4 ^A	12 ^A	3.6 ^A	4.9 ^A	4.1 ^A	4.5 ^A	3.7 ^A	3.2 ^A	2.2 ^A	5.9 ^A						
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Tetrachloroethene (PCE)	µg/L	0.5 ^A	9.5 ^A	0.8 ^A	0.4	0.4	0.7 ^A	0.4	0.8 ^A	0.9 ^A	1.0 ^A	1.0 ^A	0.7 ^A	16 ^A	0.5	37 ^A	6.0 ^A	0.5	0.4	0.3	0.5	1.2 ^A						
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Trichloroethene (TCE)	µg/L	0.5 ^A	16.9 ^A	1.1 ^A	0.5	0.5	0.6 ^A	0.4	1.4 ^A	1.3 ^A	1.4 ^A	2.0 ^A	0.7 ^A	2.8 ^A	0.6 ^A	1.7 ^A	0.9 ^A	0.9 ^A	0.9 ^A	0.9 ^A	1.1 ^A	2.7 ^A						
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Vinyl Chloride	µg/L	0.5 ^A	3.9 ^A	3.9 ^A	2.9 ^A	3.2 ^A	3.3 ^A	3.3 ^A	3.9 ^A	3.6 ^A	2.3 ^A	2.5 ^A	4.6 ^A	5.0 ^A	1.7 ^A	2.1 ^A	4.0 ^A	1.3 ^A	2.7 ^A	3.1 ^A	1.2 ^A	2.3 ^A						

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location												MW02-24 (Continued)											
Sample Date	Sample ID		26-Jul-11	20-Jun-12	23-Nov-12	2-Jul-13	12-Nov-13	6-May-14	24-Sep-14	15-Jul-15	26-Nov-15	20-Apr-16	15-Aug-16	25-Apr-17	2-Aug-17	26-Oct-17	18-Apr-18	18-Sep-18	17-Apr-19	29-Aug-19	21-Nov-19	3-Jun-20	
Sampling Company	Laboratory		MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	
Laboratory Work Order	Laboratory Sample ID		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	2.7 ^A	3.3 ^A	8.3 ^A	2.4 ^A	1.2	1.3	1.6	3.1 ^A	<0.10	2.1 ^A	3.9 ^A	1.7 ^A	2.4 ^A	2.7 ^A	2.1 ^A	2.2 ^A	2.0 ^A	2.2 ^A	2.1 ^A	2.1 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	0.6 ^A	2.2 ^A	0.82 ^A	15 ^A	0.12	0.21	<0.20	0.47	<0.10	0.48	0.42	<0.20	0.27	0.31	0.24	0.39	0.27	0.34	0.30	0.27	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	1.0 ^A	2.1 ^A	1.9 ^A	1.0 ^A	0.29	0.57 ^A	0.62 ^A	1.6 ^A	<0.10	0.93 ^A	1.7 ^A	0.82 ^A	1.4 ^A	1.7 ^A	1.2 ^A	1.6 ^A	1.2 ^A	1.6 ^A	1.4 ^A	1.4 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	<0.2	2.4 ^A	4.8 ^A	1.2 ^A	2.4 ^A	1.3 ^A	1.7 ^A	1.4 ^A	<0.20	0.82 ^A	2.2 ^A	0.48	0.66 ^A	0.81 ^A	0.51 ^A	0.34	0.40	0.35	0.31	0.35	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-24 (Continued)					MW02-25			MW02-26											
Sample Date			6-Aug-20	22-Sep-20	15-Oct-20	11-Dec-20	23-Feb-21	9-Jul-02	12-Sep-02	15-Jun-03	9-Jul-02	12-Sep-02	13-Dec-02	15-Jun-03	12-Nov-03	27-Aug-04	16-Jun-05	5-Dec-08	3-Jul-13	25-Sep-14	25-Nov-15	15-Aug-16
Sample ID			MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-25	MW02-25	MW02-25	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-24 (Continued)					MW02-25			MW02-26											
Sample Date			6-Aug-20	22-Sep-20	15-Oct-20	11-Dec-20	23-Feb-21	9-Jul-02	12-Sep-02	15-Jun-03	9-Jul-02	12-Sep-02	13-Dec-02	15-Jun-03	12-Nov-03	27-Aug-04	16-Jun-05	5-Dec-08	3-Jul-13	25-Sep-14	25-Nov-15	15-Aug-16
Sample ID			MW02-24	MW02-24	MW02-24	MW02-24	MW02-24	MW02-25	MW02-25	MW02-25	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	2.3 ^A	2.1 ^A	2.2 ^A	2.4 ^A	2.0 ^A	0.8	3.6 ^A	0.6	230 ^A	1,800 ^A	880 ^A	361 ^A	133 ^A	744 ^A	375 ^A	410 ^A	41 ^A	270 ^A	78 ^A	52 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	0.30	0.29	0.35	0.31	0.47	1 ^A	2 ^A	0.8 ^A	100 ^A	670 ^A	630 ^A	362 ^A	162 ^A	739 ^A	332 ^A	75 ^A	8.4 ^A	8.3 ^A	4.7 ^A	4.3 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	1.6 ^A	1.3 ^A	1.7 ^A	1.5 ^A	1.9 ^A	<0.4	4.8 ^A	0.7 ^A	300 ^A	2,900 ^A	1,900 ^A	944 ^A	304 ^A	1,680 ^A	846 ^A	300 ^A	19 ^A	17 ^A	7.8 ^A	7.0 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	0.46	0.36	0.36	0.34	0.37	<0.5	<0.5	0.3	8 ^A	<5	<30	<8	<4	<20	<10	5 ^A	5.2 ^A	12 ^A	<0.20	<2.0

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-26 (Continued)											MW02-27								
Sample Date			25-Apr-17	2-Aug-17	24-Oct-17	29-Aug-19	28-Nov-19	4-Jun-20	11-Aug-20	22-Sep-20	11-Dec-20	23-Feb-21	6-May-21	9-Jul-02	12-Sep-02	15-Jun-03	12-Nov-03	26-Aug-04	16-Jun-05	2-Dec-05	19-Jun-06	5-Oct-06
Sample ID			MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-26	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-26 (Continued)											MW02-27									
Sample Date	Sample ID		25-Apr-17	2-Aug-17	24-Oct-17	29-Aug-19	28-Nov-19	4-Jun-20	11-Aug-20	22-Sep-20	11-Dec-20	23-Feb-21	6-May-21	9-Jul-02	12-Sep-02	15-Jun-03	12-Nov-03	26-Aug-04	16-Jun-05	2-Dec-05	19-Jun-06	5-Oct-06	
Sampling Company	Laboratory		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order	Laboratory Sample ID		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	91 ^A	85 ^A	89 ^A	28 ^A	27 ^A	14 ^A	21 ^A	18 ^A	36 ^A	17 ^A	36 ^A	<0.4	<0.4	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	5.9 ^A	15 ^A	110 ^A	0.21	0.58 ^A	0.45	0.51 ^A	0.77 ^A	1.0 ^A	0.35	<0.20	<0.5	<0.5	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	6.6 ^A	25 ^A	16 ^A	1.1 ^A	3.0 ^A	2.4 ^A	1.7 ^A	1.9 ^A	4.0 ^A	1.3 ^A	0.46	<0.4	<0.4	<0.1	0.2	0.2	<0.1	<0.1	<0.1	<0.1	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	3.6 ^A	0.21	0.73 ^A	26 ^A	22 ^A	15 ^A	16 ^A	19 ^A	76 ^A	10 ^A	24 ^A	<0.5	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type		Units	Ontario SCS	MW02-27 (Continued)																				
				9-Jan-07	4-May-07	14-Aug-07	4-Mar-08	27-Aug-08	9-Dec-08	19-Feb-09	15-May-09	20-Aug-09	20-Nov-09	19-Feb-10	3-Jun-10	27-Aug-10	1-Dec-10	17-Mar-11	27-Jul-11	19-Jun-12	21-Nov-12	3-Jul-13	11-Nov-13	
				MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27
				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
				HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
General Chemistry																								
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																								
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72 ^{s1A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^{s7A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150 ^{s15A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500 ^{s8A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500 ^{s10A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																								
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																								
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500 ^{s3A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location				9-Jan-07	4-May-07	14-Aug-07	4-Mar-08	27-Aug-08	9-Dec-08	19-Feb-09	15-May-09	20-Aug-09	20-Nov-09	19-Feb-10	3-Jun-10	27-Aug-10	1-Dec-10	17-Mar-11	27-Jul-11	19-Jun-12	21-Nov-12	3-Jul-13	11-Nov-13
Sample Date				MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27
Sample ID				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sampling Company				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory				HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Work Order				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type		Units	Ontario SCS																				
MW02-27 (Continued)																							
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A		<0.1	<0.1	<0.1	<0.1	<0.1	0.7	<0.1	<0.1	<0.1	7.2 ^A	<0.1	0.3	<0.1	<0.1	<0.1	<0.1	1.1	<0.10	1.4	<0.10
Dichloroethene, trans-1,2-	µg/L	1.6 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A		<0.1	<0.1	0.1	<0.1	<0.1	44 ^A	<0.1	<0.1	<0.1	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.9 ^A	0.17	0.23	<0.10
Trichloroethane, 1,1,1-	µg/L	23 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A		<0.1	<0.1	0.1	<0.1	<0.1	0.8 ^A	<0.1	<0.1	<0.1	0.6 ^A	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	3.2 ^A	0.11	0.54 ^A	<0.10
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A		<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	0.22	<0.20

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-27 (Continued)																	MW02-28		
Sample Date			8-May-14	24-Sep-14	14-Jul-15	25-Nov-15	20-Apr-16	16-Aug-16	1-Aug-17	25-Oct-17	11-Apr-18	18-Sep-18	16-Apr-19	20-Nov-19	10-Aug-20	16-Oct-20	27-Apr-21	9-Jul-02	12-Sep-02	15-Jun-03		
Sample ID			MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-27	MW02-28	MW02-28	MW02-28		
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG		
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylenes, Total	µg/L	72 _{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 _{s7} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F2 (>C10-C16 range)	µg/L	150 _{s15} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F3 (>C16-C34 range)	µg/L	500 _{s8} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F4 (>C34-C50 range)	µg/L	500 _{s10} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene (Total)	µg/L	1,500 _{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-27 (Continued)															MW02-28		
Sample Date	Sample ID		8-May-14 MW02-27	24-Sep-14 MW02-27	14-Jul-15 MW02-27	25-Nov-15 MW02-27	20-Apr-16 MW02-27	16-Aug-16 MW02-27	1-Aug-17 MW02-27	25-Oct-17 MW02-27	11-Apr-18 MW02-27	18-Sep-18 MW02-27	16-Apr-19 MW02-27	20-Nov-19 MW02-27	10-Aug-20 MW02-27	16-Oct-20 MW02-27	27-Apr-21 MW02-27	9-Jul-02 MW02-28	12-Sep-02 MW02-28	15-Jun-03 MW02-28
Sampling Company	Laboratory	Laboratory Work Order	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID	Units	Ontario SCS	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Sample Type			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Volatile Organic Compounds																				
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.10	<0.50	<0.50	<0.10	<0.10	<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	2.8 ^A	6.4 ^A	6 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.10	<0.20	0.27	<0.10	0.26	<0.10	<0.20	<0.20	0.21	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	11 ^A	16 ^A	18.1 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	<0.10	<0.20	<0.20	<0.10	<0.10	<0.10	<0.20	0.29	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	3.2 ^A	4.8 ^A	5.9 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.5	<0.5	<0.2

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-29			MW02-30			MW02-31								MW02-32					
Sample Date			9-Jul-02	12-Sep-02	15-Jun-03	9-Jul-02	15-Jun-03	12-Nov-03	13-Dec-02	15-Jun-03	12-Nov-03	15-Jun-05	9-Dec-08	21-Aug-09	28-Aug-10	27-Jul-11	23-Nov-12	18-Aug-16	13-Dec-02	15-Jun-03	12-Nov-03	29-Apr-05
Sample ID			MW02-29	MW02-29	MW02-29	MW02-30	MW02-30	MW02-30	MW02-31	MW02-31	MW02-31	MW02-31	MW02-31	MW02-31	MW02-31	MW02-31	MW02-31	MW02-31	MW02-32	MW02-32	MW02-32	MW02-32
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-29			MW02-30			MW02-31								MW02-32					
Sample Date			9-Jul-02	12-Sep-02	15-Jun-03	9-Jul-02	15-Jun-03	12-Nov-03	13-Dec-02	15-Jun-03	12-Nov-03	15-Jun-05	9-Dec-08	21-Aug-09	28-Aug-10	27-Jul-11	23-Nov-12	18-Aug-16	13-Dec-02	15-Jun-03	12-Nov-03	29-Apr-05
Sample ID			MW02-29	MW02-29	MW02-29	MW02-30	MW02-30	MW02-30	MW02-31	MW02-31	MW02-31	MW02-31	MW02-31	MW02-31	MW02-31	MW02-31	MW02-31	MW02-31	MW02-32	MW02-32	MW02-32	MW02-32
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.4	<0.4	<0.1	110 ^A	489 ^A	190 ^A	<0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.2	<0.5	<0.10	<0.10	25 ^A	751 ^A	120 ^A	691 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.5	<0.5	<0.1	38 ^A	54.9 ^A	68.8 ^A	<0.5	<0.1	<0.1	<0.1	<0.1	<0.1	0.3	<0.5	<0.10	<0.10	12 ^A	49 ^A	30.6 ^A	40.3 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	<0.4	<0.4	<0.1	31 ^A	106 ^A	107 ^A	0.4	0.1	0.2	<0.1	<0.1	<0.1	<0.2	<0.5	<0.10	<0.10	18 ^A	241 ^A	86.3 ^A	94.3 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<0.5	<0.5	<0.2	26 ^A	14.8 ^A	<2	<0.5	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<1	<0.20	<0.20	<0.5	69.1 ^A	<1	72 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-32 (Continued)										MW02-33									
Sample Date			2-Dec-05	17-Mar-06	5-Oct-06	9-Jan-07	17-Mar-11	2-Aug-17	18-Apr-18	29-Nov-18	17-Apr-19	8-Dec-20	13-Dec-02	15-Jun-03	12-Nov-03	27-Aug-04	2-Dec-05	17-Mar-06	19-Jun-06	5-Oct-06	12-Jan-07	23-May-07
Sample ID			MW02-32	MW02-32	MW02-32	MW02-32	MW02-32	MW02-32	MW02-32	MW02-32	MW02-32	MW02-32	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 _{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 _{s7} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 _{s15} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 _{s9} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 _{s10} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 _{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location				MW02-32 (Continued)										MW02-33									
Sample Date	Sample ID			2-Dec-05 MW02-32	17-Mar-06 MW02-32	5-Oct-06 MW02-32	9-Jan-07 MW02-32	17-Mar-11 MW02-32	2-Aug-17 MW02-32	18-Apr-18 MW02-32	29-Nov-18 MW02-32	17-Apr-19 MW02-32	8-Dec-20 MW02-32	13-Dec-02 MW02-33	15-Jun-03 MW02-33	12-Nov-03 MW02-33	27-Aug-04 MW02-33	2-Dec-05 MW02-33	17-Mar-06 MW02-33	19-Jun-06 MW02-33	5-Oct-06 MW02-33	12-Jan-07 MW02-33	23-May-07 MW02-33
Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	120 ^A	90 ^A	89 ^A	80 ^A	23 ^A	330 ^A	82 ^A	0.82	39 ^A	5.5 ^A	6.8 ^A	5.8 ^A	1.7 ^A	0.7	88 ^A	6.8 ^A	2.0 ^A	2.1 ^A	0.9	0.8	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	33 ^A	31 ^A	32 ^A	28 ^A	6.2 ^A	11 ^A	11,000 ^A	43 ^A	21 ^A	6.2 ^A	1.5 ^A	0.2	<0.1	<0.1	4.2 ^A	5.0 ^A	0.5	0.6 ^A	<0.1	<0.1	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	64 ^A	53 ^A	58 ^A	53 ^A	9.6 ^A	54 ^A	240 ^A	0.61 ^A	8.8 ^A	6.4 ^A	2.8 ^A	1.3 ^A	0.7 ^A	0.4	2.7 ^A	1.3 ^A	0.6 ^A	0.8 ^A	0.3	0.3	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<1	<0.8	<1	<1	<0.5	15 ^A	24 ^A	<0.20	0.29	<0.20	5.5 ^A	0.3	0.2	<0.2	160 ^A	3.2 ^A	2.9 ^A	<0.2	<0.2	<0.2	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Ontario SCS	MW02-33 (Continued)																			
			28-Aug-08	28-Aug-10	17-Mar-11	4-Jul-13	12-Nov-13	8-May-14	25-Sep-14	15-Jul-15	25-Nov-15	21-Apr-16	16-Aug-16	25-Apr-17	4-Aug-17	27-Oct-17	18-Apr-18	19-Sep-18	17-Apr-19	29-Aug-19	4-Jun-20	6-Aug-20
			MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location												MW02-33 (Continued)															
Sample Date	Sample ID		28-Aug-08	28-Aug-10	17-Mar-11	4-Jul-13	12-Nov-13	8-May-14	25-Sep-14	15-Jul-15	25-Nov-15	21-Apr-16	16-Aug-16	25-Apr-17	4-Aug-17	27-Oct-17	18-Apr-18	19-Sep-18	17-Apr-19	29-Aug-19	4-Jun-20	6-Aug-20					
Sampling Company	Laboratory		MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33	MW02-33					
Laboratory Work Order	Laboratory Sample ID		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN					
Sample Type	Units	Ontario SCS	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG					
Volatile Organic Compounds																											
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.1	3.7 ^A	<0.3	<0.10	1.8 ^A	0.83	0.82	2,900 ^A	3.3 ^A	21 ^A	3.6 ^A	2.8 ^A	0.58	5.3 ^A	<0.50	1.3	2,300 ^A	6.0 ^A	1.7 ^A	1.7 ^A					
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloropropene, cis-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloropropene, trans-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.1	0.1	<0.3	<0.10	<0.10	0.24	0.43	18 ^A	0.60 ^A	25 ^A	1.8 ^A	6.2 ^A	1.2 ^A	1.9 ^A	1.1 ^A	1.2 ^A	0.24	0.40	<0.20	0.31					
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Trichloroethene (TCE)	µg/L	0.5 ^A	<0.1	0.6 ^A	<0.3	<0.10	0.43	0.38	0.36	21 ^A	<0.10	6.8 ^A	1.1 ^A	2.7 ^A	0.52 ^A	2.0 ^A	0.36	0.79 ^A	0.35	1.9 ^A	2.0 ^A	1.2 ^A					
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Vinyl Chloride	µg/L	0.5 ^A	<0.2	0.2	<0.5	<0.20	<0.20	<0.20	<0.20	290 ^A	2.3 ^A	17 ^A	0.89 ^A	0.24	<0.20	2.6 ^A	<0.20	0.37	1,300 ^A	2.0 ^A	<0.20	0.38					

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-33 (Continued)			MW03-34					MW03-40						MW03-41					
Sample Date			11-Dec-20	23-Feb-21	6-May-21	1-May-03	15-Jun-03	12-Nov-03	27-Aug-04	16-Jun-05	16-Jun-03	12-Nov-03	30-Aug-04	16-Jun-05	27-Jul-11	27-Jun-13	16-Jun-03	12-Nov-03	30-Aug-04	16-Dec-04	29-Apr-05	15-Jun-05
Sample ID			MW02-33	MW02-33	MW02-33	MW03-34	MW03-34	MW03-34	MW03-34	MW03-34	MW03-40	MW03-40	MW03-40	MW03-40	MW03-40	MW03-40	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW02-33 (Continued)			MW03-34					MW03-40						MW03-41					
Sample Date			11-Dec-20	23-Feb-21	6-May-21	1-May-03	15-Jun-03	12-Nov-03	27-Aug-04	16-Jun-05	16-Jun-03	12-Nov-03	30-Aug-04	16-Jun-05	27-Jul-11	27-Jun-13	16-Jun-03	12-Nov-03	30-Aug-04	16-Dec-04	29-Apr-05	15-Jun-05
Sample ID			MW02-33	MW02-33	MW02-33	MW03-34	MW03-34	MW03-34	MW03-34	MW03-34	MW03-40	MW03-40	MW03-40	MW03-40	MW03-40	MW03-40	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	2.0 ^A	2.3 ^A	1.1	2,080 ^A	961 ^A	2,120 ^A	1,670 ^A	1,090 ^A	<0.1	0.1	0.3	<0.1	<0.1	0.55	0.6	0.2	83.2 ^A	25 ^A	3.6 ^A	6.4 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	0.37	0.42	0.20	27,700 ^A	67,900 ^A	14,200 ^A	43,000 ^A	78,500 ^A	<0.1	0.3	1.1 ^A	0.1	0.2	0.37	1.1 ^A	0.3	11.2 ^A	7.5 ^A	3.5 ^A	6.3 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	0.78 ^A	0.93 ^A	0.29	5,040 ^A	2,610 ^A	1,460 ^A	1,970 ^A	1,360 ^A	0.2	0.4	1.6 ^A	0.1	0.1	0.28	0.4	0.2	15.5 ^A	10 ^A	1.9 ^A	4.2 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	0.62 ^A	0.96 ^A	0.75 ^A	127 ^A	<200	145 ^A	<400	<1,000	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.4	6.4 ^A	0.7 ^A	<0.2	0.2

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Ontario SCS	MW03-41 (Continued)																			
			2-Dec-05	16-Mar-06	19-Jun-06	5-Oct-06	9-Jan-07	4-May-07	4-Mar-08	27-Aug-08	25-Mar-09	15-May-09	21-Aug-09	20-Nov-09	19-Feb-10	3-Jun-10	27-Aug-10	29-Nov-10	17-Mar-11	27-Jul-11	26-Jun-13	12-Nov-13
			MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location												MW03-41 (Continued)															
Sample Date			2-Dec-05	16-Mar-06	19-Jun-06	5-Oct-06	9-Jan-07	4-May-07	4-Mar-08	27-Aug-08	25-Mar-09	15-May-09	21-Aug-09	20-Nov-09	19-Feb-10	3-Jun-10	27-Aug-10	29-Nov-10	17-Mar-11	27-Jul-11	26-Jun-13	12-Nov-13					
Sample ID			MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41					
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN					
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN					
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG					
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN					
Sample Type	Units	Ontario SCS																									
Volatile Organic Compounds																											
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	39 ^A	20 ^A	6.7 ^A	5.6 ^A	12 ^A	58 ^A	83 ^A	47 ^A	63 ^A	44 ^A	120 ^A	160 ^A	49 ^A	130 ^A	120 ^A	100 ^A	42 ^A	220 ^A	54 ^A	34 ^A					
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Tetrachloroethene (PCE)	µg/L	0.5 ^A	22 ^A	12 ^A	4.8 ^A	3.5 ^A	6.5 ^A	17 ^A	32 ^A	9.7 ^A	22 ^A	18 ^A	35 ^A	25 ^A	21 ^A	24 ^A	22 ^A	21 ^A	13 ^A	30 ^A	4.7 ^A	7.9 ^A					
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Trichloroethene (TCE)	µg/L	0.5 ^A	21 ^A	11 ^A	4.3 ^A	2.3 ^A	5.5 ^A	23 ^A	28 ^A	14 ^A	21 ^A	19 ^A	52 ^A	32 ^A	48 ^A	48 ^A	30 ^A	31 ^A	18 ^A	85 ^A	10 ^A	11 ^A					
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Vinyl Chloride	µg/L	0.5 ^A	<0.2	0.2	<0.2	3.2 ^A	<0.2	<0.2	<0.5	<0.4	<0.4	<0.2	0.2	<1	<1	<1	0.3	<1	<0.4	<2	<0.50	1.1 ^A					

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW03-41 (Continued)																MW03-42			
Sample Date			6-May-14	24-Sep-14	14-Jul-15	24-Nov-15	20-Apr-16	17-Aug-16	24-Apr-17	3-Aug-17	25-Oct-17	10-Apr-18	19-Sep-18	16-Apr-19	26-Nov-19	29-Jul-20	19-Oct-20	16-Jun-03	12-Nov-03	30-Aug-04	16-Jun-05	
Sample ID			MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-42	MW03-42	MW03-42	MW03-42	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72 _{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 _{s7} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150 _{s15} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500 _{s8} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500 _{s10} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500 _{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW03-41 (Continued)																MW03-42				
Sample Date			6-May-14	24-Sep-14	14-Jul-15	24-Nov-15	20-Apr-16	17-Aug-16	24-Apr-17	3-Aug-17	25-Oct-17	10-Apr-18	19-Sep-18	16-Apr-19	26-Nov-19	29-Jul-20	19-Oct-20	16-Jun-03	12-Nov-03	30-Aug-04	16-Jun-05		
Sample ID			MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-41	MW03-42	MW03-42	MW03-42	MW03-42		
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG		
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Sample Type	Units	Ontario SCS																					
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	20 ^A	80 ^A	52 ^A	91 ^A	42 ^A	27 ^A	21 ^A	130 ^A	220 ^A	50 ^A	180 ^A	13 ^A	45 ^A	53 ^A	41 ^A	<0.1	<0.1	<0.1	67 ^A		
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tetrachloroethene (PCE)	µg/L	0.5 ^A	5.0 ^A	11 ^A	8.2 ^A	9.2 ^A	7.6 ^A	3.7 ^A	3.7 ^A	8.9 ^A	6.8 ^A	12 ^A	3.9 ^A	1.4 ^A	2.6 ^A	4.8 ^A	2.1 ^A	<0.1	<0.1	<0.1	23.6 ^A		
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Trichloroethene (TCE)	µg/L	0.5 ^A	7.7 ^A	19 ^A	12 ^A	12 ^A	9.2 ^A	4.4 ^A	5.5 ^A	29 ^A	22 ^A	18 ^A	20 ^A	2.8 ^A	6.8 ^A	7.5 ^A	4.8 ^A	0.2	0.3	0.1	66.2 ^A		
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vinyl Chloride	µg/L	0.5 ^A	<0.20	0.22	3.3 ^A	3.7 ^A	<0.20	1.7 ^A	0.30	1.2 ^A	42 ^A	<0.20	9.4 ^A	3.5 ^A	1.1 ^A	2.1 ^A	0.49	<0.2	<0.2	<0.2	5 ^A		

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW03-43				MW05-1					MW05-2										
Sample Date			16-Jun-03	12-Nov-03	30-Aug-04	16-Jun-05	15-Jun-05	26-Jun-13	6-May-14	23-Nov-15	17-Aug-16	29-Apr-05	15-Jun-05	1-Dec-05	17-Mar-06	19-Jun-06	5-Oct-06	9-Jan-07	4-May-07	14-Aug-07	4-Mar-08	27-Aug-08
Sample ID			MW03-43	MW03-43	MW03-43	MW03-43	MW05-1	MW05-1	MW05-1	MW05-1	MW05-1	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 ^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^A _{s7}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 ^A _{s15}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 ^A _{s8}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 ^A _{s10}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 ^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW03-43				MW05-1					MW05-2					MW05-2									
Sample Date			16-Jun-03	12-Nov-03	30-Aug-04	16-Jun-05	15-Jun-05	26-Jun-13	6-May-14	23-Nov-15	17-Aug-16	29-Apr-05	15-Jun-05	1-Dec-05	17-Mar-06	19-Jun-06	5-Oct-06	9-Jan-07	4-May-07	14-Aug-07	4-Mar-08	27-Aug-08				
Sample ID			MW03-43	MW03-43	MW03-43	MW03-43	MW05-1	MW05-1	MW05-1	MW05-1	MW05-1	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2				
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN				
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN				
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG				
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN				
Sample Type	Units	Ontario SCS																								
Volatile Organic Compounds																										
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloroethane, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	0.4	0.5	0.3	0.2	10.1 ^A	29 ^A	17 ^A	19 ^A	21 ^A	163 ^A	230 ^A	150 ^A	110 ^A	130 ^A	140 ^A	170 ^A	65 ^A	22 ^A	14 ^A	19 ^A				
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.2	0.1	0.1	0.1	0.9 ^A	1.3 ^A	1.4 ^A	1.1 ^A	0.79 ^A	51.1 ^A	97 ^A	75 ^A	66 ^A	46 ^A	79 ^A	51 ^A	24 ^A	6.7 ^A	5.0 ^A	5.6 ^A				
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Trichloroethene (TCE)	µg/L	0.5 ^A	<0.2	0.2	0.1	<0.1	1.1 ^A	6.8 ^A	6.0 ^A	5.6 ^A	4.7 ^A	47.7 ^A	110 ^A	75 ^A	62 ^A	59 ^A	83 ^A	69 ^A	25 ^A	7.6 ^A	5.8 ^A	6.5 ^A				
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Vinyl Chloride	µg/L	0.5 ^A	<0.4	<0.2	0.2	<0.2	3.1 ^A	6.7 ^A	7.3 ^A	0.85 ^A	1.4 ^A	<2	12.5 ^A	0.4	<1	<0.5	<1	<1	0.3	0.4	<0.2	<0.2				

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			MW05-2 (Continued)																			
			19-Feb-09 MW05-2	25-Mar-09 MW05-2	15-May-09 MW05-2	20-Aug-09 MW05-2	20-Nov-09 MW05-2	19-Feb-10 MW05-2	3-Jun-10 MW05-2	27-Aug-10 MW05-2	16-Mar-11 MW05-2	26-Jul-11 MW05-2	19-Jun-12 MW05-2	21-Nov-12 MW05-2	26-Jun-13 MW05-2	12-Nov-13 MW05-2	6-May-14 MW05-2	24-Sep-14 MW05-2	14-Jul-15 MW05-2	23-Nov-15 MW05-2	20-Apr-16 MW05-2	17-Aug-16 MW05-2
	Units	Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 ^{s1A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^{s7A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 ^{s15A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 ^{s8A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 ^{s10A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 ^{s3A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s9 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location				MW05-2 (Continued)																			
Sample Date	Sample ID			19-Feb-09 MW05-2	25-Mar-09 MW05-2	15-May-09 MW05-2	20-Aug-09 MW05-2	20-Nov-09 MW05-2	19-Feb-10 MW05-2	3-Jun-10 MW05-2	27-Aug-10 MW05-2	16-Mar-11 MW05-2	26-Jul-11 MW05-2	19-Jun-12 MW05-2	21-Nov-12 MW05-2	26-Jun-13 MW05-2	12-Nov-13 MW05-2	6-May-14 MW05-2	24-Sep-14 MW05-2	14-Jul-15 MW05-2	23-Nov-15 MW05-2	20-Apr-16 MW05-2	17-Aug-16 MW05-2
Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	43 ^A	16 ^A	12 ^A	5.8 ^A	42 ^A	3.5 ^A	79 ^A	130 ^A	51 ^A	110 ^A	6.6 ^A	3.8 ^A	32 ^A	46 ^A	8.3 ^A	4.9 ^A	1.9 ^A	1.0	3.2 ^A	4.6 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	29,000 ^A	23 ^A	7.9 ^A	4.1 ^A	11 ^A	2.2 ^A	9.9 ^A	26 ^A	9.9 ^A	<10	4.1 ^A	4.6 ^A	4.8 ^A	7.1 ^A	2.2 ^A	1.6 ^A	0.66 ^A	1.1 ^A	0.52 ^A	0.98 ^A	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	540 ^A	5.0 ^A	4.3 ^A	2.7 ^A	12 ^A	1.7 ^A	15 ^A	37 ^A	13 ^A	24 ^A	3.7 ^A	3.5 ^A	7.5 ^A	12 ^A	2.5 ^A	1.7 ^A	0.77 ^A	0.58 ^A	0.79 ^A	0.79 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<40	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.4	<20	<0.20	<0.20	<0.40	0.28	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type		Units	Ontario SCS	MW05-2 (Continued)															MW05-3				
				25-Apr-17	3-Aug-17	26-Oct-17	1-Mar-18	13-Apr-18	19-Sep-18	17-Apr-19	29-Aug-19	25-Nov-19	4-Jun-20	29-Jul-20	22-Sep-20	15-Oct-20	8-Dec-20	7-May-21	29-Apr-05	15-Jun-05	9-Dec-08	21-Aug-09	28-Aug-10
				MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-3	MW05-3	MW05-3	MW05-3	MW05-3
				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
				HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Sample Type				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
General Chemistry																							
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Petroleum Hydrocarbons																							
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylenes, Total	µg/L	72 ^{s1 A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^{s7 A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F2 (>C10-C16 range)	µg/L	150 ^{s15 A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F3 (>C16-C34 range)	µg/L	500 ^{s8 A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F4 (>C34-C50 range)	µg/L	500 ^{s10 A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Metals, Dissolved																							
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene (Total)	µg/L	1,500 ^{s3 A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW05-2 (Continued)																MW05-3				
Sample Date			25-Apr-17	3-Aug-17	26-Oct-17	1-Mar-18	13-Apr-18	19-Sep-18	17-Apr-19	29-Aug-19	25-Nov-19	4-Jun-20	29-Jul-20	22-Sep-20	15-Oct-20	8-Dec-20	7-May-21	29-Apr-05	15-Jun-05	9-Dec-08	21-Aug-09	28-Aug-10	
Sample ID			MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-2	MW05-3	MW05-3	MW05-3	MW05-3	MW05-3	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS																					
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	53 ^A	120 ^A	110 ^A	38 ^A	10 ^A	6.6 ^A	36 ^A	4.2 ^A	4.3 ^A	4.6 ^A	4.4 ^A	5.2 ^A	1.7 ^A	0.73	3.4 ^A	<0.1	<0.1	<0.1	0.1	<0.1	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	3.7 ^A	11 ^A	9.4 ^A	160 ^A	4.2 ^A	2.7 ^A	4.6 ^A	0.80 ^A	15 ^A	0.77 ^A	0.73 ^A	0.70 ^A	0.46	0.43	0.33	<0.1	<0.1	<0.1	0.2	0.4	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	7.7 ^A	23 ^A	21 ^A	48 ^A	3.7 ^A	2.8 ^A	8.2 ^A	2.4 ^A	3.1 ^A	1.3 ^A	1.4 ^A	1.3 ^A	0.72 ^A	0.37	0.61 ^A	<0.1	<0.1	<0.1	<0.1	0.1	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	<0.20	<0.20	<0.20	0.30	<0.20	<0.20	<0.20	2.4 ^A	<0.20	<0.20	2.3 ^A	11 ^A	3.1 ^A	<0.20	5.7 ^A	<0.2	<0.2	<0.2	<0.2	<0.2	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW05-3 (Continued)											MW05-4								
Sample Date			26-Jul-11	23-Nov-12	2-Jul-13	8-May-14	25-Nov-15	18-Aug-16	4-Aug-17	18-Apr-18	26-Nov-19	5-Aug-20	27-Apr-21	22-Apr-05	20-Jun-05	1-Dec-05	5-Dec-08	26-Jul-11	27-Jun-13	18-Aug-16	19-Apr-18	20-Mar-19
Sample ID			MW05-3	MW05-3	MW05-3	MW05-3	MW05-3	MW05-3	MW05-3	MW05-3	MW05-3	MW05-3	MW05-3	MW05-4	MW05-4	MW05-4	MW05-4	MW05-4	MW05-4	MW05-4	MW05-4	MW05-4
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-</								

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location				MW05-3 (Continued)										MW05-4															
Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Sample Type	Units	Ontario SCS	26-Jul-11 MW05-3	23-Nov-12 MW05-3	2-Jul-13 MW05-3	8-May-14 MW05-3	25-Nov-15 MW05-3	18-Aug-16 MW05-3	4-Aug-17 MW05-3	18-Apr-18 MW05-3	26-Nov-19 MW05-3	5-Aug-20 MW05-3	27-Apr-21 MW05-3	22-Apr-05 MW05-4	20-Jun-05 MW05-4	1-Dec-05 MW05-4	5-Dec-08 MW05-4	26-Jul-11 MW05-4	27-Jun-13 MW05-4	18-Aug-16 MW05-4	19-Apr-18 MW05-4	20-Mar-19 MW05-4	
									UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
									HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
									UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Volatile Organic Compounds																													
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.50	<0.50	<0.50	4,200 ^A	2,630 ^A	3,600 ^A	6,900 ^A	3,800 ^A	1,400 ^A	220 ^A	63 ^A	370 ^A							
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.1	<0.10	0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	10,000 ^A	7,140 ^A	4,000 ^A	880 ^A	240 ^A	1,200 ^A	6.0 ^A	6.0 ^A	2.4 ^A							
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	3,000 ^A	2,600 ^A	2,700 ^A	470 ^A	58 ^A	360 ^A	5.6 ^A	6.6 ^A	3.3 ^A							
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	1,000 ^A	<400	250 ^A	1,100 ^A	300 ^A	66 ^A	190 ^A	20 ^A	10 ^A							

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW05-4 (Continued)										MW05-4A									MW05-5	MW05-6
Sample Date			30-Aug-19	20-Nov-19	20-Apr-20	22-Apr-05	20-Jun-05	1-Dec-05	5-Dec-08	20-Aug-09	28-Aug-10	26-Jul-11	19-Oct-11	27-Jun-13	18-Aug-16	19-Apr-18	20-Mar-19	30-Aug-19	20-Nov-19	20-Apr-20	20-Jun-05	20-Jun-05	
Sample ID			MW05-4	MW05-4	MW05-4	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-5	MW05-6	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS																					
General Chemistry																							
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																							
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72 ^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^A _{s7}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150 ^A _{s15}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500 ^A _{s8}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500 ^A _{s10}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																							
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500 ^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW05-4 (Continued)										MW05-4A									MW05-5	MW05-6
Sample Date			30-Aug-19	20-Nov-19	20-Apr-20	22-Apr-05	20-Jun-05	1-Dec-05	5-Dec-08	20-Aug-09	28-Aug-10	26-Jul-11	19-Oct-11	27-Jun-13	18-Aug-16	19-Apr-18	20-Mar-19	30-Aug-19	20-Nov-19	20-Apr-20	20-Jun-05	20-Jun-05	
Sample ID			MW05-4	MW05-4	MW05-4	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-4A	MW05-5	MW05-6	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS																					
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	310 ^A	0.76	90 ^A	80 ^A	766 ^A	920 ^A	1,700 ^A	3,900 ^A	8,500 ^A	7,400 ^A	540 ^A	370 ^A	34 ^A	22 ^A	17 ^A	54 ^A	32 ^A	37 ^A	60 ^A	773 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	0.26	<0.20	0.77 ^A	1,500 ^A	20,400 ^A	38,000 ^A	170,000 ^A	36,000 ^A	22,000 ^A	9,200 ^A	920 ^A	190 ^A	22 ^A	19 ^A	10 ^A	6.3 ^A	0.25	0.21	7.2 ^A	13.9 ^A	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	0.62 ^A	<0.20	1.3 ^A	60 ^A	588 ^A	930 ^A	1,200 ^A	820 ^A	2,000 ^A	1,000 ^A	360 ^A	260 ^A	3.0 ^A	4.6 ^A	3.2 ^A	4.5 ^A	<0.20	<0.20	32.3 ^A	65.4 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	170 ^A	1.0 ^A	0.94 ^A	<30	<400	440 ^A	290 ^A	330 ^A	1,300 ^A	480 ^A	44 ^A	20 ^A	<0.20	<0.20	<0.20	1.3 ^A	1.9 ^A	6.9 ^A	<1	149 ^A	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			20-Jun-05 MW05-8A UNKNOWN HISTWG UNKNOWN	1-Dec-05 MW05-8A UNKNOWN HISTWG UNKNOWN	20-Aug-09 MW05-8A UNKNOWN HISTWG UNKNOWN	27-Aug-10 MW05-8A UNKNOWN HISTWG UNKNOWN	26-Jul-11 MW05-8A UNKNOWN HISTWG UNKNOWN	21-Nov-12 MW05-8A UNKNOWN HISTWG UNKNOWN	3-Jul-13 MW05-8A UNKNOWN HISTWG UNKNOWN	MW05-8A 6-May-14 MW05-8A UNKNOWN HISTWG UNKNOWN	23-Nov-15 MW05-8A UNKNOWN HISTWG UNKNOWN	17-Aug-16 MW05-8A UNKNOWN HISTWG UNKNOWN	3-Aug-17 MW05-8A UNKNOWN HISTWG UNKNOWN	11-Apr-18 MW05-8A UNKNOWN HISTWG UNKNOWN	21-Nov-19 MW05-8A UNKNOWN HISTWG UNKNOWN	28-Jul-20 MW05-8A UNKNOWN HISTWG UNKNOWN	29-Apr-21 MW05-8A UNKNOWN HISTWG UNKNOWN	20-Jun-05 MW05-8B UNKNOWN HISTWG UNKNOWN	MW05-8B 1-Dec-05 MW05-8B UNKNOWN HISTWG UNKNOWN	20-Aug-09 MW05-8B UNKNOWN HISTWG UNKNOWN	27-Aug-10 MW05-8B UNKNOWN HISTWG UNKNOWN	26-Jul-11 MW05-8B UNKNOWN HISTWG UNKNOWN
	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 ^{s1A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^{s7A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 ^{s15A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 ^{s8A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 ^{s10A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 ^{s3A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s9 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			20-Jun-05	1-Dec-05	20-Aug-09	27-Aug-10	26-Jul-11	21-Nov-12	3-Jul-13	MW05-8A	23-Nov-15	17-Aug-16	3-Aug-17	11-Apr-18	21-Nov-19	28-Jul-20	29-Apr-21	20-Jun-05	MW05-8B	20-Aug-09	27-Aug-10	26-Jul-11
Sample Date			MW05-8A	MW05-8A	MW05-8A	MW05-8A	MW05-8A	MW05-8A	MW05-8A	MW05-8A	MW05-8A	MW05-8A	MW05-8A	MW05-8A	MW05-8A	MW05-8A	MW05-8A	MW05-8B	MW05-8B	MW05-8B	MW05-8B	MW05-8B
Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Work Order			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	98.7 ^A	30 ^A	1.2	1.0	0.3	1.1	1.3	0.58	1.5	0.82	1.4	1.9 ^A	1.8 ^A	1.6	2.1 ^A	65.2 ^A	1.3	2.1 ^A	2.7 ^A	1.6
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	14.5 ^A	2.0 ^A	0.5	0.1	<0.1	<0.10	0.13	<0.10	<0.10	<0.10	0.20	<0.20	12 ^A	0.94 ^A	<0.20	4.8 ^A	0.2	0.3	<0.1	<0.1
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	79.8 ^A	17 ^A	1.1 ^A	0.7 ^A	0.2	0.28	0.22	0.15	0.22	0.13	<0.20	<0.20	1.1 ^A	0.28	0.20	37.9 ^A	0.9 ^A	0.2	<0.1	<0.1
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<1	1.7 ^A	1.3 ^A	1.2 ^A	<0.2	1.5 ^A	1.2 ^A	0.75 ^A	1.2 ^A	<0.20	1.4 ^A	1.7 ^A	1.9 ^A	1.9 ^A	2.1 ^A	0.5	0.4	1.2 ^A	1.2 ^A	0.7 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Ontario SCS	MW05-8B (Continued)											MW05-8C									
			21-Nov-12 MW05-8B	3-Jul-13 MW05-8B	6-May-14 MW05-8B	23-Nov-15 MW05-8B	17-Aug-16 MW05-8B	3-Aug-17 MW05-8B	11-Apr-18 MW05-8B	21-Nov-19 MW05-8B	28-Jul-20 MW05-8B	29-Apr-21 MW05-8B	20-Jun-05 MW05-8C	1-Dec-05 MW05-8C	16-Mar-06 MW05-8C	19-Jun-06 MW05-8C	5-Oct-06 MW05-8C	9-Jan-07 MW05-8C	4-May-07 MW05-8C	14-Aug-07 MW05-8C	4-Mar-08 MW05-8C	28-Aug-08 MW05-8C	
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
General Chemistry																							
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																							
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																							
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW05-8B (Continued)										MW05-8C											
Sample Date			21-Nov-12	3-Jul-13	6-May-14	23-Nov-15	17-Aug-16	3-Aug-17	11-Apr-18	21-Nov-19	28-Jul-20	29-Apr-21	20-Jun-05	1-Dec-05	16-Mar-06	19-Jun-06	5-Oct-06	9-Jan-07	4-May-07	14-Aug-07	4-Mar-08	28-Aug-08		
Sample ID			MW05-8B	MW05-8B	MW05-8B	MW05-8B	MW05-8B	MW05-8B	MW05-8B	MW05-8B	MW05-8B	MW05-8B	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C		
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG		
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Sample Type	Units	Ontario SCS																						
Volatile Organic Compounds																								
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	1.1	18 ^A	0.42	0.90	1.5	1.4	0.69	2.2 ^A	4.2 ^A	4.1 ^A	146 ^A	130 ^A	95 ^A	79 ^A	110 ^A	78 ^A	65 ^A	39 ^A	30 ^A	26 ^A		
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.10	2.1 ^A	0.47	<0.10	<0.10	<0.20	<0.20	2.9 ^A	<0.20	0.57 ^A	13.5 ^A	17 ^A	17 ^A	20 ^A	26 ^A	21 ^A	16 ^A	15 ^A	10 ^A	7.5 ^A		
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Trichloroethene (TCE)	µg/L	0.5 ^A	<0.10	30 ^A	<0.10	<0.10	<0.10	<0.20	<0.20	0.57 ^A	<0.20	<0.20	90.3 ^A	110 ^A	140 ^A	74 ^A	100 ^A	84 ^A	58 ^A	45 ^A	49 ^A	39 ^A		
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vinyl Chloride	µg/L	0.5 ^A	0.93 ^A	<0.40	0.38	0.82 ^A	1.7 ^A	0.81 ^A	0.23	1.1 ^A	1.7 ^A	1.5 ^A	6 ^A	5 ^A	4 ^A	1.8 ^A	3 ^A	1 ^A	2.4 ^A	0.9 ^A	1.0 ^A	0.6 ^A		

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW05-8C (Continued)																		MW05-8C (Continued)	
Sample Date			5-Dec-08	19-Feb-09	15-May-09	20-Aug-09	20-Nov-09	19-Feb-10	3-Jun-10	27-Aug-10	30-Nov-10	16-Mar-11	26-Jul-11	21-Nov-12	3-Jul-13	12-Nov-13	7-May-14	23-Nov-15	17-Aug-16	3-Aug-17	11-Apr-18	21-Nov-19
Sample ID			MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C	MW05-8C
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500s9 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location										MW05-8C (Continued)												MW05-8C (
Sample Date	Sample ID		5-Dec-08 MW05-8C	19-Feb-09 MW05-8C	15-May-09 MW05-8C	20-Aug-09 MW05-8C	20-Nov-09 MW05-8C	19-Feb-10 MW05-8C	3-Jun-10 MW05-8C	27-Aug-10 MW05-8C	30-Nov-10 MW05-8C	16-Mar-11 MW05-8C	26-Jul-11 MW05-8C	21-Nov-12 MW05-8C	3-Jul-13 MW05-8C	12-Nov-13 MW05-8C	7-May-14 MW05-8C	23-Nov-15 MW05-8C	17-Aug-16 MW05-8C	3-Aug-17 MW05-8C	11-Apr-18 MW05-8C	21-Nov-19 MW05-8C
Sampling Company	Laboratory		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order	Laboratory Sample ID		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Sample Type	Units	Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	0.8	33 ^A	32 ^A	31 ^A	36 ^A	34 ^A	44 ^A	43 ^A	43 ^A	29 ^A	30 ^A	25 ^A	19 ^A	20 ^A	17 ^A	25 ^A	11 ^A	21 ^A	15 ^A	14 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.1	6.5 ^A	8.6 ^A	6.3 ^A	7.1 ^A	6.6 ^A	5.2 ^A	6.2 ^A	9.3 ^A	4.5 ^A	7.3 ^A	3.0 ^A	2.0 ^A	2.8 ^A	1.7 ^A	2.5 ^A	3.4 ^A	2.3 ^A	2.0 ^A	7.5 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	0.2	38 ^A	47 ^A	52 ^A	65 ^A	45 ^A	51 ^A	59 ^A	60 ^A	49 ^A	37 ^A	37 ^A	30 ^A	29 ^A	39 ^A	35 ^A	40 ^A	33 ^A	27 ^A	11 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<0.2	1.2 ^A	0.5	0.5	<0.4	0.2	1.1 ^A	1.5 ^A	<0.5	0.9 ^A	0.2	0.88 ^A	0.30	0.32	<0.40	0.38	1.1 ^A	0.32	<0.20	0.58 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			Continued)				MW05-9A				MW05-9B				MW05-9C				MW05-10A						
Sample Date			28-Jul-20	29-Apr-21	20-Jun-05	1-Dec-05	5-Dec-08	20-Aug-09	20-Jun-05	1-Dec-05	5-Dec-08	20-Aug-09	20-Jun-05	1-Dec-05	5-Dec-08	20-Aug-09	20-Jun-05	1-Dec-05	5-Dec-08	21-Aug-09	28-Aug-10	27-Jul-11			
Sample ID			MW05-8C	MW05-8C	MW05-9A	MW05-9A	MW05-9A	MW05-9A	MW05-9B	MW05-9B	MW05-9B	MW05-9B	MW05-9C	MW05-9C	MW05-9C	MW05-9C	MW05-10A	MW05-10A	MW05-10A	MW05-10A	MW05-10A	MW05-10A			
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN			
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN			
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG			
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN			
Sample Type	Units	Ontario SCS																							
General Chemistry																									
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Petroleum Hydrocarbons																									
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Xylene, m & p-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Xylene, o-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Xylenes, Total	µg/L	72 _{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 _{s7} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F2 (>C10-C16 range)	µg/L	150 _{s15} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F3 (>C16-C34 range)	µg/L	500 _{s8} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F4 (>C34-C50 range)	µg/L	500 _{s10} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Metals, Dissolved																									
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Polycyclic Aromatic Hydrocarbons																									
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methylnaphthalene (Total)	µg/L	1,500 _{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methylnaphthalene, 1-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methylnaphthalene, 2-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			Continued)		MW05-9A				MW05-9B				MW05-9C				MW05-10A						
Sample Date			28-Jul-20	29-Apr-21	20-Jun-05	1-Dec-05	5-Dec-08	20-Aug-09	20-Jun-05	1-Dec-05	5-Dec-08	20-Aug-09	20-Jun-05	1-Dec-05	5-Dec-08	20-Aug-09	20-Jun-05	1-Dec-05	5-Dec-08	21-Aug-09	28-Aug-10	27-Jul-11	
Sample ID			MW05-8C	MW05-8C	MW05-9A	MW05-9A	MW05-9A	MW05-9A	MW05-9B	MW05-9B	MW05-9B	MW05-9B	MW05-9C	MW05-9C	MW05-9C	MW05-9C	MW05-10A	MW05-10A	MW05-10A	MW05-10A	MW05-10A	MW05-10A	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS																					
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	30 ^A	17 ^A	<3	500 ^A	41 ^A	390 ^A	<0.1	54 ^A	410 ^A	270 ^A	0.4	1.4	2.4 ^A	1.3	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	2.1 ^A	4.9 ^A	297 ^A	300 ^A	3.0 ^A	1,500 ^A	0.4	20 ^A	32 ^A	2.4 ^A	<0.1	0.4	1.4 ^A	0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	50 ^A	25 ^A	24.2 ^A	190 ^A	5.4 ^A	70 ^A	<0.1	37 ^A	52 ^A	3.1 ^A	<0.1	0.6 ^A	0.7 ^A	0.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	0.74 ^A	<0.20	<5	<5	27 ^A	49 ^A	<0.2	<0.4	100 ^A	430 ^A	<0.2	<0.4	0.3	1.0 ^A	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW05-10A (Continued)												MW05-10B									
Sample Date	Sample ID		23-Nov-12	2-Jul-13	7-May-14	25-Nov-15	18-Aug-16	4-Aug-17	10-Apr-18	26-Nov-19	5-Aug-20	29-Apr-21	20-Jun-05	1-Dec-05	5-Dec-08	21-Aug-09	28-Aug-10	27-Jul-11	23-Nov-12	2-Jul-13	7-May-14	25-Nov-15		
Sampling Company	Laboratory		MW05-10A	MW05-10A	MW05-10A	MW05-10A	MW05-10A	MW05-10A	MW05-10A	MW05-10A	MW05-10A	MW05-10A	MW05-10B	MW05-10B	MW05-10B	MW05-10B	MW05-10B	MW05-10B	MW05-10B	MW05-10B	MW05-10B	MW05-10B		
Laboratory Work Order	Laboratory Sample ID		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Sample Type	Units	Ontario SCS	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	UNKNOWN	UNKNOWN	UNKNOWN	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	UNKNOWN	UNKNOWN		
Volatile Organic Compounds																								
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.10	<0.10	0.12	<0.10	<0.10	<0.10	<0.50	<0.50	<0.50	0.55	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.10	0.16	<0.10	0.22		
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.10	<0.10	0.25	0.34	<0.10	0.24	<0.20	20 ^A	<0.20	1.6 ^A	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	10 ^A		
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Trichloroethene (TCE)	µg/L	0.5 ^A	<0.10	<0.10	0.13	<0.10	<0.10	<0.10	<0.20	0.26	<0.20	<0.20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	1.1 ^A		
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vinyl Chloride	µg/L	0.5 ^A	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.40	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20		

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW05-10B (Continued)							MW05-10C													
Sample Date			18-Aug-16	4-Aug-17	10-Apr-18	26-Nov-19	5-Aug-20	29-Apr-21	20-Jun-05	2-Dec-05	16-Mar-06	19-Jun-06	5-Oct-06	9-Jan-07	23-May-07	14-Aug-07	4-Mar-08	28-Aug-08	5-Dec-08	19-May-09	21-Aug-09	20-Nov-09	
Sample ID			MW05-10B	MW05-10B	MW05-10B	MW05-10B	MW05-10B	MW05-10B	MW05-10C	MW05-10C	MW05-10C	MW05-10C	MW05-10C	MW05-10C	MW05-10C	MW05-10C	MW05-10C	MW05-10C	MW05-10C	MW05-10C	MW05-10C	MW05-10C	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS																					
General Chemistry																							
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																							
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																							
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW05-10B (Continued)							MW05-10C													
Sample Date	Sample ID		18-Aug-16 MW05-10B	4-Aug-17 MW05-10B	10-Apr-18 MW05-10B	26-Nov-19 MW05-10B	5-Aug-20 MW05-10B	29-Apr-21 MW05-10B	20-Jun-05 MW05-10C	2-Dec-05 MW05-10C	16-Mar-06 MW05-10C	19-Jun-06 MW05-10C	5-Oct-06 MW05-10C	9-Jan-07 MW05-10C	23-May-07 MW05-10C	14-Aug-07 MW05-10C	4-Mar-08 MW05-10C	28-Aug-08 MW05-10C	5-Dec-08 MW05-10C	19-May-09 MW05-10C	21-Aug-09 MW05-10C	20-Nov-09 MW05-10C	
Sampling Company	Laboratory		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order	Laboratory Sample ID		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Sample Type	Units	Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.10	<0.10	<0.50	<0.50	<0.50	<0.50	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.10	0.29	<0.20	3.9 ^A	<0.20	0.24	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	0.1	0.1	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.5	0.1	<0.1	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW05-10C (Continued)																		MW05-10C (Continue	
Sample Date	Sample ID		19-Feb-10 MW05-10C	3-Jun-10 MW05-10C	28-Aug-10 MW05-10C	19-Jun-12 MW05-10C	2-Jul-13 MW05-10C	12-Nov-13 MW05-10C	7-May-14 MW05-10C	25-Sep-14 MW05-10C	15-Jul-15 MW05-10C	25-Nov-15 MW05-10C	21-Apr-16 MW05-10C	18-Aug-16 MW05-10C	4-Aug-17 MW05-10C	25-Oct-17 MW05-10C	10-Apr-18 MW05-10C	18-Sep-18 MW05-10C	16-Apr-19 MW05-10C	26-Nov-19 MW05-10C	5-Aug-20 MW05-10C	19-Oct-20 MW05-10C
Sampling Company	Laboratory		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order	Laboratory Sample ID		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Sample Type	Units	Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.1	<0.1	<0.1	0.14	3.3 ^A	<0.10	<0.10	<0.50	<0.50	<0.10	2.3 ^A	<0.10	<0.10	0.90	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	1.4 ^A	0.1	0.1	<0.10	0.93 ^A	<0.10	0.12	<0.20	<0.20	<0.10	7.9 ^A	0.17	<0.10	0.44	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	<0.1	<0.1	<0.1	<0.10	0.69 ^A	<0.10	<0.10	<0.20	<0.20	<0.10	4.0 ^A	<0.10	<0.10	0.46	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<0.2	<0.2	<0.2	<0.20	0.76 ^A	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location		d)	MW05-11	MW05-12A	MW05-12B	MW05-13							MW05-14A						
Sample Date		29-Apr-21	20-Jun-05	20-Jun-05	20-Jun-05	20-Jun-05	20-Jun-05	20-Jun-05	27-Jun-05	2-Dec-05	5-Dec-08	20-Aug-09	30-Aug-10	27-Jul-11	21-Nov-12	3-Jul-13	7-May-14	24-Nov-15	16-Aug-16
Sample ID		MW05-10C	MW05-11	MW05-12A	MW05-12B	MW05-13	MW05-14A	MW05-14A	MW05-14A	MW05-14A	MW05-14A	MW05-14A	MW05-14A	MW05-14A	MW05-14A	MW05-14A	MW05-14A	MW05-14A	MW05-14A
Sampling Company		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																	
General Chemistry																			
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																			
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 _{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 _{s7} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 _{s15} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 _{s8} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 _{s10} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																			
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																			
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 _{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			d)	MW05-11	MW05-12A	MW05-12B	MW05-13						MW05-14A						
Sample Date			29-Apr-21	20-Jun-05	20-Jun-05	20-Jun-05	20-Jun-05	20-Jun-05	27-Jun-05	2-Dec-05	5-Dec-08	20-Aug-09	30-Aug-10	27-Jul-11	21-Nov-12	3-Jul-13	7-May-14	24-Nov-15	16-Aug-16
Sample ID			MW05-10C	MW05-11	MW05-12A	MW05-12B	MW05-13	MW05-14A	MW05-14A	MW05-14A	MW05-14A	MW05-14A	MW05-14A	MW05-14A	MW05-14A	MW05-14A	MW05-14A	MW05-14A	MW05-14A
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																	
Volatile Organic Compounds																			
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.50	11.1 ^A	15 ^A	6.2 ^A	17.2 ^A	4.5 ^A	4.5 ^A	54 ^A	30 ^A	53 ^A	37 ^A	78 ^A	78 ^A	76 ^A	91 ^A	180 ^A	40 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.20	138 ^A	45.8 ^A	15 ^A	31.5 ^A	7.7 ^A	7.7 ^A	11 ^A	50 ^A	0.6 ^A	1.8 ^A	2.0 ^A	1.7 ^A	1.1 ^A	0.87 ^A	1.3 ^A	0.14
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	<0.20	22.7 ^A	12.5 ^A	4.9 ^A	32.6 ^A	22.3 ^A	22 ^A	130 ^A	57 ^A	46 ^A	40 ^A	26 ^A	18 ^A	12 ^A	14 ^A	28 ^A	9.6 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<0.20	<1	<0.4	<0.2	0.3	<0.8	<0.8	<1	1.4 ^A	2.1 ^A	0.5	3 ^A	1.5 ^A	1.5 ^A	1.1 ^A	3.0 ^A	0.94 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			20-Jun-05	27-Jun-05	2-Dec-05	5-Dec-08	20-Aug-09	31-Aug-10	27-Jul-11	21-Nov-12	MW05-14B	3-Jul-13	7-May-14	16-Aug-16	25-Apr-17	26-Oct-17	13-Apr-18	6-Jun-18	5-Aug-20	27-Apr-21	20-Jun-05	MW05-14C	27-Jun-05	2-Dec-05
Sample Date			MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14C	MW05-14C	MW05-14C	MW05-14C
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																						
General Chemistry																								
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																								
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 ^{s1 A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^{s7 A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 ^{s15 A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 ^{s8 A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 ^{s10 A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																								
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																								
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 ^{s3 A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s9 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			20-Jun-05	27-Jun-05	2-Dec-05	5-Dec-08	20-Aug-09	31-Aug-10	27-Jul-11	21-Nov-12	MW05-14B	7-May-14	16-Aug-16	25-Apr-17	26-Oct-17	13-Apr-18	6-Jun-18	5-Aug-20	27-Apr-21	20-Jun-05	MW05-14C	2-Dec-05
Sample Date			MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14B	MW05-14C	MW05-14C	MW05-14C
Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	14.8 ^A	15 ^A	35 ^A	2.2 ^A	8.1 ^A	<0.1	<0.1	<0.20	0.92	<0.10	3.8 ^A	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.7 ^A	1.7 ^A	2.3 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	6.2 ^A	6.2 ^A	18 ^A	1.7 ^A	2.6 ^A	<0.1	<0.1	<0.20	2.6 ^A	<0.10	1.9 ^A	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	3.2 ^A	3.2 ^A	8.9 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	47.2 ^A	47 ^A	66 ^A	6.2 ^A	11 ^A	<0.1	<0.1	<0.20	1.9 ^A	<0.10	3.1 ^A	<0.20	1.0 ^A	<0.20	<0.20	<0.20	<0.20	4.8 ^A	4.8 ^A	3.6 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<0.8	<0.8	<0.4	<0.2	<0.2	<0.2	<0.2	<0.40	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.8	<0.8	<0.2

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW05-14C (Continued)																			
Sample Date			17-Mar-06	19-Jun-06	5-Oct-06	9-Jan-07	4-May-07	14-Aug-07	4-Mar-08	27-Aug-08	5-Dec-08	19-Feb-09	15-May-09	20-Aug-09	20-Nov-09	19-Feb-10	3-Jun-10	30-Aug-10	1-Dec-10	17-Mar-11	27-Jul-11	20-Jun-12
Sample ID			MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location												MW05-14C (Continued)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		</

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location										MW05-14C (Continued)									MW08-15A			
Sample Date	Sample ID		21-Nov-12	4-Jul-13	11-Nov-13	7-May-14	24-Sep-14	15-Jul-15	24-Nov-15	20-Apr-16	16-Aug-16	8-Aug-17	26-Oct-17	13-Apr-18	19-Sep-18	16-Apr-19	5-Aug-20	16-Oct-20	23-Oct-08	20-Aug-09	27-Aug-10	26-Jul-11
Sampling Company	Laboratory		MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW05-14C	MW08-15A	MW08-15A	MW08-15A	MW08-15A
Laboratory Work Order	Laboratory Sample ID		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.10	1.0	<0.10	1.2	<0.50	<0.50	<0.10	1.9 ^A	<0.10	0.26	0.54	<0.50	<0.50	1.6	41 ^A	<0.50	7 ^A	1.0	1.1	3.2 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	0.47	4.6 ^A	<0.10	0.33	<0.20	<0.20	<0.10	1.9 ^A	<0.10	1.2 ^A	0.89 ^A	0.33	1.7 ^A	0.78 ^A	0.72 ^A	<0.20	<1	0.2	<0.1	0.1
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	<0.10	2.2 ^A	<0.10	0.49	<0.20	<0.20	<0.10	1.8 ^A	<0.10	0.65 ^A	1.0 ^A	<0.20	0.60 ^A	0.45	0.78 ^A	<0.20	1 ^A	0.3	0.5	1.7 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.64 ^A	4.3 ^A	<0.20	<2	<0.2	<0.2	0.5

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location				MW08-15A (Continued)										MW08-15B									
Sample Date	Sample ID			21-Nov-12	3-Jul-13	6-May-14	23-Nov-15	17-Aug-16	3-Aug-17	11-Apr-18	21-Nov-19	28-Jul-20	28-Apr-21	17-Oct-08	20-Aug-09	27-Aug-10	26-Jul-11	21-Nov-12	3-Jul-13	6-May-14	23-Nov-15	17-Aug-16	3-Aug-17
Sampling Company	Laboratory			MW08-15A	MW08-15A	MW08-15A	MW08-15A	MW08-15A	MW08-15A	MW08-15A	MW08-15A	MW08-15A	MW08-15A	MW08-15B	MW08-15B	MW08-15B	MW08-15B	MW08-15B	MW08-15B	MW08-15B	MW08-15B	MW08-15B	MW08-15B
Laboratory Work Order	Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	1.2	<5.0	0.54	0.44	2.8 ^A	2.2 ^A	1.9 ^A	9.7 ^A	3.2 ^A	100 ^A	150 ^A	70 ^A	79 ^A	64 ^A	73 ^A	66 ^A	84 ^A	76 ^A	51 ^A	190 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<1.0	<5.0	<0.50	<0.10	<0.10	<0.20	<0.20	<0.20	33 ^A	0.35	0.37	21 ^A	8.8 ^A	15 ^A	11 ^A	11 ^A	7.4 ^A	8.8 ^A	7.0 ^A	4.1 ^A	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	<1.0	<5.0	<0.50	<0.10	<0.10	<0.20	<0.20	<0.20	3.2 ^A	<0.20	<0.20	89 ^A	42 ^A	65 ^A	44 ^A	49 ^A	43 ^A	45 ^A	43 ^A	25 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	<2.0	<10	<1.0	<0.20	<0.20	0.37	0.28	7.9 ^A	3.2 ^A	160 ^A	14 ^A	2.5 ^A	7.1 ^A	1.1 ^A	3.6 ^A	2.1 ^A	3.4 ^A	4.4 ^A	<2.0	30 ^A	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-15B (Continued)					MW08-15C													
Sample Date			11-Apr-18	21-Nov-19	3-Jun-20	28-Jul-20	28-Apr-21	23-Oct-08	20-Aug-09	27-Aug-10	26-Jul-11	21-Nov-12	6-May-14	23-Nov-15	17-Aug-16	3-Aug-17	11-Apr-18	21-Nov-19	3-Jun-20	28-Jul-20	28-Apr-21
Sample ID			MW08-15B	MW08-15B	MW08-15B	MW08-15B	MW08-15B	MW08-15C	MW08-15C	MW08-15C	MW08-15C	MW08-15C	MW08-15C	MW08-15C	MW08-15C	MW08-15C	MW08-15C	MW08-15C	MW08-15C	MW08-15C	MW08-15C
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																			
General Chemistry																					
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v																			
Petroleum Hydrocarbons																					
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-																	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-																	
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-																	
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																					
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-																	
Barium	µg/L	23,000 ^A	-	-																	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-																	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-																	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	7,300 ^A	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-																	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-																	
Uranium	µg/L	330 ^A	-	-																	
Vanadium	µg/L	200 ^A	-	-																	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																					
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-																	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-																	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-																	
Fluoranthene	µg/L	44 ^A	-	-																	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-																	
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-																	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-15B (Continued)					MW08-15C													
Sample Date	Sample ID		11-Apr-18	21-Nov-19	3-Jun-20	28-Jul-20	28-Apr-21	23-Oct-08	20-Aug-09	27-Aug-10	26-Jul-11	21-Nov-12	6-May-14	23-Nov-15	17-Aug-16	3-Aug-17	11-Apr-18	21-Nov-19	3-Jun-20	28-Jul-20	28-Apr-21
Sampling Company	Laboratory		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order	Laboratory Sample ID		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Sample Type	Units	Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Volatile Organic Compounds																					
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	270 ^A	15 ^A	310 ^A	450 ^A	360 ^A	<1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	4.1 ^A	20 ^A	1.5 ^A	0.85 ^A	0.99 ^A	<1	<0.1	<0.1	<0.1	<0.10	0.11	<0.10	<0.10	<0.20	<0.20	23 ^A	0.34	0.22	0.20
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	37 ^A	9.4 ^A	15 ^A	7.9 ^A	11 ^A	<1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	2.1 ^A	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	63 ^A	4.3 ^A	1,000 ^A	910 ^A	280 ^A	<2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-20A													MW08-20B						
Sample Date			23-Oct-08	20-Aug-09	27-Aug-10	26-Jul-11	21-Nov-12	3-Jul-13	6-May-14	23-Nov-15	17-Aug-16	3-Aug-17	12-Apr-18	21-Nov-19	28-Apr-21	23-Oct-08	20-Aug-09	27-Aug-10	26-Jul-11	21-Nov-12	3-Jul-13	6-May-14
Sample ID			MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20B	MW08-20B	MW08-20B	MW08-20B	MW08-20B	MW08-20B	MW08-20B
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 ^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^A _{s7}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 ^A _{s15}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 ^A _{s8}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 ^A _{s10}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 ^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location				23-Oct-08	20-Aug-09	27-Aug-10	26-Jul-11	21-Nov-12	3-Jul-13	MW08-20A	23-Nov-15	17-Aug-16	3-Aug-17	12-Apr-18	21-Nov-19	28-Apr-21	23-Oct-08	20-Aug-09	27-Aug-10	MW08-20B	21-Nov-12	3-Jul-13	6-May-14
Sample Date	Sample ID			MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20A	MW08-20B	MW08-20B	MW08-20B	MW08-20B	MW08-20B	MW08-20B	MW08-20B
Sampling Company				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order				HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																					
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	0.2	0.1	<0.1	<0.1	<0.25	<0.50	<0.10	<0.10	<0.10	<0.50	<0.50	1.3	<0.50	7.0 ^A	0.3	11 ^A	1.8 ^A	17 ^A	8.5 ^A	10 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.1	1.7 ^A	<0.1	<0.1	0.81 ^A	<0.50	0.13	<0.10	0.10	<0.20	0.24	71 ^A	24 ^A	0.7 ^A	1.0 ^A	1.2 ^A	<0.1	1.3 ^A	0.84 ^A	0.92 ^A	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	0.2	0.2	<0.1	<0.1	0.36	<0.50	<0.10	<0.10	<0.10	<0.20	<0.20	2.4 ^A	2.2 ^A	5.7 ^A	0.4	15 ^A	0.5	16 ^A	7.6 ^A	13 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<0.2	<0.2	<0.2	<0.2	<0.50	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.7 ^A	0.7 ^A	0.7 ^A	0.5	1.4 ^A	0.77 ^A	0.64 ^A	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-20B (Continued)								MW08-20C											
Sample Date			23-Nov-15	17-Aug-16	3-Aug-17	12-Apr-18	21-Nov-19	3-Jun-20	28-Jul-20	28-Apr-21	23-Oct-08	20-Aug-09	27-Aug-10	26-Jul-11	21-Nov-12	3-Jul-13	6-May-14	23-Nov-15	17-Aug-16	3-Aug-17	12-Apr-18	21-Nov-19
Sample ID			MW08-20B	MW08-20B	MW08-20B	MW08-20B	MW08-20B	MW08-20B	MW08-20B	MW08-20B	MW08-20C	MW08-20C	MW08-20C	MW08-20C	MW08-20C	MW08-20C	MW08-20C	MW08-20C	MW08-20C	MW08-20C	MW08-20C	MW08-20C
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 _{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 _{s7} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 _{s15} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 _{s8} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 _{s10} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 _{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location				MW08-20B (Continued)							MW08-20C												
Sample Date	Sample ID			23-Nov-15 MW08-20B	17-Aug-16 MW08-20B	3-Aug-17 MW08-20B	12-Apr-18 MW08-20B	21-Nov-19 MW08-20B	3-Jun-20 MW08-20B	28-Jul-20 MW08-20B	28-Apr-21 MW08-20B	23-Oct-08 MW08-20C	20-Aug-09 MW08-20C	27-Aug-10 MW08-20C	26-Jul-11 MW08-20C	21-Nov-12 MW08-20C	3-Jul-13 MW08-20C	6-May-14 MW08-20C	23-Nov-15 MW08-20C	17-Aug-16 MW08-20C	3-Aug-17 MW08-20C	12-Apr-18 MW08-20C	21-Nov-19 MW08-20C
Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	5.6 ^A	3.0 ^A	0.98	0.86	17 ^A	9.4 ^A	20 ^A	55 ^A	<1	0.3	0.3	2.0 ^A	0.66	0.27	0.25	0.54	0.32	<0.50	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.10	0.19	<0.20	<0.20	15 ^A	1.9 ^A	0.43	3.1 ^A	<1	0.4	<0.1	<0.1	0.45	<0.10	0.22	<0.10	<0.10	<0.20	<0.20	3.5 ^A	<0.20
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	1.1 ^A	1.8 ^A	0.44	0.25	12 ^A	4.2 ^A	7.0 ^A	12 ^A	<1	0.3	0.1	0.4	0.53 ^A	0.14	0.23	0.30	0.18	0.23	<0.20	0.29	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	0.84 ^A	0.94 ^A	0.63 ^A	0.61 ^A	4.1 ^A	7.6 ^A	19 ^A	35 ^A	<2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type		Units	Ontario SCS	MW08-20C (Continued)						MW08-21A														
				3-Jun-20	28-Jul-20	28-Apr-21	23-Oct-08	21-Aug-09	27-Aug-10	26-Jul-11	19-Jun-12	21-Nov-12	3-Jul-13	11-Nov-13	7-May-14	24-Sep-14	14-Jul-15	24-Nov-15	20-Apr-16	16-Aug-16	2-Aug-17	25-Oct-17	13-Apr-18	
				MW08-20C	MW08-20C	MW08-20C	MW08-21A	MW08-21A	MW08-21A	MW08-21A	MW08-21A	MW08-21A	MW08-21A	MW08-21A	MW08-21A	MW08-21A	MW08-21A	MW08-21A	MW08-21A	MW08-21A	MW08-21A	MW08-21A	MW08-21A	
				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
				HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
General Chemistry																								
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Petroleum Hydrocarbons																								
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylene, m & p-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylene, o-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylenes, Total	µg/L	72 ^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^A _{s7}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F2 (>C10-C16 range)	µg/L	150 ^A _{s15}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F3 (>C16-C34 range)	µg/L	500 ^A _{s8}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F4 (>C34-C50 range)	µg/L	500 ^A _{s10}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Metals, Dissolved																								
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Polycyclic Aromatic Hydrocarbons																								
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene (Total)	µg/L	1,500 ^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene, 1-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene, 2-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-20C (Continued)											MW08-21A									
Sample Date	Sample ID		3-Jun-20 MW08-20C	28-Jul-20 MW08-20C	28-Apr-21 MW08-20C	23-Oct-08 MW08-21A	21-Aug-09 MW08-21A	27-Aug-10 MW08-21A	26-Jul-11 MW08-21A	19-Jun-12 MW08-21A	21-Nov-12 MW08-21A	3-Jul-13 MW08-21A	11-Nov-13 MW08-21A	7-May-14 MW08-21A	24-Sep-14 MW08-21A	14-Jul-15 MW08-21A	24-Nov-15 MW08-21A	20-Apr-16 MW08-21A	16-Aug-16 MW08-21A	2-Aug-17 MW08-21A	25-Oct-17 MW08-21A	13-Apr-18 MW08-21A	
Sampling Company	Laboratory		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order	Laboratory Sample ID		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Sample Type	Units	Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.50	<0.50	<0.50	<0.1	0.4	0.4	0.1	0.25	0.46	<0.25	<0.25	0.11	<0.50	<0.50	<0.10	11 ^A	<0.10	<0.50	<0.50	<0.50	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.20	<0.20	1.0 ^A	<0.1	2.5 ^A	<0.1	<0.1	0.89 ^A	0.54 ^A	0.26	<0.25	1.5 ^A	<0.20	0.20	<0.10	6.7 ^A	<0.10	<0.20	1.2 ^A	3.4 ^A	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	0.21	0.21	0.29	<0.1	0.4	<0.1	<0.1	0.62 ^A	<0.20	<0.25	<0.25	<0.10	<0.20	<0.20	<0.10	4.0 ^A	<0.10	<0.20	0.36	0.33	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	<0.20	<0.20	<0.20	0.8 ^A	0.4	0.3	<0.2	<0.20	<0.40	<0.50	<0.50	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-21A (Continued)						MW08-21B													
Sample Date			18-Sep-18	17-Apr-19	20-Nov-19	10-Aug-20	15-Oct-20	27-Apr-21	23-Oct-08	21-Aug-09	27-Aug-10	26-Jul-11	19-Jun-12	21-Nov-12	3-Jul-13	11-Nov-13	7-May-14	24-Sep-14	14-Jul-15	24-Nov-15	20-Apr-16	16-Aug-16
Sample ID			MW08-21A	MW08-21A	MW08-21A	MW08-21A	MW08-21A	MW08-21A	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 ^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^A _{s7}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 ^A _{s15}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 ^A _{s8}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 ^A _{s10}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-</							

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-21A (Continued)										MW08-21B											
Sample Date	Sample ID	Sampling Company	18-Sep-18	17-Apr-19	20-Nov-19	10-Aug-20	15-Oct-20	27-Apr-21	23-Oct-08	21-Aug-09	27-Aug-10	26-Jul-11	19-Jun-12	21-Nov-12	3-Jul-13	11-Nov-13	7-May-14	24-Sep-14	14-Jul-15	24-Nov-15	20-Apr-16	16-Aug-16		
Laboratory	Laboratory Work Order	Laboratory Sample ID	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Sample Type	Units	Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Volatile Organic Compounds																								
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethane, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.50	<0.50	200 ^A	<0.50	<0.50	<0.50	<0.1	64 ^A	62 ^A	86 ^A	69 ^A	110 ^A	160 ^A	170 ^A	160 ^A	150 ^A	150 ^A	220 ^A	150 ^A	86 ^A		
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropene, cis-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dichloropropene, trans-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tetrachloroethene (PCE)	µg/L	0.5 ^A	0.33	0.29	43 ^A	0.24	1.3 ^A	0.23	<0.1	0.3	<0.1	<0.1	<0.50	<0.50	<1.0	<1.0	<1.0	<0.20	<0.20	0.41	0.60 ^A	0.33		
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Trichloroethene (TCE)	µg/L	0.5 ^A	<0.20	<0.20	45 ^A	<0.20	<0.20	<0.20	<0.1	11 ^A	12 ^A	21 ^A	7.8 ^A	28 ^A	16 ^A	30 ^A	42 ^A	34 ^A	38 ^A	46 ^A	30 ^A	16 ^A		
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vinyl Chloride	µg/L	0.5 ^A	<0.20	<0.20	12 ^A	<0.20	<0.20	<0.20	2.7 ^A	2.6 ^A	5.2 ^A	2.2 ^A	2.6 ^A	4.5 ^A	6.9 ^A	6.4 ^A	6.3 ^A	6.5 ^A	8.5 ^A	8.3 ^A	7.8 ^A	9.3 ^A		

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-21B (Continued)																			MW08-21C					
Sample Date			1-Aug-17	25-Oct-17	13-Apr-18	18-Sep-18	17-Apr-19	20-Nov-19	10-Aug-20	15-Oct-20	27-Apr-21	23-Oct-08	21-Aug-09	27-Aug-10	4-Jul-13	11-Nov-13	7-May-14	26-Sep-14	14-Jul-15	24-Nov-15	20-Apr-16	16-Aug-16					
Sample ID			MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-21C					
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN					
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN					
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG					
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN					
Sample Type	Units	Ontario SCS																									
General Chemistry																											
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Petroleum Hydrocarbons																											
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Metals, Dissolved																											
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Polycyclic Aromatic Hydrocarbons																											
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location				MW08-21B (Continued)													MW08-21C						
Sample Date	Sample ID			1-Aug-17	25-Oct-17	13-Apr-18	18-Sep-18	17-Apr-19	20-Nov-19	10-Aug-20	15-Oct-20	27-Apr-21	23-Oct-08	21-Aug-09	27-Aug-10	4-Jul-13	11-Nov-13	7-May-14	26-Sep-14	14-Jul-15	24-Nov-15	20-Apr-16	16-Aug-16
Laboratory	Laboratory Work Order			MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21B	MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-21C	
Laboratory Sample ID	Sample Type	Units	Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	130 ^A	150 ^A	170 ^A	160 ^A	160 ^A	1.9 ^A	200 ^A	150 ^A	200 ^A	39 ^A	15 ^A	1.4	26 ^A	43 ^A	31 ^A	19 ^A	14 ^A	0.71	53 ^A	44 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	0.28	0.69 ^A	0.39	0.21	0.59 ^A	110 ^A	0.59 ^A	0.78 ^A	0.35	1.7 ^A	0.7 ^A	<0.1	0.86 ^A	0.52 ^A	0.80 ^A	36 ^A	0.34	<0.10	1.4 ^A	0.43	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	35 ^A	64 ^A	44 ^A	42 ^A	35 ^A	18 ^A	65 ^A	48 ^A	56 ^A	14 ^A	4.4 ^A	0.3	5.9 ^A	4.0 ^A	6.3 ^A	62 ^A	1.9 ^A	0.30	8.7 ^A	3.3 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	8.6 ^A	10 ^A	10 ^A	9.3 ^A	7.7 ^A	<0.20	24 ^A	12 ^A	17 ^A	3.7 ^A	1.1 ^A	<0.2	<0.20	4.6 ^A	3.6 ^A	0.88 ^A	2.0 ^A	<0.20	4.4 ^A	4.5 ^A	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-21C (Continued)										MW08-22A									
Sample Date			1-Aug-17	25-Oct-17	13-Apr-18	18-Sep-18	17-Apr-19	20-Nov-19	10-Aug-20	15-Oct-20	27-Apr-21	24-Oct-08	21-Aug-09	28-Aug-10	26-Jul-11	28-Jun-13	7-May-14	24-Nov-15	16-Aug-16	4-Aug-17	10-Apr-18	18-Nov-19
Sample ID			MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-21C	MW08-22A	MW08-22A	MW08-22A	MW08-22A	MW08-22A	MW08-22A	MW08-22A	MW08-22A	MW08-22A	MW08-22A	MW08-22A
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location				MW08-21C (Continued)								MW08-22A											
Sample Date	Sample ID			1-Aug-17 MW08-21C	25-Oct-17 MW08-21C	13-Apr-18 MW08-21C	18-Sep-18 MW08-21C	17-Apr-19 MW08-21C	20-Nov-19 MW08-21C	10-Aug-20 MW08-21C	15-Oct-20 MW08-21C	27-Apr-21 MW08-21C	24-Oct-08 MW08-22A	21-Aug-09 MW08-22A	28-Aug-10 MW08-22A	26-Jul-11 MW08-22A	28-Jun-13 MW08-22A	7-May-14 MW08-22A	24-Nov-15 MW08-22A	16-Aug-16 MW08-22A	4-Aug-17 MW08-22A	10-Apr-18 MW08-22A	18-Nov-19 MW08-22A
Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	51 ^A	130 ^A	110 ^A	10 ^A	130 ^A	220 ^A	200 ^A	280 ^A	270 ^A	1,100 ^A	180 ^A	1,200 ^A	5.1 ^A	83 ^A	35 ^A	450 ^A	170 ^A	130 ^A	18 ^A	170 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	1.0 ^A	0.38	0.92 ^A	<0.20	1.8 ^A	0.76 ^A	0.67 ^A	1.1 ^A	2.3 ^A	44 ^A	55 ^A	71 ^A	21 ^A	8.4 ^A	82 ^A	<10	4.3 ^A	13 ^A	14 ^A	8.2 ^A	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	11 ^A	3.4 ^A	7.8 ^A	<0.20	11 ^A	5.0 ^A	4.4 ^A	8.5 ^A	10 ^A	72 ^A	47 ^A	42 ^A	12 ^A	5.6 ^A	18 ^A	<10	2.6 ^A	7.7 ^A	7.8 ^A	5.9 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	5.6 ^A	16 ^A	20 ^A	3.7 ^A	31 ^A	18 ^A	20 ^A	23 ^A	26 ^A	1,400 ^A	91 ^A	1,200 ^A	<0.2	22 ^A	9.3 ^A	290 ^A	800 ^A	140 ^A	2.5 ^A	210 ^A	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-22A (Continued)									MW08-22B									MW08-22C			
Sample Date			4-Aug-20	19-Oct-20	29-Apr-21	24-Oct-08	19-Feb-09	21-Aug-09	28-Aug-10	26-Jul-11	28-Jun-13	7-May-14	24-Nov-15	16-Aug-16	4-Aug-17	10-Apr-18	18-Nov-19	4-Aug-20	29-Apr-21	24-Oct-08	15-May-09	21-Aug-09		
Sample ID			MW08-22A	MW08-22A	MW08-22A	MW08-22B	MW08-22B	MW08-22B	MW08-22B	MW08-22B	MW08-22B	MW08-22B	MW08-22B	MW08-22B	MW08-22B	MW08-22B	MW08-22B	MW08-22B	MW08-22B	MW08-22C	MW08-22C	MW08-22C		
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG		
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Sample Type	Units	Ontario SCS																						
General Chemistry																								
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Petroleum Hydrocarbons																								
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylene, m & p-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylene, o-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylenes, Total	µg/L	72 _{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 _{s7} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F2 (>C10-C16 range)	µg/L	150 _{s15} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F3 (>C16-C34 range)	µg/L	500 _{s8} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F4 (>C34-C50 range)	µg/L	500 _{s10} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Metals, Dissolved																								
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Polycyclic Aromatic Hydrocarbons																								
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene (Total)	µg/L	1,500 _{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene, 1-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene, 2-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-22A (Continued)				MW08-22B													MW08-22C		
Sample Date	Sample ID		4-Aug-20 MW08-22A	19-Oct-20 MW08-22A	29-Apr-21 MW08-22A	24-Oct-08 MW08-22B	19-Feb-09 MW08-22B	21-Aug-09 MW08-22B	28-Aug-10 MW08-22B	26-Jul-11 MW08-22B	28-Jun-13 MW08-22B	7-May-14 MW08-22B	24-Nov-15 MW08-22B	16-Aug-16 MW08-22B	4-Aug-17 MW08-22B	10-Apr-18 MW08-22B	18-Nov-19 MW08-22B	4-Aug-20 MW08-22B	29-Apr-21 MW08-22B	24-Oct-08 MW08-22C	15-May-09 MW08-22C	21-Aug-09 MW08-22C
Sampling Company	Laboratory	Laboratory Work Order	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID	Laboratory	Laboratory Work Order	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Sample Type	Units	Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	320 ^A	820 ^A	19 ^A	1,400 ^A	1,500 ^A	1,500 ^A	1,500 ^A	1.9 ^A	2,100 ^A	3,400 ^A	15,000 ^A	3,800 ^A	2,400 ^A	1,500 ^A	1,600 ^A	5,800 ^A	2,400 ^A	3,900 ^A	7,300 ^A	7,100 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	23 ^A	0.23	24 ^A	110,000 ^A	29,000 ^A	6,300 ^A	190 ^A	0.1	120 ^A	870 ^A	<10	36 ^A	54 ^A	5.3 ^A	6.1 ^A	9.5 ^A	26 ^A	<30	<10	<20
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	8.5 ^A	0.63 ^A	9.9 ^A	11,000 ^A	1,500 ^A	670 ^A	200 ^A	0.4	170 ^A	980 ^A	40 ^A	48 ^A	110 ^A	42 ^A	31 ^A	55 ^A	62 ^A	<30	21 ^A	<20
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	140 ^A	690 ^A	3.5 ^A	<2,000	1,700 ^A	960 ^A	1,700 ^A	<0.2	1,500 ^A	1,500 ^A	5,100 ^A	5,200 ^A	1,700 ^A	1,400 ^A	1,500 ^A	1,200 ^A	940 ^A	5,500 ^A	3,900 ^A	2,800 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

MW08-22C (Continued)																				
Sample Location			19-Feb-10 MW08-22C	3-Jun-10 MW08-22C	28-Aug-10 MW08-22C	30-Nov-10 MW08-22C	19-Jun-12 MW08-22C	2-Jul-13 MW08-22C	13-Nov-13 MW08-22C	7-May-14 MW08-22C	25-Sep-14 MW08-22C	15-Jul-15 MW08-22C	24-Nov-15 MW08-22C	21-Apr-16 MW08-22C	16-Aug-16 MW08-22C	4-Aug-17 MW08-22C	25-Oct-17 MW08-22C	10-Apr-18 MW08-22C	18-Sep-18 MW08-22C	16-Apr-19 MW08-22C
Sample Date			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Work Order			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																		
General Chemistry																				
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																				
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 ^{s1A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^{s7A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 ^{s15A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 ^{s8A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 ^{s10A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																				
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																				
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 ^{s3A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s9 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location				MW08-22C (Continued)																	
Sample Date	Sample ID			19-Feb-10	3-Jun-10	28-Aug-10	30-Nov-10	19-Jun-12	2-Jul-13	13-Nov-13	7-May-14	25-Sep-14	15-Jul-15	24-Nov-15	21-Apr-16	16-Aug-16	4-Aug-17	25-Oct-17	10-Apr-18	18-Sep-18	16-Apr-19
Sampling Company	Laboratory			MW08-22C	MW08-22C	MW08-22C	MW08-22C	MW08-22C	MW08-22C	MW08-22C	MW08-22C	MW08-22C	MW08-22C	MW08-22C	MW08-22C	MW08-22C	MW08-22C	MW08-22C	MW08-22C	MW08-22C	MW08-22C
Laboratory Work Order	Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type		Units	Ontario SCS	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Volatile Organic Compounds																					
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	6,100 ^A	6,100 ^A	2,400 ^A	980 ^A	210 ^A	3,100 ^A	3,500 ^A	590 ^A	3,400 ^A	9,800 ^A	22,000 ^A	4,300 ^A	6,100 ^A	2,200 ^A	5,400 ^A	2,300 ^A	2,700 ^A	500 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<20	<20	<20	250 ^A	<2.0	840 ^A	740 ^A	39 ^A	1,100 ^A	870 ^A	<10	12 ^A	100 ^A	<20	0.52 ^A	0.38	2.2 ^A	<0.20	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	<20	<20	52 ^A	220 ^A	7.1 ^A	1,200 ^A	1,700 ^A	180 ^A	2,800 ^A	2,400 ^A	<10	74 ^A	600 ^A	<20	8.9 ^A	11 ^A	29 ^A	1.2 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	1,600 ^A	4,600 ^A	720 ^A	960 ^A	44 ^A	720 ^A	900 ^A	190 ^A	830 ^A	2,300 ^A	5,100 ^A	3,400 ^A	1,800 ^A	1,100 ^A	2,300 ^A	2,500 ^A	1,400 ^A	880 ^A	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-22C (Continued)			MW08-23A															MW08-23B		
Sample Date			18-Nov-19	4-Aug-20	29-Apr-21	24-Oct-08	20-Aug-09	27-Aug-10	27-Jul-11	21-Nov-12	26-Jun-13	6-May-14	23-Nov-15	17-Aug-16	3-Aug-17	13-Apr-18	25-Nov-19	29-Jul-20	4-May-21	24-Oct-08	20-Aug-09	27-Aug-10	
Sample ID			MW08-22C	MW08-22C	MW08-22C	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23B	MW08-23B	MW08-23B	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS																					
General Chemistry																							
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																							
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72 ^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^A _{s7}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150 ^A _{s15}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500 ^A _{s8}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500 ^A _{s10}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																							
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500 ^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-22C (Continued)									MW08-23A									MW08-23B	
Sample Date			18-Nov-19	4-Aug-20	29-Apr-21	24-Oct-08	20-Aug-09	27-Aug-10	27-Jul-11	21-Nov-12	26-Jun-13	6-May-14	23-Nov-15	17-Aug-16	3-Aug-17	13-Apr-18	25-Nov-19	29-Jul-20	4-May-21	24-Oct-08	20-Aug-09	27-Aug-10
Sample ID			MW08-22C	MW08-22C	MW08-22C	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23A	MW08-23B	MW08-23B	MW08-23B
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	3,100 ^A	4,100 ^A	1,100 ^A	4.5 ^A	1.0	0.8	<1	0.57	1.4	0.33	<0.10	0.36	<0.50	<0.50	<0.50	<0.50	<0.50	19 ^A	31 ^A	100 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.20	2.2 ^A	<0.20	0.4	0.1	0.1	<1	<0.50	2.8 ^A	2.3 ^A	<0.10	0.13	<0.20	<0.20	25 ^A	0.34	3.2 ^A	0.6 ^A	2.3 ^A	7.8 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	1.5 ^A	140 ^A	1.1 ^A	0.5	0.2	0.2	<1	<0.50	3.3 ^A	0.17	<0.10	<0.10	<0.20	<0.20	0.63 ^A	<0.20	0.25	2.2 ^A	3.7 ^A	20 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	2,300 ^A	1,400 ^A	560 ^A	0.2	<0.2	<0.2	<2	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	0.5

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-23B (Continued)																			MW08-23C					
Sample Date			26-Jul-11	21-Nov-12	26-Jun-13	6-May-14	23-Nov-15	17-Aug-16	3-Aug-17	13-Apr-18	25-Nov-19	29-Jul-20	4-May-21	24-Oct-08	25-Mar-09	20-Aug-09	27-Aug-10	26-Jul-11	21-Nov-12	26-Jun-13	6-May-14	23-Nov-15					
Sample ID			MW08-23B	MW08-23B	MW08-23B	MW08-23B	MW08-23B	MW08-23B	MW08-23B	MW08-23B	MW08-23B	MW08-23B	MW08-23B	MW08-23C	MW08-23C	MW08-23C	MW08-23C	MW08-23C	MW08-23C	MW08-23C	MW08-23C	MW08-23C					
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN					
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN					
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG					
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN					
Sample Type	Units	Ontario SCS																									
General Chemistry																											
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Petroleum Hydrocarbons																											
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Metals, Dissolved																											
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Polycyclic Aromatic Hydrocarbons																											
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-23B (Continued)												MW08-23C														
Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Sample Type	Units	Ontario SCS	26-Jul-11 MW08-23B UNKNOWN UNKNOWN UNKNOWN	21-Nov-12 MW08-23B UNKNOWN UNKNOWN UNKNOWN	26-Jun-13 MW08-23B UNKNOWN UNKNOWN UNKNOWN	6-May-14 MW08-23B UNKNOWN UNKNOWN UNKNOWN	23-Nov-15 MW08-23B UNKNOWN UNKNOWN UNKNOWN	17-Aug-16 MW08-23B UNKNOWN UNKNOWN UNKNOWN	3-Aug-17 MW08-23B UNKNOWN UNKNOWN UNKNOWN	13-Apr-18 MW08-23B UNKNOWN UNKNOWN UNKNOWN	25-Nov-19 MW08-23B UNKNOWN UNKNOWN UNKNOWN	29-Jul-20 MW08-23B UNKNOWN UNKNOWN UNKNOWN	4-May-21 MW08-23B UNKNOWN UNKNOWN UNKNOWN	24-Oct-08 MW08-23C UNKNOWN UNKNOWN UNKNOWN	25-Mar-09 MW08-23C UNKNOWN UNKNOWN UNKNOWN	20-Aug-09 MW08-23C UNKNOWN UNKNOWN UNKNOWN	27-Aug-10 MW08-23C UNKNOWN UNKNOWN UNKNOWN	26-Jul-11 MW08-23C UNKNOWN UNKNOWN UNKNOWN	21-Nov-12 MW08-23C UNKNOWN UNKNOWN UNKNOWN	26-Jun-13 MW08-23C UNKNOWN UNKNOWN UNKNOWN	6-May-14 MW08-23C UNKNOWN UNKNOWN UNKNOWN	23-Nov-15 MW08-23C UNKNOWN UNKNOWN UNKNOWN	
Volatile Organic Compounds																													
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	27 ^A	31 ^A	32 ^A	23 ^A	24 ^A	5.0 ^A	75 ^A	39 ^A	14 ^A	7.0 ^A	4.4 ^A	18 ^A	21 ^A	29 ^A	110 ^A	35 ^A	30 ^A	33 ^A	23 ^A	22 ^A							
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	2.2 ^A	5.4 ^A	3.4 ^A	2.5 ^A	2.7 ^A	0.95 ^A	4.2 ^A	1.8 ^A	21 ^A	0.40	0.42	0.9 ^A	8.2 ^A	4.3 ^A	12 ^A	6.4 ^A	4.7 ^A	3.6 ^A	3.0 ^A	3.7 ^A							
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	4.3 ^A	9.7 ^A	6.7 ^A	4.3 ^A	4.3 ^A	1.0 ^A	12 ^A	5.5 ^A	3.7 ^A	1.4 ^A	1.4 ^A	2.7 ^A	5.6 ^A	6.4 ^A	26 ^A	7.1 ^A	8.2 ^A	6.7 ^A	4.9 ^A	4.9 ^A							
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	1.3 ^A	<0.40	<0.40	<0.40	<0.20	<0.20	<0.20	<0.20	1.1 ^A	5.0 ^A	2.2 ^A	<0.2	<0.2	<0.2	0.4	<0.2	<0.40	<0.50	<0.20	<0.20							

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type		Units	Ontario	SCS	MW08-23C (Continued)								MW08-24A											
					17-Aug-16	3-Aug-17	1-Mar-18	13-Apr-18	25-Nov-19	29-Jul-20	4-May-21	17-Oct-08	20-Aug-09	27-Aug-10	26-Jul-11	23-Nov-12	2-Jul-13	12-Nov-13	6-May-14	25-Nov-15	15-Aug-16	2-Aug-17	12-Apr-18	
					MW08-23C	MW08-23C	MW08-23C	MW08-23C	MW08-23C	MW08-23C	MW08-23C	MW08-24A	MW08-24A	MW08-24A	MW08-24A	MW08-24A	MW08-24A	MW08-24A	MW08-24A	MW08-24A	MW08-24A	MW08-24A	MW08-24A	
					UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
					HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
UNKNOWN					UNKNOWN																			
General Chemistry																								
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Petroleum Hydrocarbons																								
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Xylenes, Total	µg/L	72 _{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 _{s7} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F2 (>C10-C16 range)	µg/L	150 _{s15} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F3 (>C16-C34 range)	µg/L	500 _{s8} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F4 (>C34-C50 range)	µg/L	500 _{s10} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Metals, Dissolved																								
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Polycyclic Aromatic Hydrocarbons																								
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methylnaphthalene (Total)	µg/L	1,500 _{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-24A (Continued)											MW08-24B											
Sample Date			21-Nov-19	6-Aug-20	27-Apr-21	17-Oct-08	20-Aug-09	27-Aug-10	26-Jul-11	23-Nov-12	2-Jul-13	6-May-14	25-Nov-15	15-Aug-16	2-Aug-17	12-Apr-18	21-Nov-19	3-Jun-20	6-Aug-20	27-Apr-21					
Sample ID			MW08-24A	MW08-24A	MW08-24A	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B					
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN					
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN					
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG					
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN					
Sample Type	Units	Ontario SCS																							
General Chemistry																									
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Petroleum Hydrocarbons																									
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Xylene, m & p-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Xylene, o-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Xylenes, Total	µg/L	72 _{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 _{s7} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F2 (>C10-C16 range)	µg/L	150 _{s15} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F3 (>C16-C34 range)	µg/L	500 _{s8} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F4 (>C34-C50 range)	µg/L	500 _{s10} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Metals, Dissolved																									
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Polycyclic Aromatic Hydrocarbons																									
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methylnaphthalene (Total)	µg/L	1,500 _{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methylnaphthalene, 1-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methylnaphthalene, 2-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-24A (Continued)										MW08-24B							
Sample Date			21-Nov-19	6-Aug-20	27-Apr-21	17-Oct-08	20-Aug-09	27-Aug-10	26-Jul-11	23-Nov-12	2-Jul-13	6-May-14	25-Nov-15	15-Aug-16	2-Aug-17	12-Apr-18	21-Nov-19	3-Jun-20	6-Aug-20	27-Apr-21
Sample ID			MW08-24A	MW08-24A	MW08-24A	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B	MW08-24B
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																		
Volatile Organic Compounds																				
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	1.4	<0.50	<0.50	0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50	<0.50	0.81	<0.50	<0.50	<0.50
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	38 ^A	<0.20	0.46	<0.1	0.3	0.2	0.3	0.21	0.29	0.11	2.2 ^A	0.20	0.71 ^A	0.50	7.6 ^A	0.61 ^A	<0.20	<0.20
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	3.6 ^A	<0.20	<0.20	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	0.21	<0.20	0.53 ^A	<0.20	<0.20	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<0.20	<0.20	<0.20	0.3	0.3	0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.29	<0.27	<0.30	<0.20

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			17-Oct-08 MW08-24C UNKNOWN HISTWG UNKNOWN	20-Aug-09 MW08-24C UNKNOWN HISTWG UNKNOWN	27-Aug-10 MW08-24C UNKNOWN HISTWG UNKNOWN	26-Jul-11 MW08-24C UNKNOWN HISTWG UNKNOWN	23-Nov-12 MW08-24C UNKNOWN HISTWG UNKNOWN	2-Jul-13 MW08-24C UNKNOWN HISTWG UNKNOWN	12-Nov-13 MW08-24C UNKNOWN HISTWG UNKNOWN	6-May-14 MW08-24C UNKNOWN HISTWG UNKNOWN	26-Nov-15 MW08-24C UNKNOWN HISTWG UNKNOWN	MW08-24C 15-Aug-16 MW08-24C UNKNOWN HISTWG UNKNOWN	2-Aug-17 MW08-24C UNKNOWN HISTWG UNKNOWN	12-Apr-18 MW08-24C UNKNOWN HISTWG UNKNOWN	25-Nov-19 MW08-24C UNKNOWN HISTWG UNKNOWN	3-Jun-20 MW08-24C UNKNOWN HISTWG UNKNOWN	6-Aug-20 MW08-24C UNKNOWN HISTWG UNKNOWN	22-Sep-20 MW08-24C UNKNOWN HISTWG UNKNOWN	11-Dec-20 MW08-24C UNKNOWN HISTWG UNKNOWN	23-Feb-21 MW08-24C UNKNOWN HISTWG UNKNOWN	27-Apr-21 MW08-24C UNKNOWN HISTWG UNKNOWN	
	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v																				
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			17-Oct-08	20-Aug-09	27-Aug-10	26-Jul-11	23-Nov-12	2-Jul-13	12-Nov-13	6-May-14	26-Nov-15	MW08-24C									
Sample Date			MW08-24C	MW08-24C	MW08-24C	MW08-24C	MW08-24C	MW08-24C	MW08-24C	MW08-24C	MW08-24C	15-Aug-16	2-Aug-17	12-Apr-18	25-Nov-19	3-Jun-20	6-Aug-20	22-Sep-20	11-Dec-20	23-Feb-21	27-Apr-21
Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	MW08-24C	MW08-24C	MW08-24C	MW08-24C	MW08-24C	MW08-24C	MW08-24C	MW08-24C	MW08-24C	MW08-24C
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Work Order			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID																					
Sample Type	Units	Ontario SCS																			
Volatile Organic Compounds																					
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	3.4 ^A	2.1 ^A	3.2 ^A	1.4	0.54	<10	1.7 ^A	1.7 ^A	3.2 ^A	1.7 ^A	2.3 ^A	2.9 ^A	2.8 ^A	3.7 ^A	3.5 ^A	2.9 ^A	2.8 ^A	1.5	1.6
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	0.2	0.2	0.1	0.2	0.15	350 ^A	0.11	0.11	<0.10	0.20	0.26	0.25	0.24	0.21	0.22	0.22	0.22	0.30	<0.20
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	0.7 ^A	0.5	0.3	0.2	<0.10	<10	0.51 ^A	0.79 ^A	0.64 ^A	1.9 ^A	1.2 ^A	1.3 ^A	1.6 ^A	1.3 ^A	1.5 ^A	1.4 ^A	1.7 ^A	1.6 ^A	1.4 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	1.6 ^A	1.8 ^A	3.8 ^A	<0.2	<0.20	<20	2.3 ^A	1.4 ^A	<0.20	2.2 ^A	0.68 ^A	0.85 ^A	0.47	0.75 ^A	0.98 ^A	0.40	0.38	0.22	0.22

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-25A														MW08-25B					
Sample Date	Sample ID		23-Oct-08 MW08-25A	20-Aug-09 MW08-25A	30-Aug-10 MW08-25A	26-Jul-11 MW08-25A	21-Nov-12 MW08-25A	4-Jul-13 MW08-25A	7-May-14 MW08-25A	24-Nov-15 MW08-25A	18-Aug-16 MW08-25A	4-Aug-17 MW08-25A	18-Apr-18 MW08-25A	20-Nov-19 MW08-25A	5-Aug-20 MW08-25A	4-May-21 MW08-25A	23-Oct-08 MW08-25B	20-Aug-09 MW08-25B	30-Aug-10 MW08-25B	26-Jul-11 MW08-25B	21-Nov-12 MW08-25B	4-Jul-13 MW08-25B
Sampling Company	Laboratory	Laboratory Work Order	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID	Units	Ontario SCS	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN
Sample Type																						
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.1	<0.1	<0.1	<0.1	<0.50	<0.10	<0.10	<0.10	0.15	<0.10	<0.50	<0.50	<0.50	<0.50	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.1	0.2	2.8 ^A	0.2	<0.50	0.26	5.7 ^A	<0.10	0.56 ^A	<0.10	<0.20	87 ^A	<0.20	<0.20	<0.1	0.2	<0.1	<0.1	<0.10	0.38
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	<0.1	<0.1	0.4	<0.1	<0.50	<0.10	0.55 ^A	<0.10	<0.10	<0.10	<0.20	3.8 ^A	<0.20	<0.20	<0.1	<0.1	<0.1	<0.1	<0.10	0.11
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<0.2	<0.2	<0.2	<0.2	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-25B (Continued)										MW08-25C									
Sample Date			7-May-14	24-Nov-15	18-Aug-16	18-Aug-16	4-Aug-17	18-Apr-18	20-Nov-19	5-Aug-20	4-May-21	22-Oct-08	20-Aug-09	30-Aug-10	26-Jul-11	21-Nov-12	4-Jul-13	7-May-14	24-Nov-15	18-Aug-16	4-Aug-17	18-Apr-18
Sample ID			MW08-25B	MW08-25B	MW08-25B	MW08-25B	MW08-25B	MW08-25B	MW08-25B	MW08-25B	MW08-25B	MW08-25C	MW08-25C	MW08-25C	MW08-25C	MW08-25C	MW08-25C	MW08-25C	MW08-25C	MW08-25C	MW08-25C	MW08-25C
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS				Field Duplicate																
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.10	0.67	<0.10	0.22	0.88	<0.50	<0.50	<0.50	<0.50	<0.1	<0.1	<0.1	<0.1	<0.20	<0.10	34 ^A	22 ^A	3.1 ^A	17 ^A	3.5 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	1.6 ^A	<0.10	<0.10	0.26	0.57 ^A	<0.20	6.8 ^A	<0.20	0.26	<0.1	<0.1	<0.1	<0.1	<0.20	<0.10	7.3 ^A	5.1 ^A	1.2 ^A	9.4 ^A	2.1 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	0.16	<0.10	<0.10	<0.10	0.59 ^A	<0.20	0.26	<0.20	<0.20	<0.1	<0.1	<0.1	<0.1	<0.20	<0.10	9.4 ^A	6.5 ^A	0.89 ^A	10 ^A	2.2 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	<0.40	<0.20	1.8 ^A	<0.20	<0.20	0.32	<0.20

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Ontario SCS	MW08-25C (Continued)			24-Oct-08 MW08-26A UNKNOWN HISTWG UNKNOWN	20-Aug-09 MW08-26A UNKNOWN HISTWG UNKNOWN	27-Aug-10 MW08-26A UNKNOWN HISTWG UNKNOWN	26-Jul-11 MW08-26A UNKNOWN HISTWG UNKNOWN	26-Jun-13 MW08-26A UNKNOWN HISTWG UNKNOWN	6-May-14 MW08-26A UNKNOWN HISTWG UNKNOWN	MW08-26A			17-Aug-16 MW08-26A UNKNOWN HISTWG UNKNOWN	3-Aug-17 MW08-26A UNKNOWN HISTWG UNKNOWN	13-Apr-18 MW08-26A UNKNOWN HISTWG UNKNOWN	26-Nov-19 MW08-26A UNKNOWN HISTWG UNKNOWN	29-Jul-20 MW08-26A UNKNOWN HISTWG UNKNOWN	28-Apr-21 MW08-26A UNKNOWN HISTWG UNKNOWN	MW08-26B																
			20-Nov-19 MW08-25C UNKNOWN HISTWG UNKNOWN	5-Aug-20 MW08-25C UNKNOWN HISTWG UNKNOWN	4-May-21 MW08-25C UNKNOWN HISTWG UNKNOWN							24-Oct-08 MW08-26B UNKNOWN HISTWG UNKNOWN	20-Aug-09 MW08-26B UNKNOWN HISTWG UNKNOWN	27-Aug-10 MW08-26B UNKNOWN HISTWG UNKNOWN							26-Jul-11 MW08-26B UNKNOWN HISTWG UNKNOWN																
			General Chemistry																																		
			Chloride	mg/L	1,800 ^A							-	-	-							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			Cyanide (Free)	µg/L	52 ^A							-	-	-							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			pH, lab	S.U.	n/v							-	-	-							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			Petroleum Hydrocarbons																																		
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Metals, Dissolved																																					
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Polycyclic Aromatic Hydrocarbons																																					
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-														

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-25C (Continued)									MW08-26A							MW08-26B			
Sample Date	Sample ID		20-Nov-19 MW08-25C	5-Aug-20 MW08-25C	4-May-21 MW08-25C	24-Oct-08 MW08-26A	20-Aug-09 MW08-26A	27-Aug-10 MW08-26A	26-Jul-11 MW08-26A	26-Jun-13 MW08-26A	6-May-14 MW08-26A	23-Nov-15 MW08-26A	17-Aug-16 MW08-26A	3-Aug-17 MW08-26A	13-Apr-18 MW08-26A	26-Nov-19 MW08-26A	29-Jul-20 MW08-26A	28-Apr-21 MW08-26A	24-Oct-08 MW08-26B	20-Aug-09 MW08-26B	27-Aug-10 MW08-26B	26-Jul-11 MW08-26B
Sampling Company	Laboratory	Laboratory Work Order	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID	Units	Ontario SCS	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN
Sample Type																						
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	41 ^A	25 ^A	29 ^A	0.1	<0.1	0.1	<0.1	0.11	<0.10	<0.10	0.31	<0.50	<0.50	<0.50	<0.50	<0.50	17 ^A	0.9	0.1	0.1
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	13 ^A	17 ^A	12 ^A	<0.1	0.1	0.1	<0.1	0.12	<0.10	<0.10	<0.10	<0.20	<0.20	2.6 ^A	<0.20	<0.20	<0.1	1.3 ^A	0.1	<0.1
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	18 ^A	17 ^A	14 ^A	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10	<0.20	<0.20	0.25	<0.20	<0.20	<0.1	<0.1	<0.1	<0.1
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	3.7 ^A	1.5 ^A	1.4 ^A	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	3.0 ^A	<0.2	<0.2	<0.2

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-26B (Continued)										MW08-26C									
Sample Date	Sample ID		26-Jun-13 MW08-26B	6-May-14 MW08-26B	23-Nov-15 MW08-26B	17-Aug-16 MW08-26B	3-Aug-17 MW08-26B	13-Apr-18 MW08-26B	26-Nov-19 MW08-26B	29-Jul-20 MW08-26B	28-Apr-21 MW08-26B	17-Oct-08 MW08-26C	19-Feb-09 MW08-26C	15-May-09 MW08-26C	20-Aug-09 MW08-26C	20-Nov-09 MW08-26C	19-Feb-10 MW08-26C	3-Jun-10 MW08-26C	27-Aug-10 MW08-26C	17-Mar-11 MW08-26C	26-Jul-11 MW08-26C	19-Jun-12 MW08-26C
Sampling Company	Laboratory	Laboratory Work Order	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID	Units	Ontario SCS	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Sample Type			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.10	0.16	<0.10	<0.10	<0.50	<0.50	<0.50	<0.50	<0.50	16 ^A	21 ^A	35 ^A	31 ^A	43 ^A	25 ^A	24 ^A	15 ^A	12 ^A	15 ^A	13 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	0.13	<0.10	<0.10	<0.10	<0.20	<0.20	3.1 ^A	<0.20	<0.20	0.7 ^A	0.7 ^A	0.7 ^A	0.6 ^A	0.7 ^A	0.6 ^A	0.5	0.5	0.5	0.5	0.38
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	0.23	<0.10	<0.10	<0.10	<0.20	<0.20	0.50	<0.20	<0.20	0.6 ^A	0.7 ^A	0.7 ^A	0.5	0.9 ^A	0.6 ^A	0.7 ^A	0.7 ^A	0.6 ^A	0.4	0.58 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	2.0 ^A	3.6 ^A	6.3 ^A	5.3 ^A	7.6 ^A	2.0 ^A	4.3 ^A	4.8 ^A	2.1 ^A	1.8 ^A	4.1 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-26C (Continued)																				MW08-27A			
Sample Date			2-Jul-13	12-Nov-13	6-May-14	24-Sep-14	14-Jul-15	23-Nov-15	20-Apr-16	17-Aug-16	3-Aug-17	25-Oct-17	19-Sep-18	16-Apr-19	26-Nov-19	29-Jul-20	15-Oct-20	28-Apr-21	17-Oct-08	21-Aug-09	28-Aug-10	27-Jul-11				
Sample ID			MW08-26C	MW08-26C	MW08-26C	MW08-26C	MW08-26C	MW08-26C	MW08-26C	MW08-26C	MW08-26C	MW08-26C	MW08-26C	MW08-26C	MW08-26C	MW08-26C	MW08-26C	MW08-26C	MW08-27A	MW08-27A	MW08-27A	MW08-27A				
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN				
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN				
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG				
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN				
Sample Type	Units	Ontario SCS																								
General Chemistry																										
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Petroleum Hydrocarbons																										
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Metals, Dissolved																										
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Polycyclic Aromatic Hydrocarbons																										
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location										MW08-26C (Continued)														MW08-27A			
Sample Date	Sample ID		2-Jul-13 MW08-26C	12-Nov-13 MW08-26C	6-May-14 MW08-26C	24-Sep-14 MW08-26C	14-Jul-15 MW08-26C	23-Nov-15 MW08-26C	20-Apr-16 MW08-26C	17-Aug-16 MW08-26C	3-Aug-17 MW08-26C	25-Oct-17 MW08-26C	19-Sep-18 MW08-26C	16-Apr-19 MW08-26C	26-Nov-19 MW08-26C	29-Jul-20 MW08-26C	15-Oct-20 MW08-26C	28-Apr-21 MW08-26C	17-Oct-08 MW08-27A	21-Aug-09 MW08-27A	28-Aug-10 MW08-27A	27-Jul-11 MW08-27A					
Sampling Company	Laboratory		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN					
Laboratory Work Order	Laboratory Sample ID		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG					
Sample Type	Units	Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN					
Volatile Organic Compounds																											
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	31 ^A	37 ^A	12 ^A	25 ^A	14 ^A	51 ^A	16 ^A	19 ^A	16 ^A	18 ^A	10 ^A	<0.50	11 ^A	12 ^A	25 ^A	5.8 ^A	<0.1	0.2	0.3	0.3					
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Tetrachloroethene (PCE)	µg/L	0.5 ^A	0.71 ^A	0.46	0.46	0.33	0.36	0.71 ^A	0.43	0.41	0.21	0.24	0.21	<0.20	0.28	0.23	0.23	<0.20	<0.1	0.7 ^A	0.6 ^A	0.3					
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Trichloroethene (TCE)	µg/L	0.5 ^A	4.1 ^A	3.1 ^A	3.9 ^A	2.5 ^A	3.2 ^A	4.0 ^A	3.1 ^A	3.2 ^A	2.5 ^A	3.4 ^A	1.6 ^A	<0.20	0.94 ^A	1.8 ^A	1.9 ^A	1.1 ^A	<0.1	0.2	0.1	0.1					
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Vinyl Chloride	µg/L	0.5 ^A	3.2 ^A	4.8 ^A	2.9 ^A	5.4 ^A	6.2 ^A	10 ^A	5.7 ^A	4.8 ^A	7.2 ^A	4.4 ^A	8.5 ^A	<0.20	4.5 ^A	13 ^A	28 ^A	2.5 ^A	<0.2	<0.2	<0.2	<0.2					

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-27A (Continued)												MW08-27B							
Sample Date			23-Nov-12	27-Jun-13	12-Nov-13	8-May-14	25-Nov-15	18-Aug-16	2-Aug-17	18-Apr-18	25-Nov-19	7-Aug-20	4-May-21	17-Oct-08	21-Aug-09	28-Aug-10	27-Jul-11	MW08-27B	27-Jun-13	12-Nov-13	8-May-14	25-Nov-15
Sample ID			MW08-27A	MW08-27A	MW08-27A	MW08-27A	MW08-27A	MW08-27A	MW08-27A	MW08-27A	MW08-27A	MW08-27A	MW08-27A	MW08-27B	MW08-27B	MW08-27B	MW08-27B	MW08-27B	MW08-27B	MW08-27B	MW08-27B	MW08-27B
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-27A (Continued)															MW08-27B				
Sample Date	Sample ID		23-Nov-12 MW08-27A	27-Jun-13 MW08-27A	12-Nov-13 MW08-27A	8-May-14 MW08-27A	25-Nov-15 MW08-27A	18-Aug-16 MW08-27A	2-Aug-17 MW08-27A	18-Apr-18 MW08-27A	25-Nov-19 MW08-27A	7-Aug-20 MW08-27A	4-May-21 MW08-27A	17-Oct-08 MW08-27B	21-Aug-09 MW08-27B	28-Aug-10 MW08-27B	27-Jul-11 MW08-27B	23-Nov-12 MW08-27B	27-Jun-13 MW08-27B	12-Nov-13 MW08-27B	8-May-14 MW08-27B	25-Nov-15 MW08-27B
Sampling Company	Laboratory	Laboratory Work Order	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID	Units	Ontario SCS	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN
Sample Type																						
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	0.34	1.5	0.29	130 ^A	<0.10	0.32	<0.50	<0.50	<0.50	<0.50	<0.50	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	6.0 ^A	<0.10
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	1.1 ^A	47 ^A	0.42	5.3 ^A	1.3 ^A	0.34	5.1 ^A	0.41	2.5 ^A	0.27	0.35	<0.1	<0.1	<0.1	<0.1	<0.10	6.6 ^A	<0.10	0.28	2.8 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	0.18	5.0 ^A	0.16	30 ^A	<0.10	0.14	0.24	<0.20	0.42	<0.20	<0.20	<0.1	<0.1	<0.1	<0.1	<0.10	0.51 ^A	<0.10	0.90 ^A	<0.10
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<0.20	<0.40	<0.20	46 ^A	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	4.6 ^A	<0.20

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-27B (Continued)						MW08-27C											
Sample Date			18-Aug-16	2-Aug-17	18-Apr-18	25-Nov-19	7-Aug-20	4-May-21	23-Oct-08	27-Jul-11	27-Jun-13	12-Nov-13	8-May-14	25-Nov-15	18-Aug-16	2-Aug-17	18-Apr-18	25-Nov-19	10-Aug-20	4-May-21
Sample ID			MW08-27B	MW08-27B	MW08-27B	MW08-27B	MW08-27B	MW08-27B	MW08-27C	MW08-27C	MW08-27C	MW08-27C	MW08-27C	MW08-27C	MW08-27C	MW08-27C	MW08-27C	MW08-27C	MW08-27C	MW08-27C
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																		
General Chemistry																				
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																				
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 _{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 _{s7} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 _{s15} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 _{s8} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 _{s10} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																				
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																				
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 _{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-27B (Continued)								MW08-27C										
Sample Date			18-Aug-16	2-Aug-17	18-Apr-18	25-Nov-19	7-Aug-20	4-May-21	23-Oct-08	27-Jul-11	27-Jun-13	12-Nov-13	8-May-14	25-Nov-15	18-Aug-16	2-Aug-17	18-Apr-18	25-Nov-19	10-Aug-20	4-May-21	
Sample ID			MW08-27B	MW08-27B	MW08-27B	MW08-27B	MW08-27B	MW08-27B	MW08-27C	MW08-27C	MW08-27C	MW08-27C	MW08-27C	MW08-27C	MW08-27C	MW08-27C	MW08-27C	MW08-27C	MW08-27C	MW08-27C	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS																			
Volatile Organic Compounds																					
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.10	13 ^A	<0.50	<0.50	<0.50	<0.50	<0.1	<0.1	2.8 ^A	0.17	2.4 ^A	<0.10	<0.10	4.6 ^A	<0.50	<0.50	<0.50	<0.50	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.10	230 ^A	0.68 ^A	2.7 ^A	0.34	0.82 ^A	<0.1	<0.1	240 ^A	0.30	0.35	<0.10	<0.10	450 ^A	0.84 ^A	0.43	<0.20	<0.20	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	<0.10	16 ^A	<0.20	0.42	<0.20	<0.20	<0.1	<0.1	21 ^A	<0.10	0.25	<0.10	<0.10	16 ^A	<0.20	<0.20	<0.20	<0.20	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	<0.20	1.1 ^A	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<4.0	<0.20	0.37	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-28A													MW08-28B						
Sample Date			17-Oct-08	20-Aug-09	28-Aug-10	27-Jul-11	23-Nov-12	27-Jun-13	25-Nov-15	18-Aug-16	2-Aug-17	18-Apr-18	25-Nov-19	5-Aug-20	4-May-21	23-Oct-08	20-Aug-09	28-Aug-10	27-Jul-11	23-Nov-12	27-Jun-13	12-Nov-13
Sample ID			MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28B	MW08-28B	MW08-28B	MW08-28B	MW08-28B	MW08-28B	MW08-28B
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location									MW08-28A									MW08-28B				
Sample Date	Sample ID		17-Oct-08	20-Aug-09	28-Aug-10	27-Jul-11	23-Nov-12	27-Jun-13	25-Nov-15	18-Aug-16	2-Aug-17	18-Apr-18	25-Nov-19	5-Aug-20	4-May-21	23-Oct-08	20-Aug-09	28-Aug-10	27-Jul-11	23-Nov-12	27-Jun-13	12-Nov-13
Sampling Company	Laboratory		MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28A	MW08-28B	MW08-28B	MW08-28B	MW08-28B	MW08-28B	MW08-28B	MW08-28B
Laboratory Work Order	Laboratory Sample ID		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	950 ^A	840 ^A	1,100 ^A	650 ^A	3,000 ^A	1,800 ^A	1,200 ^A	2,800 ^A	700 ^A	670 ^A	1,400 ^A	1,500 ^A	740 ^A	210 ^A	270 ^A	310 ^A	270 ^A	180 ^A	910 ^A	750 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	8 ^A	29 ^A	110 ^A	19 ^A	44 ^A	42 ^A	0.83 ^A	<10	0.82 ^A	0.66 ^A	22 ^A	16 ^A	0.71 ^A	6 ^A	7.5 ^A	25 ^A	18 ^A	28 ^A	90 ^A	72 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	50 ^A	24 ^A	130 ^A	53 ^A	77 ^A	<10	0.54 ^A	<10	2.9 ^A	0.83 ^A	12 ^A	62 ^A	2.3 ^A	19 ^A	9.3 ^A	37 ^A	38 ^A	47 ^A	81 ^A	72 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	310 ^A	270 ^A	210 ^A	97 ^A	760 ^A	390 ^A	490 ^A	1,000 ^A	530 ^A	410 ^A	630 ^A	860 ^A	380 ^A	68 ^A	25 ^A	59 ^A	20 ^A	<20	200 ^A	200 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-28B (Continued)								MW08-28C					MW08-29A							
Sample Date			26-Nov-15	18-Aug-16	2-Aug-17	18-Apr-18	25-Nov-19	5-Aug-20	4-May-21		2-Aug-17	24-Oct-08	24-Oct-08	20-Aug-09	28-Aug-10	26-Jul-11	21-Nov-12	27-Jun-13	6-May-14	24-Nov-15	17-Aug-16	3-Aug-17	
Sample ID			MW08-28B	MW08-28B	MW08-28B	MW08-28B	MW08-28B	MW08-28B	MW08-28B		MW08-28C	MW08-29A	MW08-29A	MW08-29A	MW08-29A	MW08-29A	MW08-29A	MW08-29A	MW08-29A	MW08-29A	MW08-29A	MW08-29A	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS											Field Duplicate										
General Chemistry																							
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v																					
Petroleum Hydrocarbons																							
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																							
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	7,300 ^A	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-28B (Continued)							MW08-28C	MW08-29A										
Sample Date			26-Nov-15	18-Aug-16	2-Aug-17	18-Apr-18	25-Nov-19	5-Aug-20	4-May-21	2-Aug-17	24-Oct-08	24-Oct-08	20-Aug-09	28-Aug-10	26-Jul-11	21-Nov-12	27-Jun-13	6-May-14	24-Nov-15	17-Aug-16	3-Aug-17
Sample ID			MW08-28B	MW08-28B	MW08-28B	MW08-28B	MW08-28B	MW08-28B	MW08-28B	MW08-28C	MW08-29A	MW08-29A	MW08-29A	MW08-29A	MW08-29A	MW08-29A	MW08-29A	MW08-29A	MW08-29A	MW08-29A	MW08-29A
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS										Field Duplicate									
Volatile Organic Compounds																					
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	420 ^A	470 ^A	450 ^A	220 ^A	540 ^A	1,400 ^A	4,200 ^A	1.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.50
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	190 ^A	120 ^A	150 ^A	94 ^A	17 ^A	10 ^A	12 ^A	<0.20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	170 ^A	75 ^A	76 ^A	66 ^A	8.7 ^A	6.5 ^A	5.7 ^A	<0.20	<0.1	<0.1	<0.1	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	31 ^A	<20	150 ^A	11 ^A	210 ^A	540 ^A	1,500 ^A	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-29A (Continued)			MW08-29B															MW08-29C				
Sample Date			13-Apr-18	7-Aug-20	28-Apr-21	24-Oct-08	20-Aug-09	26-Jul-11	21-Nov-12	27-Jun-13	6-May-14	24-Nov-15	17-Aug-16	3-Aug-17	13-Apr-18	7-Aug-20	28-Apr-21	24-Oct-08	15-May-09	20-Aug-09	28-Aug-10	26-Jul-11			
Sample ID			MW08-29A	MW08-29A	MW08-29A	MW08-29B	MW08-29B	MW08-29B	MW08-29B	MW08-29B	MW08-29B	MW08-29B	MW08-29B	MW08-29B	MW08-29B	MW08-29B	MW08-29B	MW08-29C	MW08-29C	MW08-29C	MW08-29C	MW08-29C			
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN			
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN			
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG			
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN			
Sample Type	Units	Ontario SCS																							
General Chemistry																									
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Petroleum Hydrocarbons																									
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Xylene, m & p-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Xylene, o-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Xylenes, Total	µg/L	72 ^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^A _{s7}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F2 (>C10-C16 range)	µg/L	150 ^A _{s15}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F3 (>C16-C34 range)	µg/L	500 ^A _{s8}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
PHC F4 (>C34-C50 range)	µg/L	500 ^A _{s10}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Metals, Dissolved																									
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Polycyclic Aromatic Hydrocarbons																									
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methylnaphthalene (Total)	µg/L	1,500 ^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methylnaphthalene, 1-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methylnaphthalene, 2-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-29A (Continued)			MW08-29B													MW08-29C				
Sample Date	Sample ID		13-Apr-18	7-Aug-20	28-Apr-21	24-Oct-08	20-Aug-09	26-Jul-11	21-Nov-12	27-Jun-13	6-May-14	24-Nov-15	17-Aug-16	3-Aug-17	13-Apr-18	7-Aug-20	28-Apr-21	24-Oct-08	15-May-09	20-Aug-09	28-Aug-10	26-Jul-11	
Sampling Company	Laboratory		MW08-29A	MW08-29A	MW08-29A	MW08-29B	MW08-29B	MW08-29B	MW08-29B	MW08-29B	MW08-29B	MW08-29B	MW08-29B	MW08-29B	MW08-29B	MW08-29B	MW08-29B	MW08-29C	MW08-29C	MW08-29C	MW08-29C	MW08-29C	
Laboratory Work Order	Laboratory Sample ID		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.50	<0.50	<0.50	<0.1	<0.1	0.2	<0.20	<0.50	<0.10	<0.10	<0.10	<0.50	<0.50	<0.50	<0.50	<0.1	<0.1	<0.1	<0.1	<0.1	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.20	<0.20	0.34	<0.1	<0.1	<0.1	<0.20	<0.50	2.4 ^A	<0.10	0.30	0.67 ^A	<0.20	<0.20	0.51 ^A	<0.1	3.2 ^A	<0.1	<0.1	<0.1	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	<0.20	<0.20	<0.20	<0.1	<0.1	<0.1	<0.20	<0.50	0.40	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	<0.1	0.2	<0.1	<0.1	<0.1	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.40	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2	<0.2	<0.2	<0.2	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location				MW08-29C (Continued)										MW08-30A	MW08-30B	MW08-30C	MW08-34											
Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Sample Type	Units	Ontario SCS	21-Nov-12 MW08-29C UNKNOWN UNKNOWN UNKNOWN	27-Jun-13 MW08-29C UNKNOWN UNKNOWN UNKNOWN	6-May-14 MW08-29C UNKNOWN UNKNOWN UNKNOWN	24-Nov-15 MW08-29C UNKNOWN UNKNOWN UNKNOWN	17-Aug-16 MW08-29C UNKNOWN UNKNOWN UNKNOWN	3-Aug-17 MW08-29C UNKNOWN UNKNOWN UNKNOWN	13-Apr-18 MW08-29C UNKNOWN UNKNOWN UNKNOWN	7-Aug-20 MW08-29C UNKNOWN UNKNOWN UNKNOWN	28-Apr-21 MW08-29C UNKNOWN UNKNOWN UNKNOWN	5-Dec-08 MW08-30A UNKNOWN UNKNOWN UNKNOWN	5-Dec-08 MW08-30B UNKNOWN UNKNOWN UNKNOWN	5-Dec-08 MW08-30C UNKNOWN UNKNOWN UNKNOWN	19-Oct-11 MW08-34 UNKNOWN UNKNOWN UNKNOWN	15-Nov-11 MW08-34 UNKNOWN UNKNOWN UNKNOWN	15-Dec-11 MW08-34 UNKNOWN UNKNOWN UNKNOWN	27-Jun-13 MW08-34 UNKNOWN UNKNOWN UNKNOWN	8-May-14 MW08-34 UNKNOWN UNKNOWN UNKNOWN	4-Dec-14 MW08-34 UNKNOWN UNKNOWN UNKNOWN	12-May-15 MW08-34 UNKNOWN UNKNOWN UNKNOWN	11-Sep-15 MW08-34 UNKNOWN UNKNOWN UNKNOWN
Volatile Organic Compounds																												
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.10	0.54	<0.10	<0.10	0.32	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.2	1.3	<0.1	25,000 ^A	23,000 ^A	38,000 ^A	2,900 ^A	1,700 ^A	4,400 ^A	2,200 ^A	3,000 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	<0.10	<0.25	0.33	<0.10	0.27	<0.20	<0.20	<0.20	<0.20	<0.20	1.1 ^A	0.5	0.3	0.2	13,000 ^A	4,800 ^A	7,600 ^A	320 ^A	330 ^A	12 ^A	40 ^A	36 ^A				
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	<0.10	<0.25	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.1	0.3	<0.1	33,000 ^A	8,800 ^A	46,000 ^A	640 ^A	630 ^A	18 ^A	63 ^A	26 ^A				
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-34 (Continued)										MW08-36A									
Sample Date			23-Oct-15	16-Dec-15	11-Mar-16	28-Jul-16	16-Aug-16	27-Mar-19	30-Aug-19	20-Apr-20	18-Feb-09	21-Aug-09	28-Aug-10	27-Jul-11	27-Jun-12	23-Nov-12	3-Jul-13	8-May-14	25-Nov-15	15-Aug-16	26-Apr-17	2-Aug-17
Sample ID			MW08-34	MW08-34	MW08-34	MW08-34	MW08-34	MW08-34	MW08-34	MW08-34	MW08-36A	MW08-36A	MW08-36A	MW08-36A	MW08-36A	MW08-36A	MW08-36A	MW08-36A	MW08-36A	MW08-36A	MW08-36A	MW08-36A
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500s9 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-34 (Continued)										MW08-36A													
Sample Date	Sample ID		23-Oct-15 MW08-34	16-Dec-15 MW08-34	11-Mar-16 MW08-34	28-Jul-16 MW08-34	16-Aug-16 MW08-34	27-Mar-19 MW08-34	30-Aug-19 MW08-34	20-Apr-20 MW08-34	18-Feb-09 MW08-36A	21-Aug-09 MW08-36A	28-Aug-10 MW08-36A	27-Jul-11 MW08-36A	27-Jun-12 MW08-36A	23-Nov-12 MW08-36A	3-Jul-13 MW08-36A	8-May-14 MW08-36A	25-Nov-15 MW08-36A	15-Aug-16 MW08-36A	26-Apr-17 MW08-36A	2-Aug-17 MW08-36A				
Sampling Company	Laboratory		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN				
Laboratory Work Order	Laboratory Sample ID		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG				
Sample Type	Units	Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN				
Volatile Organic Compounds																										
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	5,600 ^A	3,100 ^A	940 ^A	4,700 ^A	2,100 ^A	4,300 ^A	8,100 ^A	6,800 ^A	5,300 ^A	1,900 ^A	1,900 ^A	3,500 ^A	7,300 ^A	16,000 ^A	7,100 ^A	10,000 ^A	14,000 ^A	560 ^A	23,000 ^A	23,000 ^A				
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Tetrachloroethene (PCE)	µg/L	0.5 ^A	39 ^A	36 ^A	100 ^A	24 ^A	27 ^A	5.8 ^A	89 ^A	23 ^A	250,000 ^A	37,000 ^A	9,100 ^A	9,700 ^A	4,600 ^A	5,000 ^A	2,200 ^A	190 ^A	<10	37 ^A	320 ^A	95 ^A				
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Trichloroethene (TCE)	µg/L	0.5 ^A	27 ^A	32 ^A	90 ^A	16 ^A	26 ^A	160 ^A	22 ^A	15 ^A	27,000 ^A	3,500 ^A	4,700 ^A	6,800 ^A	3,000 ^A	6,600 ^A	2,000 ^A	640 ^A	<10	83 ^A	2,200 ^A	530 ^A				
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Vinyl Chloride	µg/L	0.5 ^A	2,800 ^A	4,100 ^A	630 ^A	2,400 ^A	2,700 ^A	820 ^A	26,000 ^A	1,000 ^A	1,100 ^A	780 ^A	330 ^A	400 ^A	1,300 ^A	3,200 ^A	2,500 ^A	2,400 ^A	4,100 ^A	770 ^A	8,600 ^A	9,700 ^A				

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Ontario SCS	MW08-36A (Continued)										MW08-36B										21-Apr-16 MW08-36B UNKNOWN HISTWG UNKNOWN	15-Aug-16 MW08-36B UNKNOWN HISTWG UNKNOWN	2-Aug-17 MW08-36B UNKNOWN HISTWG UNKNOWN	27-Oct-17 MW08-36B UNKNOWN HISTWG UNKNOWN
			27-Oct-17 MW08-36A UNKNOWN HISTWG UNKNOWN	MW08-36A UNKNOWN HISTWG UNKNOWN	6-Jun-18 MW08-36A UNKNOWN HISTWG UNKNOWN	19-Sep-18 MW08-36A UNKNOWN HISTWG UNKNOWN	28-Nov-19 MW08-36A UNKNOWN HISTWG UNKNOWN	6-Aug-20 MW08-36A UNKNOWN HISTWG UNKNOWN	5-Mar-21 MW08-36A UNKNOWN HISTWG UNKNOWN	28-Apr-21 MW08-36A UNKNOWN HISTWG UNKNOWN	18-Feb-09 MW08-36B UNKNOWN HISTWG UNKNOWN	24-Aug-09 MW08-36B UNKNOWN HISTWG UNKNOWN	28-Aug-10 MW08-36B UNKNOWN HISTWG UNKNOWN	23-Nov-12 MW08-36B UNKNOWN HISTWG UNKNOWN	4-Jul-13 MW08-36B UNKNOWN HISTWG UNKNOWN	12-Nov-13 MW08-36B UNKNOWN HISTWG UNKNOWN	8-May-14 MW08-36B UNKNOWN HISTWG UNKNOWN	25-Nov-15 MW08-36B UNKNOWN HISTWG UNKNOWN								
General Chemistry																										
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
pH, lab	S.U.	n/v																								
Petroleum Hydrocarbons																										
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Toluene	µg/L	320 ^A	-																							
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Metals, Dissolved																										
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Polycyclic Aromatic Hydrocarbons																										
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-36A (Continued)										MW08-36B									
Sample Date	Sample ID		27-Oct-17	20-Apr-18	6-Jun-18	19-Sep-18	28-Nov-19	6-Aug-20	5-Mar-21	28-Apr-21	18-Feb-09	24-Aug-09	28-Aug-10	23-Nov-12	4-Jul-13	12-Nov-13	8-May-14	25-Nov-15	21-Apr-16	15-Aug-16	2-Aug-17	27-Oct-17
Sampling Company	Laboratory		MW08-36A	MW08-36A	MW08-36A	MW08-36A	MW08-36A	MW08-36A	MW08-36A	MW08-36A	MW08-36B	MW08-36B	MW08-36B	MW08-36B	MW08-36B	MW08-36B	MW08-36B	MW08-36B	MW08-36B	MW08-36B	MW08-36B	MW08-36B
Laboratory Work Order	Laboratory Sample ID		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	22,000 ^A	5,500 ^A	21,000 ^A	7,900 ^A	11,000 ^A	28,000 ^A	2,700 ^A	6,500 ^A	1,000 ^A	220 ^A	1,200 ^A	2,500 ^A	3,100 ^A	570 ^A	2,400 ^A	11,000 ^A	5,900 ^A	690 ^A	14,000 ^A	3,200 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	27 ^A	12 ^A	120 ^A	11 ^A	<0.20	12 ^A	3.2 ^A	9.6 ^A	22 ^A	36 ^A	55 ^A	33 ^A	47 ^A	12 ^A	36 ^A	<10	540 ^A	24 ^A	9.7 ^A	6.1 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	240 ^A	32 ^A	880 ^A	27 ^A	0.21	200 ^A	6.9 ^A	52 ^A	<5	45 ^A	47 ^A	74 ^A	170 ^A	25 ^A	89 ^A	<10	490 ^A	52 ^A	60 ^A	10 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	6,100 ^A	3,500 ^A	4,500 ^A	3,200 ^A	3,400 ^A	12,000 ^A	2,100 ^A	2,400 ^A	310 ^A	27 ^A	200 ^A	410 ^A	170 ^A	33 ^A	730 ^A	940 ^A	1,100 ^A	420 ^A	2,900 ^A	52 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Ontario SCS	MW08-36B (Continued)							MW08-37A										MW08-37A (Continued)				
			20-Apr-18	19-Sep-18	28-Nov-19	6-Aug-20	20-Oct-20	4-May-21	18-Feb-09	21-Aug-09	31-Aug-10	27-Jul-11	27-Jun-12	24-Nov-12	3-Jul-13	8-May-14	25-Nov-15	15-Aug-16	26-Apr-17	2-Aug-17	24-Oct-17	28-Feb-18		
			MW08-36B	MW08-36B	MW08-36B	MW08-36B	MW08-36B	MW08-36B	MW08-37A	MW08-37A	MW08-37A	MW08-37A	MW08-37A	MW08-37A	MW08-37A	MW08-37A	MW08-37A	MW08-37A	MW08-37A	MW08-37A	MW08-37A	MW08-37A		
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			General Chemistry																					
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Petroleum Hydrocarbons																								
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Metals, Dissolved																								
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Polycyclic Aromatic Hydrocarbons																								
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-36B (Continued)								MW08-37A								MW08-37A (Continued)			
Sample Date	Sample ID		20-Apr-18 MW08-36B	19-Sep-18 MW08-36B	28-Nov-19 MW08-36B	6-Aug-20 MW08-36B	20-Oct-20 MW08-36B	4-May-21 MW08-36B	18-Feb-09 MW08-37A	21-Aug-09 MW08-37A	31-Aug-10 MW08-37A	27-Jul-11 MW08-37A	27-Jun-12 MW08-37A	24-Nov-12 MW08-37A	3-Jul-13 MW08-37A	8-May-14 MW08-37A	25-Nov-15 MW08-37A	15-Aug-16 MW08-37A	26-Apr-17 MW08-37A	2-Aug-17 MW08-37A	24-Oct-17 MW08-37A	28-Feb-18 MW08-37A
Sampling Company	Laboratory	Laboratory Work Order	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID	Sample Type	Units	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN	HISTWG UNKNOWN
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	8,500 ^A	2,500 ^A	8,200 ^A	5,600 ^A	700 ^A	3,500 ^A	26,000 ^A	20,000 ^A	16,000 ^A	57,000 ^A	26,000 ^A	30,000 ^A	34,000 ^A	34,000 ^A	46,000 ^A	36,000 ^A	62,000 ^A	64,000 ^A	720 ^A	50,000 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	1.1 ^A	<2.0	0.52 ^A	0.28	0.24	<0.20	81,000 ^A	93,000 ^A	20,000 ^A	11,000 ^A	3,600 ^A	2,100 ^A	530 ^A	3,500 ^A	3,300 ^A	560 ^A	1,800 ^A	650 ^A	33 ^A	57,000 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	3.2 ^A	6.0 ^A	3.2 ^A	1.7 ^A	0.64 ^A	0.44	34,000 ^A	42,000 ^A	13,000 ^A	31,000 ^A	7,200 ^A	6,300 ^A	4,800 ^A	14,000 ^A	3,300 ^A	1,200 ^A	19,000 ^A	7,800 ^A	23 ^A	21,000 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	3,200 ^A	640 ^A	6,500 ^A	3,100 ^A	480 ^A	4,100 ^A	3,500 ^A	8,000 ^A	4,300 ^A	6,700 ^A	6,500 ^A	6,100 ^A	6,200 ^A	5,900 ^A	4,800 ^A	11,000 ^A	9,300 ^A	8,400 ^A	680 ^A	11,000 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location				20-Apr-18	18-Feb-09	24-Aug-09	30-Aug-10	27-Jul-11	8-May-14	MW08-37B	25-Nov-15	15-Aug-16	2-Aug-17	20-Apr-18	28-Nov-19	6-Aug-20	19-Feb-09	MW08-38A				24-Aug-09	28-Aug-10	26-Jul-11	24-Nov-12	27-Jun-13	7-May-14	24-Nov-15
Sample Date				MW08-37A	MW08-37B	MW08-37B	MW08-37B	MW08-37B	MW08-37B	MW08-37B	MW08-37B	MW08-37B	MW08-37B	MW08-37B	MW08-37B	MW08-37B	MW08-38A	MW08-38A	MW08-38A	MW08-38A	MW08-38A	MW08-38A	MW08-38A	MW08-38A	MW08-38A	MW08-38A	MW08-38A	
Sample ID				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sampling Company				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory				HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Work Order				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Sample ID				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS																										
General Chemistry																												
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																												
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																												
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																												
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location		N08-38A (Continued)						MW08-38B										MW08-38B (Continued)					
Sample Date		16-Aug-16	4-Aug-17	10-Apr-18	19-Nov-19	4-Aug-20	19-Feb-09	24-Aug-09	28-Aug-10	26-Jul-11	24-Nov-12	27-Jun-13	7-May-14	24-Nov-15	16-Aug-16	4-Aug-17	10-Apr-18	19-Nov-19	4-Aug-20	4-May-21	19-Feb-09		
Sample ID		MW08-38A	MW08-38A	MW08-38A	MW08-38A	MW08-38A	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38C		
Sampling Company		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Laboratory		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Laboratory Work Order		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG		
Laboratory Sample ID		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Sample Type	Units	Ontario SCS																					
General Chemistry																							
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Petroleum Hydrocarbons																							
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylene, m & p-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylene, o-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylenes, Total	µg/L	72 ^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^A _{s7}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F2 (>C10-C16 range)	µg/L	150 ^A _{s15}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F3 (>C16-C34 range)	µg/L	500 ^A _{s8}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F4 (>C34-C50 range)	µg/L	500 ^A _{s10}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Metals, Dissolved																							
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-								

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			N08-38A (Continued)					MW08-38B										MW08-38B (Continued)					
Sample Date			16-Aug-16	4-Aug-17	10-Apr-18	19-Nov-19	4-Aug-20	19-Feb-09	24-Aug-09	28-Aug-10	26-Jul-11	24-Nov-12	27-Jun-13	7-May-14	24-Nov-15	16-Aug-16	4-Aug-17	10-Apr-18	19-Nov-19	4-Aug-20	4-May-21	19-Feb-09	
Sample ID			MW08-38A	MW08-38A	MW08-38A	MW08-38A	MW08-38A	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38B	MW08-38C	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS																					
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	2.8 ^A	13 ^A	13 ^A	3.0 ^A	2.6 ^A	2.4 ^A	4.9 ^A	5.1 ^A	700 ^A	3.4 ^A	2.1 ^A	6.7 ^A	7.1 ^A	2.5 ^A	1.5	1.9 ^A	4.9 ^A	4.2 ^A	2.5 ^A	3.6 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	31 ^A	25 ^A	32 ^A	64 ^A	13 ^A	0.3	2.5 ^A	0.8 ^A	15 ^A	0.99 ^A	0.48	33 ^A	0.62 ^A	0.44	0.26	0.44	49 ^A	0.61 ^A	0.32	32 ^A	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	8.5 ^A	9.6 ^A	11 ^A	15 ^A	3.9 ^A	0.5	0.7 ^A	1.5 ^A	19 ^A	1.9 ^A	1.1 ^A	12 ^A	0.77 ^A	0.80 ^A	0.69 ^A	0.91 ^A	6.6 ^A	0.85 ^A	0.73 ^A	7.7 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	1.4 ^A	<0.20	<0.20	<0.20	<0.20	<0.2	0.5	1.1 ^A	320 ^A	<0.20	<0.20	<0.40	2.0 ^A	<0.20	<0.20	<0.20	0.24	0.49	<0.20	0.5	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location											MW08-38C												
Sample Date				15-May-09	3-Jun-10	2-Jul-13	7-May-14	24-Nov-15	21-Apr-16	16-Aug-16	4-Aug-17	25-Oct-17	10-Apr-18	18-Sep-18	16-Apr-19	19-Nov-19	4-Aug-20	4-May-21	4-May-21	19-Feb-09	24-Aug-09	28-Aug-10	27-Jul-11
Sample ID				MW08-38C	MW08-38C	MW08-38C	MW08-38C	MW08-38C	MW08-38C	MW08-38C	MW08-38C	MW08-38C	MW08-38C	MW08-38C	MW08-38C	MW08-38C	MW08-38C	MW08-38C	MW08-38C2	MW08-39A	MW08-39A	MW08-39A	MW08-39A
Sampling Company				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order				HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID				UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																					
General Chemistry																							
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																							
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 ^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^A _{s7}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 ^A _{s15}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 ^A _{s8}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 ^A _{s10}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																							
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 ^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location										MW08-38C																			
Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Sample Type	Units	Ontario SCS	15-May-09 MW08-38C UNKNOWN HISTWG UNKNOWN	3-Jun-10 MW08-38C UNKNOWN HISTWG UNKNOWN	2-Jul-13 MW08-38C UNKNOWN HISTWG UNKNOWN	7-May-14 MW08-38C UNKNOWN HISTWG UNKNOWN	24-Nov-15 MW08-38C UNKNOWN HISTWG UNKNOWN	21-Apr-16 MW08-38C UNKNOWN HISTWG UNKNOWN	16-Aug-16 MW08-38C UNKNOWN HISTWG UNKNOWN	4-Aug-17 MW08-38C UNKNOWN HISTWG UNKNOWN	25-Oct-17 MW08-38C UNKNOWN HISTWG UNKNOWN	10-Apr-18 MW08-38C UNKNOWN HISTWG UNKNOWN	18-Sep-18 MW08-38C UNKNOWN HISTWG UNKNOWN	16-Apr-19 MW08-38C UNKNOWN HISTWG UNKNOWN	19-Nov-19 MW08-38C UNKNOWN HISTWG UNKNOWN	4-Aug-20 MW08-38C UNKNOWN HISTWG UNKNOWN	4-May-21 MW08-38C UNKNOWN HISTWG UNKNOWN	4-May-21 MW08-38C2 UNKNOWN HISTWG UNKNOWN	19-Feb-09 MW08-39A UNKNOWN HISTWG UNKNOWN	24-Aug-09 MW08-39A UNKNOWN HISTWG UNKNOWN	28-Aug-10 MW08-39A UNKNOWN HISTWG UNKNOWN	27-Jul-11 MW08-39A UNKNOWN HISTWG UNKNOWN	
Volatile Organic Compounds																													
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	0.2	0.7	0.82	<0.10	<0.10	8.2 ^A	<0.10	0.69	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	8.6 ^A	<0.50	<0.1	0.4	0.1	<0.1	<0.1	<0.1
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	2.9 ^A	<0.1	0.23	<0.10	<0.10	48 ^A	0.14	0.33	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.49	0.80 ^A	25 ^A	<0.20	0.4	0.3	<0.1	<0.1
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	0.6 ^A	<0.1	0.16	<0.10	<0.10	20 ^A	<0.10	0.23	0.50	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	7.2 ^A	<0.20	<0.1	<0.1	<0.1	<0.1	<0.1
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<0.2	<0.2	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	0.25	<0.20	<0.2	0.3	<0.2	<0.2	<0.2

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			23-Nov-12	27-Jun-13	MW08-39A	25-Nov-15	18-Aug-16	4-Aug-17	19-Nov-19	31-Jul-20	29-Apr-21	19-Feb-09	MW08-39B	27-Jul-11	19-Feb-09	MW08-39C				3-Jun-10	28-Aug-10	30-Nov-10	17-Mar-11
Sample Date			MW08-39A	MW08-39A	MW08-39A	MW08-39A	MW08-39A	MW08-39A	MW08-39A	MW08-39A	MW08-39A	MW08-39B	MW08-39B	MW08-39B	MW08-39C	MW08-39C	MW08-39C	MW08-39C	MW08-39C	MW08-39C	MW08-39C	MW08-39C	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Work Order			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS																					
General Chemistry																							
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																							
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72 ^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^A _{s7}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150 ^A _{s15}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500 ^A _{s8}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500 ^A _{s10}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																							
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																							
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500 ^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW08-39C (Continued)												MW12-1A								MW12-1A (Continued)	
Sample Date			27-Jul-11	23-Nov-12	27-Jun-13	7-May-14	25-Nov-15	18-Aug-16	4-Aug-17	11-Apr-18	19-Nov-19	31-Jul-20	29-Apr-21	27-Jun-12	21-Nov-12	2-Jul-13	8-May-14	25-Nov-15	18-Aug-16	3-Aug-17	13-Apr-18	18-Nov-19		
Sample ID			MW08-39C	MW08-39C	MW08-39C	MW08-39C	MW08-39C	MW08-39C	MW08-39C	MW08-39C	MW08-39C	MW08-39C	MW08-39C	MW12-1A	MW12-1A	MW12-1A	MW12-1A	MW12-1A	MW12-1A	MW12-1A	MW12-1A	MW12-1A		
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Laboratory			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Laboratory Work Order			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Sample Type	Units	Ontario SCS																						
General Chemistry																								
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Petroleum Hydrocarbons																								
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Metals, Dissolved																								
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Polycyclic Aromatic Hydrocarbons																								
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			d)			MW12-1B							MW12-1C									
Sample Date			4-Aug-20	5-May-21	7-May-21	27-Jun-12	21-Nov-12	27-Jun-12	21-Nov-12	2-Jul-13	8-May-14	25-Nov-15	18-Aug-16	3-Aug-17	13-Apr-18	18-Nov-19	4-Aug-20	3-May-21	27-Jun-12	21-Nov-12	2-Jul-13	17-Jul-13
Sample ID			MW12-1A	MW12-1A	MW12-1A	MW12-1B	MW12-1B	MW12-1C	MW12-1C	MW12-1C	MW12-1C	MW12-1C	MW12-1C	MW12-1C	MW12-1C	MW12-1C	MW12-1C	MW12-1C	MW12-2A	MW12-2A	MW12-2A	MW12-2A
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 ^{s1A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^{s7A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 ^{s15A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 ^{s8A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 ^{s10A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 ^{s3A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s9 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			d)			MW12-1B							MW12-1C													
Sample Date			4-Aug-20	5-May-21	7-May-21	27-Jun-12	21-Nov-12	27-Jun-12	21-Nov-12	2-Jul-13	8-May-14	25-Nov-15	18-Aug-16	3-Aug-17	13-Apr-18	18-Nov-19	4-Aug-20	3-May-21	27-Jun-12	21-Nov-12	2-Jul-13	17-Jul-13				
Sample ID			MW12-1A	MW12-1A	MW12-1A	MW12-1B	MW12-1B	MW12-1C	MW12-1C	MW12-1C	MW12-1C	MW12-1C	MW12-1C	MW12-1C	MW12-1C	MW12-1C	MW12-1C	MW12-1C	MW12-2A	MW12-2A	MW12-2A	MW12-2A				
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN				
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN				
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG				
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN				
Sample Type	Units	Ontario SCS																								
Volatile Organic Compounds																										
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	0.92	0.83	1.5	4.0 ^A	4.9 ^A	0.24	0.98	0.95	2.0 ^A	1.3	1.3	0.79	<2.5	9.7 ^A	3.7 ^A	2.3 ^A	30 ^A	2,800 ^A	2,200 ^A	2,200 ^A				
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Tetrachloroethene (PCE)	µg/L	0.5 ^A	41 ^A	0.40	1.3 ^A	0.36	<0.10	1.6 ^A	0.80 ^A	2.5 ^A	1.5 ^A	1.1 ^A	0.69 ^A	0.34	<1.0	0.54 ^A	<0.20	<0.20	130 ^A	12,000 ^A	140,000 ^A	170,000 ^A				
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Trichloroethene (TCE)	µg/L	0.5 ^A	4.2 ^A	0.54 ^A	0.45	0.30	0.53 ^A	0.25	1.4 ^A	1.0 ^A	1.4 ^A	0.78 ^A	0.63 ^A	0.76 ^A	<1.0	1.5 ^A	0.50	0.32	61 ^A	6,500 ^A	11,000 ^A	11,000 ^A				
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Vinyl Chloride	µg/L	0.5 ^A	<0.20	<0.20	0.39	0.23	0.21	<0.20	<0.20	<0.20	1.9 ^A	<0.20	<0.20	<0.20	<1.0	0.21	0.35	0.42	<2.0	310 ^A	40 ^A	130 ^A				

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW12-2A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW12-2A																			
Sample Date	Sample ID		8-May-14 MW12-2A	24-Nov-15 MW12-2A	18-Aug-16 MW12-2A	26-Apr-17 MW12-2A	3-Aug-17 MW12-2A	24-Oct-17 MW12-2A	27-Feb-18 MW12-2A	27-Feb-18 MW12-2A	18-Apr-18 MW12-2A	6-Jun-18 MW12-2A	19-Mar-19 MW12-2A	29-Aug-19 MW12-2A	15-Nov-19 MW12-2A	22-Apr-20 MW12-2A	4-Aug-20 MW12-2A	4-Mar-21 MW12-2A	27-Jun-12 MW12-2B	21-Nov-12 MW12-2B	2-Jul-13 MW12-2B	17-Jul-13 MW12-2B
Sampling Company	Laboratory		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order	Laboratory Sample ID		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Sample Type	Units	Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	Field Duplicate	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	4,600 ^A	15,000 ^A	13,000 ^A	11,000 ^A	6,200 ^A	5,400 ^A	4,600 ^A	4,800 ^A	4,100 ^A	3,200 ^A	4,700 ^A	6,300 ^A	6,600 ^A	6,900 ^A	5,200 ^A	7,200 ^A	550 ^A	2,100 ^A	18,000 ^A	17,000 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	150,000 ^A	85,000 ^A	61,000 ^A	160,000 ^A	140,000 ^A	150,000 ^A	160,000 ^A	160,000 ^A	160,000 ^A	130,000 ^A	150,000 ^A	83,000 ^A	180,000 ^A	210,000 ^A	130,000 ^A	130,000 ^A	530 ^A	4,700 ^A	290 ^A	3,400 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	15,000 ^A	29,000 ^A	28,000 ^A	37,000 ^A	29,000 ^A	29,000 ^A	23,000 ^A	26,000 ^A	23,000 ^A	20,000 ^A	33,000 ^A	23,000 ^A	28,000 ^A	39,000 ^A	31,000 ^A	48,000 ^A	440 ^A	2,400 ^A	480 ^A	3,700 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<2,000	400 ^A	<200	390 ^A	140 ^A	140 ^A	<100	<100	110 ^A	70 ^A	82 ^A	59 ^A	43 ^A	62 ^A	32 ^A	49 ^A	21 ^A	<40	1,700 ^A	1,000 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location						MW12-2C										MW14-1A							
Sample Date			8-May-14	24-Nov-15	18-Aug-16	3-Aug-17	18-Apr-18	19-Mar-19	29-Aug-19	15-Nov-19	22-Apr-20	4-Aug-20	3-May-21		10-Oct-14	2-Dec-14	27-Jan-15	11-May-15	11-Sep-15	23-Oct-15	26-Nov-15	16-Dec-15	10-Mar-16
Sample ID			MW12-2C	MW12-2C	MW12-2C	MW12-2C	MW12-2C	MW12-2C	MW12-2C	MW12-2C	MW12-2C	MW12-2C	MW12-2C		MW14-1A	MW14-1A	MW14-1A	MW14-1A	MW14-1A	MW14-1A	MW14-1A	MW14-1A	MW14-1A
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG		UNKNOWN	UNKNOWN	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																					
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	1.8 ^A	1.7 ^A	1.2	0.97	2.0 ^A	1.4	50 ^A	1.0	<0.50	3.2 ^A	3,300 ^A	1,000 ^A	31,000 ^A	32,000 ^A	30,000 ^A	42,000 ^A	50,000 ^A	49,000 ^A	55,000 ^A	120,000 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	4.3 ^A	<0.10	0.16	2.3 ^A	0.85 ^A	3.5 ^A	6.2 ^A	7.8 ^A	24 ^A	0.23	120,000 ^A	6,400 ^A	130,000 ^A	130,000 ^A	69,000 ^A	52,000 ^A	62,000 ^A	65,000 ^A	73,000 ^A	38,000 ^A	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	0.51 ^A	0.26	0.15	0.60 ^A	0.34	0.98 ^A	5.8 ^A	2.1 ^A	5.5 ^A	0.37	40,000 ^A	1,800 ^A	35,000 ^A	49,000 ^A	38,000 ^A	62,000 ^A	90,000 ^A	44,000 ^A	91,000 ^A	75,000 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	<0.20	<0.20	<0.20	<0.20	<0.20	0.35	24 ^A	0.41	<0.20	4.7 ^A	24 ^A	130 ^A	230 ^A	630 ^A	1,700 ^A	1,100 ^A	2,000 ^A	2,900 ^A	3,100 ^A	2,800 ^A	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Ontario SCS	MW14-1A (Continued)										MW14-1B						MW14-1B (Continued)				10-Oct-14 MW14-2 UNKNOWN UNKNOWN HISTWG UNKNOWN	2-Dec-14 MW14-2 UNKNOWN UNKNOWN HISTWG UNKNOWN		
			29-Jul-16 MW14-1A UNKNOWN UNKNOWN HISTWG UNKNOWN	25-Apr-17 MW14-1A UNKNOWN UNKNOWN HISTWG UNKNOWN	2-Aug-17 MW14-1A UNKNOWN UNKNOWN HISTWG UNKNOWN	24-Oct-17 MW14-1A UNKNOWN UNKNOWN HISTWG UNKNOWN	5-Jun-18 MW14-1A UNKNOWN UNKNOWN HISTWG UNKNOWN	20-Sep-18 MW14-1A UNKNOWN UNKNOWN HISTWG UNKNOWN	19-Nov-19 MW14-1A UNKNOWN UNKNOWN HISTWG UNKNOWN	21-Apr-20 MW14-1A UNKNOWN UNKNOWN HISTWG UNKNOWN	9-Mar-21 MW14-1A UNKNOWN UNKNOWN HISTWG UNKNOWN	10-Oct-14 MW14-1B UNKNOWN UNKNOWN HISTWG UNKNOWN	2-Dec-14 MW14-1B UNKNOWN UNKNOWN HISTWG UNKNOWN	28-Jan-15 MW14-1B UNKNOWN UNKNOWN HISTWG UNKNOWN	11-May-15 MW14-1B UNKNOWN UNKNOWN HISTWG UNKNOWN	11-Sep-15 MW14-1B UNKNOWN UNKNOWN HISTWG UNKNOWN	23-Oct-15 MW14-1B UNKNOWN UNKNOWN HISTWG UNKNOWN	26-Nov-15 MW14-1B UNKNOWN UNKNOWN HISTWG UNKNOWN	16-Dec-15 MW14-1B UNKNOWN UNKNOWN HISTWG UNKNOWN	29-Jul-16 MW14-1B UNKNOWN UNKNOWN HISTWG UNKNOWN						
			General Chemistry																							
			Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-
			Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-
			pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-
			Petroleum Hydrocarbons																							
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Xylene, m & p-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Xylene, o-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Xylenes, Total	µg/L	72 ^A _{s1}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^A _{s7}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F2 (>C10-C16 range)	µg/L	150 ^A _{s15}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F3 (>C16-C34 range)	µg/L	500 ^A _{s8}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
PHC F4 (>C34-C50 range)	µg/L	500 ^A _{s10}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Metals, Dissolved																										
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Polycyclic Aromatic Hydrocarbons																										
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methylnaphthalene (Total)	µg/L	1,500 ^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methylnaphthalene, 1-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Methylnaphthalene, 2-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW14-1A (Continued)										MW14-1B					MW14-1B (Continued)				
Sample Date	Sample ID		29-Jul-16 MW14-1A	25-Apr-17 MW14-1A	2-Aug-17 MW14-1A	24-Oct-17 MW14-1A	5-Jun-18 MW14-1A	20-Sep-18 MW14-1A	19-Nov-19 MW14-1A	21-Apr-20 MW14-1A	9-Mar-21 MW14-1A	10-Oct-14 MW14-1B	2-Dec-14 MW14-1B	28-Jan-15 MW14-1B	11-May-15 MW14-1B	11-Sep-15 MW14-1B	23-Oct-15 MW14-1B	26-Nov-15 MW14-1B	16-Dec-15 MW14-1B	29-Jul-16 MW14-1B	10-Oct-14 MW14-2	2-Dec-14 MW14-2
Sampling Company	Laboratory		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order	Laboratory Sample ID		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Sample Type	Units	Ontario SCS	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	45,000 ^A	71,000 ^A	32,000 ^A	220,000 ^A	350,000 ^A	390,000 ^A	17,000 ^A	17,000 ^A	2,800 ^A	12,000 ^A	23,000 ^A	19,000 ^A	19,000 ^A	20,000 ^A	140,000 ^A	47,000 ^A	39,000 ^A	34,000 ^A	3,200 ^A	5,500 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	42,000 ^A	27,000 ^A	14,000 ^A	11,000 ^A	3,800 ^A	9,800 ^A	7.6 ^A	1.5 ^A	1,600 ^A	31,000 ^A	74,000 ^A	160,000 ^A	88,000 ^A	110,000 ^A	88,000 ^A	73,000 ^A	96,000 ^A	89,000 ^A	5,500 ^A	4,900 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	98,000 ^A	69,000 ^A	30,000 ^A	20,000 ^A	13,000 ^A	9,100 ^A	57 ^A	4.0 ^A	960 ^A	18,000 ^A	28,000 ^A	28,000 ^A	35,000 ^A	35,000 ^A	32,000 ^A	23,000 ^A	30,000 ^A	28,000 ^A	3,600 ^A	4,900 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	2,200 ^A	1,800 ^A	500 ^A	1,400 ^A	8,500 ^A	17,000 ^A	3,900 ^A	12,000 ^A	1,200 ^A	1,000 ^A	5,600 ^A	2,600 ^A	2,200 ^A	2,900 ^A	6,600 ^A	3,000 ^A	1,800 ^A	1,900 ^A	450 ^A	230 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Ontario SCS	MW14-2									MW14-3					MW14-3 (Continued)					
			27-Jan-15	11-May-15	11-Sep-15	22-Oct-15	26-Nov-15	17-Dec-15	11-Mar-16	28-Jul-16	10-Oct-14	28-Jan-15	12-May-15	11-Sep-15	22-Oct-15	25-Nov-15	17-Dec-15	11-Mar-16	28-Jul-16	10-Oct-14	28-Jan-15	12-May-15
			MW14-2	MW14-2	MW14-2	MW14-2	MW14-2	MW14-2	MW14-2	MW14-2	MW14-3	MW14-3	MW14-3	MW14-3	MW14-3	MW14-3	MW14-3	MW14-3	MW14-3	MW14-4	MW14-4	MW14-4
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW14-2								MW14-3					MW14-3 (Continued)									
Sample Date			27-Jan-15	11-May-15	11-Sep-15	22-Oct-15	26-Nov-15	17-Dec-15	11-Mar-16	28-Jul-16	10-Oct-14	28-Jan-15	12-May-15	11-Sep-15	22-Oct-15	25-Nov-15	17-Dec-15	11-Mar-16	28-Jul-16	10-Oct-14	28-Jan-15	12-May-15			
Sample ID			MW14-2	MW14-2	MW14-2	MW14-2	MW14-2	MW14-2	MW14-2	MW14-2	MW14-3	MW14-3	MW14-3	MW14-3	MW14-3	MW14-3	MW14-3	MW14-3	MW14-3	MW14-4	MW14-4	MW14-4			
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN			
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN			
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG			
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN			
Sample Type	Units	Ontario SCS																							
Volatile Organic Compounds																									
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	3,500 ^A	2,600 ^A	1,900 ^A	11,000 ^A	7,700 ^A	22,000 ^A	6,200 ^A	5,200 ^A	9,200 ^A	1,400 ^A	2,900 ^A	16 ^A	7.3 ^A	190 ^A	220 ^A	44 ^A	5.6 ^A	26,000 ^A	41,000 ^A	36,000 ^A			
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Tetrachloroethene (PCE)	µg/L	0.5 ^A	4,200 ^A	4,600 ^A	14,000 ^A	11,000 ^A	2,900 ^A	6,000 ^A	2,700 ^A	8,100 ^A	16,000 ^A	4,300 ^A	15,000 ^A	820 ^A	250 ^A	650 ^A	280 ^A	290 ^A	170 ^A	140,000 ^A	130,000 ^A	99,000 ^A			
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Trichloroethene (TCE)	µg/L	0.5 ^A	4,100 ^A	3,000 ^A	7,000 ^A	8,900 ^A	1,900 ^A	23,000 ^A	4,900 ^A	9,400 ^A	1,400 ^A	230 ^A	710 ^A	34 ^A	16 ^A	76 ^A	41 ^A	20 ^A	18 ^A	51,000 ^A	57,000 ^A	47,000 ^A			
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Vinyl Chloride	µg/L	0.5 ^A	610 ^A	550 ^A	270 ^A	480 ^A	790 ^A	750 ^A	540 ^A	190 ^A	3,000 ^A	41 ^A	1,100 ^A	0.82 ^A	0.21	20 ^A	2.8 ^A	4.0 ^A	0.20	5,500 ^A	7,600 ^A	7,100 ^A			

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW14-4						MW16-01						MW16-01 (Continued)						MW16-02	
Sample Date			11-Sep-15	22-Oct-15	26-Nov-15	17-Dec-15	11-Mar-16	28-Jul-16	11-Nov-16	26-Apr-17	1-Aug-17	24-Oct-17	28-Feb-18	6-Jun-18	20-Sep-18	29-Aug-19	14-Nov-19	20-Apr-20	24-Oct-16	26-Apr-17	4-Aug-17	25-Oct-17
Sample ID			MW14-4	MW14-4	MW14-4	MW14-4	MW14-4	MW14-4	MW16-01	MW16-01	MW16-01	MW16-01	MW16-01	MW16-01	MW16-01	MW16-01	MW16-01	MW16-01	MW16-02	MW16-02	MW16-02	MW16-02
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW14-4						MW16-01						MW16-01 (Continued)			MW16-02				
Sample Date			11-Sep-15	22-Oct-15	26-Nov-15	17-Dec-15	11-Mar-16	28-Jul-16	11-Nov-16	26-Apr-17	1-Aug-17	24-Oct-17	28-Feb-18	6-Jun-18	20-Sep-18	29-Aug-19	14-Nov-19	20-Apr-20	24-Oct-16	26-Apr-17	4-Aug-17	25-Oct-17
Sample ID			MW14-4	MW14-4	MW14-4	MW14-4	MW14-4	MW14-4	MW16-01	MW16-01	MW16-01	MW16-01	MW16-01	MW16-01	MW16-01	MW16-01	MW16-01	MW16-01	MW16-02	MW16-02	MW16-02	MW16-02
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																				
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	34,000 ^A	42,000 ^A	26,000 ^A	29,000 ^A	34,000 ^A	40,000 ^A	0.32	8,300 ^A	3,400 ^A	3,300 ^A	2,800 ^A	1,700 ^A	2,600 ^A	810 ^A	250 ^A	8.3 ^A	59 ^A	270 ^A	430 ^A	500 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	34,000 ^A	44,000 ^A	51,000 ^A	38,000 ^A	49,000 ^A	23,000 ^A	2.7 ^A	1,300 ^A	18,000 ^A	17,000 ^A	17,000 ^A	3,500 ^A	<0.20	14 ^A	6.7 ^A	6.8 ^A	68 ^A	29 ^A	13 ^A	8.8 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	32,000 ^A	48,000 ^A	26,000 ^A	38,000 ^A	43,000 ^A	25,000 ^A	1.3 ^A	3,200 ^A	6,000 ^A	5,800 ^A	4,700 ^A	1,800 ^A	410 ^A	64 ^A	22 ^A	8.6 ^A	160 ^A	13 ^A	2.3 ^A	1.3 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	8,000 ^A	8,400 ^A	5,000 ^A	9,000 ^A	8,300 ^A	9,800 ^A	<0.20	1,200 ^A	200 ^A	190 ^A	200 ^A	74 ^A	52 ^A	420 ^A	170 ^A	5.6 ^A	<0.20	<0.20	<4.0	<0.40

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location										MW16-03						MW16-03 (Continued)						MW19-01A		
Sample Date			26-Feb-18	13-Apr-18	5-Jun-18	24-Oct-16	24-Oct-16	26-Apr-17	2-Aug-17	27-Oct-17	28-Feb-18	20-Apr-18	6-Jun-18	14-Mar-19	27-Aug-19	19-Nov-19	28-Apr-20	5-Mar-21	14-Mar-19	29-Aug-19	3-Sep-19	15-Nov-19		
Sample ID			MW16-02	MW16-02	MW16-02	MW16-03	MW16-03	MW16-03	MW16-03	MW16-03	MW16-03	MW16-03	MW16-03	MW16-03	MW16-03	MW16-03	MW16-03	MW16-03	MW19-01A	MW19-01A	MW19-01A	MW19-01A		
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG		
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		
Sample Type	Units	Ontario SCS					Field Duplicate																	
General Chemistry																								
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																								
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 ^{s1A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^{s7A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 ^{s15A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 ^{s8A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 ^{s10A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																								
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																								
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 ^{s3A}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location										MW16-03						MW16-03 (Continued)						MW19-01A	
Sample Date			26-Feb-18	13-Apr-18	5-Jun-18	24-Oct-16	24-Oct-16	26-Apr-17	2-Aug-17	27-Oct-17	28-Feb-18	20-Apr-18	6-Jun-18	14-Mar-19	27-Aug-19	19-Nov-19	28-Apr-20	5-Mar-21	14-Mar-19	29-Aug-19	3-Sep-19	15-Nov-19	
Sample ID			MW16-02	MW16-02	MW16-02	MW16-03	MW16-03	MW16-03	MW16-03	MW16-03	MW16-03	MW16-03	MW16-03	MW16-03	MW16-03	MW16-03	MW16-03	MW16-03	MW19-01A	MW19-01A	MW19-01A	MW19-01A	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS					Field Duplicate																
Volatile Organic Compounds																							
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	330 ^A	290 ^A	230 ^A	14,000 ^A	14,000 ^A	10,000 ^A	12,000 ^A	9,000 ^A	2,200 ^A	2,000 ^A	2,000 ^A	2,200 ^A	5,700 ^A	1,600 ^A	1,800 ^A	3,200 ^A	110 ^A	570 ^A	19,000 ^A	360 ^A	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	5.0 ^A	7.2 ^A	4.4 ^A	23,000 ^A	23,000 ^A	31,000 ^A	23,000 ^A	13,000 ^A	150,000 ^A	160,000 ^A	99,000 ^A	110,000 ^A	13,000 ^A	95,000 ^A	71,000 ^A	140,000 ^A	340 ^A	100 ^A	28 ^A	18 ^A	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	1.4 ^A	2.3 ^A	3.3 ^A	30,000 ^A	31,000 ^A	28,000 ^A	33,000 ^A	25,000 ^A	54,000 ^A	55,000 ^A	57,000 ^A	42,000 ^A	23,000 ^A	35,000 ^A	29,000 ^A	49,000 ^A	95 ^A	47 ^A	47 ^A	30 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	0.23	0.59 ^A	2.6 ^A	2,900 ^A	2,900 ^A	1,700 ^A	1,500 ^A	830 ^A	190 ^A	110 ^A	140 ^A	45 ^A	59 ^A	27 ^A	31 ^A	80 ^A	3.3 ^A	270 ^A	1,800 ^A	130 ^A	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Ontario SCS	MW19-01B					MW19-02A					
			28-Apr-20	20-Mar-19	29-Aug-19	15-Nov-19	28-Apr-20	13-Mar-19	30-Aug-19	15-Nov-19	28-Apr-20	25-Sep-20	8-Mar-21
			MW19-01A	MW19-01B	MW19-01B	MW19-01B	MW19-01B	MW19-02A	MW19-02A	MW19-02A	MW19-02A	MW19-02A	MW19-02A
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			General Chemistry										
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons													
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	^A _{s1}	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 ^A _{s1}	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 ^A _{s7}	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 ^A _{s15}	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 ^A _{s8}	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 ^A _{s10}	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved													
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons													
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 ^A _{s3}	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	^A _{s3}	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location				MW19-01B					MW19-02A				
Sample Date			28-Apr-20	20-Mar-19	29-Aug-19	15-Nov-19	28-Apr-20	13-Mar-19	30-Aug-19	15-Nov-19	28-Apr-20	25-Sep-20	8-Mar-21
Sample ID			MW19-01A	MW19-01B	MW19-01B	MW19-01B	MW19-01B	MW19-02A	MW19-02A	MW19-02A	MW19-02A	MW19-02A	MW19-02A
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS											
Volatile Organic Compounds													
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	91 ^A	<0.50	14 ^A	<0.50	<0.50	140 ^A	880 ^A	510 ^A	75 ^A	230 ^A	320 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	200 ^A	0.49	3.6 ^A	<0.20	0.25	330 ^A	120 ^A	1,000 ^A	52 ^A	74 ^A	70 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	150 ^A	0.52 ^A	3.9 ^A	0.34	0.36	92 ^A	90 ^A	390 ^A	26 ^A	33 ^A	37 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	3.5 ^A	<0.20	0.25	<0.20	<0.20	50 ^A	270 ^A	100 ^A	14 ^A	62 ^A	96 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW19-02B					MW19-03A					MW19-03B				
Sample Date			13-Mar-19	29-Aug-19	15-Nov-19	28-Apr-20	8-Mar-21	14-Mar-19	30-Aug-19	14-Nov-19	28-Apr-20	8-Mar-21	14-Mar-19	30-Aug-19	14-Nov-19	28-Apr-20	8-Mar-21
Sample ID			MW19-02B	MW19-02B	MW19-02B	MW19-02B	MW19-02B	MW19-03A	MW19-03A	MW19-03A	MW19-03A	MW19-03A	MW19-03B	MW19-03B	MW19-03B	MW19-03B	MW19-03B
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS															
General Chemistry																	
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																	
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 _{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 _{s7} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 _{s15} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 _{s8} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 _{s10} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																	
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																	
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 _{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW19-02B					MW19-03A					MW19-03B				
Sample Date			13-Mar-19	29-Aug-19	15-Nov-19	28-Apr-20	8-Mar-21	14-Mar-19	30-Aug-19	14-Nov-19	28-Apr-20	8-Mar-21	14-Mar-19	30-Aug-19	14-Nov-19	28-Apr-20	8-Mar-21
Sample ID			MW19-02B	MW19-02B	MW19-02B	MW19-02B	MW19-02B	MW19-03A	MW19-03A	MW19-03A	MW19-03A	MW19-03A	MW19-03B	MW19-03B	MW19-03B	MW19-03B	MW19-03B
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS															
Volatile Organic Compounds																	
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	880 ^A	360 ^A	1,700 ^A	2,000 ^A	1,100 ^A	3,500 ^A	7,000 ^A	2,400 ^A	5,300 ^A	8,100 ^A	15 ^A	39 ^A	3.6 ^A	7.7 ^A	9.9 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	23 ^A	4.2 ^A	1.3 ^A	1.7 ^A	1.1 ^A	2,800 ^A	5,700 ^A	1,300 ^A	1,600 ^A	330 ^A	0.96 ^A	46 ^A	0.46	2.0 ^A	2.2 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	42 ^A	5.1 ^A	2.1 ^A	8.8 ^A	2.2 ^A	2,100 ^A	9,500 ^A	1,500 ^A	2,400 ^A	210 ^A	4.3 ^A	58 ^A	1.7 ^A	3.5 ^A	2.9 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	310 ^A	480 ^A	1,500 ^A	1,400 ^A	910 ^A	1,100 ^A	300 ^A	480 ^A	680 ^A	2,200 ^A	0.91 ^A	4.5 ^A	2.7 ^A	2.6 ^A	2.4 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type		Units	Ontario	SCS	MW19-04A					MW19-04B					MW19-05A						
					14-Mar-19	30-Aug-19	14-Nov-19	23-Apr-20	25-Sep-20	8-Mar-21	14-Mar-19	30-Aug-19	13-Nov-19	23-Apr-20	20-Oct-20	10-Mar-21	1-Mar-19	30-Aug-19	13-Nov-19	23-Apr-20	8-Mar-21
					MW19-04A	MW19-04A	MW19-04A	MW19-04A	MW19-04A	MW19-04A	MW19-04B	MW19-04B	MW19-04B	MW19-04B	MW19-04B	MW19-04B	MW19-05A	MW19-05A	MW19-05A	MW19-05A	MW19-05A
					UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
					HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN				
General Chemistry																					
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																					
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, m & p-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/L	s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/L	72s1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F1 (C6-C10 range) minus BTEX	µg/L	420s7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F2 (>C10-C16 range)	µg/L	150s15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F3 (>C16-C34 range)	µg/L	500s8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PHC F4 (>C34-C50 range)	µg/L	500s10 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals, Dissolved																					
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Polycyclic Aromatic Hydrocarbons																					
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene (Total)	µg/L	1,500s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 1-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylnaphthalene, 2-	µg/L	s3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW19-04A							MW19-04B						MW19-05A				
Sample Date			14-Mar-19	30-Aug-19	14-Nov-19	23-Apr-20	25-Sep-20	8-Mar-21	14-Mar-19	30-Aug-19	13-Nov-19	23-Apr-20	20-Oct-20	10-Mar-21	1-Mar-19	30-Aug-19	13-Nov-19	23-Apr-20	8-Mar-21	
Sample ID			MW19-04A	MW19-04A	MW19-04A	MW19-04A	MW19-04A	MW19-04A	MW19-04B	MW19-04B	MW19-04B	MW19-04B	MW19-04B	MW19-04B	MW19-05A	MW19-05A	MW19-05A	MW19-05A	MW19-05A	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS																		
Volatile Organic Compounds																				
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	7,300 ^A	9,200 ^A	11,000 ^A	50,000 ^A	45,000 ^A	51,000 ^A	910 ^A	51 ^A	7.8 ^A	0.58	190 ^A	63 ^A	7,000 ^A	4,400 ^A	6,800 ^A	11,000 ^A	1.1	
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	190,000 ^A	890 ^A	30,000 ^A	180,000 ^A	97,000 ^A	120,000 ^A	18 ^A	17 ^A	5.3 ^A	1.6 ^A	900 ^A	150 ^A	17,000 ^A	62,000 ^A	180,000 ^A	180,000 ^A	35 ^A	
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	26,000 ^A	650 ^A	4,100 ^A	89,000 ^A	86,000 ^A	76,000 ^A	69 ^A	29 ^A	3.9 ^A	0.57 ^A	1,200 ^A	76 ^A	1,200 ^A	14,000 ^A	24,000 ^A	37,000 ^A	2.7 ^A	
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	1,200 ^A	2,800 ^A	600 ^A	6,400 ^A	3,900 ^A	3,600 ^A	580 ^A	2.6 ^A	0.82 ^A	0.21	5.1 ^A	1.7 ^A	2,300 ^A	510 ^A	540 ^A	1,600 ^A	1.1 ^A	

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW19-05B					MW19-06A				MW19-06B				MW19-07A			
Sample Date			1-Mar-19	30-Aug-19	13-Nov-19	23-Apr-20	8-Mar-21	1-Mar-19	30-Aug-19	13-Nov-19	23-Apr-20	1-Mar-19	30-Aug-19	13-Nov-19	23-Apr-20	15-Mar-19	27-Aug-19	13-Nov-19	15-Apr-20
Sample ID			MW19-05B	MW19-05B	MW19-05B	MW19-05B	MW19-05B	MW19-06A	MW19-06A	MW19-06A	MW19-06A	MW19-06B	MW19-06B	MW19-06B	MW19-06B	MW19-07A	MW19-07A	MW19-07A	MW19-07A
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																	
Volatile Organic Compounds																			
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	2,100 ^A	2.2 ^A	6.7 ^A	2.0 ^A	1.9 ^A	62 ^A	16 ^A	24 ^A	18 ^A	<0.50	<0.50	5.0 ^A	<0.50	<0.50	2.8 ^A	0.67	0.95
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	39 ^A	<0.20	16 ^A	1.8 ^A	28 ^A	0.44	2.2 ^A	0.39	0.49	0.86 ^A	0.27	0.36	1.2 ^A	0.23	<0.20	<0.20	5.2 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	77 ^A	1.5 ^A	0.68 ^A	0.27	2.7 ^A	1.2 ^A	2.6 ^A	2.2 ^A	2.8 ^A	<0.20	1.4 ^A	0.33	0.27	<0.20	0.51 ^A	0.23	0.33
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	1,500 ^A	2.7 ^A	11 ^A	4.7 ^A	2.8 ^A	140 ^A	6.4 ^A	7.3 ^A	6.9 ^A	<0.20	<0.20	2.1 ^A	<0.20	<0.20	0.23	<0.20	<0.20

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW19-07B				MW19-08A					MW19-08B					MW19-09A				
Sample Date			15-Mar-19	27-Aug-19	13-Nov-19	15-Apr-20	1-Mar-19	3-Sep-19	15-Nov-19	15-Apr-20	4-Mar-21	1-Mar-19	27-Aug-19	14-Nov-19	21-Apr-20	10-Mar-21	1-Mar-19	3-Sep-19	13-Nov-19	22-Apr-20	4-Mar-21
Sample ID			MW19-07B	MW19-07B	MW19-07B	MW19-07B	MW19-08A	MW19-08A	MW19-08A	MW19-08A	MW19-08A	MW19-08B	MW19-08B	MW19-08B	MW19-08B	MW19-08B	MW19-09A	MW19-09A	MW19-09A	MW19-09A	MW19-09A
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																			
General Chemistry																					
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																					
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 _{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 _{s7} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 _{s15} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 _{s8} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 _{s10} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																					
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																					
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 _{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW19-07B				MW19-08A					MW19-08B					MW19-09A				
Sample Date			15-Mar-19	27-Aug-19	13-Nov-19	15-Apr-20	1-Mar-19	3-Sep-19	15-Nov-19	15-Apr-20	4-Mar-21	1-Mar-19	27-Aug-19	14-Nov-19	21-Apr-20	10-Mar-21	1-Mar-19	3-Sep-19	13-Nov-19	22-Apr-20	4-Mar-21
Sample ID			MW19-07B	MW19-07B	MW19-07B	MW19-07B	MW19-08A	MW19-08A	MW19-08A	MW19-08A	MW19-08A	MW19-08B	MW19-08B	MW19-08B	MW19-08B	MW19-08B	MW19-09A	MW19-09A	MW19-09A	MW19-09A	MW19-09A
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS																			
Volatile Organic Compounds																					
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	<0.50	0.53	<0.50	0.66	<0.50	2.9 ^A	8.2 ^A	6.9 ^A	7.0 ^A	<0.50	25 ^A	36 ^A	10 ^A	4.9 ^A	3,300 ^A	9,000 ^A	19,000 ^A	4,000 ^A	1,700 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	0.39	0.27	<0.20	<0.20	<0.20	0.27	<0.20	<0.20	0.23	1.1 ^A	<0.20	0.69 ^A	1.2 ^A	<0.20	420 ^A	22 ^A	25 ^A	6.0 ^A	9.5 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	<0.20	<0.20	0.26	0.28	<0.20	0.48	1.1 ^A	0.69 ^A	0.89 ^A	0.65 ^A	4.2 ^A	2.9 ^A	2.2 ^A	1.6 ^A	490 ^A	21 ^A	30 ^A	8.2 ^A	9.5 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	2.1 ^A	580 ^A	5,900 ^A	9,000 ^A	4,000 ^A	1,600 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location					MW19-09B					MW19-10A				MW19-10B				MW19-11A				
Sample Date			1-Mar-19	3-Sep-19	13-Nov-19	22-Apr-20	4-Mar-21		1-Mar-19	27-Aug-19	13-Nov-19	22-Apr-20	1-Mar-19	30-Aug-19	14-Nov-19	22-Apr-20	11-Apr-19	30-Aug-19	15-Nov-19	21-Apr-20	10-Mar-21	
Sample ID			MW19-09B	MW19-09B	MW19-09B	MW19-09B	MW19-09B		MW19-10A	MW19-10A	MW19-10A	MW19-10A	MW19-10B	MW19-10B	MW19-10B	MW19-10B	MW19-11A	MW19-11A	MW19-11A	MW19-11A	MW19-11A	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG		HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Ontario SCS																				
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	420 ^A	83,000 ^A	46,000 ^A	1,500 ^A	150 ^A	1,200 ^A	17,000 ^A	7,300 ^A	4,700 ^A	440 ^A	390 ^A	230 ^A	2,000 ^A	11 ^A	550 ^A	290 ^A	11 ^A	36 ^A		
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/L	s11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/L	0.5 ^A	3,000 ^A	2.7 ^A	3,400 ^A	87 ^A	140 ^A	27,000 ^A	22,000 ^A	4,400 ^A	24,000 ^A	78,000 ^A	130 ^A	1,500 ^A	1,900 ^A	81 ^A	1.1 ^A	0.62 ^A	0.37	0.38		
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/L	0.5 ^A	560 ^A	6.0 ^A	4,900 ^A	330 ^A	63 ^A	5,300 ^A	3,600 ^A	5,100 ^A	10,000 ^A	6,500 ^A	120 ^A	220 ^A	770 ^A	6.4 ^A	3.1 ^A	4.7 ^A	0.53 ^A	3.1 ^A		
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/L	0.5 ^A	54 ^A	13,000 ^A	7,200 ^A	670 ^A	52 ^A	64 ^A	12 ^A	2.8 ^A	2.8 ^A	<100	1.0 ^A	6.6 ^A	13 ^A	4.5 ^A	15 ^A	17 ^A	34 ^A	49 ^A		

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW19-11B						MW19-12A					MW19-12B						MW19-13A		
Sample Date			26-Mar-19	30-Aug-19	30-Aug-19	15-Nov-19	21-Apr-20	10-Mar-21	11-Apr-19	3-Sep-19	19-Nov-19	20-Apr-20	5-Mar-21	11-Apr-19	3-Sep-19	19-Nov-19	19-Nov-19	20-Apr-20	5-Mar-21	11-Apr-19	3-Sep-19	19-Nov-19
Sample ID			MW19-11B	MW19-11B	MW19-11B	MW19-11B	MW19-11B	MW19-11B	MW19-12A	MW19-12A	MW19-12A	MW19-12A	MW19-12A	MW19-12B	MW19-12B	MW19-12B	MW19-12B	MW19-12B	MW19-12B	MW19-13A	MW19-13A	MW19-13A
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS			Field Duplicate												Field Duplicate					
General Chemistry																						
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																						
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 _{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 _{s7} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 _{s15} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 _{s8} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 _{s10} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved																						
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons																						
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 _{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location			MW19-11B						MW19-12A					MW19-12B						MW19-13A		
Sample Date			26-Mar-19	30-Aug-19	30-Aug-19	15-Nov-19	21-Apr-20	10-Mar-21	11-Apr-19	3-Sep-19	19-Nov-19	20-Apr-20	5-Mar-21	11-Apr-19	3-Sep-19	19-Nov-19	19-Nov-19	20-Apr-20	5-Mar-21	11-Apr-19	3-Sep-19	19-Nov-19
Sample ID			MW19-11B	MW19-11B	MW19-11B	MW19-11B	MW19-11B	MW19-11B	MW19-12A	MW19-12A	MW19-12A	MW19-12A	MW19-12A	MW19-12B	MW19-12B	MW19-12B	MW19-12B	MW19-12B	MW19-12B	MW19-13A	MW19-13A	MW19-13A
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS			Field Duplicate												Field Duplicate					
Volatile Organic Compounds																						
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	210 ^A	26,000 ^A	27,000 ^A	30,000 ^A	14,000 ^A	46,000 ^A	6,600 ^A	5,000 ^A	4,200 ^A	1,700 ^A	26,000 ^A	9,900 ^A	500 ^A	510 ^A	460 ^A	44,000 ^A	62,000 ^A	12,000 ^A	49,000 ^A	86,000 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	7.1 ^A	4.9 ^A	69 ^A	85 ^A	60,000 ^A	400 ^A	100 ^A	6.5 ^A	82 ^A	30 ^A	940 ^A	10 ^A	2.3 ^A	5.9 ^A	6.4 ^A	130,000 ^A	95,000 ^A	100 ^A	17 ^A	23 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	6.6 ^A	64 ^A	400 ^A	470 ^A	16,000 ^A	6,700 ^A	440 ^A	42 ^A	52 ^A	81 ^A	6,000 ^A	400 ^A	12 ^A	19 ^A	16 ^A	55,000 ^A	31,000 ^A	1,700 ^A	200 ^A	200 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	160 ^A	2,500 ^A	1,500 ^A	5,800 ^A	1,700 ^A	5,000 ^A	660 ^A	440 ^A	510 ^A	240 ^A	2,300 ^A	2,200 ^A	160 ^A	130 ^A	120 ^A	6,800 ^A	11,000 ^A	200 ^A	870 ^A	1,600 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location							MW19-13B				MW19-14A	MW21-02A		MW21-02B
Sample Date			20-Apr-20	9-Mar-21	11-Apr-19	29-Aug-19	19-Nov-19	20-Apr-20	9-Mar-21	27-Mar-19	22-Mar-21	22-Mar-21	22-Mar-21	22-Mar-21
Sample ID			MW19-13A	MW19-13A	MW19-13B	MW19-13B	MW19-13B	MW19-13B	MW19-13B	MW19-14A	MW21-02A	MW21-02A	MW21-02B	MW21-02B
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS										Field Duplicate		Field Duplicate
General Chemistry														
Chloride	mg/L	1,800 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (Free)	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-
pH, lab	S.U.	n/v	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons														
Benzene	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/L	320 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	54 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, m & p-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	_{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/L	72 _{s1} ^A	-	-	-	-	-	-	-	-	-	-	-	-
PHC F1 (C6-C10 range) minus BTEX	µg/L	420 _{s7} ^A	-	-	-	-	-	-	-	-	-	-	-	-
PHC F2 (>C10-C16 range)	µg/L	150 _{s15} ^A	-	-	-	-	-	-	-	-	-	-	-	-
PHC F3 (>C16-C34 range)	µg/L	500 _{s8} ^A	-	-	-	-	-	-	-	-	-	-	-	-
PHC F4 (>C34-C50 range)	µg/L	500 _{s10} ^A	-	-	-	-	-	-	-	-	-	-	-	-
Metals, Dissolved														
Antimony	µg/L	16,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	1,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	23,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	53 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Boron	µg/L	36,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	640 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	52 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	69 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	20 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	7,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	390 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	50 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	1.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	1,800,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	400 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Uranium	µg/L	330 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	200 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	890 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Polycyclic Aromatic Hydrocarbons														
Acenaphthene	µg/L	17 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	1 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	1.8 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.81 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.75 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/L	0.4 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	44 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	290 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene (Total)	µg/L	1,500 _{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 1-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene, 2-	µg/L	_{s3} ^A	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	7 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	380 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	5.7 ^A	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Sample Location														
Sample Date			20-Apr-20	9-Mar-21	11-Apr-19	29-Aug-19	MW19-13B			MW19-14A	MW21-02A		MW21-02B	
Sample ID			MW19-13A	MW19-13A	MW19-13B	MW19-13B	MW19-13B	MW19-13B	MW19-13B	MW19-14A	MW21-02A	MW21-02A	MW21-02B	MW21-02B
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG	HISTWG
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Ontario SCS										Field Duplicate		Field Duplicate
Volatile Organic Compounds														
Acetone	µg/L	100,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	67,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/L	0.89 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/L	140 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	2 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	65,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/L	150 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/L	7,600 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/L	3,500 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/L	11 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/L	1.6 ^A	120,000 ^A	120,000 ^A	24,000 ^A	210,000 ^A	270,000 ^A	69,000 ^A	14,000 ^A	230,000 ^A	26 ^A	66 ^A	20 ^A	81 ^A
Dichloroethene, trans-1,2-	µg/L	1.6 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/L	0.58 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, 1,3- (sum of isomers cis + trans)	µg/L	0.5 _{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/L	_{s11} ^A	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.2 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/L	5 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	21,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	5,200 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	26 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	43 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/L	1.1 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/L	0.5 ^A	9.6 ^A	80 ^A	25,000 ^A	110 ^A	70 ^A	1.4 ^A	61 ^A	28,000 ^A	9.0 ^A	60 ^A	12 ^A	2,800 ^A
Trichloroethane, 1,1,1-	µg/L	23 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/L	0.5 ^A	130 ^A	50 ^A	48,000 ^A	1,600 ^A	1,700 ^A	26 ^A	46 ^A	13,000 ^A	9.1 ^A	52 ^A	5.1 ^A	210 ^A
Trichlorofluoromethane (Freon 11)	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	0.5 ^A	2,600 ^A	16,000 ^A	1,600 ^A	3,800 ^A	25,000 ^A	44,000 ^A	4,900 ^A	20,000 ^A	2.5 ^A	2.2 ^A	8.1 ^A	22 ^A

See notes on last page.

Table IIIb
Summary of Historical Groundwater Analytical Results
Proposed Hintonburg Development

Notes:	
Ontario SCS	Soil, Ground Water and Sediment Standards for Use under Part XV.I of the Environmental Protection Act (MOE, 2011) Site Condition Standards (SCS)
A	Table 7 - All Types of Property Use - Coarse Textured Soils
6.5 ^A	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
<0.50	Laboratory reporting limit was greater than the applicable standard.
<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
s1	Standard is applicable to total xylenes, and m & p-xylenes and o-xylenes should be summed for comparison.
s3	Standard is applicable to both 1-methylnaphthalene and 2-methylnaphthalene, with the provision that if both are detected the sum of the two must not exceed the standard.
s7	Standard is applicable to PHC in the F1 range minus BTEX.
s8	Standard is applicable to PHC in the F3 range, minus PAHs (other than naphthalene). If PAHs were not analyzed, the standard is applied to F3.
s10	If baseline is not reached during F4 analysis, then gravimetric analysis is to be performed, and the standard is applied to the higher of the two results.
s11	Standard is applicable to 1,3-Dichloropropene, and the individual isomers (cis + trans) should be added for comparison.
s15	Standard is applicable to PHC in the F2 range minus naphthalene. If naphthalene was not analyzed, the standard is applied to F2.
VOCL	VOC result based on an analysis taken from a previously analyzed sample vial (due to multiple dilutions). Results may be biased low.

Table IVa
Summary of Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location			VP07-1	VP07-3	VP12-1	VP12-2	VP12-3			VP14-1	VP14-2			VP14-3			VP14-4	VP14-7	VP14-10
Sample Date			21-Jun-23	21-Jun-23	21-Jun-23	21-Jun-23	21-Jun-23	21-Jun-23		21-Jun-23	21-Jun-23	21-Jun-23		22-Jun-23	22-Jun-23		26-Jun-23	21-Jun-23	21-Jun-23
Sample ID			VP07-1	VP07-3	VP12-1	VP12-2	VP12-3	VP12-3		VP14-1	VP14-2	VP14-2		VP14-3	VP14-3		VP14-4	VP14-7	VP14-10
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC		STANTEC	STANTEC	STANTEC		STANTEC	STANTEC		STANTEC	STANTEC	STANTEC
Laboratory			BV	BV	BV	BV	BV	BV		BV	BV	BV		BV	BV		BV	BV	BV
Laboratory Work Order			C3I4573	C3I4573	C3I4573	C3I4573	C3I4573	C3I4573		C3I4573	C3I4573	C3I4573		C3I4573	C3I4573		C3I7416	C3I4573	C3I4573
Laboratory Sample ID			WES137	WES138	WES139	WES140	WES141	WES146		WES142	WES143	WES143		WES147	WES148		WFH728	WES144	WES145
Sample Type	Units	Soil Vapour Criteria* Stantec						Field Duplicate	RPD (%)										
General Chemistry																			
Pressure on Receipt	psi	n/v	-5.4	-4.1	-4.7	-7.1	-5.4	-5.2	nc	-4.0	-3.6	-	-	-4.9	-4.9	nc	-6.5	-4.1	-6.6
Pressure on Receipt	in(hg)	n/v	-11.0	-8.3	-9.6	-14.5	-11.0	-10.6	nc	-8.1	-7.3	-	-	-10.0	-10.0	nc	-13.2	-8.3	-13.4
Petroleum Hydrocarbons																			
Aliphatic >C5-C6	µg/m3	n/v	<5.0	<5.0	7.0	10.4	<5.0	<5.0	nc	5.1	<5.0	<5.0	nc	5.1	<5.0	nc	<24	7.9	81.1
Aliphatic >C6-C8	µg/m3	8,223,673 ^A	<5.0	21.5	29.2	51.3	9.2	9.5	nc	28.3	17.1	17.3	nc	<5.0	<5.0	nc	<24	27.4	55.2
Aliphatic >C8-C10	µg/m3	446,939 ^A	16.4	75.4	94.3	96.1	52.2	50.6	3%	77.3	53.7	61.4	13%	18.7	18.2	nc	<24	86.3	79.8
Aliphatic >C10 - C12	µg/m3	446,939 ^A	24.6	42.4	54.8	18.6	55.3	52.2	6%	35.5	29.6	32.8	10%	27.3	25.0	9%	<24	45.0	34.9
Aliphatic >C12 - C16	µg/m3	446,939 ^A	<5.0	<5.0	<5.0	<9.5	<5.0	<5.0	nc	<5.0	<5.0	<5.0	nc	<5.0	<5.0	nc	<24	<5.0	<9.0
Sum of C>8-16 Aliphatic (detected)	µg/m3	446,939 ^A	41.0	117.8	149.1	114.7	107.5	102.8	4%	112.8	83.3	94.2	12%	46.0	43.2	6%	^	131.3	114.7
Sum of C>8-16 Aliphatic (incl ND = RDL)	µg/m3	446,939 ^A	<46.0	<122.8	<154.1	<124.2	<112.5	<107.8	4%	117.8	<88.3	<99.2	12%	<51.0	<48.2	6%	<72.0	<136.3	<123.7
Aromatic >C7-C8 (TEX Excluded)	µg/m3	n/v	<5.0	<5.0	<5.0	<9.5	<5.0	<5.0	nc	<5.0	<5.0	<5.0	nc	<5.0	<5.0	nc	<24	<5.0	<9.0
Aromatic >C8-C10	µg/m3	89,388 ^A	<5.0	11.8	15.7	12.7	12.6	12.3	nc	11.5	9.0	10.2	nc	5.0	5.4	nc	<24	14.6	12.4
Aromatic >C10 - C12	µg/m3	89,388 ^A	<5.0	<5.0	6.8	<9.5	7.3	7.3	nc	<5.0	<5.0	<5.0	nc	<5.0	<5.0	nc	<24	5.5	<9.0
Aromatic >C12 - C16	µg/m3	89,388 ^A	<5.0	<5.0	<5.0	<9.5	<5.0	<5.0	nc	<5.0	<5.0	<5.0	nc	<5.0	<5.0	nc	<24	<5.0	<9.0
Sum of C>8-16 Aromatic (detected)	µg/m3	89,388 ^A	^	11.8	22.5	12.7	19.9	19.6	nc	11.5	9.0	10.2	nc	5.0	5.4	nc	^	20.1	12.4
Sum of C>8-16 Aromatic (incl ND = RDL)	µg/m3	89,388 ^A	<15.0	<21.8	<27.5	<31.7	<24.9	<24.6	nc	<21.5	<19.0	<20.2	nc	<15.0	<15.4	nc	<72.0	<25.1	<30.4
Volatile Organic Compounds-Calculated																			
Acetone	µg/m3	2,860,408 ^A	3.2	4.5	33.6	26.9	7.7	6.2	nc	11.0	2.6	3.0	nc	2.4	3.6	nc	<6.8	5.8	3.3
Benzene	µg/m3	406 ^B	0.38	1.85	2.84	4.27	1.35	1.44	nc	2.25	1.23	1.42	nc	0.73	0.73	nc	<1.5	2.80	2.55
Benzyl Chloride	µg/m3	n/v	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	nc	<2.6	<2.6	<2.6	nc	<2.6	<2.6	nc	<12	<2.6	<4.7
Bromodichloromethane	µg/m3	n/v	<1.3	<1.3	<1.3	<2.5	<1.3	<1.3	nc	<1.3	<1.3	<1.3	nc	<1.3	<1.3	nc	<6.4	<1.3	<2.4
Bromoform (Tribromomethane)	µg/m3	n/v	<2.1	<2.1	<2.1	<3.9	<2.1	<2.1	nc	<2.1	<2.1	<2.1	nc	<2.1	<2.1	nc	<9.9	<2.1	<3.7
Bromomethane (Methyl bromide)	µg/m3	894 ^A	<0.39	<0.39	<0.39	<0.74	<0.39	<0.39	nc	<0.39	<0.39	<0.39	nc	<0.39	<0.39	nc	<1.9	<0.39	<0.70
Butadiene, 1,3-	µg/m3	n/v	<1.1	<1.1	<1.1	<2.1	<1.1	<1.1	nc	<1.1	<1.1	<1.1	nc	<1.1	<1.1	nc	<5.3	<1.1	<2.0
Carbon Disulfide	µg/m3	n/v	8.2	5.9	16.2	3.1	6.5	6.2	nc	<1.6	<1.6	<1.6	nc	<1.6	<1.6	nc	<7.5	<1.6	<2.8
Carbon Tetrachloride (Tetrachloromethane)	µg/m3	358 ^A	<0.63	0.83	0.66	<1.2	0.68	0.66	nc	0.88	<0.63	0.69	nc	6.44	6.21	4%	39.1	<0.63	<1.1
Chlorobenzene (Monochlorobenzene)	µg/m3	178,778 ^A	<0.46	<0.46	<0.46	<0.87	<0.46	<0.46	nc	<0.46	<0.46	<0.46	nc	<0.46	<0.46	nc	<2.2	<0.46	<0.83
Chloroethane (Ethyl Chloride)	µg/m3	n/v	<0.79	<0.79	<0.79	<1.5	<0.79	<0.79	nc	<0.79	<0.79	<0.79	nc	<0.79	<0.79	nc	<3.8	<0.79	<1.4
Chloroform (Trichloromethane)	µg/m3	17,878 ^A	7.85	1.77	1.62	<0.93	1.61	1.24	nc	3.98	0.90	0.95	nc	12.4	12.3	1%	27.8	12.9	7.41
Chloromethane	µg/m3	n/v	<0.62	0.64	2.20	1.5	0.85	0.84	nc	<0.62	<0.62	<0.62	nc	<0.62	<0.62	nc	<3.0	<0.62	<1.1
Cyclohexane	µg/m3	n/v	<0.69	1.40	0.90	3.3	<1.4	<0.69	nc	2.07	1.10	1.17	nc	<0.69	0.77	nc	<3.3	1.45	7.4
Dibromochloromethane	µg/m3	n/v	<1.7	<1.7	<1.7	<3.2	<1.7	<1.7	nc	<1.7	<1.7	<1.7	nc	<1.7	<1.7	nc	<8.2	<1.7	<3.1
Dichlorobenzene, 1,2-	µg/m3	107,265 ^A	<0.60	<0.60	<0.60	<1.1	<0.60	<0.60	nc	<0.60	<0.60	<0.60	nc	<0.60	<0.60	nc	<2.9	<0.60	<1.1
Dichlorobenzene, 1,3-	µg/m3	n/v	<2.4	<2.4	<2.4	<4.6	<2.4	<2.4	nc	<2.4	<2.4	<2.4	nc	<2.4	<2.4	nc	<12	<2.4	<4.3
Dichlorobenzene, 1,4-	µg/m3	223 ^A	<0.60	<0.60	<0.60	<1.1	<0.60	<0.60	nc	<0.60	<0.60	<0.60	nc	<0.60	<0.60	nc	<2.9	<0.60	<1.1
Dichlorodifluoromethane (Freon 12)	µg/m3	n/v	1.82	2.14	2.05	2.9	2.72	3.35	nc	2.40	2.14	2.49	nc	2.03	1.69	nc	<4.7	6.29	3.1
Dichloroethane, 1,1-	µg/m3	29,498 ^A	<0.40	0.68	<0.40	<0.77	<0.40	<0.40	nc	<0.40	<0.40	<0.40	nc	<0.40	<0.40	nc	<1.9	<0.40	<0.73
Dichloroethane, 1,2-	µg/m3	34 ^A	<0.40	<0.40	<0.40	<0.77	<0.40	<0.40	nc	<0.40	<0.40	<0.40	nc	<0.40	<0.40	nc	<1.9	<0.40	<0.73
Dichloroethene, 1,1-	µg/m3	35,755 ^A	<0.40	<0.40	<0.40	<0.75	<0.40	<0.40	nc	<0.40	<0.40	<0.40	nc	<0.40	<0.40	nc	<1.9	<0.40	<0.71
Dichloroethene, cis-1,2-	µg/m3	26,816 ^A	0.79	41.0	168	2.27	621	692	11%	1.38	<0.40	<0.40	nc	317	416	27%	6.6	<0.40	169
Dichloroethene, trans-1,2-	µg/m3	10,727 ^A	<0.40	1.43	9.56	<0.75	16.9	16.8	1%	0.83	<0.40	<0.40	nc	16.7	16.2	3%	<1.9	<0.40	28.3
Dichloropropane, 1,2-	µg/m3	715 ^A	<0.46	<0.46	<0.46	<0.88	<0.46	<0.46	nc	<0.46	<0.46	<0.46	nc	<0.46	<0.46	nc	<2.2	<0.46	<0.83
Dichloropropene, cis-1,3-	µg/m3	223 ^A	<0.45	<0.45	<0.45	<0.86	<0.45	<0.45	nc	<0.45	<0.45	<0.45	nc	<0.45	<0.45	nc	<2.2	<0.45	<0.82
Dichloropropene, trans-1,3-	µg/m3	n/v	<0.45	<0.45	<0.45	<0.86	<0.45	<0.45	nc	<0.45	<0.45	<0.45	nc	<0.45	<0.45	nc	<2.2	<0.45	<0.82
Dichlorotetrafluoroethane, 1,2- (Freon 114)	µg/m3	n/v	<1.2	<1.2	<1.2	<2.3	<1.2	<1.2	nc	<1.2	<1.2	<1.2	nc	<1.2	<1.2	nc	<5.7	<1.2	<2.1
Dioxane, 1,4-	µg/m3	643,592 ^A	<3.6	<3.6	<3.6	<6.8	<3.6	<3.6	nc	<3.6	<3.6	<3.6	nc	<3.6	<3.6	nc	<17	<3.6	<6.5
Ethanol	µg/m3	n/v	8.7	7.2	8.3	19.0	4.0	13.6	nc	8.1	4.9	5.3	nc	6.8	6.0	nc	14.2	7.1	6.5
Ethyl Acetate	µg/m3	n/v	<3.6	25.5	25.5	60.5	10.6	34.5	nc	34.5	19.0	20.3	7%	<3.6	<3.6	nc	<17	25.1	31.2
Ethylbenzene	µg/m3	357,551 ^A	0.65	4.09	5.10	4.37	3.17	2.82	12%	4.12	3.08	3.23	5%	1.05	1.07	nc	<2.1	4.45	3.80
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/m3	1,49 ^A	<0.77	<0.77	<0.77	<1.5	<0.77	<0.77	nc	<0.77	<0.77	<0.77	nc	<0.77	<0.77	nc	<3.7	<0.77	<1.4
Ethyltoluene, 4-	µg/m3	n/v	<2.5	<2.5	<2.5	<4.7	<2.5	<2.5	nc	<2.5	<2.5	<2.5	nc	<2.5	<2.5	nc	<12	<2.5	<4.4
Heptane (C7)	µg/m3	n/v	<1.2	2.9	4.0	6.8	1.5	2.2	nc	3.9	2.2	2.6	nc	<1.2	<1.2	nc	<5.9	3.9	3.9
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	µg/m3	41 ^A	<5.3	<5.3	<5.3	<10	<5.3	<5.3	nc	<5.3	<5.3	<5.3	nc	<5.3	<5.3	nc	<26	<5.3	<9.6
Hexane (n-Hexane)	µg/m3	536,300 ^A	<1.8	<8.8	<8.8	<19	<4.2	<3.2	nc	<12	<7.0	<7.0	nc	<0.70	<0.70	nc	<3.4	<9.2	<11
Hexanone, 2- (Methyl Butyl Ketone)	µg/m3	n/v	<4.1	<4.1	<4.1	<7.8	<4.1	<4.1	nc	<4.1	<4.1	<4.1	nc	<4.1	<4.1	nc	<20	<4.1	<7.4
Isopropyl Alcohol (2-Propanol)	µg/m3	n/v	<2.5	<2.5	3.1	<4.7	<2.5	<2.5	nc	<2.5	<2.5	<2.5	nc	<2.5	<2.5	nc	<12	<2.5	<4.4

Table IVa
Summary of Soil Vapour Analytical Results
Taggart Realty Redevelopment

Notes:	
*	Stantec Soil Vapour Criteria; Site specific criteria (soil vapour criteria - established by adjusting the Health Based Indoor Air Criteria (HBIAC) for attenuation through floor slab of a comercial building)
A	Stantec's soil vapour criteria considered representative of Safe indoor air values - Commercial Land use
6.5 ^A	Concentration exceeds the indicated soil vapour criteria.
15.2	Measured concentration did not exceed the indicated soil vapour criteria.
<0.50	Laboratory reporting limit was greater than the applicable soil vapour criteria.
<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No soil vapour criteria value.
-	Parameter not analyzed / not available.
RPD	Relative Percent Difference.
61%	RPD exceeds data quality objective of 30%.
nc	RPD is not calculated if one or more values is non detect or if one or more values is less than five times the reportable detection limit.
^	100% non-detect

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Soil Vapour Criteria* Stantec	MW03-44											VP03-4				
			8-Jun-10	10-Nov-11	25-Jun-12	26-Jul-13	18-Sep-14	16-Aug-16	9-Jun-17	30-Nov-18	10-Jul-19	26-May-20	12-Jun-17	30-Nov-18	11-Jul-19	25-May-20	16-Dec-20	
			MW03-44	MW03-44	MW03-44	MW03-44	MW03-44	MW03-44	MW03-44	MW03-44	MW03-44	MW03-44	VP03-4	VP03-4	VP03-4	VP03-4	VP03-4	
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	
UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN			
General Chemistry																		
Pressure on Receipt	in(hg)	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																		
Aliphatic >C5-C6	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aliphatic >C6-C8	µg/m3	8,223,673 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aliphatic >C8-C10	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aliphatic >C10 - C12	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aliphatic >C12 - C16	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sum of C>8-16 Aliphatic (detected)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sum of C>8-16 Aliphatic (incl ND = RDL)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aromatic >C7-C8 (TEX Excluded)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aromatic >C8-C10	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aromatic >C10 - C12	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aromatic >C12 - C16	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sum of C>8-16 Aromatic (detected)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sum of C>8-16 Aromatic (incl ND = RDL)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Volatile Organic Compounds-Calculated																		
Acetone	µg/m3	2,860,408 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzene	µg/m3	406 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzyl Chloride	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/m3	894 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Butadiene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Disulfide	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/m3	358 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroethane (Ethyl Chloride)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/m3	17,878 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyclohexane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/m3	107,265 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/m3	29,498 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/m3	34 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/m3	35,755 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/m3	26,816 ^A	<1.5	<1.5	<6.3	<0.75	<0.75	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	1.99	<0.40	
Dichloroethene, trans-1,2-	µg/m3	10,727 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/m3	715 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorotetrafluoroethane, 1,2- (Freon 114)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dioxane, 1,4-	µg/m3	643,592 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethanol	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/m3	357,551 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/m3	1,49 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethyltoluene, 4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Heptane (C7)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	µg/m3	41 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/m3	536,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexanone, 2- (Methyl Butyl Ketone)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Isopropyl Alcohol (2-Propanol)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/m3	250,687 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/m3	150,412 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/m3	3,438 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/m3	38,864 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/m3	661 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Propene	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/m3	46,482 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/m3	121 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/m3	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/m3	3,438 ^A	7.8	<2.7	<11	4.6	2.5	3.41	1.21	<0.68	2.37	1.21	12.9	2.78	20.3	8.19	0.68	
Tetrahydrofuran	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/m3	893,878 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorobenzene, 1,2,4-	µg/m3	1,430 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,1-	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/m3	56 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/m3	100/218 ^A	<3.2	<3.2	<14	2.2	1.9	1.81	0.57	<0.54	0.93	<0.54	1.65	<0.54	3.69	71.6	<0.54	
Trichlorofluoromethane (Freon 11)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorotrifluoroethane (Freon 113)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trimethylbenzene, 1,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trimethylbenzene, 1,3,5-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			MW03-44										VP03-4				
			8-Jun-10 MW03-44 UNKNOWN HISTSV UNKNOWN	10-Nov-11 MW03-44 UNKNOWN HISTSV UNKNOWN	25-Jun-12 MW03-44 UNKNOWN HISTSV UNKNOWN	26-Jul-13 MW03-44 UNKNOWN HISTSV UNKNOWN	18-Sep-14 MW03-44 UNKNOWN HISTSV UNKNOWN	16-Aug-16 MW03-44 UNKNOWN HISTSV UNKNOWN	9-Jun-17 MW03-44 UNKNOWN HISTSV UNKNOWN	30-Nov-18 MW03-44 UNKNOWN HISTSV UNKNOWN	10-Jul-19 MW03-44 UNKNOWN HISTSV UNKNOWN	26-May-20 MW03-44 UNKNOWN HISTSV UNKNOWN	12-Jun-17 VP03-4 UNKNOWN HISTSV UNKNOWN	30-Nov-18 VP03-4 UNKNOWN HISTSV UNKNOWN	11-Jul-19 VP03-4 UNKNOWN HISTSV UNKNOWN	25-May-20 VP03-4 UNKNOWN HISTSV UNKNOWN	16-Dec-20 VP03-4 UNKNOWN HISTSV UNKNOWN
Trimethylpentane, 2,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Bromide (Bromoethene)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/m3	102 ^A	<0.92	<0.92	<3.9	<0.46	<0.46	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Xylene, m & p-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/m3	125,143 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Soil Vapour Criteria* Stantec	VP05-1											VP05-2						
			29-Jun-10 VP05-1	9-Nov-11 VP05-1	25-Jun-12 VP05-1	25-Jul-13 VP05-1	17-Sep-14 VP05-1	30-Nov-15 VP05-1	15-Aug-16 VP05-1	7-Jun-17 VP05-1	9-Jul-19 VP05-1	26-May-20 VP05-1	7-Jun-10 VP05-2	10-Nov-11 VP05-2	25-Jun-12 VP05-2	24-Jul-13 VP05-2	17-Sep-14 VP05-2	1-Dec-15 VP05-2	15-Aug-16 VP05-2	
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			General Chemistry																	
Pressure on Receipt	in(hg)	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																				
Aliphatic >C5-C6	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aliphatic >C6-C8	µg/m3	8,223,673 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aliphatic >C8-C10	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aliphatic >C10 - C12	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aliphatic >C12 - C16	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sum of C>8-16 Aliphatic (detected)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sum of C>8-16 Aliphatic (incl ND = RDL)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aromatic >C7-C8 (TEX Excluded)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aromatic >C8-C10	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aromatic >C10 - C12	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aromatic >C12 - C16	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sum of C>8-16 Aromatic (detected)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sum of C>8-16 Aromatic (incl ND = RDL)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Volatile Organic Compounds-Calculated																				
Acetone	µg/m3	2,860,408 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzene	µg/m3	406 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzyl Chloride	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/m3	894 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Butadiene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Disulfide	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/m3	358 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroethane (Ethyl Chloride)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/m3	17,878 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyclohexane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/m3	107,265 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/m3	29,498 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/m3	34 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/m3	35,755 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/m3	26,816 ^A	<0.75	<0.75	<0.75	<0.75	<0.75	<0.40	<0.40	<0.40	<0.40	<0.40	<0.75	<0.75	<0.75	11.5	<0.75	<0.40	<0.40	
Dichloroethene, trans-1,2-	µg/m3	10,727 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/m3	715 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorotetrafluoroethane, 1,2- (Freon 114)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dioxane, 1,4-	µg/m3	643,592 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethanol	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/m3	357,551 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/m3	1.49 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethyltoluene, 4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Heptane (C7)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	µg/m3	41 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/m3	536,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexanone, 2- (Methyl Butyl Ketone)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Isopropyl Alcohol (2-Propanol)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/m3	250,687 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/m3	150,412 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/m3	3,438 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/m3	38,864 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/m3	661 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Propene	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/m3	46,482 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/m3	121 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/m3	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/m3	3,438 ^A	<1.4	<1.4	<1.4	3.1	<1.4	1.45	3.69	0.83	1.25	<0.68	31.3	4.7	53.9	404	67.9	11.6	151	
Tetrahydrofuran	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/m3	893,878 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorobenzene, 1,2,4-	µg/m3	1,430 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,1-	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/m3	56 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/m3	100/218 ^A	<1.6	<1.6	<1.6	<1.6	<1.6	<0.54	<0.54	<0.54	<0.54	<0.54	5.3	<1.6	5.0	67.1	6.0	1.06	8.42	
Trichlorofluoromethane (Freon 11)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorotrifluoroethane (Freon 113)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trimethylbenzene, 1,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trimethylbenzene, 1,3,5-	µg/m3	n/v	-	-																

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type		Soil Vapour Criteria* Stantec	VP05-1										VP05-2						
			29-Jun-10 VP05-1	9-Nov-11 VP05-1	25-Jun-12 VP05-1	25-Jul-13 VP05-1	17-Sep-14 VP05-1	30-Nov-15 VP05-1	15-Aug-16 VP05-1	7-Jun-17 VP05-1	9-Jul-19 VP05-1	26-May-20 VP05-1	7-Jun-10 VP05-2	10-Nov-11 VP05-2	25-Jun-12 VP05-2	24-Jul-13 VP05-2	17-Sep-14 VP05-2	1-Dec-15 VP05-2	15-Aug-16 VP05-2
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			Units																
Trimethylpentane, 2,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Bromide (Bromoethene)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/m3	102 ^A	<0.46	<0.46	<0.46	<0.46	<0.46	<0.26	<0.26	<0.26	<0.26	<0.26	<0.46	<0.46	<0.46	<0.46	<0.46	<0.26	<0.26
Xylene, m & p-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/m3	125,143 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			VP05-2 (Continued)												VP05-5							
			7-Jun-17 VP05-2 UNKNOWN HISTSV UNKNOWN	29-Nov-18 VP05-2 UNKNOWN HISTSV UNKNOWN	9-Jul-19 VP05-2 UNKNOWN HISTSV UNKNOWN	27-May-20 VP05-2 UNKNOWN HISTSV UNKNOWN	7-Jun-10 VP05-3 UNKNOWN HISTSV UNKNOWN	10-Nov-11 VP05-3 UNKNOWN HISTSV UNKNOWN	28-Jun-12 VP05-3 UNKNOWN HISTSV UNKNOWN	24-Jul-13 VP05-3 UNKNOWN HISTSV UNKNOWN	17-Sep-14 VP05-3 UNKNOWN HISTSV UNKNOWN	15-Aug-16 VP05-3 UNKNOWN HISTSV UNKNOWN	9-Jun-17 VP05-3 UNKNOWN HISTSV UNKNOWN	30-Nov-18 VP05-3 UNKNOWN HISTSV UNKNOWN	26-May-20 VP05-3 UNKNOWN HISTSV UNKNOWN	7-Jun-10 VP05-5 UNKNOWN HISTSV UNKNOWN	10-Nov-11 VP05-5 UNKNOWN HISTSV UNKNOWN	10-Nov-11 VP05-5 UNKNOWN HISTSV UNKNOWN Field Duplicate	RPD (%)	26-Jun-12 VP05-5 UNKNOWN HISTSV UNKNOWN	24-Jul-13 VP05-5 UNKNOWN HISTSV UNKNOWN	13-Aug-13 VP05-5 UNKNOWN HISTSV UNKNOWN
Trimethylpentane, 2,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Bromide (Bromoethene)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/m3	102 ^A	<0.26	<0.26	<0.26	<0.26	<1.8	<0.46	0.83	<0.46	1.97	<0.26	2.37	<0.26	<0.26	<0.92	0.78	<0.46	nc	15.9	61.8	4.00
Xylene, m & p-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/m3	125,143 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location			VP05-5 (Continued)								VP07-1									
Sample Date			15-Sep-14	30-Nov-15	15-Aug-16	7-Jun-17	19-Nov-18	8-Jul-19	27-May-20		8-Jun-10	11-Nov-11	24-Feb-12	27-Jun-12	26-Feb-13	29-Jul-13	2-Mar-14	16-Sep-14	2-Dec-15	8-Jun-17
Sample ID			VP05-5	VP05-5	VP05-5	VP05-5	VP05-5	VP05-5	VP05-5		VP07-1	VP07-1	VP07-1	VP07-1	VP07-1	VP07-1	VP07-1	VP07-1	VP07-1	VP07-1
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Soil Vapour Criteria* Stantec	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
General Chemistry																				
Pressure on Receipt	in(hg)	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																				
Aliphatic >C5-C6	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Aliphatic >C6-C8	µg/m3	8,223,673 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Aliphatic >C8-C10	µg/m3	446,939 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Aliphatic >C10 - C12	µg/m3	446,939 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Aliphatic >C12 - C16	µg/m3	446,939 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (detected)	µg/m3	446,939 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (incl ND = RDL)	µg/m3	446,939 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Aromatic >C7-C8 (TEX Excluded)	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Aromatic >C8-C10	µg/m3	89,388 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Aromatic >C10 - C12	µg/m3	89,388 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Aromatic >C12 - C16	µg/m3	89,388 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (detected)	µg/m3	89,388 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (incl ND = RDL)	µg/m3	89,388 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds-Calculated																				
Acetone	µg/m3	2,860,408 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Benzene	µg/m3	406 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Benzyl Chloride	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/m3	894 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Butadiene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/m3	358 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/m3	178,776 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Chloroethane (Ethyl Chloride)	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/m3	17,878 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Chloromethane	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Cyclohexane	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/m3	107,265 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/m3	223 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/m3	29,498 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/m3	34 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/m3	35,755 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/m3	26,816 ^A	<1.5	0.58	1.70	2.03	<0.40	2.18	3.69		38.7	313	205	30.7	15.8	3.26	2.06	2.86	0.79	<0.40
Dichloroethene, trans-1,2-	µg/m3	10,727 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/m3	715 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/m3	223 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Dichlorotetrafluoroethane, 1,2- (Freon 114)	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Dioxane, 1,4-	µg/m3	643,592 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Ethanol	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Ethyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/m3	357,551 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/m3	1.49 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Ethyltoluene, 4-	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Heptane (C7)	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	µg/m3	41 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/m3	536,300 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Hexanone, 2- (Methyl Butyl Ketone)	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Isopropyl Alcohol (2-Propanol)	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/m3	250,687 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/m3	150,412 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/m3	3,438 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/m3	38,864 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/m3	661 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Propene	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Styrene	µg/m3	46,482 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/m3	121 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/m3	15 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/m3	3,438 ^A	885	309	1,250	287	176	693	373		989	3,140	5,020 ^A	4,180 ^A	1,260	1,280	393	925	350	266
Tetrahydrofuran	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Toluene	µg/m3	893,878 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Trichlorobenzene, 1,2,4-	µg/m3	1,430 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,1-	µg/m3	178,776 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/m3	56 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/m3	100/218 ^A	104 ^A	34.8	200 ^A	36.8	20.7	87.4	41.5		245 ^A	537 ^A	546 ^A	533 ^A	221 ^A	167 ^A	72.6	190 ^A	76.5	45.5
Trichlorofluoromethane (Freon 11)	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Trichlorotrifluoroethane (Freon 113)	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,2,4-	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type		Soil Vapour Criteria* Stantec	VP05-5 (Continued)								VP07-1									
			15-Sep-14 VP05-5	30-Nov-15 VP05-5	15-Aug-16 VP05-5	7-Jun-17 VP05-5	19-Nov-18 VP05-5	8-Jul-19 VP05-5	27-May-20 VP05-5	Units	8-Jun-10 VP07-1	11-Nov-11 VP07-1	24-Feb-12 VP07-1	27-Jun-12 VP07-1	26-Feb-13 VP07-1	29-Jul-13 VP07-1	2-Mar-14 VP07-1	16-Sep-14 VP07-1	2-Dec-15 VP07-1	8-Jun-17 VP07-1
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Trimethylpentane, 2,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Bromide (Bromoethene)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/m3	102 ^A	<0.92	<0.26	<0.51	<0.26	<0.26	1.66	3.20		<0.92	<0.46	<0.46	<2.9	<0.26	<0.46	<0.460	<0.46	<0.26	<0.26
Xylene, m & p-	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/m3	n/v	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/m3	125,143 ^A	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type		Soil Vapour Criteria* Stantec	VP07-1 (Continued)		VP07-2								VP07-3								7-Jun-10 VP07-4 UNKNOWN UNKNOWN UNKNOWN HISTSV UNKNOWN	11-Nov-11 VP07-4 UNKNOWN UNKNOWN UNKNOWN HISTSV UNKNOWN					
			11-Jul-19 VP07-1 UNKNOWN UNKNOWN HISTSV UNKNOWN	17-Sep-20 VP07-1 UNKNOWN UNKNOWN HISTSV UNKNOWN	29-Jun-10 VP07-2 UNKNOWN UNKNOWN HISTSV UNKNOWN	11-Nov-11 VP07-2 UNKNOWN UNKNOWN HISTSV UNKNOWN	11-Nov-11 VP07-2 UNKNOWN UNKNOWN HISTSV UNKNOWN Field Duplicate	RPD (%)	1-Mar-12 VP07-2 UNKNOWN HISTSV UNKNOWN	27-Jun-12 VP07-2 UNKNOWN HISTSV UNKNOWN	26-Feb-13 VP07-2 UNKNOWN HISTSV UNKNOWN	29-Jul-13 VP07-2 UNKNOWN HISTSV UNKNOWN	7-Jun-10 VP07-3 UNKNOWN UNKNOWN HISTSV UNKNOWN	11-Nov-11 VP07-3 UNKNOWN UNKNOWN HISTSV UNKNOWN	11-Nov-11 VP07-3 UNKNOWN UNKNOWN HISTSV UNKNOWN Field Duplicate	RPD (%)	1-Mar-12 VP07-3 UNKNOWN HISTSV UNKNOWN	27-Jun-12 VP07-3 UNKNOWN UNKNOWN HISTSV UNKNOWN	26-Feb-13 VP07-3 UNKNOWN UNKNOWN HISTSV UNKNOWN	25-Jul-13 VP07-3 UNKNOWN UNKNOWN HISTSV UNKNOWN			10-Jul-19 VP07-3 UNKNOWN UNKNOWN HISTSV UNKNOWN				
			Trimethylpentane, 2,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	
			Vinyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	
			Vinyl Bromide (Bromoethene)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	
			Vinyl Chloride	µg/m3	102 ^A	<0.26	<0.51	<48	<1.8	<0.46	nc	<0.46	<27	<1.7	<2.4	21.4	<0.46	<0.46	nc	<0.46			<0.83	14.2	<0.46	<0.26	<0.46
			Xylene, m & p-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	
			Xylene, o-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	
Xylenes, Total	µg/m3	125,143 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					

See notes on last page.

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			VP07-4									VP07-5						VP07-6					
			11-Nov-11 VP07-4 UNKNOWN HISTSV UNKNOWN Field Duplicate	RPD (%)	24-Feb-12 VP07-4 UNKNOWN HISTSV UNKNOWN Field Duplicate	24-Feb-12 VP07-4 UNKNOWN HISTSV UNKNOWN Field Duplicate	RPD (%)	27-Jun-12 VP07-4 UNKNOWN HISTSV UNKNOWN	26-Feb-13 VP07-4 UNKNOWN HISTSV UNKNOWN	25-Jul-13 VP07-4 UNKNOWN HISTSV UNKNOWN	7-Jun-10 VP07-5 UNKNOWN HISTSV UNKNOWN	11-Nov-11 VP07-5 UNKNOWN HISTSV UNKNOWN	26-Jun-12 VP07-5 UNKNOWN HISTSV UNKNOWN	25-Jul-13 VP07-5 UNKNOWN HISTSV UNKNOWN	1-Dec-15 VP07-5 UNKNOWN HISTSV UNKNOWN	15-Jul-19 VP07-5 UNKNOWN HISTSV UNKNOWN	25-May-20 VP07-5 UNKNOWN HISTSV UNKNOWN	7-Jun-10 VP07-6 UNKNOWN HISTSV UNKNOWN	10-Nov-11 VP07-6 UNKNOWN HISTSV UNKNOWN	28-Jun-12 VP07-6 UNKNOWN HISTSV UNKNOWN	26-Jul-13 VP07-6 UNKNOWN HISTSV UNKNOWN	16-Sep-14 VP07-6 UNKNOWN HISTSV UNKNOWN	30-Nov-15 VP07-6 UNKNOWN HISTSV UNKNOWN
Trimethylpentane, 2,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Bromide (Bromoethene)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/m3	102 ^A	<0.46	nc	<0.46	<0.46	nc	<2.9	<0.26	<0.46	<0.46	0.73	<0.46	<0.46	<0.26	<1.0	<0.26	1.12	<0.92	9.51	33.8	0.63	3.93
Xylene, m & p-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/m3	125,143 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location			VP07-6 (Continued)						VP08-16								
Sample Date			16-Aug-16	12-Jun-17	29-Nov-18	15-Jul-19	27-May-20		7-Jun-10	9-Nov-11	25-Jun-12	25-Jul-13	17-Sep-14	12-Jun-17	29-Nov-18	9-Jul-19	26-May-20
Sample ID			VP07-6	VP07-6	VP07-6	VP07-6	VP07-6		VP08-16	VP08-16	VP08-16	VP08-16	VP08-16	VP08-16	VP08-16	VP08-16	VP08-16
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV		HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Soil Vapour Criteria* Stantec	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
General Chemistry																	
Pressure on Receipt	in(hg)	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																	
Aliphatic >C5-C6	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Aliphatic >C6-C8	µg/m3	8,223,673 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Aliphatic >C8-C10	µg/m3	446,939 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Aliphatic >C10 - C12	µg/m3	446,939 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Aliphatic >C12 - C16	µg/m3	446,939 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (detected)	µg/m3	446,939 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (incl ND = RDL)	µg/m3	446,939 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Aromatic >C7-C8 (TEX Excluded)	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Aromatic >C8-C10	µg/m3	89,388 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Aromatic >C10 - C12	µg/m3	89,388 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Aromatic >C12 - C16	µg/m3	89,388 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (detected)	µg/m3	89,388 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (incl ND = RDL)	µg/m3	89,388 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Volatile Organic Compounds-Calculated																	
Acetone	µg/m3	2,860,408 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Benzene	µg/m3	406 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Benzyl Chloride	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/m3	894 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Butadiene, 1,3-	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/m3	358 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/m3	178,776 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Chloroethane (Ethyl Chloride)	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/m3	17,878 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Chloromethane	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Cyclohexane	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/m3	107,265 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/m3	223 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/m3	29,498 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/m3	34 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/m3	35,755 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/m3	26,816 ^A	4,030	385	967	741	477	<1.5	<0.75	<0.75	<0.75	<0.75	<0.75	<0.40	<0.40	1.65	1.93
Dichloroethene, trans-1,2-	µg/m3	10,727 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/m3	715 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/m3	223 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichlorotetrafluoroethane, 1,2- (Freon 114)	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dioxane, 1,4-	µg/m3	643,592 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Ethanol	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Ethyl Acetate	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/m3	357,551 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/m3	1,49 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Ethyltoluene, 4-	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Heptane (C7)	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	µg/m3	41 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/m3	536,300 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Hexanone, 2- (Methyl Butyl Ketone)	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Isopropyl Alcohol (2-Propanol)	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/m3	250,687 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/m3	150,412 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/m3	3,438 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/m3	38,864 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Naphthalene	µg/m3	661 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Propene	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Styrene	µg/m3	46,482 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/m3	121 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/m3	15 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/m3	3,438 ^A	6,740 ^A	1,260	1,600	2,160	1,110	<2.7	<1.4	7.6	5.1	3.2	4.72	<0.68	5.67	2.64	-
Tetrahydrofuran	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Toluene	µg/m3	893,878 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Trichlorobenzene, 1,2,4-	µg/m3	1,430 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,1-	µg/m3	178,776 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/m3	56 ^A	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/m3	100/218 ^A	1,710 ^A	343 ^A	397 ^A	561 ^A	271 ^A	<3.2	<1.6	<1.6	<1.6	<1.6	0.68	<0.54	2.32	1.83	-
Trichlorofluoromethane (Freon 11)	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Trichlorotrifluoroethane (Freon 113)	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,2,4-	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/m3	n/v	-	-	-	-	-		-	-	-	-	-	-	-	-	-

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location		VP07-6 (Continued)						VP08-16								
Sample Date			16-Aug-16	12-Jun-17	29-Nov-18	15-Jul-19	27-May-20	7-Jun-10	9-Nov-11	25-Jun-12	25-Jul-13	17-Sep-14	12-Jun-17	29-Nov-18	9-Jul-19	26-May-20
Sample ID			VP07-6	VP07-6	VP07-6	VP07-6	VP07-6	VP08-16	VP08-16	VP08-16	VP08-16	VP08-16	VP08-16	VP08-16	VP08-16	VP08-16
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Soil Vapour Criteria* Stantec														
Trimethylpentane, 2,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Bromide (Bromoethene)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/m3	102 ^A	248 ^A	2.58	15.5	1.83	2.75	<0.92	<0.46	4.31	0.53	<0.46	1.51	<0.26	<2.0	<0.26
Xylene, m & p-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/m3	125,143 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			VP08-17										VP08-18								
			7-Jun-10 VP08-17 UNKNOWN HISTSV UNKNOWN	10-Nov-11 VP08-17 UNKNOWN HISTSV UNKNOWN	26-Jun-12 VP08-17 UNKNOWN HISTSV UNKNOWN	24-Jul-13 VP08-17 UNKNOWN HISTSV UNKNOWN	17-Sep-14 VP08-17 UNKNOWN HISTSV UNKNOWN	30-Nov-15 VP08-17 UNKNOWN HISTSV UNKNOWN	15-Aug-16 VP08-17 UNKNOWN HISTSV UNKNOWN	12-Jun-17 VP08-17 UNKNOWN HISTSV UNKNOWN	9-Jul-19 VP08-17 UNKNOWN HISTSV UNKNOWN	26-May-20 VP08-17 UNKNOWN HISTSV UNKNOWN	29-Jun-10 VP08-18 UNKNOWN HISTSV UNKNOWN	9-Nov-11 VP08-18 UNKNOWN HISTSV UNKNOWN	26-Jun-12 VP08-18 UNKNOWN HISTSV UNKNOWN	28-Jun-12 VP08-18 UNKNOWN HISTSV UNKNOWN	25-Jul-13 VP08-18 UNKNOWN HISTSV UNKNOWN	17-Sep-14 VP08-18 UNKNOWN HISTSV UNKNOWN	1-Dec-15 VP08-18 UNKNOWN HISTSV UNKNOWN	15-Aug-16 VP08-18 UNKNOWN HISTSV UNKNOWN	9-Jun-17 VP08-18 UNKNOWN HISTSV UNKNOWN
Trimethylpentane, 2,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Bromide (Bromoethene)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/m3	102 ^A	3.51	2.13	0.86	<0.46	<0.46	<0.26	<0.26	<0.26	0.64	<0.26	1.37	1.52	17.9	11.3	<0.46	<1.2	1.31	0.61	8.17
Xylene, m & p-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/m3	125,143 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location			VP08-18 (Continued)			VP08-19							VP08-40							
Sample Date			30-Nov-18	10-Jul-19	25-May-20	7-Jun-10	10-Nov-11	10-Nov-11	26-Jun-12	24-Jul-13	18-Sep-14	12-Jun-17	8-Jun-10	9-Nov-11	26-Jun-12	18-Sep-14	1-Dec-15	15-Aug-16	7-Jun-17	30-Nov-18
Sample ID			VP08-18	VP08-18	VP08-18	VP08-19	VP08-19	VP08-19	VP08-19	VP08-19	VP08-19	VP08-19	VP08-40	VP08-40	VP08-40	VP08-40	VP08-40	VP08-40	VP08-40	VP08-40
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Soil Vapour Criteria* Stantec	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	Field Duplicate	RPD (%)	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
General Chemistry																				
Pressure on Receipt	in(hg)	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																				
Aliphatic >C5-C6	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C6-C8	µg/m3	8,223,673 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C8-C10	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C10 - C12	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C12 - C16	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (detected)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (incl ND = RDL)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C7-C8 (TEX Excluded)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C8-C10	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C10 - C12	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C12 - C16	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (detected)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (incl ND = RDL)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds-Calculated																				
Acetone	µg/m3	2,860,408 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	µg/m3	406 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Chloride	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/m3	894 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butadiene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/m3	358 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane (Ethyl Chloride)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/m3	17,878 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/m3	107,265 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/m3	29,498 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/m3	34 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/m3	35,755 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/m3	26,816 ^A	<0.40	<0.40	<0.40	<0.75	<0.75	<0.75	nc	<1.4	<0.75	<0.75	<0.40	<1.5	<0.75	<0.75	<1.9	<0.40	<0.40	<0.40
Dichloroethene, trans-1,2-	µg/m3	10,727 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/m3	715 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorotetrafluoroethane, 1,2- (Freon 114)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dioxane, 1,4-	µg/m3	643,592 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethanol	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/m3	357,551 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/m3	1,49 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyltoluene, 4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptane (C7)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	µg/m3	41 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/m3	536,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexanone, 2- (Methyl Butyl Ketone)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl Alcohol (2-Propanol)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/m3	250,687 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/m3	150,412 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/m3	3,438 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/m3	38,864 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/m3	661 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propene	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/m3	46,482 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/m3	121 ^A	-	-	-	-	-	-												

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location			VP08-18 (Continued)			VP08-19									VP08-40						
Sample Date			30-Nov-18	10-Jul-19	25-May-20	7-Jun-10	10-Nov-11	10-Nov-11		26-Jun-12	24-Jul-13	18-Sep-14	12-Jun-17	8-Jun-10	9-Nov-11	26-Jun-12	18-Sep-14	1-Dec-15	15-Aug-16	7-Jun-17	30-Nov-18
Sample ID			VP08-18	VP08-18	VP08-18	VP08-19	VP08-19	VP08-19		VP08-19	VP08-19	VP08-19	VP08-19	VP08-40	VP08-40	VP08-40	VP08-40	VP08-40	VP08-40	VP08-40	VP08-40
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV		HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	RPD	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Soil Vapour Criteria* Stantec						Field Duplicate	(%)												
Trimethylpentane, 2,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Bromide (Bromoethene)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/m3	102 ^A	<0.26	4.54	<0.26	<0.46	<0.46	<0.46	nc	<0.83	<0.46	3.73	<0.26	<0.92	<0.46	<0.46	<1.2	<0.26	<0.26	<0.26	<0.26
Xylene, m & p-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/m3	125,143 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location			8-Jun-10	9-Nov-11	VP08-41	18-Sep-14	15-Aug-16	8-Jun-10	9-Nov-11	25-Jun-12	26-Jul-13	VP08-42	15-Aug-16	12-Jun-17	30-Nov-18	11-Jul-19	26-Jun-12	10-Sep-12	VP12-1	21-Oct-13	16-Sep-14
Sample Date			VP08-41	VP08-41	VP08-41	VP08-41	VP08-41	VP08-42	VP08-42	VP08-42	VP08-42	VP08-42	VP08-42	VP08-42	VP08-42	VP08-42	VP12-1	VP12-1	VP12-1	VP12-1	VP12-1
Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV
Laboratory Work Order			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Soil Vapour Criteria* Stantec	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
General Chemistry																					
Pressure on Receipt	in(hg)	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																					
Aliphatic >C5-C6	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C6-C8	µg/m3	8,223,673 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C8-C10	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C10 - C12	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C12 - C16	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (detected)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (incl ND = RDL)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C7-C8 (TEX Excluded)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C8-C10	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C10 - C12	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C12 - C16	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (detected)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (incl ND = RDL)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds-Calculated																					
Acetone	µg/m3	2,860,408 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	µg/m3	406 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Chloride	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/m3	894 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butadiene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/m3	358 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane (Ethyl Chloride)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/m3	17,878 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/m3	107,265 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/m3	29,498 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/m3	34 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/m3	35,755 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/m3	26,816 ^A	<1.5	<0.75	<0.75	<0.75	<0.40	<1.5	<0.75	<0.75	<0.75	<0.75	<0.40	<0.40	<0.40	0.77	1,220	2,790	1,610	650	1,040
Dichloroethene, trans-1,2-	µg/m3	10,727 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/m3	715 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorotetrafluoroethane, 1,2- (Freon 114)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dioxane, 1,4-	µg/m3	643,592 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethanol	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/m3	357,551 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/m3	1,49 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyltoluene, 4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptane (C7)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	µg/m3	41 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/m3	536,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexanone, 2- (Methyl Butyl Ketone)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl Alcohol (2-Propanol)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/m3	250,687 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/m3	150,412 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/m3	3,438 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/m3	38,864 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/m3	661 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propene	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/m3	46,482 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/m3	121 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/m3	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/m3	3,438 ^A	23.4	5.8	47.3	19.7	39.8	10.4	2.8	27.6	29.1	10.4	24.0	20.7	1.06	25.2	12,900 ^A	30,800 ^A	27,800 ^A	6,400 ^A	12,200 ^A
Tetrahydrofuran	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/m3	893,878 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobenzene, 1,2,4-	µg/m3	1,430 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,1-	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/m3	56 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/m3	100/218 ^A	<3.2	<1.6	<1.6	<1.6	<0.54	<3.2	<1.6	<1.6	<1.6	<1.6	<0.54	<0.54	<0.54	<0.54	3,700 ^A	8,920 ^A	7,070 ^A	1,720 ^A	3,110 ^A
Trichlorofluoromethane (Freon 11)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorotrifluoroethane (Freon 113)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location			VP08-41					VP08-42								VP12-1					
Sample Date			8-Jun-10	9-Nov-11	25-Jun-12	18-Sep-14	15-Aug-16	8-Jun-10	9-Nov-11	25-Jun-12	26-Jul-13	18-Sep-14	15-Aug-16	12-Jun-17	30-Nov-18	11-Jul-19	26-Jun-12	10-Sep-12	24-Jul-13	21-Oct-13	16-Sep-14
Sample ID			VP08-41	VP08-41	VP08-41	VP08-41	VP08-41	VP08-42	VP08-42	VP08-42	VP08-42	VP08-42	VP08-42	VP08-42	VP08-42	VP08-42	VP12-1	VP12-1	VP12-1	VP12-1	VP12-1
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			HISTSV	HISTSV	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Soil Vapour Criteria* Stantec																			
Trimethylpentane, 2,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Bromide (Bromoethene)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/m3	102 ^A	<0.92	<0.46	<0.46	<0.46	<0.26	<0.92	<0.46	<0.46	<0.46	<0.46	<0.26	<0.26	<0.26	<0.26	<18	<23	<4.6	<10	<1.8
Xylene, m & p-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/m3	125,143 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location			VP12-1 (Continued)							VP12-2								
Sample Date			30-Nov-15	16-Aug-16	12-Jun-17	29-Nov-18	11-Jul-19	27-May-20		26-Jun-12	10-Sep-12	20-Feb-13	24-Jul-13	30-Aug-13	21-Oct-13	16-Sep-14	30-Nov-15	16-Aug-16
Sample ID			VP12-1	VP12-1	VP12-1	VP12-1	VP12-1	VP12-1		VP12-2	VP12-2	VP12-2	VP12-2	VP12-2	VP12-2	VP12-2	VP12-2	VP12-2
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV		HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Soil Vapour Criteria* Stantec																
General Chemistry																		
Pressure on Receipt	in(hg)	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																		
Aliphatic >C5-C6	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C6-C8	µg/m3	8,223,673 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C8-C10	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C10 - C12	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C12 - C16	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (detected)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (incl ND = RDL)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C7-C8 (TEX Excluded)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C8-C10	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C10 - C12	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C12 - C16	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (detected)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (incl ND = RDL)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds-Calculated																		
Acetone	µg/m3	2,860,408 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	µg/m3	406 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Chloride	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/m3	894 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butadiene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/m3	358 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane (Ethyl Chloride)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/m3	17,878 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/m3	107,265 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/m3	29,498 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/m3	34 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/m3	35,755 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/m3	26,816 ^A	345	6,980	1,210	166	223	138	3,600	16,100	633	14,700	16,000	3,610	13,500	4,680	16,200	
Dichloroethene, trans-1,2-	µg/m3	10,727 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/m3	715 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorotetrafluoroethane, 1,2- (Freon 114)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dioxane, 1,4-	µg/m3	643,592 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethanol	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/m3	357,551 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/m3	1,49 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyltoluene, 4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptane (C7)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	µg/m3	41 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/m3	536,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexanone, 2- (Methyl Butyl Ketone)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl Alcohol (2-Propanol)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/m3	250,687 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/m3	150,412 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/m3	3,438 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/m3	38,864 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/m3	661 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propene	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/m3	46,482 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/m3	121 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/m3	15 ^A																
Tetrachloroethene (PCE)	µg/m3	3,438 ^A	4,210 ^A	51,500 ^A	12,900 ^A	1,020	2,930	1,560	16,500 ^A	50,900 ^A	1,220	78,400 ^A	62,700 ^A	17,000 ^A	9,220 ^A	12,100 ^A	90,300 ^A	
Tetrahydrofuran	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/m3	893,878 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobenzene, 1,2,4-	µg/m3	1,430 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,1-	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/m3	56 ^A																
Trichloroethene (TCE)	µg/m3	100/218 ^A	1,050 ^A	10,600 ^A	2,790 ^A	239 ^A	870 ^A	334 ^A	15,200 ^A	55,000 ^A	1,800 ^A	84,700 ^A	59,100 ^A	16,100 ^A	38,000 ^A	15,400 ^A	82,200 ^A	
Trichlorofluoromethane (Freon 11)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorotrifluoroethane (Freon 113)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			VP12-1 (Continued)							VP12-2							
			30-Nov-15 VP12-1 UNKNOWN HISTSV UNKNOWN	16-Aug-16 VP12-1 UNKNOWN HISTSV UNKNOWN	12-Jun-17 VP12-1 UNKNOWN HISTSV UNKNOWN	29-Nov-18 VP12-1 UNKNOWN HISTSV UNKNOWN	11-Jul-19 VP12-1 UNKNOWN HISTSV UNKNOWN	27-May-20 VP12-1 UNKNOWN HISTSV UNKNOWN	26-Jun-12 VP12-2 UNKNOWN HISTSV UNKNOWN	10-Sep-12 VP12-2 UNKNOWN HISTSV UNKNOWN	20-Feb-13 VP12-2 UNKNOWN HISTSV UNKNOWN	24-Jul-13 VP12-2 UNKNOWN HISTSV UNKNOWN	30-Aug-13 VP12-2 UNKNOWN HISTSV UNKNOWN	21-Oct-13 VP12-2 UNKNOWN HISTSV UNKNOWN	16-Sep-14 VP12-2 UNKNOWN HISTSV UNKNOWN	30-Nov-15 VP12-2 UNKNOWN HISTSV UNKNOWN	16-Aug-16 VP12-2 UNKNOWN HISTSV UNKNOWN
Trimethylpentane, 2,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Bromide (Bromoethene)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/m3	102 ^A	3.6	<5.8	<9.8	<0.51	<1.0	<1.0	860 ^A	7,220 ^A	6.66	5,860 ^A	5,660 ^A	939 ^A	3,430 ^A	674 ^A	2,350 ^A
Xylene, m & p-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/m3	125,143 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location			VP12-2 (Continued)				VP12-3										VP12-4			VP12-4 (C		
Sample Date			12-Jun-17	29-Nov-18	11-Jul-19	27-May-20	26-Jun-12	10-Sep-12	24-Jul-13	16-Sep-14	30-Nov-15	16-Aug-16	12-Jun-17	11-Jul-19	27-May-20	28-Jun-12	10-Sep-12	20-Feb-13	24-Jul-13	18-Sep-14	1-Dec-15	
Sample ID			VP12-2	VP12-2	VP12-2	VP12-2	VP12-3	VP12-3	VP12-3	VP12-3	VP12-3	VP12-3	VP12-3	VP12-3	VP12-3	VP12-4	VP12-4	VP12-4	VP12-4	VP12-4	VP12-4	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Soil Vapour Criteria* Stantec																				
General Chemistry																						
Pressure on Receipt	in(hg)	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																						
Aliphatic >C5-C6	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aliphatic >C6-C8	µg/m3	8,223,673 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aliphatic >C8-C10	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aliphatic >C10 - C12	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aliphatic >C12 - C16	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sum of C>8-16 Aliphatic (detected)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sum of C>8-16 Aliphatic (incl ND = RDL)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aromatic >C7-C8 (TEX Excluded)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aromatic >C8-C10	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aromatic >C10 - C12	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aromatic >C12 - C16	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sum of C>8-16 Aromatic (detected)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sum of C>8-16 Aromatic (incl ND = RDL)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Volatile Organic Compounds-Calculated																						
Acetone	µg/m3	2,860,408 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzene	µg/m3	406 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzyl Chloride	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/m3	894 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Butadiene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Disulfide	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/m3	358 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroethane (Ethyl Chloride)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/m3	17,878 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyclohexane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/m3	107,265 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/m3	29,498 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/m3	34 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/m3	35,755 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/m3	26,816 ^A	7,380	3,470	10,400	5,780	737	1,130	758	845	346	1,420	516	166	311	6.16	465	51.9	215	98.7	23.8	
Dichloroethene, trans-1,2-	µg/m3	10,727 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/m3	715 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorotetrafluoroethane, 1,2- (Freon 114)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dioxane, 1,4-	µg/m3	643,592 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethanol	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/m3	357,551 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/m3	1.49 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethyltoluene, 4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Heptane (C7)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	µg/m3	41 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/m3	536,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexanone, 2- (Methyl Butyl Ketone)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Isopropyl Alcohol (2-Propanol)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/m3	250,687 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/m3	150,412 ^A	-	-	-	-	-	-	-	-	-	-	-									

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location			VP12-2 (Continued)				VP12-3										VP12-4			VP12-4 (C		
Sample Date			12-Jun-17	29-Nov-18	11-Jul-19	27-May-20	26-Jun-12	10-Sep-12	24-Jul-13	16-Sep-14	30-Nov-15	16-Aug-16	12-Jun-17	11-Jul-19	27-May-20	28-Jun-12	10-Sep-12	20-Feb-13	24-Jul-13	18-Sep-14	1-Dec-15	
Sample ID			VP12-2	VP12-2	VP12-2	VP12-2	VP12-3	VP12-3	VP12-3	VP12-3	VP12-3	VP12-3	VP12-3	VP12-3	VP12-3	VP12-4	VP12-4	VP12-4	VP12-4	VP12-4	VP12-4	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Soil Vapour Criteria* Stantec																				
Trimethylpentane, 2,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Bromide (Bromoethene)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vinyl Chloride	µg/m3	102 ^A	295 ^A	393 ^A	192 ^A	<24	<18	<23	<4.6	<0.46	<5.6	<21	<2.6	<0.82	<1.9	<0.46	1.17	<0.46	<0.46	<0.46	<0.26	
Xylene, m & p-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylene, o-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Xylenes, Total	µg/m3	125,143 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location			ontinued)			VP12-5		VP12-6		VP12-7		VP12-8		VP12-9		VP13-1	VP13-2
Sample Date			15-Aug-16	7-Jun-17	25-May-20	23-Oct-12	22-Feb-13	23-Oct-12	22-Feb-13	23-Oct-12	22-Feb-13	1-Nov-12	22-Feb-13	1-Nov-12	22-Feb-13	26-Feb-13	5-Mar-13
Sample ID			VP12-4	VP12-4	VP12-4	VP12-5	VP12-5	VP12-6	VP12-6	VP12-7	VP12-7	VP12-8	VP12-8	VP12-9	VP12-9	VP13-1	VP13-2
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Soil Vapour Criteria* Stantec	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
General Chemistry																	
Pressure on Receipt	in(hg)	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																	
Aliphatic >C5-C6	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C6-C8	µg/m3	8,223,673 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C8-C10	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C10 - C12	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C12 - C16	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (detected)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (incl ND = RDL)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C7-C8 (TEX Excluded)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C8-C10	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C10 - C12	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C12 - C16	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (detected)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (incl ND = RDL)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds-Calculated																	
Acetone	µg/m3	2,860,408 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	µg/m3	406 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Chloride	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/m3	894 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butadiene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/m3	358 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane (Ethyl Chloride)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/m3	17,878 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/m3	107,265 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/m3	29,498 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/m3	34 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/m3	35,755 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/m3	26,816 ^A	34.4	18.2	15.1	8.01	2.62	11.2	1.57	7.12	2.87	232	33.3	9.16	1.11	1.35	<0.40
Dichloroethene, trans-1,2-	µg/m3	10,727 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/m3	715 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorotetrafluoroethane, 1,2- (Freon 114)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dioxane, 1,4-	µg/m3	643,592 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethanol	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/m3	357,551 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/m3	1.49 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyltoluene, 4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptane (C7)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	µg/m3	41 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/m3	536,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexanone, 2- (Methyl Butyl Ketone)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl Alcohol (2-Propanol)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/m3	250,687 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/m3	150,412 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/m3	3,438 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/m3	38,864 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/m3	661 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propene	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/m3	46,482 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/m3	121 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/m3	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/m3	3,438 ^A	205	62.0	27.9	114	18.8	323	29.8	547	25.8	3,250	241	75.3	5.78	42.7	10.2
Tetrahydrofuran	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/m3	893,878 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobenzene, 1,2,4-	µg/m3	1,430 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,1-	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/m3	56 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/m3	100/218 ^A	53.5	25.0	16.3	36.2	7.03	81.7	8.2	189 ^A	12.7	1,170 ^A	119 ^A	25.0	2.48	9.69	1.71
Trichlorofluoromethane (Freon 11)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorotrifluoroethane (Freon 113)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location			ontinued)			VP12-5		VP12-6		VP12-7		VP12-8		VP12-9		VP13-1	VP13-2
Sample Date			15-Aug-16	7-Jun-17	25-May-20	23-Oct-12	22-Feb-13	23-Oct-12	22-Feb-13	23-Oct-12	22-Feb-13	1-Nov-12	22-Feb-13	1-Nov-12	22-Feb-13	26-Feb-13	5-Mar-13
Sample ID			VP12-4	VP12-4	VP12-4	VP12-5	VP12-5	VP12-6	VP12-6	VP12-7	VP12-7	VP12-8	VP12-8	VP12-9	VP12-9	VP13-1	VP13-2
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Soil Vapour Criteria* Stantec															
Trimethylpentane, 2,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Bromide (Bromoethene)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/m3	102 ^A	<0.26	<0.26	<0.26	<0.46	<0.26	<0.46	<0.51	<0.46	<0.26	<1.2	<0.26	<0.46	<0.26	<0.26	<0.26
Xylene, m & p-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/m3	125,143 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type	Units	Soil Vapour Criteria* Stantec	VP14-1									VP14-2					
			25-Feb-14 VP14-1	15-Sep-14 VP14-1	2-Dec-15 VP14-1	16-Aug-16 VP14-1	8-Jun-17 VP14-1	19-Nov-18 VP14-1	10-Jul-19 VP14-1	17-Sep-20 VP14-1	25-Feb-14 VP14-2	15-Sep-14 VP14-2	16-Aug-16 VP14-2	19-Nov-18 VP14-2	10-Jul-19 VP14-2	17-Sep-20 VP14-2	
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
General Chemistry																	
Pressure on Receipt	in(hg)	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Petroleum Hydrocarbons																	
Aliphatic >C5-C6	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aliphatic >C6-C8	µg/m3	8,223,673 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aliphatic >C8-C10	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aliphatic >C10 - C12	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aliphatic >C12 - C16	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sum of C>8-16 Aliphatic (detected)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sum of C>8-16 Aliphatic (incl ND = RDL)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aromatic >C7-C8 (TEX Excluded)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aromatic >C8-C10	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aromatic >C10 - C12	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aromatic >C12 - C16	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sum of C>8-16 Aromatic (detected)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sum of C>8-16 Aromatic (incl ND = RDL)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Volatile Organic Compounds-Calculated																	
Acetone	µg/m3	2,860,408 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzene	µg/m3	406 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzyl Chloride	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromodichloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromoform (Tribromomethane)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bromomethane (Methyl bromide)	µg/m3	894 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Butadiene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Disulfide	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Tetrachloride (Tetrachloromethane)	µg/m3	358 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chlorobenzene (Monochlorobenzene)	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroethane (Ethyl Chloride)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/m3	17,878 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cyclohexane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibromochloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,2-	µg/m3	107,265 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorobenzene, 1,4-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorodifluoromethane (Freon 12)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,1-	µg/m3	29,498 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethane, 1,2-	µg/m3	34 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, 1,1-	µg/m3	35,755 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloroethene, cis-1,2-	µg/m3	26,816 ^A	4.60	97.1	14.7	76.1	25.3	24.8	17.7	7.47	<0.753	<0.75	<0.40	3.27	<0.40	0.79	
Dichloroethene, trans-1,2-	µg/m3	10,727 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropane, 1,2-	µg/m3	715 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, cis-1,3-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichloropropene, trans-1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dichlorotetrafluoroethane, 1,2- (Freon 114)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dioxane, 1,4-	µg/m3	643,592 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethanol	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylbenzene	µg/m3	357,551 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/m3	1.49 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ethyltoluene, 4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Heptane (C7)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	µg/m3	41 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexane (n-Hexane)	µg/m3	536,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hexanone, 2- (Methyl Butyl Ketone)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Isopropyl Alcohol (2-Propanol)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/m3	250,687 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Isobutyl Ketone (MIBK)	µg/m3	150,412 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl tert-butyl ether (MTBE)	µg/m3	3,438 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methylene Chloride (Dichloromethane)	µg/m3	38,864 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/m3	661 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Propene	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/m3	46,482 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,1,2-	µg/m3	121 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethane, 1,1,2,2-	µg/m3	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene (PCE)	µg/m3	3,438 ^A	350	3,710 ^A	301	3,830 ^A	1,150	427	1,200	1,000	45.5	42.8	27.0	127	25.2	47.2	
Tetrahydrofuran	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Toluene	µg/m3	893,878 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorobenzene, 1,2,4-	µg/m3	1,430 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,1-	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethane, 1,1,2-	µg/m3	56 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichloroethene (TCE)	µg/m3	100/218 ^A	55.9	653 ^A	81.7	636 ^A	215 ^A	91.4	199 ^A	139 ^A	6.07	3.3	2.58	18.0	5.25	6.67	
Trichlorofluoromethane (Freon 11)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trichlorotrifluoroethane (Freon 113)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trimethylbenzene, 1,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trimethylbenzene, 1,3,5-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			VP14-1								VP14-2					
			25-Feb-14 VP14-1 UNKNOWN HISTSV UNKNOWN	15-Sep-14 VP14-1 UNKNOWN HISTSV UNKNOWN	2-Dec-15 VP14-1 UNKNOWN HISTSV UNKNOWN	16-Aug-16 VP14-1 UNKNOWN HISTSV UNKNOWN	8-Jun-17 VP14-1 UNKNOWN HISTSV UNKNOWN	19-Nov-18 VP14-1 UNKNOWN HISTSV UNKNOWN	10-Jul-19 VP14-1 UNKNOWN HISTSV UNKNOWN	17-Sep-20 VP14-1 UNKNOWN HISTSV UNKNOWN	25-Feb-14 VP14-2 UNKNOWN HISTSV UNKNOWN	15-Sep-14 VP14-2 UNKNOWN HISTSV UNKNOWN	16-Aug-16 VP14-2 UNKNOWN HISTSV UNKNOWN	19-Nov-18 VP14-2 UNKNOWN HISTSV UNKNOWN	10-Jul-19 VP14-2 UNKNOWN HISTSV UNKNOWN	17-Sep-20 VP14-2 UNKNOWN HISTSV UNKNOWN
	Units	Soil Vapour Criteria* Stantec														
Trimethylpentane, 2,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Bromide (Bromoethene)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/m3	102 ^A	<0.460	<0.46	<0.26	<2.6	<0.26	<0.26	<0.51	<0.26	<0.460	<0.46	<0.26	<0.26	<0.26	<0.26
Xylene, m & p-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/m3	125,143 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location			VP14-3								VP14-4				
Sample Date			25-Feb-14	15-Sep-14	16-Aug-16	8-Jun-17	20-Nov-18	13-May-19	15-Jul-19	17-Sep-20	4-Mar-14	16-Sep-14	9-Jun-17	19-Nov-18	10-Jul-19
Sample ID			VP14-3	VP14-3	VP14-3	VP14-3	VP14-3	VP14-3	VP14-3	VP14-3	VP14-4	VP14-4	VP14-4	VP14-4	VP14-4
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Soil Vapour Criteria* Stantec	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
General Chemistry															
Pressure on Receipt	in(hg)	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons															
Aliphatic >C5-C6	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C6-C8	µg/m3	8,223,673 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C8-C10	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C10 - C12	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C12 - C16	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (detected)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (incl ND = RDL)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C7-C8 (TEX Excluded)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C8-C10	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C10 - C12	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C12 - C16	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (detected)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (incl ND = RDL)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds-Calculated															
Acetone	µg/m3	2,860,408 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	µg/m3	406 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Chloride	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/m3	894 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Butadiene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/m3	358 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane (Ethyl Chloride)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/m3	17,878 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/m3	107,265 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/m3	29,498 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/m3	34 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/m3	35,755 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/m3	26,816 ^A	17.9	845	701	808	172	334	289	189	24.1	15.5	5.12	4.77	7.36
Dichloroethene, trans-1,2-	µg/m3	10,727 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/m3	715 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorotetrafluoroethane, 1,2- (Freon 114)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Dioxane, 1,4-	µg/m3	643,592 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethanol	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/m3	357,551 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/m3	1.49 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyltoluene, 4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptane (C7)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	µg/m3	41 ^A	-	-	-	41 ^A	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/m3	536,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexanone, 2- (Methyl Butyl Ketone)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl Alcohol (2-Propanol)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/m3	250,687 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/m3	150,412 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/m3	3,438 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/m3	38,864 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/m3	661 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Propene	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/m3	46,482 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/m3	121 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/m3	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/m3	3,438 ^A	1,150	17,000 ^A	15,500 ^A	13,700 ^A	6,000 ^A	5,580 ^A	8,020 ^A	375	3,400	4,630 ^A	2,000	2,730	2,070
Tetrahydrofuran	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/m3	893,878 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobenzene, 1,2,4-	µg/m3	1,430 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,1-	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/m3	56 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/m3	100/218 ^A	140 ^A	2,970 ^A	3,180 ^A	2,660 ^A	944 ^A	924 ^A	1,440 ^A	381 ^A	113 ^A	165 ^A	104 ^A	141 ^A	179 ^A
Trichlorofluoromethane (Freon 11)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorotrifluoroethane (Freon 113)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type		Soil Vapour Criteria* Stantec	VP14-3								VP14-4				
			25-Feb-14 VP14-3	15-Sep-14 VP14-3	16-Aug-16 VP14-3	8-Jun-17 VP14-3	20-Nov-18 VP14-3	13-May-19 VP14-3	15-Jul-19 VP14-3	17-Sep-20 VP14-3	4-Mar-14 VP14-4	16-Sep-14 VP14-4	9-Jun-17 VP14-4	19-Nov-18 VP14-4	10-Jul-19 VP14-4
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			Units												
Trimethylpentane, 2,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Bromide (Bromoethene)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/m3	102 ^A	<0.460	26.0	<9.9	<8.5	<1.2	<1.9	<4.1	<0.26	<0.460	<0.46	<0.64	<0.64	<0.51
Xylene, m & p-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/m3	125,143 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location			VP14-5							VP14-6			VP14-7					
Sample Date			2-Mar-14	15-Sep-14	1-Dec-15	19-Aug-16	23-Nov-18	17-Sep-20		2-Mar-14	15-Sep-14	1-Dec-15	27-Feb-14	15-Sep-14	8-Jun-17	20-Nov-18	10-Jul-19	17-Sep-20
Sample ID			VP14-5	VP14-5	VP14-5	VP14-5	VP14-5	VP14-5		VP14-6	VP14-6	VP14-6	VP14-7	VP14-7	VP14-7	VP14-7	VP14-7	VP14-7
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV		HISTSV	HISTSV	HISTSV	UNKNOWN	UNKNOWN	HISTSV	HISTSV	HISTSV	HISTSV
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Soil Vapour Criteria* Stantec	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN		UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
General Chemistry																		
Pressure on Receipt	in(hg)	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																		
Aliphatic >C5-C6	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Aliphatic >C6-C8	µg/m3	8,223,673 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Aliphatic >C8-C10	µg/m3	446,939 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Aliphatic >C10 - C12	µg/m3	446,939 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Aliphatic >C12 - C16	µg/m3	446,939 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (detected)	µg/m3	446,939 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (incl ND = RDL)	µg/m3	446,939 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Aromatic >C7-C8 (TEX Excluded)	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Aromatic >C8-C10	µg/m3	89,388 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Aromatic >C10 - C12	µg/m3	89,388 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Aromatic >C12 - C16	µg/m3	89,388 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (detected)	µg/m3	89,388 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (incl ND = RDL)	µg/m3	89,388 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Volatile Organic Compounds-Calculated																		
Acetone	µg/m3	2,860,408 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Benzene	µg/m3	406 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Benzyl Chloride	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/m3	894 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Butadiene, 1,3-	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/m3	358 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/m3	178,776 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Chloroethane (Ethyl Chloride)	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/m3	17,878 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Chloromethane	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Cyclohexane	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/m3	107,265 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/m3	223 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/m3	29,498 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/m3	34 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/m3	35,755 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/m3	26,816 ^A	<0.753	<0.75	<0.40	0.48	<0.40	3.64	113	85.9	43.6	<0.753	<1.9	<0.40	1.33	<0.40	<0.40	
Dichloroethene, trans-1,2-	µg/m3	10,727 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/m3	715 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/m3	223 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dichlorotetrafluoroethane, 1,2- (Freon 114)	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Dioxane, 1,4-	µg/m3	643,592 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Ethanol	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Ethyl Acetate	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/m3	357,551 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/m3	1.49 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Ethyltoluene, 4-	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Heptane (C7)	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	µg/m3	41 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/m3	536,300 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Hexanone, 2- (Methyl Butyl Ketone)	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Isopropyl Alcohol (2-Propanol)	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/m3	250,687 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/m3	150,412 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/m3	3,438 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/m3	38,864 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Naphthalene	µg/m3	661 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Propene	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Styrene	µg/m3	46,482 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/m3	121 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/m3	15 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/m3	3,438 ^A	3.39	31.6	5.77	84.5	6.39	16.2	818	1,220	177	142	113	31.3	38.5	120	73.7	
Tetrahydrofuran	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Toluene	µg/m3	893,878 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Trichlorobenzene, 1,2,4-	µg/m3	1,430 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,1-	µg/m3	178,776 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/m3	56 ^A	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/m3	100/218 ^A	<1.61	3.5	1.15	12.3	0.62	9.3	114 ^A	280 ^A	59.2	3.15	<4.0	0.76	<0.54	0.59	<0.54	
Trichlorofluoromethane (Freon 11)	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Trichlorotrifluoroethane (Freon 113)	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,2,4-	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/m3	n/v	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			VP14-5						VP14-6			VP14-7					
			2-Mar-14 VP14-5 UNKNOWN HISTSV UNKNOWN	15-Sep-14 VP14-5 UNKNOWN HISTSV UNKNOWN	1-Dec-15 VP14-5 UNKNOWN HISTSV UNKNOWN	19-Aug-16 VP14-5 UNKNOWN HISTSV UNKNOWN	23-Nov-18 VP14-5 UNKNOWN HISTSV UNKNOWN	17-Sep-20 VP14-5 UNKNOWN HISTSV UNKNOWN	2-Mar-14 VP14-6 UNKNOWN HISTSV UNKNOWN	15-Sep-14 VP14-6 UNKNOWN HISTSV UNKNOWN	1-Dec-15 VP14-6 UNKNOWN HISTSV UNKNOWN	27-Feb-14 VP14-7 UNKNOWN HISTSV UNKNOWN	15-Sep-14 VP14-7 UNKNOWN HISTSV UNKNOWN	8-Jun-17 VP14-7 UNKNOWN HISTSV UNKNOWN	20-Nov-18 VP14-7 UNKNOWN HISTSV UNKNOWN	10-Jul-19 VP14-7 UNKNOWN HISTSV UNKNOWN	17-Sep-20 VP14-7 UNKNOWN HISTSV UNKNOWN
Trimethylpentane, 2,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Bromide (Bromoethene)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/m3	102 ^A	<0.460	<0.46	<0.26	<0.26	<0.26	<0.51	<0.460	<0.46	<0.26	<0.460	<1.2	<0.26	<0.26	<0.26	<0.26
Xylene, m & p-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/m3	125,143 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type		Soil Vapour Criteria* Stantec	VP14-8				VP14-9			
			25-Feb-14 VP14-8	16-Sep-14 VP14-8	20-Nov-18 VP14-8	17-Sep-20 VP14-8	2-Mar-14 VP14-9	16-Sep-14 VP14-9	19-Aug-16 VP14-9	16-Jul-19 VP14-9
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV
			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
	Units									
General Chemistry										
Pressure on Receipt	in(hg)	n/v	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons										
Aliphatic >C5-C6	µg/m3	n/v	-	-	-	-	-	-	-	-
Aliphatic >C6-C8	µg/m3	8,223,673 ^A	-	-	-	-	-	-	-	-
Aliphatic >C8-C10	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-
Aliphatic >C10 - C12	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-
Aliphatic >C12 - C16	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (detected)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (incl ND = RDL)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-
Aromatic >C7-C8 (TEX Excluded)	µg/m3	n/v	-	-	-	-	-	-	-	-
Aromatic >C8-C10	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-
Aromatic >C10 - C12	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-
Aromatic >C12 - C16	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (detected)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (incl ND = RDL)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-
Volatile Organic Compounds-Calculated										
Acetone	µg/m3	2,860,408 ^A	-	-	-	-	-	-	-	-
Benzene	µg/m3	406 ^A	-	-	-	-	-	-	-	-
Benzyl Chloride	µg/m3	n/v	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/m3	n/v	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/m3	894 ^A	-	-	-	-	-	-	-	-
Butadiene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/m3	n/v	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/m3	358 ^A	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-
Chloroethane (Ethyl Chloride)	µg/m3	n/v	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/m3	17,878 ^A	-	-	-	-	-	-	-	-
Chloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-
Cyclohexane	µg/m3	n/v	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/m3	107,265 ^A	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/m3	223 ^A	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/m3	n/v	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/m3	29,498 ^A	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/m3	34 ^A	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/m3	35,755 ^A	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/m3	26,816 ^A	<0.753	<0.75	<0.40	<0.40	<0.753	15.6	2.98	<0.40
Dichloroethene, trans-1,2-	µg/m3	10,727 ^A	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/m3	715 ^A	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/m3	223 ^A	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-
Dichlorotetrafluoroethane, 1,2- (Freon 114)	µg/m3	n/v	-	-	-	-	-	-	-	-
Dioxane, 1,4-	µg/m3	643,592 ^A	-	-	-	-	-	-	-	-
Ethanol	µg/m3	n/v	-	-	-	-	-	-	-	-
Ethyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-
Ethylbenzene	µg/m3	357,551 ^A	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/m3	1.49 ^A	-	-	-	-	-	-	-	-
Ethyltoluene, 4-	µg/m3	n/v	-	-	-	-	-	-	-	-
Heptane (C7)	µg/m3	n/v	-	-	-	-	-	-	-	-
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	µg/m3	41 ^A	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/m3	536,300 ^A	-	-	-	-	-	-	-	-
Hexanone, 2- (Methyl Butyl Ketone)	µg/m3	n/v	-	-	-	-	-	-	-	-
Isopropyl Alcohol (2-Propanol)	µg/m3	n/v	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/m3	250,687 ^A	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/m3	150,412 ^A	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/m3	3,438 ^A	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/m3	38,864 ^A	-	-	-	-	-	-	-	-
Naphthalene	µg/m3	661 ^A	-	-	-	-	-	-	-	-
Propene	µg/m3	n/v	-	-	-	-	-	-	-	-
Styrene	µg/m3	46,482 ^A	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/m3	121 ^A	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/m3	15 ^A	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/m3	3,438 ^A	30.7	120	16.0	213	48.2	693	477	255
Tetrahydrofuran	µg/m3	n/v	-	-	-	-	-	-	-	-
Toluene	µg/m3	893,878 ^A	-	-	-	-	-	-	-	-
Trichlorobenzene, 1,2,4-	µg/m3	1,430 ^A	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,1-	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/m3	56 ^A	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/m3	100/218 ^A	<1.61	2.3	<0.54	1.24	<1.61	53.2	29.8	8.50
Trichlorofluoromethane (Freon 11)	µg/m3	n/v	-	-	-	-	-	-	-	-
Trichlorotrifluoroethane (Freon 113)	µg/m3	n/v	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/m3	n/v	-	-	-	-	-	-	-	-

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			VP14-8				VP14-9			
			25-Feb-14 VP14-8 UNKNOWN HISTSV UNKNOWN	16-Sep-14 VP14-8 UNKNOWN HISTSV UNKNOWN	20-Nov-18 VP14-8 UNKNOWN HISTSV UNKNOWN	17-Sep-20 VP14-8 UNKNOWN HISTSV UNKNOWN	2-Mar-14 VP14-9 UNKNOWN HISTSV UNKNOWN	16-Sep-14 VP14-9 UNKNOWN HISTSV UNKNOWN	19-Aug-16 VP14-9 UNKNOWN HISTSV UNKNOWN	16-Jul-19 VP14-9 UNKNOWN HISTSV UNKNOWN
	Units	Soil Vapour Criteria* Stantec								
Trimethylpentane, 2,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-
Vinyl Bromide (Bromoethene)	µg/m3	n/v	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/m3	102 ^A	<0.460	<0.46	<0.26	<0.26	<0.460	<0.46	<0.26	<0.26
Xylene, m & p-	µg/m3	n/v	-	-	-	-	-	-	-	-
Xylene, o-	µg/m3	n/v	-	-	-	-	-	-	-	-
Xylenes, Total	µg/m3	125,143 ^A	-	-	-	-	-	-	-	-

See notes on last page.

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location																
Sample Date			2-Mar-14	16-Sep-14	2-Dec-15	19-Aug-16	8-Jun-17	VP14-10	13-May-19	11-Jul-19	13-Dec-19	17-Sep-20	16-Dec-20	VP19-1		
Sample ID			VP14-10	VP14-10	VP14-10	VP14-10	VP14-10	VP14-10	VP14-10	VP14-10	VP14-10	VP14-10	VP14-10	VP19-01	VP19-01	
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Laboratory Work Order			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
Sample Type	Units	Soil Vapour Criteria* Stantec	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	
General Chemistry																
Pressure on Receipt	in(hg)	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Hydrocarbons																
Aliphatic >C5-C6	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C6-C8	µg/m3	8,223,673 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C8-C10	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C10 - C12	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aliphatic >C12 - C16	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (detected)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aliphatic (incl ND = RDL)	µg/m3	446,939 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C7-C8 (TEX Excluded)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C8-C10	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C10 - C12	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aromatic >C12 - C16	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (detected)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sum of C>8-16 Aromatic (incl ND = RDL)	µg/m3	89,388 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds-Calculated																
Acetone	µg/m3	2,860,408 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	µg/m3	406 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Chloride	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	µg/m3	894 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butadiene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/m3	358 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene (Monochlorobenzene)	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane (Ethyl Chloride)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/m3	17,878 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,2-	µg/m3	107,265 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorobenzene, 1,4-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (Freon 12)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,1-	µg/m3	29,498 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethane, 1,2-	µg/m3	34 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, 1,1-	µg/m3	35,755 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloroethene, cis-1,2-	µg/m3	26,816 ^A	180	192	45.7	346	211	527	28.4	129	71.0	259	50.8	<0.40	<0.40	
Dichloroethene, trans-1,2-	µg/m3	10,727 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 1,2-	µg/m3	715 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/m3	223 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, trans-1,3-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorotetrafluoroethane, 1,2- (Freon 114)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dioxane, 1,4-	µg/m3	643,592 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethanol	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/m3	357,551 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/m3	1.49 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyltoluene, 4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptane (C7)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	µg/m3	41 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane (n-Hexane)	µg/m3	536,300 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexanone, 2- (Methyl Butyl Ketone)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl Alcohol (2-Propanol)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/m3	250,687 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/m3	150,412 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/m3	3,438 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/m3	38,864 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/m3	661 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propene	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/m3	46,482 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,1,2-	µg/m3	121 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/m3	15 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene (PCE)	µg/m3	3,438 ^A	3,950 ^A	6,640 ^A	1,040	12,900 ^A	8,150 ^A	21,700 ^A	1,410	4,440 ^A	2,910	13,500 ^A	1,460	7.47	2.03	
Tetrahydrofuran	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	µg/m3	893,878 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorobenzene, 1,2,4-	µg/m3	1,430 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,1-	µg/m3	178,776 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,2-	µg/m3	56 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene (TCE)	µg/m3	100/218 ^A	1,300 ^A	1,700 ^A	476 ^A	4,080 ^A	3,520 ^A	7,160 ^A	396 ^A	1,780 ^A	786 ^A	3,270 ^A	591 ^A	1.68	<0.54	
Trichlorofluoromethane (Freon 11)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichlorotrifluoroethane (Freon 113)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Sample Location			VP14-10											VP19-1	
Sample Date			2-Mar-14	16-Sep-14	2-Dec-15	19-Aug-16	8-Jun-17	20-Nov-18	13-May-19	11-Jul-19	13-Dec-19	17-Sep-20	16-Dec-20	11-Jul-19	25-May-20
Sample ID			VP14-10	VP14-10	VP14-10	VP14-10	VP14-10	VP14-10	VP14-10	VP14-10	VP14-10	VP14-10	VP14-10	VP19-01	VP19-01
Sampling Company			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Laboratory Work Order			HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV	HISTSV
Laboratory Sample ID			UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Type	Units	Soil Vapour Criteria* Stantec	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Trimethylpentane, 2,2,4-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Bromide (Bromoethene)	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/m3	102 ^A	<0.460	<0.46	<0.26	<11	<1.0	<6.9	<0.64	<1.3	<1.5	<0.77	<0.64	<0.26	<0.26
Xylene, m & p-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/m3	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylenes, Total	µg/m3	125,143 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table IVb
Summary of Hist Soil Vapour Analytical Results
Taggart Realty Redevelopment

Notes:		
	HIBIAC	Stantec Soil Vapour Criteria; Site specific criteria (soil vapour criteria - established by adjusting the Health Based Indoor Air Criteria (HBIAC) for attenuation through floor slab of a comercial building)
	A	Stantec's soil vapour criteria considered representative of Safe indoor air values - Commercial Land use
	6.5 ^A	Concentration exceeds the indicated soil vapour criteria.
	15.2	Measured concentration did not exceed the indicated soil vapour criteria.
	<0.50	Laboratory reporting limit was greater than the applicable soil vapour criteria.
	<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit.
	n/v	No soil vapour criteria value.
	-	Parameter not analyzed / not available.
	RPD	Relative Percent Difference.
	61%	RPD exceeds data quality objective of 30%.
	nc	RPD is not calculated if one or more values is non detect or if one or more values is less than five times the reportable detection limit.
	A	100% non-detect

Table V
Summary of Waste Characterization Results
Proposed Hintonburg Development

Sample Location				TCLP
Sample Date				26-Jun-23
Sample ID				TCLP
Sampling Company				STANTEC
Laboratory				PARACEL
Laboratory Work Order				2326109
Laboratory Sample ID				2326109-01
Sample Type	Units	O.Reg 362	O.Reg. 347 Sch 4	
General Chemistry - TCLP				
Cyanide (Free)	mg/L	n/v	20 ^B	<0.02
Fluoride	mg/L	n/v	150 ^B	0.28
Nitrate (as N)	mg/L	n/v	n/v	<1
Nitrite (as N)	mg/L	n/v	n/v	<1
pH, lab	S.U.	n/v	n/v	7.62
Ignitability				
Ignitability	none	n/v	n/v	Negative
Physical Properties				
Percent Solids	%wt	n/v	n/v	93.5
Metals - TCLP				
Arsenic	mg/L	n/v	2.5 ^B	<0.05
Barium	mg/L	n/v	100 ^B	0.91
Boron	mg/L	n/v	500 ^B	<0.10
Cadmium	mg/L	n/v	0.5 ^B	<0.01
Chromium	mg/L	n/v	5 ^B	<0.05
Lead	mg/L	n/v	5 ^B	<0.05
Mercury	mg/L	n/v	0.1 ^B	<0.005
Selenium	mg/L	n/v	1 ^B	<0.05
Silver	mg/L	n/v	5 ^B	<0.05
Uranium	mg/L	n/v	10 ^B	<0.05
Polychlorinated Biphenyls				
Polychlorinated Biphenyls (PCBs)	µg/g	50 ^A	n/v	<0.05
Semi-Volatile Organic Compounds - TCLP				
Benzo(a)pyrene	mg/L	n/v	0.001 ^B	<0.001
Cresol, m & p- (Methylphenol, 3&4-)	mg/L	n/v	200 ^B	<0.001
Cresol, o- (Methylphenol, 2-)	mg/L	n/v	200 ^B	<0.001
Dichlorophenol, 2,4-	mg/L	n/v	90 ^B	<0.001
Dinitrotoluene, 2,4-	mg/L	n/v	0.13 ^B	<0.001
Hexachlorobenzene	mg/L	n/v	0.13 ^B	<0.050
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	mg/L	n/v	0.5 ^B	<0.001
Hexachloroethane	mg/L	n/v	3 ^B	<0.001
Methyl Ethyl Ketone (MEK) (2-Butanone)	mg/L	n/v	200 ^B	<0.30
Nitrobenzene	mg/L	n/v	2 ^B	<0.001
Pentachlorophenol	mg/L	n/v	6 ^B	<0.005
Tetrachlorophenol, 2,3,4,6-	mg/L	n/v	10 ^B	<0.002
Trichlorophenol, 2,4,5-	mg/L	n/v	400 ^B	<0.001
Trichlorophenol, 2,4,6-	mg/L	n/v	0.5 ^B	<0.001
Volatile Organic Compounds - TCLP				
Benzene	mg/L	n/v	0.5 ^B	<0.005
Carbon Tetrachloride (Tetrachloromethane)	mg/L	n/v	0.5 ^B	<0.005
Chlorobenzene (Monochlorobenzene)	mg/L	n/v	8 ^B	<0.004
Chloroform (Trichloromethane)	mg/L	n/v	10 ^B	<0.006
Dichlorobenzene, 1,2-	mg/L	n/v	20 ^B	<0.004
Dichlorobenzene, 1,4-	mg/L	n/v	0.5 ^B	<0.004
Dichloroethane, 1,2-	mg/L	n/v	0.5 ^B	<0.005
Dichloroethene, 1,1-	mg/L	n/v	1.4 ^B	<0.006
Methylene Chloride (Dichloromethane)	mg/L	n/v	5 ^B	<0.04
Tetrachloroethene (PCE)	mg/L	n/v	3 ^B	<0.005
Trichloroethene (TCE)	mg/L	n/v	5 ^B	<0.004
Vinyl Chloride	mg/L	n/v	0.2 ^B	<0.005

Notes:

O.Reg 362	R.R.O. 1990, Regulation 362, Waste Management - PCBs
A	MOE O.Reg. 362 of R.R.O. 1990
O.Reg. 347 Sch 4	Ontario Ministry of the Environment
B	MOE O.Reg. 347 of R.R.O. 1990 - Schedule 4 – Leachate Quality Criteria
6.5 ^A	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
<0.50	Laboratory reporting limit was greater than the applicable standard.
<0.03	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.

Table VI
Summary of Soil Maximum Concentrations
Proposed Hintonburg Development

Contaminant	Contaminant Identifier (CAS)	Units	Maximum Measured Concentration	Location of Maximum Detect	Depth of Maximum Detect	Date of Maximum Detect	Maximum Reporting Limit for Non-Detects	Count of Locations Samples	Count of Samples	Ontario SCS Table 7
General Chemistry										
Cyanide (Free)	57-12-5FREE	µg/g	(<0.03)	n/a	n/a	n/a	0.03	8	9	0.051
Electrical Conductivity, Lab	CONDLAB	µS/cm	999	BH23-4	0.1 - 0.7 m	26-Jun-23	n/a	8	9	700
Fraction of Organic Carbon Rep.#1	FOC1	g/g	0.077	BH23-7	0.1 - 0.8 m	26-Jun-23	n/a	3	4	n/v
Fraction of Organic Carbon Rep.#2	FOC2	g/g	0.075	BH23-7	0.1 - 0.8 m	26-Jun-23	n/a	3	4	n/v
Fraction of Organic Carbon Rep.#3	FOC3	g/g	0.078	BH23-7	0.1 - 0.8 m	26-Jun-23	n/a	3	4	n/v
pH, lab	PHLAB	S.U.	7.96	BH23-7	0.1 - 0.8 m	26-Jun-23	n/a	8	9	n/v
Sodium Adsorption Ratio (SAR)	7440-23-5AR	none	3.27	BH23-4	0.1 - 0.7 m	26-Jun-23	n/a	8	9	5
Physical Properties										
Percent Solids	SOLIDS	%wt	97.1	BH23-5	0.1 - 1 m	26-Jun-23	n/a	8	9	n/v
Sieve - #200 (<0.075mm)	SIEVE200<	%	36.6	BH23-1	0.3 - 1.2 m	26-Jun-23	n/a	4	4	n/v
Sieve - #200 (>0.075mm)	SIEVE200	%	77.8	BH23-6	0.1 - 0.7 m	26-Jun-23	n/a	4	4	n/v
Texture	TEXTURE	%	-	n/a	n/a	n/a	n/a	4	4	n/v
Petroleum Hydrocarbons										
PHC F1 (C6-C10 range) minus BTEX	PHC_F1-BTEX	µg/g	(<7)	n/a	n/a	n/a	7	8	9	55 _{s7}
PHC F2 (>C10-C16 range)	PHC_F2	µg/g	72	BH23-1	0.3 - 1.2 m	26-Jun-23	4	8	9	98 _{s15}
PHC F3 (>C16-C34 range)	PHC_F3	µg/g	1,020	BH23-1	0.3 - 1.2 m	26-Jun-23	n/a	8	9	300 _{s8}
PHC F4 (>C34-C50 range)	PHC_F4	µg/g	846	BH23-1	0.3 - 1.2 m	26-Jun-23	n/a	8	9	2,800 _{s10}
PHC F4 (>C34) Gravimetric	PHC_F4G	µg/g	594	BH23-1	0.3 - 1.2 m	26-Jun-23	n/a	8	9	2,800 _{s10}
Metals										
Antimony	7440-36-0	µg/g	3.7	BH23-1	0.3 - 1.2 m	26-Jun-23	1.0	8	9	7.5
Arsenic	7440-38-2	µg/g	7.6	BH23-4	0.1 - 0.7 m	26-Jun-23	1.0	8	9	18
Barium	7440-39-3	µg/g	222	BH23-4	0.1 - 0.7 m	26-Jun-23	n/a	8	9	390
Beryllium	7440-41-7	µg/g	1.8	BH23-7	0.1 - 0.8 m	26-Jun-23	0.5	8	9	4
Boron	7440-42-8	µg/g	22.1	BH23-4	0.1 - 0.7 m	26-Jun-23	n/a	8	9	120 _{s16}
Cadmium	7440-43-9	µg/g	2.0	BH23-7	0.1 - 0.8 m	26-Jun-23	0.5	8	9	1.2
Chromium	7440-47-3	µg/g	20.6	BH23-1	0.3 - 1.2 m	26-Jun-23	n/a	8	9	160
Cobalt	7440-48-4	µg/g	8.8	BH23-4	0.1 - 0.7 m	26-Jun-23	0.5	8	9	22
Copper	7440-50-8	µg/g	88.1	BH23-8	0.1 - 1 m	26-Jun-23	n/a	8	9	140
Lead	7439-92-1	µg/g	204	BH23-1	0.3 - 1.2 m	26-Jun-23	0.2	8	9	120
Molybdenum	7439-98-7	µg/g	3.4	BH23-7	0.1 - 0.8 m	26-Jun-23	1.0	8	9	6.9
Nickel	7440-02-0	µg/g	18.2	BH23-4	0.1 - 0.7 m	26-Jun-23	1.0	8	9	100
Selenium	7782-49-2	µg/g	2.0	BH23-7	0.1 - 0.8 m	26-Jun-23	1.0	8	9	2.4
Silver	7440-22-4	µg/g	2.2	BH23-7	0.1 - 0.8 m	26-Jun-23	0.3	8	9	20
Thallium	7440-28-0	µg/g	2.3	BH23-7	0.1 - 0.8 m	26-Jun-23	1.0	8	9	1
Uranium	7440-61-1	µg/g	2.2	BH23-7	0.1 - 0.8 m	26-Jun-23	1.0	8	9	23
Vanadium	7440-62-2	µg/g	25.2	BH23-1	0.3 - 1.2 m	26-Jun-23	n/a	8	9	86
Zinc	7440-66-6	µg/g	136	BH23-1	0.3 - 1.2 m	26-Jun-23	5.0	8	9	340
Metals-SPLP										
Antimony	7440-36-0	µg/L	4.2	BH23-1	0.3 - 1.2 m	26-Jun-23	1.0	3	3	n/v
Arsenic	7440-38-2	µg/L	1.2	BH23-1	0.3 - 1.2 m	26-Jun-23	1.0	3	3	n/v
Barium	7440-39-3	µg/L	35.8	BH23-1	0.3 - 1.2 m	26-Jun-23	n/a	3	3	n/v
Beryllium	7440-41-7	µg/L	(<0.5)	n/a	n/a	n/a	0.5	3	3	n/v
Boron	7440-42-8	µg/L	41.2	BH23-8	0.1 - 1 m	26-Jun-23	n/a	3	3	n/v
Cadmium	7440-43-9	µg/L	(<0.2)	n/a	n/a	n/a	0.5	3	3	n/v
Chromium	7440-47-3	µg/L	1.3	BH23-1	0.3 - 1.2 m	26-Jun-23	n/a	3	3	n/v
Cobalt	7440-48-4	µg/L	(<0.5)	n/a	n/a	n/a	0.5	3	3	n/v
Copper	7440-50-8	µg/L	8.7	BH23-1	0.3 - 1.2 m	26-Jun-23	n/a	3	3	n/v
Lead	7439-92-1	µg/L	21.1	BH23-1	0.3 - 1.2 m	26-Jun-23	0.2	3	3	n/v
Molybdenum	7439-98-7	µg/L	8.9	BH23-1	0.3 - 1.2 m	26-Jun-23	1.0	3	3	n/v
Nickel	7440-02-0	µg/L	1.5	BH23-1	0.3 - 1.2 m	26-Jun-23	1.0	3	3	n/v
Selenium	7782-49-2	µg/L	(<1.0)	n/a	n/a	n/a	1.0	3	3	n/v
Silver	7440-22-4	µg/L	(<0.2)	n/a	n/a	n/a	0.3	3	3	n/v
Thallium	7440-28-0	µg/L	(<0.5)	n/a	n/a	n/a	1.0	3	3	n/v
Uranium	7440-61-1	µg/L	0.4 (<1.0)	BH23-1	0.3 - 1.2 m	26-Jun-23	1.0	3	3	n/v
Vanadium	7440-62-2	µg/L	2.0	BH23-1	0.3 - 1.2 m	26-Jun-23	n/a	3	3	n/v
Zinc	7440-66-6	µg/L	15.8	BH23-1	0.3 - 1.2 m	26-Jun-23	5.0	3	3	n/v
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	µg/g	1.24	BH23-4	0.1 - 0.7 m	26-Jun-23	0.02	8	9	7.9
Acenaphthylene	208-96-8	µg/g	0.47	BH23-1	0.3 - 1.2 m	26-Jun-23	0.02	8	9	0.15
Anthracene	120-12-7	µg/g	2.13	BH23-4	0.1 - 0.7 m	26-Jun-23	0.02	8	9	0.67
Benzo(a)anthracene	56-55-3	µg/g	3.85	BH23-4	0.1 - 0.7 m	26-Jun-23	n/a	8	9	0.5
Benzo(a)pyrene	50-32-8	µg/g	2.87	BH23-4	0.1 - 0.7 m	26-Jun-23	n/a	8	9	0.3
Benzo(b)fluoranthene	205-99-2	µg/g	3.56	BH23-4	0.1 - 0.7 m	26-Jun-23	n/a	8	9	0.78
Benzo(g,h,i)perylene	191-24-2	µg/g	1.88	BH23-1	0.3 - 1.2 m	26-Jun-23	n/a	8	9	6.6
Benzo(k)fluoranthene	207-08-9	µg/g	1.98	BH23-4	0.1 - 0.7 m	26-Jun-23	0.02	8	9	0.78
Chrysene	218-01-9	µg/g	3.51	BH23-4	0.1 - 0.7 m	26-Jun-23	n/a	8	9	7
Dibenzo(a,h)anthracene	53-70-3	µg/g	0.46	BH23-1	0.3 - 1.2 m	26-Jun-23	0.02	8	9	0.1
Fluoranthene	206-44-0	µg/g	10.7	BH23-4	0.1 - 0.7 m	26-Jun-23	n/a	8	9	0.69
Fluorene	86-73-7	µg/g	1.23	BH23-4	0.1 - 0.7 m	26-Jun-23	0.02	8	9	62
Indeno(1,2,3-cd)pyrene	193-39-5	µg/g	1.58	BH23-1	0.3 - 1.2 m	26-Jun-23	0.02	8	9	0.38
Methylnaphthalene (Total)	90120/91576	µg/g	0.26	BH23-4	0.1 - 0.7 m	26-Jun-23	0.04	8	9	0.99 _{s3}
Methylnaphthalene, 1-	90-12-0	µg/g	0.12	BH23-4	0.1 - 0.7 m	26-Jun-23	0.02	8	9	s3
Methylnaphthalene, 2-	91-57-6	µg/g	0.14	BH23-4	0.1 - 0.7 m	26-Jun-23	0.02	8	9	s3
Naphthalene	91-20-3	µg/g	0.21	BH23-4	0.1 - 0.7 m	26-Jun-23	0.01	8	9	0.6
Phenanthrene	85-01-8	µg/g	10.4	BH23-4	0.1 - 0.7 m	26-Jun-23	n/a	8	9	6.2
Pyrene	129-00-0	µg/g	8.11	BH23-4	0.1 - 0.7 m	26-Jun-23	n/a	8	9	78
Volatile Organic Compounds										
Acetone	67-64-1	µg/g	(<0.50)	n/a	n/a	n/a	0.5	8	9	16
Benzene	71-43-2	µg/g	(<0.02)	n/a	n/a	n/a	0.02	8	9	0.21
Bromodichloromethane	75-27-4	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	13
Bromoform (Tribromomethane)	75-25-2	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	0.27
Bromomethane (Methyl bromide)	74-83-9	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	0.05
Carbon Tetrachloride (Tetrachloromethane)	56-23-5	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	0.05
Chlorobenzene (Monochlorobenzene)	108-90-7	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	2.4
Chloroform (Trichloromethane)	67-66-3	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	0.05
Dibromochloromethane	124-48-1	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	9.4
Dichlorobenzene, 1,2-	95-50-1	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	3.4
Dichlorobenzene, 1,3-	541-73-1	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	4.8
Dichlorobenzene, 1,4-	106-46-7	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	0.083
Dichlorodifluoromethane (Freon 12)	75-71-8	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	16
Dichloroethane, 1,1-	75-34-3	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	3.5
Dichloroethane, 1,2-	107-06-2	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	0.05
Dichloroethene, 1,1-	75-35-4	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	0.05
Dichloroethene, cis-1,2-	156-59-2	µg/g	0.17	BH23-1	0.3 - 1.2 m	26-Jun-23	0.17	8	9	3.4
Dichloroethene, trans-1,2-	156-60-5	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	0.084
Dichloropropane, 1,2-	78-87-5	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	0.05
Dichloropropene, 1,3- (sum of isomers cis + trans)	542-75-6	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	0.05 _{s11}
Dichloropropene, cis-1,3-	10061-01-5	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	s11
Dichloropropene, trans-1,3-	10061-02-6	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	s11
Ethylbenzene	100-41-4	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	2
Ethylene Dibromide (Dibromoethane, 1,2-)	106-93-4	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	0.05
Hexane (n-Hexane)	110-54-3	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	2.8
Methyl Ethyl Ketone (MEK) (2-Butanone)	78-93-3	µg/g	(<0.5)	n/a	n/a	n/a	0.5	8	9	16
Methyl Isobutyl Ketone (MIBK)	108-10-1	µg/g	(<0.5)	n/a	n/a	n/a	0.5	8	9	1.7
Methyl tert-butyl ether (MTBE)	1634-04-4	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	0.75
Methylene Chloride (Dichloromethane)	75-09-2	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	0.1
Styrene	100-42-5	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	0.7
Tetrachloroethane, 1,1,1,2-	630-20-6	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	0.058
Tetrachloroethane, 1,1,2,2-	79-34-5	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	0.05
Tetrachloroethene (PCE)	127-18-4	µg/g	3.94	BH23-2	0.3 - 1.5 m	26-Jun-23	n/a	8	9	0.28
Toluene	108-88-3	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	2.3
Trichloroethane, 1,1,1-	71-55-6	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	0.38
Trichloroethane, 1,1,2-	79-00-5	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	0.05
Trichloroethene (TCE)	79-01-6	µg/g	0.36	BH23-2	0.3 - 1.5 m	26-Jun-23	0.05	8	9	0.061
Trichlorofluoromethane (Freon 11)	75-69-4	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	4
Vinyl Chloride	75-01-4	µg/g	(<0.02)	n/a	n/a	n/a	0.02	8	9	0.02

Table VI
Summary of Soil Maximum Concentrations
Proposed Hintonburg Development

Contaminant	Contaminant Identifier (CAS)	Units	Maximum Measured Concentration	Location of Maximum Detect	Depth of Maximum Detect	Date of Maximum Detect	Maximum Reporting Limit for Non-Detects	Count of Locations Samples	Count of Samples	Ontario SCS Table 7
Xylene, m & p-	108383/106423	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	s1
Xylene, o-	95-47-6	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	s1
Xylenes, Total	1330-20-7	µg/g	(<0.05)	n/a	n/a	n/a	0.05	8	9	3.1s1

See notes on last page

Volatile Organic Compounds-SPLP

Bromomethane (Methyl bromide)	74-83-9	µg/L	(<0.5)	n/a	n/a	n/a	0.5	3	3	n/v
Carbon Tetrachloride (Tetrachloromethane)	56-23-5	µg/L	(<0.2)	n/a	n/a	n/a	0.2	3	3	n/v
Chloroform (Trichloromethane)	67-66-3	µg/L	(<0.5)	n/a	n/a	n/a	0.5	3	3	n/v
Dichlorobenzene, 1,2-	95-50-1	µg/L	(<0.5)	n/a	n/a	n/a	0.5	3	3	n/v
Dichlorobenzene, 1,4-	106-46-7	µg/L	(<0.5)	n/a	n/a	n/a	0.5	3	3	n/v
Dichloroethane, 1,1-	75-34-3	µg/L	(<0.5)	n/a	n/a	n/a	0.5	3	3	n/v
Dichloroethane, 1,2-	107-06-2	µg/L	(<0.2)	n/a	n/a	n/a	0.2	3	3	n/v
Dichloroethene, 1,1-	75-35-4	µg/L	(<0.5)	n/a	n/a	n/a	0.5	3	3	n/v
Dichloroethene, cis-1,2-	156-59-2	µg/L	(<0.2)	n/a	n/a	n/a	0.2	3	3	n/v
Dichloroethene, trans-1,2-	156-60-5	µg/L	(<0.5)	n/a	n/a	n/a	0.5	3	3	n/v
Dichloropropane, 1,2-	78-87-5	µg/L	(<0.5)	n/a	n/a	n/a	0.5	3	3	n/v
Dichloropropene, 1,3- (sum of isomers cis + trans)	542-75-6	µg/L	(<0.5)	n/a	n/a	n/a	0.5	3	3	n/v
Dichloropropene, cis-1,3-	10061-01-5	µg/L	(<0.5)	n/a	n/a	n/a	0.5	3	3	n/v
Dichloropropene, trans-1,3-	10061-02-6	µg/L	(<0.5)	n/a	n/a	n/a	0.5	3	3	n/v
Ethylene Dibromide (Dibromoethane, 1,2-)	106-93-4	µg/L	(<0.2)	n/a	n/a	n/a	0.2	3	3	n/v
Tetrachloroethane, 1,1,1,1,2-	630-20-6	µg/L	(<0.5)	n/a	n/a	n/a	0.5	3	3	n/v
Tetrachloroethane, 1,1,1,2,2-	79-34-5	µg/L	(<0.5)	n/a	n/a	n/a	0.5	3	3	n/v
Tetrachloroethene (PCE)	127-18-4	µg/L	5.2	BH23-8	0.1 - 1 m	26-Jun-23	0.5	3	3	n/v
Trichloroethane, 1,1,2-	79-00-5	µg/L	(<0.5)	n/a	n/a	n/a	0.5	3	3	n/v
Trichloroethene (TCE)	79-01-6	µg/L	0.8	BH23-1	0.3 - 1.2 m	26-Jun-23	0.5	3	3	n/v

Notes:

Ontario SCS Soil, Ground Water and Sediment Standards for Use under Part XV.I of the Environmental Protection Act (MOE, 2011) Site Condition Standards (SCS)

Table 7 - Residential / Parkland / Institutional Property Use - Coarse Textured Soils

n/a not available

n/v no value

(<0.050) The analyte was never detected above the laboratory reporting limit, the maximum reporting limit is displayed

15.7 (<24) The analyte was detected, but there was a non-detect with a higher laboratory reporting limit

* count includes primary/normal samples and field duplicate samples

Table VII
Summary of Groundwater Maximum Concentrations
Taggart Realty Redevelopment

Conaminant	Contaminant Identifier (CAS)	Units	Maximum	Location of Maximum Detect	Date of Maximum Detect	Maximum Reporting Limit for Non-Detects	Minium Reporting Limit for Non-Detects	Count of Locations Samples	Count of Samples *	Ontario SCS Table 7
General Chemistry										
Chloride	16887-00-6	mg/L	4320	MW19-12B	29-Jun-23	5	1	18	20	1800
Cyanide (Free)	57-12-5FREE	µg/L	(<2)	n/a	n/a	2	2	18	20	52
pH_lab	PHLAB	S.U.	8.1	MW00-4	28-Jun-23	0.1	0.1	18	20	n/v
Petroleum Hvdrocarbons										
PHC F1 (C6-C10 range) minus BTEX	PHC_F1-BTEX	µg/L	34800(<125000)	MW14-1B	27-Sep-24	125000	25	18	20	420 _{s7}
PHC F2 (>C10-C16 range)	PHC_F2	µg/L	313000	MW01-10	25-Sep-24	100	100	18	20	150 _{s15}
PHC F3 (>C16-C34 range)	PHC_F3	µg/L	317000	MW01-10	25-Sep-24	100	100	18	20	500 _{s8}
PHC F4 (>C34-C50 range)	PHC_F4	µg/L	142000	MW01-10	25-Sep-24	100	100	18	20	500 _{s10}
Metals										
Antimony	7440-36-0	µg/L	8	MW08-33A	30-Jun-23	0.5	0.5	18	20	16000
Arsenic	7440-38-2	µg/L	17	MW16-01	29-Jun-23	1	1	18	20	1500
Barium	7440-39-3	µg/L	4750	MW19-12B	29-Jun-23	10	1	18	20	23000
Beryllium	7440-41-7	µg/L	(<0.5)	n/a	n/a	0.5	0.5	18	20	53
Boron	7440-42-8	µg/L	1840	MW08-33A	30-Jun-23	100	10	18	20	36000
Cadmium	7440-43-9	µg/L	0.1 (<0.1)	MW08-33A	30-Jun-23	0.1	0.1	18	20	2.1
Chromium	7440-47-3	µg/L	1 (<1)	MW19-13A	30-Jun-23	1	1	18	20	640
Cobalt	7440-48-4	µg/L	8.8	MW08-33A	30-Jun-23	0.5	0.5	18	20	52
Copper	7440-50-8	µg/L	21	MW00-4	28-Jun-23	0.5	0.5	18	20	69
Lead	7439-92-1	µg/L	0.4	MW19-13A	30-Jun-23	0.1	0.1	18	20	20
Molybdenum	7439-98-7	µg/L	130	MW08-31A	30-Jun-23	0.5	0.5	18	20	7300
Nickel	7440-02-0	µg/L	59	MW08-33A	30-Jun-23	1	1	18	20	390
Selenium	7782-49-2	µg/L	5	MW16-01	29-Jun-23	1	1	18	20	50
Silver	7440-22-4	µg/L	(<0.1)	n/a	n/a	0.1	0.1	18	20	1.2
Sodium	7440-23-5	µg/L	1360000	MW19-12B	29-Jun-23	9580	200	18	20	1800000
Thallium	7440-28-0	µg/L	0.4	MW00-6	29-Jun-23	0.1	0.1	18	20	400
Uranium	7440-61-1	µg/L	14.2	MW08-33A	30-Jun-23	n/a	0.1	18	20	330
Vanadium	7440-62-2	µg/L	21.3	MW16-01	29-Jun-23	0.5	0.5	18	20	200
Zinc	7440-66-6	µg/L	118	MW08-33A	30-Jun-23	5	5	18	20	890
Polvcvclic Aromatic Hvdrocarbons										
Acenaphthene	83-32-9	µg/L	4.36 (<5.00)	MW01-10	25-Sep-24	5.00	0.05	18	23	17
Acenaphthylene	208-96-8	µg/L	(<5.00)	n/a	n/a	5.00	0.05	18	23	1
Anthracene	120-12-7	µg/L	5.57	MW01-10	25-Sep-24	1.00	0.01	18	23	1
Benzo(a)anthracene	56-55-3	µg/L	8.31	MW01-10	25-Sep-24	1.00	0.01	18	23	1.8
Benzo(a)pyrene	50-32-8	µg/L	6.74	MW01-10	25-Sep-24	1.00	0.01	18	23	0.81
Benzo(b)fluoranthene	205-99-2	µg/L	6.69	MW01-10	25-Sep-24	5.00	0.05	18	23	0.75
Benzo(g,h,i)perylene	191-24-2	µg/L	13.3	MW19-12B	29-Jun-23	0.05	0.05	18	23	0.2
Benzo(k)fluoranthene	207-08-9	µg/L	4.05 (<5.00)	MW01-10	25-Sep-24	5.00	0.05	18	23	0.4
Chrysene	218-01-9	µg/L	7.10	MW01-10	25-Sep-24	5.00	0.05	18	23	0.7
Dibenzo(a,h)anthracene	53-70-3	µg/L	0.27 (<5.00)	MW14-2	29-Jun-23	5.00	0.05	18	23	0.4
Fluoranthene	206-44-0	µg/L	21.2	MW01-10	25-Sep-24	1.00	0.01	18	23	44
Fluorene	86-73-7	µg/L	4.38 (<5.00)	MW01-10	25-Sep-24	5.00	0.05	18	23	290
Indeno(1,2,3-cd)pyrene	193-39-5	µg/L	8.52	MW19-12B	29-Jun-23	1.00	0.05	18	23	0.2
Methylnaphthalene (Total)	90120/91576	µg/L	137	MW01-10	25-Sep-24	10.0	0.10	18	23	1,500 _{s3}
Methylnaphthalene, 1-	90-12-0	µg/L	51.8	MW01-10	25-Sep-24	5.00	0.05	18	23	s3
Methylnaphthalene, 2-	91-57-6	µg/L	85.7	MW01-10	25-Sep-24	5.00	0.05	18	23	s3
Naphthalene	91-20-3	µg/L	126	MW01-10	25-Sep-24	1.00	0.05	18	23	7
Phenanthrene	85-01-8	µg/L	34.2	MW01-10	25-Sep-24	5.00	0.05	18	23	380
Pyrene	129-00-0	µg/L	15.5	MW01-10	25-Sep-24	1.00	0.01	18	23	5.7
Volatile Orqanic Compounds										
Acetone	67-64-1	µg/L	12600 (<25000)	E3	29-Jun-23	25000	5.0	18	37	100000
Benzene	71-43-2	µg/L	2080 (<2500)	MW08-33A	26-Sep-24	2500	0.5	18	37	0.5
Bromodichloromethane	75-27-4	µg/L	(<2500)	n/a	n/a	2500	0.5	18	37	67000
Bromoform (Tribromomethane)	75-25-2	µg/L	(<2500)	n/a	n/a	2500	0.5	18	37	5
Bromomethane (Methyl bromide)	74-83-9	µg/L	(<2500)	n/a	n/a	2500	0.5	18	37	0.89
Carbon Tetrachloride (Tetrachloromethane)	56-23-5	µg/L	(<1000)	n/a	n/a	1000	0.2	18	37	0.2
Chlorobenzene (Monochlorobenzene)	108-90-7	µg/L	(<2500)	n/a	n/a	2500	0.5	18	37	140
Chloroform (Trichloromethane)	67-66-3	µg/L	(<2500)	n/a	n/a	2500	0.5	18	37	2
Dibromochloromethane	124-48-1	µg/L	(<2500)	n/a	n/a	2500	0.5	18	37	65000
Dichlorobenzene, 1,2-	95-50-1	µg/L	(<2500)	n/a	n/a	2500	0.5	18	37	150
Dichlorobenzene, 1,3-	541-73-1	µg/L	(<2500)	n/a	n/a	2500	0.5	18	37	7600
Dichlorobenzene, 1,4-	106-46-7	µg/L	(<2500)	n/a	n/a	2500	0.5	18	37	0.5
Dichlorodifluoromethane (Freon 12)	75-71-8	µg/L	(<5000)	n/a	n/a	5000	1.0	18	37	3500
Dichloroethane, 1,1-	75-34-3	µg/L	(<2500)	n/a	n/a	2500	0.5	18	37	11
Dichloroethane, 1,2-	107-06-2	µg/L	(<2500)	n/a	n/a	2500	0.5	18	37	0.5
Dichloroethene, 1,1-	75-35-4	µg/L	140 (<2500)	MW08-33A	26-Sep-24	2500	0.5	18	37	0.5
Dichloroethene, cis-1,2-	156-59-2	µg/L	390000	MW14-1A	20-Sep-18	10	0.1	153	1963	1.6
Dichloroethene, trans-1,2-	156-60-5	µg/L	900 (<2500)	MW19-12A	25-Sep-24	2500	0.5	18	37	1.6
Dichloropropane, 1,2-	78-87-5	µg/L	3.0(<2500)	n/a	n/a	2500	0.5	18	37	0.58
Dichloropropene, 1,3- (sum of isomers cis + trans)	542-75-6	µg/L	(<2500)	n/a	n/a	2500	0.5	18	37	0.5 _{s11}
Dichloropropene, cis-1,3-	10061-01-5	µg/L	(<2500)	n/a	n/a	2500	0.5	18	37	s11
Dichloropropene, trans-1,3-	10061-02-6	µg/L	(<2500)	n/a	n/a	2500	0.5	18	37	s11
Ethylbenzene	100-41-4	µg/L	160 (<2500)	MW14-1B	27-Sep-24	2500	0.5	18	37	54
Ethylene Dibromide (Dibromoethane, 1,2-)	106-93-4	µg/L	(<1000)	n/a	n/a	1000	0.2	18	37	0.2
Hexane (n-Hexane)	110-54-3	µg/L	(<5000)	n/a	n/a	5000	1.0	18	37	5
Methyl Ethyl Ketone (MEK) (2-Butanone)	78-93-3	µg/L	167 (<25000)	MW16-01	29-Jun-23	25000	5.0	18	37	21000
Methyl Isobutyl Ketone (MIBK)	108-10-1	µg/L	19 (<25000)	E3	29-Jun-23	25000	5.0	18	37	5200
Methyl tert-butyl ether (MTBE)	1634-04-4	µg/L	(<10000)	n/a	n/a	10000	2.0	18	37	15
Methylene Chloride (Dichloromethane)	75-09-2	µg/L	5.6 (<25000)	MW14-1B	27-Sep-24	25000	5.0	18	37	26
Styrene	100-42-5	µg/L	0.6 (<2500)	MW08-33A	26-Sep-24	2500	0.5	18	37	43
Tetrachloroethane, 1,1,1,2-	630-20-6	µg/L	(<2500)	n/a	n/a	2500	0.5	18	37	1.1
Tetrachloroethane, 1,1,2,2-	79-34-5	µg/L	4.8 (<2500)	MW19-12B	29-Jun-23	2500	0.5	18	37	0.5
Tetrachloroethene (PCE)	127-18-4	µg/L	460000	E4	2-Aug-17	250	0.10	153	1963	0.5
Toluene	108-88-3	µg/L	1720 (<2500)	MW08-33A	26-Sep-24	2500	0.5	18	37	320
Trichloroethane, 1,1,1-	71-55-6	µg/L	(<2500)	n/a	n/a	2500	0.5	18	37	23
Trichloroethane, 1,1,2-	79-00-5	µg/L	(<2500)	n/a	n/a	2500	0.5	18	37	0.5
Trichloroethene (TCE)	79-01-6	µg/L	98000	MW14-1A	29-Jul-16	50	0.10	153	1963	0.5
Trichlorofluoromethane (Freon 11)	75-69-4	µg/L	(<5000)	n/a	n/a	5000	1.0	18	37	2000
Vinyl Chloride	75-01-4	µg/L	56000	E5	26-Apr-17	2500	0.2	153	1963	0.5
Xylene, m & p-	108383/106423	µg/L	413 (<2500)	MW14-1B	27-Sep-24	2500	0.5	18	37	s1
Xylene, o-	95-47-6	µg/L	147 (<2500)	MW14-1B	27-Sep-24	2500	0.5	18	37	s1
Xylenes, Total	1330-20-7	µg/L	560 (<2500)	MW14-1B	27-Sep-24	2500	0.5	18	37	72 _{s1}

Notes:

Ontario SCS	Soil, Ground Water and Sediment Standards for Use under Part XV.I of the Environmental Protection Act (MOE, 2011) Site Condition Standards (SCS)
	Table 7 - Residential / Parkland / Institutional Property Use - Coarse Textured Soils
n/a	not available
n/v	no value
(<0.050)	The analyte was never detected above the laboratory reporting limit, the maximum reporting limit is displayed
15.7 (<24)	The analyte was detected, but there was a non-detect with a higher laboratory reporting limit
*	count includes primary/normal samples and field duplicate samples
s1	Standard is applicable to total xylenes, and m & p-xylenes and o-xylenes should be summed for comparison.
s3	Standard is applicable to both 1-methylnaphthalene and 2-methylnaphthalene, with the provision that if both are detected the sum of the two must not exceed the standard.
s7	Standard is applicable to PHC in the F1 range minus BTEX.
s8	Standard is applicable to PHC in the F3 range, minus PAHs (other than naphthalene). If PAHs were not analyzed, the standard is applied to F3.
s10	If baseline is not reached during F4 analysis, then gravimetric analysis is to be performed, and the standard is applied to the higher of the two results.
s11	Standard is applicable to 1,3-Dichloropropene, and the individual isomers (cis + trans) should be added for comparison.
s15	Standard is applicable to PHC in the F2 range minus naphthalene. If naphthalene was not analyzed, the standard is applied to F2.

Table VIII
Summary of Soil Vapour Maximum Concentrations
Taggart Realty Redevelopment

Conaminant	Contaminant Identifier (CAS)	Units	Maximum	Location of Maximum Detect	Date of Maximum Detect	Maximum Reporting Limit for Non-Detects	Count of Locations Samples	Count of Samples *	Soil Vapour Criteria** Stantec
General Chemistry									
Pressure on Receipt	PRESSURE	psi	(-3.6)	VP14-2	21-Jun-23	n/a	13	13	n/v
Petroleum Hydrocarbons									
Aliphatic >C5-C6	PHCG56ALIP	µg/m3	81.1	VP14-10	21-Jun-23	24	12	14	n/v
Aliphatic >C6-C8	PHCG68ALIP	µg/m3	55.2	VP14-10	21-Jun-23	24	11	14	8,223,673 ^A
Aliphatic >C8-C10	PHC810ALIP	µg/m3	96.1	VP12-2	21-Jun-23	24	11	14	446,939 ^A
Aliphatic >C10 - C12	EPHC10C12ALIP	µg/m3	55.3	VP12-3	21-Jun-23	24	11	14	446,939 ^A
Aliphatic >C12 - C16	EPHC12C16ALIP	µg/m3	<24	n/a	n/a	24	11	14	446,939 ^A
Aromatic >C7-C8 (TEX Excluded)	EPHC7C8AROM	µg/m3	<24	n/a	n/a	24	11	14	n/v
Aromatic >C8-C10	EPHC8C10AROM	µg/m3	15.7 (<24)	VP12-1	21-Jun-23	24	11	14	89,388 ^A
Aromatic >C10 - C12	EPHC10C12AROM	µg/m3	7.3 (<24)	VP12-3	21-Jun-23	24	11	14	89,388 ^A
Aromatic >C12 - C16	EPHC12C16AROM	µg/m3	<24	n/a	n/a	24	11	14	89,388 ^A
Volatile Organic Compounds									
Dichloroethene, cis-1,2-	156-59-2	µg/m3	16200	VP12-2	16-Aug-16	6.3	54	302	26,816 ^A
Tetrachloroethene (PCE)	127-18-4	µg/m3	90300	VP12-2	16-Aug-16	11	48	302	3,438 ^A
Trichloroethene (TCE)	79-01-6	µg/m3	84700	VP12-2	24-Jul-13	14	53	302	100/218 ^A
Vinyl Chloride	75-01-4	µg/m3	7220	VP12-2	10-Sep-12	48	55	302	102 ^A
Volatile Organic Compounds-Calculated									
Acetone	67-64-1	µg/m3	33.6	VP12-1	21-Jun-23	6.8	11	14	2,860,408 ^A
Benzene	71-43-2	µg/m3	4.27	VP12-2	21-Jun-23	1.5	11	14	406 ^A
Benzyl Chloride	100-44-7	µg/m3	<12	n/a	n/a	12	11	14	n/v
Bromodichloromethane	75-27-4	µg/m3	<6.4	n/a	n/a	6.4	11	14	n/v
Bromoform (Tribromomethane)	75-25-2	µg/m3	<9.9	n/a	n/a	9.9	11	14	n/v
Bromomethane (Methyl bromide)	74-83-9	µg/m3	<1.9	n/a	n/a	1.9	11	14	894 ^A
Butadiene, 1,3-	106-99-0	µg/m3	<5.3	n/a	n/a	5.3	11	14	n/v
Carbon Disulfide	75-15-0	µg/m3	16.2	VP12-1	21-Jun-23	7.5	11	14	n/v
Carbon Tetrachloride (Tetrachloromethane)	56-23-5	µg/m3	39.1	VP14-4	26-Jun-23	1.2	11	14	358 ^A
Chlorobenzene (Monochlorobenzene)	108-90-7	µg/m3	<2.2	n/a	n/a	2.2	11	14	178,776 ^A
Chloroethane (Ethyl Chloride)	75-00-3	µg/m3	<3.8	n/a	n/a	3.8	11	14	n/v
Chloroform (Trichloromethane)	67-66-3	µg/m3	27.8	VP14-4	26-Jun-23	0.93	11	14	17,878 ^A
Chloromethane	74-87-3	µg/m3	2.2 (<3.0)	VP12-1	21-Jun-23	3.0	11	14	n/v
Cyclohexane	110-82-7	µg/m3	7.4	VP14-10	21-Jun-23	3.3	11	14	n/v
Dibromochloromethane	124-48-1	µg/m3	<8.2	n/a	n/a	8.2	11	14	n/v
Dichlorobenzene, 1,2-	95-50-1	µg/m3	<2.9	n/a	n/a	2.9	11	14	107,265 ^A
Dichlorobenzene, 1,3-	541-73-1	µg/m3	<12	n/a	n/a	12	11	14	n/v
Dichlorobenzene, 1,4-	106-46-7	µg/m3	<2.9	n/a	n/a	2.9	11	14	223 ^A
Dichlorodifluoromethane (Freon 12)	75-71-8	µg/m3	6.29	VP14-7	21-Jun-23	4.7	11	14	n/v
Dichloroethane, 1,1-	75-34-3	µg/m3	0.68 (<1.9)	VP07-3	21-Jun-23	1.9	11	14	29,498 ^A
Dichloroethane, 1,2-	107-06-2	µg/m3	<1.9	n/a	n/a	1.9	11	14	34 ^A
Dichloroethene, 1,1-	75-35-4	µg/m3	<1.9	n/a	n/a	1.9	11	14	35,755 ^A
Dichloroethene, trans-1,2-	156-60-5	µg/m3	28.3	VP14-10	21-Jun-23	1.9	11	14	10,727 ^A
Dichloropropane, 1,2-	78-87-5	µg/m3	<2.2	n/a	n/a	2.2	11	14	715 ^A
Dichloropropene, cis-1,3-	10061-01-5	µg/m3	<2.2	n/a	n/a	2.2	11	14	223 ^A
Dichloropropene, trans-1,3-	10061-02-6	µg/m3	<2.2	n/a	n/a	2.2	11	14	n/v
Dichlorotetrafluoroethane, 1,2- (Freon 114)	76-14-2	µg/m3	<5.7	n/a	n/a	5.7	11	14	n/v
Dioxane, 1,4-	123-91-1	µg/m3	<17	n/a	n/a	17	11	14	643,592 ^A
Ethanol	64-17-5	µg/m3	19	VP12-2	21-Jun-23	9.0	11	14	n/v
Ethyl Acetate	141-78-6	µg/m3	60.5	VP12-2	21-Jun-23	17	11	14	n/v
Ethylbenzene	100-41-4	µg/m3	5.1	VP12-1	21-Jun-23	2.1	11	14	357,551 ^A
Ethylene Dibromide (Dibromoethane, 1,2-)	106-93-4	µg/m3	<3.7	n/a	n/a	3.7	11	14	1.49 ^A
Ethyltoluene, 4-	622-96-8	µg/m3	<12	n/a	n/a	12	11	14	n/v
Heptane (C7)	142-82-5	µg/m3	6.8	VP12-2	21-Jun-23	5.9	11	14	n/v
Hexachlorobutadiene (Hexachloro-1,3-butadiene)	87-68-3	µg/m3	<26	n/a	n/a	26	11	14	41 ^A
Hexane (n-Hexane)	110-54-3	µg/m3	<19	n/a	n/a	19	11	14	536,300 ^A
Hexanone, 2- (Methyl Butyl Ketone)	591-78-6	µg/m3	<20	n/a	n/a	20	11	14	n/v
Isopropyl Alcohol (2-Propanol)	67-63-0	µg/m3	3.1 (<12)	VP12-1	21-Jun-23	12	11	14	n/v
Methyl Ethyl Ketone (MEK) (2-Butanone)	78-93-3	µg/m3	109	VP12-2	21-Jun-23	2.8	11	14	250,687 ^A
Methyl Isobutyl Ketone (MIBK)	108-10-1	µg/m3	2.7 (<3.9)	VP12-2	21-Jun-23	3.9	11	14	150,412 ^A
Methyl tert-butyl ether (MTBE)	1634-04-4	µg/m3	<3.5	n/a	n/a	3.5	11	14	3,438 ^A
Methylene Chloride (Dichloromethane)	75-09-2	µg/m3	16	VP14-4	26-Jun-23	4.0	11	14	38,864 ^A
Naphthalene	91-20-3	µg/m3	<5.0	n/a	n/a	5.0	11	14	661 ^A
Propene	115-07-1	µg/m3	4.7 (<17)	VP12-2	21-Jun-23	17	11	14	n/v
Styrene	100-42-5	µg/m3	4.37	VP12-1	21-Jun-23	2.0	11	14	46,482 ^A
Tetrachloroethane, 1,1,1,2-	630-20-6	µg/m3	<3.3	n/a	n/a	3.3	11	14	121 ^A
Tetrachloroethane, 1,1,2,2-	79-34-5	µg/m3	<3.3	n/a	n/a	3.3	11	14	15 ^A
Tetrahydrofuran	109-99-9	µg/m3	<5.7	n/a	n/a	5.7	11	14	n/v
Toluene	108-88-3	µg/m3	187 (<1.8)	VP12-2	21-Jun-23	1.8	11	14	893,878 ^A
Trichlorobenzene, 1,2,4-	120-82-1	µg/m3	<18	n/a	n/a	18	11	14	1,430 ^A
Trichloroethane, 1,1,1-	71-55-6	µg/m3	8.6	VP14-4	26-Jun-23	1.0	11	14	178,776 ^A
Trichloroethane, 1,1,2-	79-00-5	µg/m3	<2.6	n/a	n/a	2.6	11	14	56 ^A
Trichlorofluoromethane (Freon 11)	75-69-4	µg/m3	33.3	VP14-7	21-Jun-23	5.4	11	14	n/v
Trichlorotrifluoroethane (Freon 113)	76-13-1	µg/m3	26.3	VP14-4	26-Jun-23	2.2	11	14	n/v
Trimethylbenzene, 1,2,4-	95-63-6	µg/m3	4 (<12)	VP12-3	21-Jun-23	12	11	14	n/v
Trimethylbenzene, 1,3,5-	108-67-8	µg/m3	<12	n/a	n/a	12	11	14	n/v
Trimethylpentane, 2,2,4-	540-84-1	µg/m3	<4.5	n/a	n/a	4.5	11	14	n/v
Vinyl Acetate	108-05-4	µg/m3	<5.3	n/a	n/a	5.3	11	14	n/v
Vinyl Bromide (Bromoethene)	593-60-2	µg/m3	<4.2	n/a	n/a	4.2	11	14	n/v
Xylene, m & p-	108383/106423	µg/m3	17.8	VP12-1	21-Jun-23	4.2	11	14	n/v
Xylene, o-	95-47-6	µg/m3	6.14	VP12-1	21-Jun-23	2.1	11	14	n/v
Xylenes, Total	1330-20-7	µg/m3	23.9	VP12-1	21-Jun-23	6.3	11	14	125,143 ^A

Notes:

** Stantec Soil Vapour Criteria; Site specific criteria (soil vapour criteria - established by adjusting the Health Based Indoor Air Criteria (HBIAC) for attenuation through floor slab of a comercial building)

^A Stantec's soil vapour criteria considered representative of Safe indoor air values - Commercial Land use

n/a not available

n/v no value

(<0.050) The analyte was never detected above the laboratory reporting limit, the maximum reporting limit is displayed

15.7 (<24) The analyte was detected, but there was a non-detect with a higher laboratory reporting limit

* count includes primary/normal samples, field duplicate samples and lab replicates.

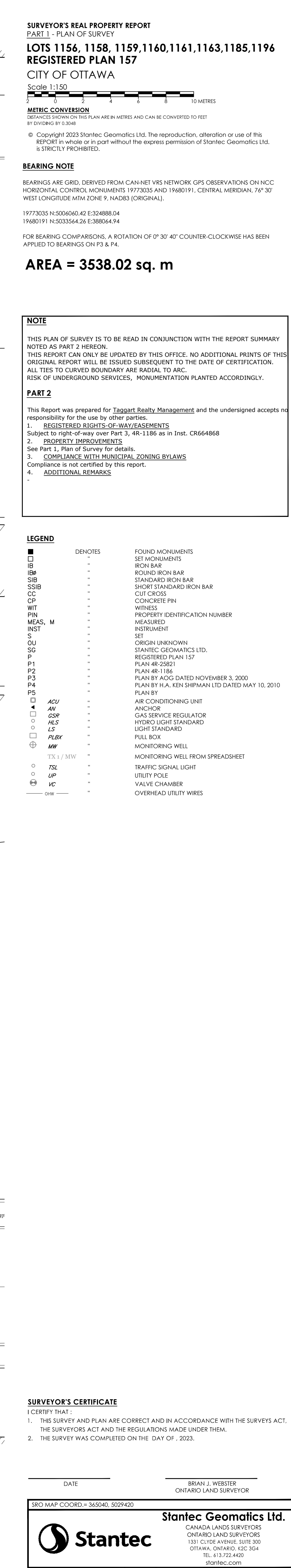
APPENDICES

**PHASE TWO ENVIRONMENTAL SITE ASSESSMENT – PROPOSED HINTONBURG DEVELOPMENT OTTAWA,
ONTARIO**

Appendix A Survey of Phase Two Property
March 1, 2024

APPENDIX A SURVEY OF PHASE TWO PROPERTY





APPENDIX B SAMPLING AND ANALYSIS PLAN





**Sampling and Analysis Plan
Proposed Hintonburg Development
Ottawa, Ontario**

February 9, 2024

Prepared for:

Taggart Realty Management /
1000147699 Ontario Inc.
225 Metcalfe Street, Suite 708
Ottawa ON K2P 1P9

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**SAMPLING AND ANALYSIS PLAN
PROPOSED HINTONBURG DEVELOPMENT, OTTAWA, ONTARIO**

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SAMPLING AND ANALYSIS PLAN PROPOSED HINTONBURG DEVELOPMENT, OTTAWA, ONTARIO

Introduction
February 9, 2024

1.0 INTRODUCTION

Taggart Realty Management / 1000147699 Ontario Inc. (the Client) retained Stantec Consulting Ltd. (Stantec) to conduct a Phase Two Environmental Site Assessment (ESA) for the properties bounded by Spencer Street, Parkdale Avenue, Armstrong Street and, Hamilton Avenue North in Ottawa, Ontario, hereinafter referred to as the "Phase One Property", the "Phase Two Property", or the "Site". The Phase Two ESA was conducted to characterize soil and groundwater at the areas of potential environmental concern (APECs) identified as part of a Phase One ESA completed by Stantec for the contaminants of concern (COCs) associated with identified potentially contaminating activities (PCAs) and was completed consistent with the requirements of Ontario Regulation (O.Reg.)153/04. Soil and groundwater quality were assessed in the context of the applicable Ministry of the Environment, Conservation and Parks (MECP) (MOE, 2011) SCS as referenced by O.Reg.153/04.

This document is the Sampling and Analysis Plan (SAP) for the Phase Two ESA. The preparation and inclusion of an SAP is a requirement of both the Canadian Standards Association Z769-00 Standard for conducting Phase II ESAs and O.Reg.153/04.

The SAP is a planning document and comprises four main parts:

Objectives Setting - the study purpose is defined as are the required quantity and quality of the environmental data to fulfill the study purpose;

Program Design & Planning - the location, type, number and timing of investigation sampling and measurements are developed;

Methods Selection & Specification - the methods used for sampling and measurement are selected and described; and

Quality Assessment - the procedures are specified to continuously confirm the design and mechanical components of the SAP are sufficient to meet the project objectives.

In Ontario, Phase Two ESAs follow a progression of study that requires the following understanding of key definitions, concepts and activities.

1. A "contaminant" is defined in the *Ontario Environmental Protection Act* (R.S.O. 1990) as any solid, liquid, gas, odor, heat, sound, vibration, radiation or combination of any of them resulting directly or indirectly from human activities that causes or may cause an adverse effect.
2. "contaminants of concern" are then defined in the Regulation as follows:
 - a. One or more contaminants found on, in or under a property at a concentration that exceeds the applicable site condition standards for the property, or



SAMPLING AND ANALYSIS PLAN

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Introduction

February 9, 2024

- b. One or more contaminants found on, in or under a property for which no applicable site condition standard is prescribed under Part IX (Site Condition Standards and Risk Assessment) and which are associated with PCA.
3. A Phase One ESA consists of an historical records review, interviews with persons knowledgeable of a property's past and current use, and a site reconnaissance to identify PCAs on the property or properties within the Phase One Study Area with the potential to result in Areas of Potential Environmental Concern (APECs) on the property. Sample collection is generally not performed as part of a Phase One ESA. For each APEC identified, the Qualified Person (QP_{ESA}) develops a Conceptual Site Model (CSM) that describes the understanding (including inferences) of the type(s) of contaminants released, the release location(s), the media contaminated, and the contaminant fate & transport mechanisms. The CSM forms the "mental picture" of the APECs from which the Phase Two ESA sampling program is developed to characterize the APECs.
4. The Phase Two ESA is conducted to characterize each APEC. The SAP is the planning document that is prepared before field investigations commence. The SAP directs how the field investigations are conducted. As field investigations proceed, the site understanding evolves and thus, the project objectives, the SAP, and the nature of the field investigations evolve in an iterative fashion. The CSM is updated at the conclusion of the Phase Two ESA to document the actual site conditions encountered.

O.Reg.153/04 specifies numerous technical requirements for the planning, implementation and documentation of Phase Two ESAs in Ontario where the proponent plans to obtain an RSC. Many of these regulatory requirements are highlighted throughout this SAP to remind the reader of the importance of their inclusion in the SAP.

O.Reg.153/04 also requires that the SAP and Phase Two ESA be documented in sufficient detail to allow a third party to review the adequacy of the methods used.



**SAMPLING AND ANALYSIS PLAN
PROPOSED HINTONBURG DEVELOPMENT, OTTAWA, ONTARIO**

Project Background
February 9, 2024

2.0 PROJECT BACKGROUND

2.1 PROJECT OVERVIEW

The Phase Two ESA was conducted to characterize soil and groundwater in APECs identified as part of a Phase One ESA completed by Stantec for the COCs associated with identified PCAs and was completed consistent with the requirements of O.Reg.153/04. Soil and groundwater quality were assessed in the context of the applicable MECP (MOE, 2011) SCS as referenced by O.Reg.153/04.

This SAP describes the planning and methodologies associated with work conducted at the Phase Two Property by Stantec.

2.1 PHYSICAL IMPEDIMENTS

The Regulation requires that the SAP include a description of any physical impediments that interfered with or limited the ability to conduct the sampling and analysis program.

There was no denial of access or other impediment during the Phase Two ESA. The overall objectives of the investigation and assessment of 17 APECs were reviewed and met.



SAMPLING AND ANALYSIS PLAN PROPOSED HINTONBURG DEVELOPMENT, OTTAWA, ONTARIO

Project Objectives and Data Quality Objectives
February 9, 2024

3.0 PROJECT OBJECTIVES AND DATA QUALITY OBJECTIVES

Project objectives are statements of the “bigger picture” questions to be answered or problems to be solved, usually expressed in terms of a statement that is readily understandable to the public (e.g., “Is the property contaminated?”).

Data Quality Objectives (DQOs) specify the quantity and quality of the environmental data that is required to support project decisions or conclusions (alternate wording is that DQOs specify the tolerable level of uncertainty in decision-making). In turn, DQOs are used to specify the required quality of the measurements by specifying tolerable limits for the following Data Quality Indicators (DQIs): precision, accuracy, representativeness, comparability, and completeness (the “PARCC” criteria).

DQOs are iterative in nature and evolve as site characterization proceeds. Initially DQOs usually focus on assessing for the presence/absence of contamination at each of the APECs identified in the Phase One ESA. If the presence of contamination is confirmed, the DQOs will evolve to delineation of the lateral and vertical extents of soil contamination, delineation of the limits and plume stability state of groundwater contamination, and confirmation of the effectiveness of remedial measures, if implemented.

The following sections present the project objectives and DQOs set for the Site.

3.1 PROJECT OBJECTIVES

The general objectives of the Phase Two ESA are to:

- Adequately assess each APEC identified in the Phase One ESA, or as discovered during the conduct of the Phase Two ESA, where contaminants may be present in land or water on, in or under the property;
- To implement a quality assurance (QA) program designed to reduce errors and bias in sampling and analysis through implementation of assessment and control measures intended to confirm data are useful, appropriate, and accurate in the determination of whether the soil, groundwater, and sediment quality at a property meet applicable site condition standards or the standards specified in a risk assessment; and
- Conduct the Phase Two ESA to meet the requirements of the Regulation.

The primary project objective is to obtain an RSC for the Site. The soil and groundwater conditions will be assessed to the MECP Table 7 Site Condition Standards (SCS) for residential/parkland/institutional land use in a non-potable groundwater setting with coarse textured soils (MOE, 2011a), which is considered the future land use at the Site. Soil vapour results were compared to soil vapour criteria considered representative of concentrations below which no health risk would be expected for indoor receptors/occupants of the commercial buildings due to vapour intrusion. The soil vapour criteria were



SAMPLING AND ANALYSIS PLAN

PROPOSED HINTONBURG DEVELOPMENT, OTTAWA, ONTARIO

Project Objectives and Data Quality Objectives
February 9, 2024

established by using a generic attenuation factor to adjust the MECP Health-Based Indoor Air Concentrations (HBIAC). The attenuation factor applied (0.004) is considered representative of vapour migration into a generic slab on grade commercial building. Future residential scenarios were not evaluated for the purpose of this report but will be considered within a planned regulated risk assessment process.

Specific project objectives that have been established to fulfill the primary project objective (i.e., file an RSC) are to:

- Characterize the concentrations of contaminants in the surface (<1.5 m below ground surface [m BGS])
- Characterize contaminant concentrations in groundwater beneath the Site.
- Delineate the lateral and vertical extent of contaminants on and beneath the Site using a non-standard delineation approach.
- Assess the stability of groundwater impacts identified at the Site.
- Determine if soil or groundwater impacts identified at the Site have the potential to extend off-site.

3.2 DATA QUALITY OBJECTIVES

For convenience, the DQOs have been organized by the primary PARCC criteria to which Stantec considers specific DQOs relate. Given there can be overlap between project objectives, DQOs, DQIs, and technical specifications, it is recognized that different practitioners may organize the DQOs differently. DQOs and DQIs can be thought of as “rules” that define what is considered acceptable work/results. The standard operating procedure (SOP) for QA/QC, presented herein, provides further description for how each of the PARCC criteria is assessed.

3.2.1 Precision

The following DQOs have been established for precision.

- The relative percent difference (RPD) between parent and field duplicate or laboratory replicate samples will be calculated. The following screening-level acceptance criteria (BV, 2020) will be applied using guidance from BV (BV, 2020):
 - Polycyclic aromatic hydrocarbons (PAHs); $RPD \leq 40\%$ for soil, $\leq 30\%$ for groundwater.
 - Petroleum hydrocarbons (PHCs); $RPD \leq 30\%$ for soil and groundwater.
 - Volatile organic compounds (VOCs); $RPD \leq 50\%$ for soil, $\leq 30\%$ for groundwater.
 - Metals and Inorganics; $RPD \leq 30\%$ for soil, $\leq 20\%$ for groundwater.



SAMPLING AND ANALYSIS PLAN

PROPOSED HINTONBURG DEVELOPMENT, OTTAWA, ONTARIO

Project Objectives and Data Quality Objectives
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- Electrical Conductivity; RPD $\leq$ 10% for soil and groundwater.
- Screening-level acceptance criteria for soil vapour of 50% were applied.
- Water level and interface probe measurements will be recorded to the nearest centimetre (typical level of precision for elevation survey).
- Field headspace measurements are typically one-time readings and cannot be repeated to assess precision.

Should a situation arise where attaining these RPDs or precision indicators is challenging, alternate analytical approaches will be assessed from the scientific literature, in consultation with the analytical laboratory.

3.2.2 Accuracy

The following DQOs have been established for accuracy.

- Laboratory analyses for target parameters will have laboratory reported detection limits that are less than the applicable site condition standards, preferably by at least five times. This is preferred for non-target parameters as well, but not required.
- Laboratory analyses will have surrogate recoveries (%R) that meet the acceptance criteria established by the laboratory.
- Field headspace screening instruments will be calibrated as follows:
 - PID: 0 (ambient air) to 100 parts per million by volume (ppmv) (isobutylene span gas)
 - Combustible vapor detector: 0 ppmv (ambient air) to 400 ppmv (hexane span gas)
- Water Level Meter and Interface Probe: no criterion established for these direct measurements, apart from not using damaged meters (e.g., no use of measuring tapes that may have been stretched, cut, torn, or cracked).
- The reference elevations for monitoring wells (i.e., top of pipe) will be surveyed using a geodetic, permanent, and recoverable benchmark. Accuracy within approximately 10% of the anticipated water level contouring interval is generally satisfactory, with the need for higher levels of accuracy potentially required for coarse sands and higher permeability aquifers (i.e., soils with low horizontal hydraulic gradients).

3.2.3 Representativeness

The following DQOs have been established for representativeness.



SAMPLING AND ANALYSIS PLAN

PROPOSED HINTONBURG DEVELOPMENT, OTTAWA, ONTARIO

Project Objectives and Data Quality Objectives
February 9, 2024

- Each area where a contaminant is confirmed present at concentrations greater than the applicable SCS will be assumed contaminated from that sampling location outward the entire distance to the nearest sampling location that meets the SCS, in both the lateral and vertical dimension.
- Analytical results will not be accepted if the sample was not analyzed within its holding time. The results may be accepted, and qualified as “estimated”, provided the results are deemed by the QP_{ESA} to be well above or well below the applicable SCS, and/or the COCs are considered unlikely to change significantly in concentration in the sample container outside the holding time (e.g., metals, PCBs, etc.).
- Soil samples will be “discrete” in that each sample will be formed from, and represent only, one distinct soil layer.
- Soil samples for volatile organics analysis will be grab samples to reduce the potential for loss of volatiles during sample collection. Reducing the potential for volatile losses comes with the disadvantage that the scale over which the measured concentration applies cannot be estimated.
- Soil samples for analysis of non-volatile parameters will generally be discrete samples.
- Soil sample collection will avoid, to the extent possible, collecting vegetation, insects, worms, and particles larger than small gravel, including natural rock, concrete, brick, glass, wood, asphalt, and other non-soil-like materials (e.g., paper, plastic, rubber, etc.).
- Samples for analysis of volatile COCs will be transferred directly into the sample container as soon as practically possible with as little agitation and exposure to the atmosphere as can be achieved during normal field practices.
- If installed, monitoring well screens installed across the water table will be positioned to maintain the water table within the screened portion throughout the year, typically requiring a 3.1 m screen, knowledge of the seasonal water level variation and water level conditions at the time of installation.
- If installed, monitoring well screens will be placed within the geologic formation in which the contaminant is interpreted to be potentially present.
- If installed, monitoring well screens will be positioned to isolate the zones where contaminants may be present (i.e., screens will not extend through less permeable zones, connecting two or more distinct higher permeability zones).
- Groundwater level measurement will reflect a static monitoring condition, such that no change in water levels is anticipated at any of the wells monitored from the time the monitoring event started until the time it is finished.
- The assessment of groundwater quality (including the potential for separate-phase liquids) and flow direction will consider the potential influences of temporal variation in groundwater levels, including short-term (rainfall events), mid-term (seasonal), and longer-term (multi-year) trends.



SAMPLING AND ANALYSIS PLAN

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Project Objectives and Data Quality Objectives
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- Appropriate sample containers will be provided by the laboratory containing the required preservative, if any, already in the sample bottle.
- Sample containers will be maintained within the acceptable storage temperature range and under chain of custody to reduce the potential for sample quality to diminish before analysis occurs.

3.2.4 Comparability

The following DQOs have been established for comparability.

- Only analytical results presented in signed, final and complete laboratory certificates of analysis from a laboratory accredited according to the requirements of O.Reg. 153/04 (i.e., by the Standards Council of Canada (SCC) or Canadian Association for Laboratory Accreditation (CALA)) will be relied upon by Stantec for comparison to applicable regulatory criteria.
- Stantec endeavors to use the same laboratory, field methods, and field technician to obtain results of higher consistency by reducing potential variations that may be introduced when different sample collection methods and laboratories are used.
- The Regulation requires grain-size analyses to be conducted if the fine-medium textured soil standards are to be used. Sufficient samples to represent soil textures at the property will be obtained. Stantec further requires the soils tested to represent the area of potential contamination, or in some cases, contaminant migration pathways.
- The groundwater standards apply to dissolved groundwater concentrations, and thus, groundwater sample results will not be accepted for the following:
 - Samples containing separate-phase liquids.
 - Samples with reported concentrations greater than solubility limits.
 - Sample results greater than the applicable SCS for metals but for which field-filtering of the sample could not be confirmed.
 - Sample results deemed by the QP_{ESA} to be anomalously high due to excessive sediment in the sample container.
- Lab filtered results for benzo(a)pyrene are acceptable under the Regulation. Analysis for all other polycyclic aromatic hydrocarbons (PAH) will be completed on unfiltered samples.
- Field measurements will not be compared to the applicable SCS for demonstrating the site conditions have been met, as precluded by the Regulation.

3.2.5 Completeness

The following DQOs have been established for completeness.



SAMPLING AND ANALYSIS PLAN

PROPOSED HINTONBURG DEVELOPMENT, OTTAWA, ONTARIO

Project Objectives and Data Quality Objectives
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- Laboratory analyses will be conducted for the COCs identified in each medium in each APEC during the pre-remediation assessment.
- COC concentrations will be determined for each APEC, with the intent to:
 - Confirm the potential contaminants present.
 - Measure the maximum concentration of the contaminants.
 - Confirm the media contaminated.
 - Delineate the lateral and vertical extents of contamination.
- Sampling will be conducted in areas confirmed contaminated until the highest concentrations are identified and located, to the extent possible, considering the presence of the buildings and the existing monitoring well network.
- The groundwater level will be measured each time a monitoring well is sampled.
- If separate-phase liquid is suspected of being present in a monitoring well, its presence will be confirmed with a clean single-use bailer and its thickness will be measured using an interface probe.
- Assessment of groundwater flow will include the horizontal and vertical hydraulic gradients where data are available, or have been previously collected and reported.
- All aquifers and aquitards relevant at the property for determining the location and concentration of contaminants will be identified and investigated.



SAMPLING AND ANALYSIS PLAN PROPOSED HINTONBURG DEVELOPMENT, OTTAWA, ONTARIO

Sampling Plan – Rationale and Design
February 9, 2024

4.0 SAMPLING PLAN – RATIONALE AND DESIGN

This section presents a summary of the rationale for selection of borehole, monitoring well and sample locations for the Phase Two ESA. In general, the borehole, monitoring well and sample locations were selected to assess data gaps identified during the review of previous investigations and provide additional soil and groundwater data for the Site. Deviations from the plan proposed herein, if any, and the rationale for such will be documented in the main text of the Phase Two ESA.

This sampling plan provides details of the sampling elements listed below.

- Sampling system (e.g., judgmental, random, grid sampling, etc.)
- Sampling type (e.g., grab or composite)
- Number of samples
- Sampling frequency
- Sampling depth intervals (including the screened intervals for monitoring wells and piezometers)
- Field-processing of samples
- Samples submitted for laboratory analysis

The proposed sampling locations and analyses are summarized in **Table 1, Appendix A**.



SAMPLING AND ANALYSIS PLAN PROPOSED HINTONBURG DEVELOPMENT, OTTAWA, ONTARIO

Standard Operating Procedures
February 9, 2024

5.0 STANDARD OPERATING PROCEDURES

This section describes the methods followed by Stantec field staff during field investigations. The methods are derived from industry consensus practices published by agencies including the MOE (1996; 2011b), ASTM (1993; 1998), MADEP (2016), and EPA (1996). SOPs are detailed, stepwise procedures for routinely performed activities, and are intended to improve: 1) data collection quality by following accepted industry standards of practice, and 2) data consistency by following these procedures during each sampling and measurement event.

Field technicians are to follow these SOPs, documenting any deviations and the rationale for the deviation in their field notes. Other than minor deviations, pre-authorization from the supervising QP_{ESA} (e.g., licensed Professional Engineer or Professional Geoscientist) is required, and this discussion documented in the field notes. The Regulation requires the QP_{ESA} to confirm there is a suitable rationale for deviations from the SOPs.

Note, not all field SOPs presented herein are applicable to all investigations.

5.1 UTILITY LOCATES

Stantec contacts Ontario One Call to arrange buried utility clearances before each field mobilization involving intrusive subsurface activities, such as drilling, test-pitting or remedial excavation. On private property, a utility locating company is also retained to provide clearance of private utilities for each planned intrusive investigation/ remediation location.

In general, intrusive investigation locations can usually be adjusted so as not to correspond to a buried utility location without affecting the project objectives. Where intrusive locations need to be within approximately 2 m of a buried utility, increased measures are required by the contractor to protect the buried utility and worker health and safety. These measures may include daylighting the utility using hand digging or a mobile hydrovac excavation system.

The utility locate sheets are present on-site during the intrusive investigation activities. The drilling or excavation contractor is provided with copies of the utility locate sheets for review purposes before the intrusive investigations commence.

5.2 OVERBURDEN DRILLING

Boreholes in overburden are drilled using a licensed well driller. Boreholes are typically advanced using one of the following conventional drilling techniques. No drilling fluids or lubricants are used. Where applicable, the asphalt or concrete surface is removed to expose soil before drilling commences.

The sampler is retrieved, and the process repeated to advance the borehole to the next interval.



SAMPLING AND ANALYSIS PLAN PROPOSED HINTONBURG DEVELOPMENT, OTTAWA, ONTARIO

Standard Operating Procedures
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Direct Push Sampling – Boreholes are advanced using direct push samplers. Soil cores are collected using a soil core continuous sampler that is advanced with the casing to collect a sample over the drilling interval. The sampler is retrieved, and the process repeated to advance the borehole to the next interval.

Soil sub-samples are collected from the sampler for headspace screening (where sufficient sample quantity is present) and for potential submission to the laboratory. Each sample for field headspace screening is placed into a new, 500 mL sealable freezer bag and stored out of direct sunlight. Bags are one-third to one-half filled with soil to leave sufficient headspace above the sample and then sealed. Soil samples for potential submission to the laboratory are placed directly into the appropriate sample containers supplied by the laboratory, labeled, and stored in a sample cooler containing ice.

5.3 SOIL SUB-SAMPLING

Soil sub-sampling consists of the selection of soil for potential laboratory analyses, the processing of this soil before it is placed into a sample container and documenting key information about each sample.

Sub-samples are collected as “discrete” in that each sample is collected from, and intended to represent only, one distinct soil layer or type at the sampling location. If inadequate sample is available in a soil core to fill sufficient sample containers to perform all planned laboratory analyses, then the analyses are prioritized and fewer analyses are performed. Soil from the adjacent, but different, soil layers is not used as a surrogate to represent the initial target soil layer.

Sub-samples are collected to represent “worst-case” for that particular sampling location and target chemical parameters, in consideration of field indications (e.g., headspace readings or visual-olfactory observations) and potential modes of contaminant release and migration. In some cases, professional judgment is required to select samples for analysis that are more consistent with the potential mode of contaminant release than just relying on analyzing the sample with the maximum field headspace reading. Because contamination extent is defined by the distance (laterally and vertically) to the nearest sample that meets the applicable SCS, samples to determine the “clean line” are still collected to represent “worst-case” (i.e., for that particular soil layer and location).

Grab samples of soil are collected for volatile parameters (VOCs and petroleum hydrocarbon fraction F1) to minimize the potential for loss of constituents during the sample collection process.

Composite samples of soil are preferred for all non-volatile parameters as a means to address the small-scale heterogeneity in soil concentration, as described in MOE (1996). Under the Regulation, composite samples are to consist of equal portions of material (aliquots) from multiple locations from the same soil layer and depth interval within a 2 m radius “sampling location”. The aliquots of material are placed in a stainless-steel bowl and mixed to homogenize the soil before placing a portion into sample containers. The intent of composite sampling is to provide a reproducible means to measure the average concentration of the soil at that sampling location, recognizing that once a technician is sampling worst-case conditions at a sampling location, it is not possible to differentiate in the field areas of higher or lower concentration. Composite sampling programs generally use between three and 10 aliquots per sample depending on the specific project objectives and effort required to obtain each aliquot.



SAMPLING AND ANALYSIS PLAN

PROPOSED HINTONBURG DEVELOPMENT, OTTAWA, ONTARIO

Standard Operating Procedures
February 9, 2024

Vertical compositing is conducted where collecting multiple aliquots of soil layers at depth is cost prohibitive. Where a soil core contains 0.3 m or more of like soil from the same soil layer, a vertical composite sample may be formed over a 0.3 m to 0.6 m interval by taking either discrete segments or a slice along the core length and mixing the sample in a stainless-steel bowl. Filling the sample container using material along a core length is not a composite sample because laboratories do not homogenize soil container contents before extracting the soil that is ultimately analyzed.

Particle sizes larger than small gravel need not be included in sample containers because standard laboratory methods disaggregate soil and sieve, but do not crush/grind. Thus, coarse sand and larger particle sizes are not included in laboratory analysis. In practice, the field technician can remove gravel-size particles from sample containers and soil mixing bowls.

Documentation of soil sub-sampling includes the following:

- Measurements and photographs of the lateral sampling location (taken parallel and perpendicular to fixed, permanent reference points such that returning to that location is possible in the future).
- Description of the soil coring interval (or equivalent, if applicable).
- Measurements of the depth interval for the soil layer being sampled.
- Measurement of the soil sub-sampling interval over which the grab sample or composite sample was obtained.
- Sample recovery for the soil core (if applicable).

5.4 GEOLOGIC LOGGING

Soil cores are classified following the procedures described in the ASTM guidance for the visual-manual description and identification of soils (ASTM, 1993). For each soil core, the field technician logs the relevant descriptions of soil type, texture, color, structure, consistency, plasticity, and moisture content. Weathering features and secondary mineralization are logged, as are observations of the presence of man-made materials, such as brick, concrete, glass, ash, cinder, slag, asphalt, etc. Field technicians do not intentionally smell the cores; however, obvious odors of septic, solvents, petroleum hydrocarbons, burnt rubber, etc., are noted with a descriptor of weak, moderate, or strong.

Soils from test pits and surficial samplers (e.g., trowel, shovel, hand corer) are logged in a manner similar to soil obtained from soil cores.

A borehole log is prepared for each location containing the detailed geologic descriptions described above. This form of field log includes a scaled, graphical presentation of information. Where a monitoring well and piezometer, is installed in the completed borehole, the construction and installation details are added to the borehole log. The field log format also presents the locations where samples were collected for potential laboratory analysis and field headspace readings.



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Where recovery in a core is less than 100%, Stantec uses the convention that the material obtained represents the upper portion of the interval sampled, unless evidence indicates otherwise, not counting the uppermost few centimetres of soft sediments that settle in the bottom of the borehole (“slough”) that the sampler may be driven through before encountering the undisturbed native materials. In graphically presenting an interval, the last encountered geologic unit is assumed to extend from the bottom of sample recovery, through the zone of no recovery to the top of the next sample interval.

5.5 SOIL HEADSPACE SCREENING

Soil headspace screening is conducted on soil samples to monitor for the presence of total organic vapours (TOV) using one or both of a photoionization detector (PID) and a combustible gas detector. A PID is generally used where VOCs, including chlorinated solvents and lighter-end PHCs (gasoline) are of primary concern. A combustible gas detector is generally used where PHCs, especially diesel-range and explosive levels are of primary concern. Both meters are used where both chlorinated solvents and diesel-range or explosive levels of PHCs are of concern.

The PID is typically equipped with a 10.6 eV lamp, which is capable of measuring many of the most common chlorinated solvents of interest to environmental investigations. Of note, an 11.7 eV lamp is required to detect 1,1,1-TCA. The PID displays the TOV in parts per million by volume (ppmv). The PID is calibrated to ambient air and 100 ppmv isobutylene span gas following the manufacturer’s instructions. A Tedlar bag is filled with the span gas to calibrate the PID at atmospheric pressure. The PID calibration is checked as the unit is used throughout the day and re-calibrated if the PID readings appear contradictory to other field indicators (e.g., odours and staining).

The combustible gas detector (e.g., RKI Eagle O₂, CO, H₂S and LEL gas monitor) is calibrated to ambient air and 400 ppmv hexane in a manner similar to that followed for the PID. The combustible gas detector displays the combustible soil vapour (CSV) concentration reading in ppmv for low concentrations and %LEL for higher concentrations. The meter is re-calibrated if it does not measure the ambient air or hexane gas concentrations accurately to within 3 ppmv. The readings for this meter tend to be more stable than a PID, and thus, typically requires fewer calibration checks and re-calibration of the unit.

Headspace measurements are performed after allowing the samples to warm to approximately room temperature, normally within 15 to 30 minutes after sample collection. The bags are gently kneaded and shaken to enhance gas equilibration between the soil and the headspace. The PID probe is then inserted into the soil bag, taking care not to contact any solids or liquids or the side of the bag. The highest reading is recorded. The bag is then re-sealed, permitted to stand for another 15 to 30 minutes, and a measurement taken using the combustible gas detector.

An alternative approach uses one sample bag for the PID reading and one for the combustible gas detector reading provided there is sufficient sample available. More recently, dual instrument devices including both a PID and combustible gas detector have become available allowing measurement of the TOV and CSV concurrently within the same sample bag.



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5.6 MONITORING WELL INSTALLATION

One monitoring well is installed in each select borehole after borehole advancement is completed to the desired depth. Each well is constructed of 51 mm ID, Schedule 40, polyvinyl chloride (PVC) materials with a 0.25-mm slot (“10-slot”), PVC well screen. The well materials are not removed from the protective plastic wrapping until required. The PVC screen and piping are flush-threaded and contain O-rings to provide watertight joints. Well screens are 3 m in length and are generally positioned to intercept the water table. By installing monitoring wells with the water table at mid-screen at the time of installation, the water table can fluctuate approximately 1 m seasonally up or down with the well still being considered a water table well (containing sufficient water column to permit sampling).

To install a well, the well screen and riser are assembled, a threaded end plug installed, and the well materials lowered into the borehole. As the augers are removed (if used), silica sand is placed around the well screen and extended to a minimum of 0.6 m above the well screen. A bentonite seal is then placed to a minimum thickness of 0.6 m above the silica sand to hydraulically isolate the well screen. Municipal tap water is added to hydrate the bentonite if it is placed above the water table but is not required for wells installed below the water table.

The well is completed at ground surface with either a flush-mount or an above-grade protective cover set in a concrete pad. Wells are capped with either a locking J-plug or a PVC slip-cap. A lock is installed on wells equipped with a j-plug (typically those with flush-mount covers) and on the lid of the above-grade cover. The well drilling contractor applies a well tag and files a well record with MECP as required by O.Reg.903.

Monitoring wells are not developed, purged, or sampled for a minimum of 24 hours after installation to permit the well seal to hydrate and the concrete pad to cure.

The well construction details are presented on the borehole logs prepared for each borehole and monitoring well installation. Monitoring wells will not be installed as part of the current investigation as previously-existing monitoring wells will be monitored and sampled.

5.7 MONITORING WELL DEVELOPMENT, PURGING AND SAMPLING

The monitoring wells are developed and purged before first sampling. Wells are developed to remove fine-grained material from the well screen and filter-pack. Wells are purged to remove stagnant water from the well casing. The development and purging activities are performed using an inertial pumping system (consisting of dedicated polyethylene tubing and foot valve), an automated pumping system (e.g., using peristaltic or down hole pump and polyethylene tubing dedicated to each well), or a “clean” single-use bailer.

To develop and purge the well concurrently, approximately ten casing volumes of water are removed. The depth to water in the well and observations of the physical appearance of the purge water are noted



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(odour, colour, clarity, sediment load) after the removal of each casing volume of water, including the observed presence of any film, sheen or separate-phase product.

Measurement of water quality parameters is also performed as described in the next section. Wells are developed before the first time they are sampled, and thereafter only require purging of approximately three to six casing volumes. Six casing volumes are usually purged from smaller diameter wells or from wells having short water columns because of the small corresponding casing volume. If water is used to control heaving conditions during drilling, a corresponding volume of water is removed during well development in addition to the six to ten casing volumes.

During well development, purging, and sampling, care is taken to control the degree of drawdown in the well and to limit induced water turbidity during successive activities:

- The target flow rate during sampling is up to 1 litre per minute (LPM), with target flow rates for purging and development set at two and four times the well sampling rate, respectively (i.e., 2 and 4 LPM). In concept, well sampling should not re-suspend excessive fine materials in the well at 1 LPM if such did not occur during purging and development at the higher flow rates.
- During development and purging, the pump intake starts at the bottom of the well and is moved progressively up the water column to approximately the mid-point of the saturated well screen length. Continual pumping of the well bottom tends to induce water turbidity.
- Pumping rates are generally adjusted during development, purging and sampling to maintain the saturated well-screen configuration:
 - Where the starting water level is above the top of the well screen, it is not lowered into the well screen during pumping;
 - Where the starting water is below but near the top of the well screen, the water level is not lowered below the middle of the well screen during pumping;
 - Where the starting water is near or below the middle of the well screen, the water level is not lowered by more than 25% of the height of the water column in the well during pumping; and
 - If the well is deemed low-yielding (requiring more than one hour to purge three casing volumes following the above method), return visits to the well are made to remove at least three casing volumes of water, with the need for further well purging assessed on a case-by-case basis, usually depending on the degree of suspended sediment in the water samples, target analytical parameters, and existing water quality results, etc. Full well development is not expected for low-yielding wells because the ability to remove fine-grained material is limited by the inability of the well to produce water.
- The depth to water, observations of water turbidity, pump intake depth, and pumping rate are documented and used to adjust the water removal activities, as well as providing an indication of the sustainable well yield and hydraulic conductivity of the screened interval.



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Well purging is considered complete upon successive measurement of water quality parameters that have stabilized to within 10%, provided a minimum of three casing volumes have been purged. The rationale for concluding well purging for low-yielding wells is established and documented on a case-by-case basis and is usually set by logistical and/or time constraints.

Groundwater samples are collected directly into the appropriate sample containers. The sample containers are supplied by the laboratory and are pre-preserved, if and as appropriate, for the planned laboratory analyses.

Sample containers are filled, labeled, and then stored in a sample cooler containing ice as quickly as practical to minimize the time that samples are subject to potential damage and ambient conditions, like sunlight and hot temperatures.

Samples for metals analysis are first field-filtered using a new, single-use, 0.45 micron, in-line filter. At least two filter volumes are purged through the filter before starting to fill the sample container. As exceptions, analyses for mercury and methyl mercury are collected in separate sample containers and are not field-filtered.

Samples for PAH analysis are not field filtered. If necessary, a separate sample is collected for laboratory filtration prior to analysis for benzo(a)pyrene.

The field notes document the well development, purging and sampling times (start/stop time for each activity), the initial depth of the water level relative to the well-screen (i.e., well development and purging approach), observations of cumulative water removed, as well the field measurements of water quality parameters (discussed below) and any sampling information (sample identifier, bottles filled, and any corresponding field duplicate samples). The rationale for concluding the development and purging activities, and the equipment used is also documented.

5.8 ORDER OF SAMPLE COLLECTION

Groundwater samples are typically collected in order from sample locations where contaminant concentrations are lowest to locations where contaminant concentrations are highest to reduce the potential for cross-contamination of samples.

Where a groundwater sampling location is planned for multiple laboratory analyses, some practitioners use a hierarchy to specify the order in which sample containers are filled. Stantec does not follow a prescribed order. Instead, where sample volume is limited, sample containers are filled first for the primary contaminants of interest, then for secondary contaminants of interest, field headspace screening, quality control (QC) samples and lastly for physical analysis (e.g., grain size distribution curves). If analyses are planned for volatile parameters, these sample containers are filled first so that there is sufficient sample volume to fill the sample containers without leaving headspace, and so that the potential for volatile losses during sampling is reduced.



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5.9 FIELD MEASUREMENT OF WATER QUALITY PARAMETERS

Field measurement of the water quality parameters is conducted after each casing volume of water is removed. The temperature, pH, and specific conductivity of the water are measured using an appropriate field instrument(s) and a flow-through cell (if sufficient flow is available). Alternatively, water is pumped into a beaker, the beaker rinsed and then half-filled with purge water from which the measurements are taken directly. Measurements are made as soon as the readings stabilize to reduce the exposure time of the purged water to atmospheric conditions. Care is taken during reading the specific conductivity measurement to note the units of measurement because many meters auto-scale, and thus, the units of measurement can automatically change between or during readings.

The meter is calibrated, used, and stored following the manufacturer's instructions. At the start of each field day, the meter calibration is checked in the calibration solutions, and the calibration adjusted if required. The pH probe is typically calibrated to two points using pH 4 and pH 10 calibration solutions. The specific conductivity probe is typically calibrated in a solution having specific conductance of 1413 $\mu\text{S/m}$. The temperature probe does not require field calibration.

5.10 SAMPLE LOCATION AND IDENTIFICATION

All investigation locations are assigned a unique identification code for that location. In addition, each sample collected is assigned a unique identification code. Identification codes are selected to be unique such that they cannot be inadvertently repeated.

Numerous systems have been developed for selecting identification codes. The specific system used is a project-specific decision. Sometimes it is preferable to use the system previously used at a project site for continuity. It is also sometimes easier to maintain continuity of the units of measurement (metric or imperial). Imperial units are often used where drilling is involved because drilling equipment and well supplies are sized in imperial units. Spaces and apostrophes are not used in sample identification codes.

Blind identification systems or sequential numbering systems are rarely used where field decisions are required in real-time. Instead, informative identification systems are used because the sample identifier contains key information about each sample collected.

QC Samples

Field duplicate and field blank samples are submitted "blind" to the laboratory. A fictitious sample identifier is used so that the laboratory cannot identify the sample as a QC sample.

5.11 SAMPLE CONTAINERS, LABELING, HANDLING AND CUSTODY

The analytical laboratory provides sample containers and preservative. Paracel Labs of Ottawa, Ontario is the laboratory for soil and groundwater analyses for this project. Bureau Veritas (BV) is the laboratory for soil vapour analysis for this project. Paracel and BV are CALA-accredited laboratories. The table in **Appendix B** of this SAP was provided by BV, the laboratory selected for this project. The table presents,



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for each medium analyzed, the matrix of analytical parameters, sample container description (bottle type and number of bottles to fill), holding time, and preservation requirements (chemical and physical). Paracel and BV provided all sample containers.

Samples for laboratory analyses are packed carefully into sample coolers to prevent damage to the sample containers. Samples are maintained at a temperature between 4 and 10°C by including ice in sample coolers during on-site storage and transport to the laboratory. A chain of custody form is completed and included in each sample cooler. A custody seal is affixed to each cooler once packed and sealed. Samples are hand-delivered to the analytical laboratory, shipped by overnight courier, or picked up by the laboratory's courier service. The field technician maintains custody of the samples until custody is transferred to either laboratory reception or the delivery service.

5.12 LIQUID LEVEL MEASUREMENTS

Water levels are measured to the nearest 0.01 m using a battery-operated, water level or interface-probe. Measurements are obtained by lowering the electrode, attached to the graduated polyethylene tape, slowly into the well until a tone sounds. If light phase-separated liquid is detected, as indicated by an intermittent tone, the depth is read from the tape and recorded. If there is no phase-separated liquid present (or it has already been detected by an intermittent tone) the electrode continues to be lowered into the well until a solid tone sounds indicating water. The depth-to-water from the reference point on the well is then read from the tape and recorded. Duplicate measurements are performed at each location to attain 0.01 m repeatability. The highest point of the well casing is used as the reference point. If the presence of dense phase-separated liquid is suspected, the probe continues to be lowered to the bottom of the well, with an intermittent tone indicating the depth at which the probe transitions from water to dense phase-separated liquid.

In general, an interface probe is not used unless phase-separated liquids are suspected to be present from initial borehole drilling and groundwater sampling results.

When monitoring multiple wells at a site, monitoring proceeds from least contaminated to most contaminated areas to reduce the potential for cross-contamination from the water level or interface probe.

5.13 ANALYTICAL TESTING

As noted previously, the analytical laboratory provides sample containers and preservative. Paracel Labs of Ottawa, Ontario is the laboratory for soil and groundwater analyses for this project. BV is the laboratory for soil vapour analysis for this project. Paracel and BV are CALA accredited laboratories.

5.14 EQUIPMENT CLEANING

All non-dedicated sampling and monitoring equipment is cleaned before initial use and following each use.



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Drilling and field equipment is cleaned following common equipment cleaning procedures (MOE, 1996; ASTM, 1994). The samplers are cleaned by manually scrubbing using a brush and a phosphate-free soap solution and rinsing with distilled or tap water. Equipment that may be damaged by immersion in water is wiped clean using a sponge, rinsed in phosphate-free soap solution, and then rinsed with tap water. The probe of the interface probe or water-level meter is cleaned by rinsing in a phosphate-free soap solution followed by distilled or tap water. In addition, a new pair of nitrile gloves was used to remove the soil samples from the split spoon sampler when environmental samples were being collected.

A solvent rinse using reagent-grade, laboratory-supplied methanol is used (ASTM, 1994) when investigating areas of higher suspected VOC concentrations.

5.15 LOCATION AND ELEVATION SURVEYS

Measurements are recorded and photographs taken to document each sampling location laterally. Measurements and photographs are taken parallel and perpendicular to fixed, permanent reference points to allow returning to that sampling location in the future, if required.

The Stantec technician will survey the elevation of monitoring wells. The technician will also measure the lateral locations of boreholes, and wells, if appropriate, at large properties or at properties lacking permanent nearby reference points.

5.16 RESIDUE MANAGEMENT

Soil cuttings, purge fluids, and cleaning fluids are typically placed into drums. Classification and disposal of drummed wastes are the client's responsibility. To facilitate the process, Stantec collects representative samples for waste classification purposes under R.R.O. 1990, Regulation 347: General – Waste Management (O.Reg.347).

Drums are labeled and the contents added to each drum documented for tracking purposes. Drums are stored at a location designated by the property owner pending analysis and off-site disposal.

5.17 QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC)

QA/QC procedures are implemented in the field and laboratory to demonstrate that the data generated are of a level of quality suitable for their intended purposes. Field QA/QC procedures include use of new sampling equipment, equipment cleaning procedures, blind duplicate and blind field blank sample submittal, and adherence to published standards for field methodology. Laboratory QA/QC procedures include following internal protocols and analysis of laboratory blank samples and laboratory reference standards.

The electronic data received from the laboratory are imported into Stantec's data management system. The data are output into report ready spreadsheets. After checking the spreadsheet, the compiled data are reviewed to confirm that the data are of satisfactory quality. Sample chain-of-custody, holding times,



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dilution factors, surrogate recoveries, replicate analyses, analytical quantitation limits, and blank analyses are reviewed and compared to applicable QC acceptance criteria.

A data review process, often referred to as “data validation”, is conducted to assess whether the DQOs were satisfied. Stantec establishes data validation criteria that require the analytical data to have an acceptable level of precision, accuracy, representativeness, comparability, and completeness (“PARCC” criteria). The data validation process is described below.

5.17.1 Precision

The analytical results of the investigation samples and their associated field duplicates (or laboratory replicates) are presented in the data tables. Data precision is evaluated by calculating the RPD between the investigation sample results and their duplicate or replicate results. The RPD is calculated as follows:

$$RPD = 2 \times \frac{(|C_1 - C_2|)}{(C_1 + C_2)} \times 100$$

where: C_1 = parent sample concentration

C_2 = duplicate sample concentration

RPDs are calculated where both C_1 and C_2 are above the analytical reporting limit (RL). Stantec set a screening-level RPD acceptance criterion as presented in Section 3.2 using guidance from BV (Maxxam, 2016). Where the reported concentrations are less than 5 times the RL, lower precision is expected, and the screening-level criterion does not apply. Reported concentrations greater than 5 times the RL and having an RPD greater than the screening-level criteria are considered to have failed the initial precision assessment; however, both sample results are accepted as suitably precise if both are considered many times above or below the applicable regulatory criterion or guideline value. A sample concentration and its duplicate result are concluded to have lowered precision if the reported concentrations are near the applicable regulatory criterion or guideline value being used or concentrations are less than 5 times the RL and RPD greater than the screening-level criterion, such that the interpretation might change depending on the reported concentration used. In this case, the data are considered an estimated value and corrective actions taken, such as further sample collection and analysis.

5.17.2 Accuracy

The accuracy of the analytical results is assessed by confirming that the reported laboratory surrogate recoveries and spike samples are within the acceptance criteria established by the laboratory as reported on the laboratory certificates of analysis. The surrogate recoveries and spike samples consist of known concentrations of chemicals that the laboratory adds to the investigation samples.

The laboratory measures the amount detected, and then calculates the Percent Recovery (%R) to confirm the reported value is within reasonable agreement with the known value. The typical acceptance criterion requires %R to be within 70% and 130% (i.e., accuracy of approximately $\pm 30\%$).



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5.17.3 Representativeness

The representativeness of the analytical results is assessed by reviewing several factors of a qualitative nature, including the following:

- Field procedures and laboratory methods followed industry consensus practices (including sample collection methods; laboratory analytical methods; sample containers, preservative(s), holding times; and chain-of-custody documentation).
- Sampling design was appropriate to characterize the depth intervals of interest in the areas of potential environmental concern.
- Sample results were consistent with visual/olfactory observations, previous investigation results at nearby locations and/or the conceptual site model for the potential release of chemicals to the environment.
- The number of samples analyzed and parameters for which analyses were performed were considered by the Qualified Person to be sufficient for the purpose of the Phase Two ESA.
- Corrective actions were taken, as deemed appropriate, to resolve data anomalies or other quality issues that arose during the site investigation, including qualifying any data (as estimated or unreliable), sample re-analysis, or conducting additional sample collection, analysis and interpretation.

5.17.4 Comparability

Data comparability is assessed qualitatively by confirming that the sampling locations, sampling depths, field methods and laboratory methods were the same, or as close as practical to the methods used in previous investigations.

5.17.5 Completeness

Data completeness is assessed qualitatively by confirming that the analytical results were obtained for all the samples submitted and all the analytical parameters requested, including the supporting laboratory documentation and chain-of-custody documentation. Consideration is given to the significance of any data that were rejected based on poor data quality. The frequency of inclusion of QC samples is also considered.

5.17.6 Other Assessment

Other data collection activities, such as water level monitoring and field headspace screening, undergo QC checks confirm they meet the DQOs. Deviations that occur during the field investigations, if any, are documented in the main text of the Phase Two ESA report.



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5.17.7 Frequency of QC Sample Analysis and Calibration Checks

QC sample requirements for the number, type, and frequency of QC sample collection and laboratory analysis are summarized below. Slight departures may occur on a case-by-case basis depending on project-specific situations (e.g., insufficient sample volume) and their potential significance will be addressed as they occur.

Minimum QC Sample Analysis Frequency

Medium	Soil	Groundwater
Trip Blank	Trip blanks are generally not submitted for soil.	One per sample shipment for VOC analysis.
Field Blank	Field blanks are generally not submitted for soil.	One per sample shipment for VOC analysis.
Field Duplicate	One for every 10 investigation samples submitted for analysis.	One for every 10 investigation samples submitted for analysis.

Calibration checks on field instruments are performed at the following frequencies.

- The water quality meter (pH, specific conductance, temperature) is calibrated once per day, generally at the start or end of each field day, and typically consists of a calibration check followed by minor calibration adjustments, if required.
- PIDs require a calibration check after approximately every 10 samples for field headspace screening, after every hour of continuous use for a soil vapour survey, and after very high sample readings, significant weather changes (from cool to hot, dry to humid, clear to overcast) or erratic behavior.
- The combustible gas detector is a more stable instrument than the PID and typically only requires calibration once per field event, with a calibration check generally at the start or end of each field day.



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APPENDICES

SAMPLING AND ANALYSIS PLAN

Appendix A Table 1
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APPENDIX A TABLE 1

Table 1: Phase Two ESA Sampling and Analysis Plan

Borehole/ Monitoring Identification	Location	Investigation Rationale	Soil Analysis	Groundwater Analysis
BH23-1	South portion of Phase Two Property	Assess soil conditions based on APECs 1a, 1b, 1c, 1d, 1e, 3a, 5a, 6a, 6b and 8.	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide	None
BH23-2	South portion of Phase Two Property	Assess soil conditions based on APECs 1a, 1b, 1c, 1d, 1e, 3a, 5a, 6a, 6b, and 8	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide	None
BH23-3	Central portion of Phase Two Property	Assess soil conditions based on APECs 5b, 6a, 6b, and 8.	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide	None
BH23-4	Central portion of Phase Two Property	Assess soil conditions based on APECs 3a, 6a, 6b, and 8.	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide	None
BH23-5	Northwest portion of Phase Two Property	Assess soil conditions based on APECs 2, 3b, 3c, 4a and 6a, 6b, and 8.	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide	None
BH23-6	Northwest portion of Phase Two Property	Assess soil conditions based on APECs 2, 3b, 3c, 4a, 4b and 6a, 6b, and 8.	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide	None



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Borehole/ Monitoring Identification	Location	Investigation Rationale	Soil Analysis	Groundwater Analysis
BH23-7	North-central portion of Phase Two Property	Assess soil conditions based on APECs 2, 4a, 6a, 6b, and 8.	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide	None
BH23-8	Central portion of Phase Two Property	Assess soil conditions based on APEC 4a, 6a 6b, 7, 8.	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide	None
E-3	East-central portion of Phase Two Property	Assess groundwater conditions based on APECs 6a, 6b, and 8.	None	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide
MW00-4	Northwest portion of Phase Two Property	Assess groundwater conditions based on APECs 2, 4a, 4b, 6a, 6b and 8.	None	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, , EC, SAR, Cyanide
MW00-6	Northwest portion of Phase Two Property	Assess groundwater conditions based on APECs2, 4a, 4b, 6a, 6b and 8.	None	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide
MW01-10	South-central portion of Phase Two Property	Assess groundwater conditions based on APECs 1a, 1b, 1c, 1d, 1e, 5a, 5b, 6a, 6b and 8.	None	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide
MW05-4	Northwest portion of Phase Two Property	Assess groundwater conditions based on APECs 2, 4a, 4b, 6a, 6b and 8.	None	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide
MW05-4A	Northwest portion of Phase Two Property	Assess groundwater conditions based on APECs 2, 4a, 4b, 6a, 6b and 8.	None	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide



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February 9, 2024

Borehole/ Monitoring Identification	Location	Investigation Rationale	Soil Analysis	Groundwater Analysis
MW08-31A	West-central portion of Phase Two Property	Assess groundwater conditions based on APECs 3a, 3b, 3c, 6a, 6b and 8.	None	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide
MW08-32A	West-central portion of Phase Two Property	Assess groundwater conditions based on APECs 3a, 6a, 6b and 8.	None	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide
MW08-33A	West-central portion of Phase Two Property	Assess groundwater conditions based on APECs 3a, 6a, 6b and 8.	None	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide
MW08-34	West-central portion of Phase Two Property	Assess groundwater conditions based on APECs 3a, 6a, 6b and 8.	None	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide
MW14-1A	South-central portion of Phase Two Property	Assess groundwater conditions based on APECs 6a, 6b, and 8.	None	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide
MW14-1B	South-central portion of Phase Two Property	Assess groundwater conditions based on APECs 6a, 6b, and 8.	None	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide
MW14-2	South-central portion of Phase Two Property	Assess groundwater conditions based on APECs 1b, 1c, 1d, 1e, 2, 5b 6a, 6b, and 8.	None	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide
MW16-01	South-central portion of Phase Two Property	Assess groundwater conditions based on APECs 1b, 1c, 1d, 1e, 5b 6a, 6b, and 8.	None	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide



SAMPLING AND ANALYSIS PLAN

Appendix A Table 1
February 9, 2024

Borehole/ Monitoring Identification	Location	Investigation Rationale	Soil Analysis	Groundwater Analysis
MW19-12A	South-central portion of Phase Two Property	Assess groundwater conditions based on APECs 1a, 1b, 1c, 1d, 1e, 5a, 6a, 6b and 8.	None	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide
MW19-12B	South-central portion of Phase Two Property	Assess groundwater conditions based on APECs 1a, 1b, 1c, 1d, 1e, 5a, 6a, 6b and 8.	None	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide
MW19-13A	Central portion of Phase Two Property	Assess groundwater conditions based on APEC 5b, 6a, 6b, and 8.	None	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide
MW19-13B	Central portion of Phase Two Property	Assess groundwater conditions based on APEC 5b, 6a, 6b, and 8.	None	PHCs, VOCs, PAHs, Metals, Hydride Forming Metals, EC, SAR, Cyanide

N/A – Not Applicable

Metals includes: Barium, Beryllium, Boron, Cadmium, Cobalt, Copper, Lead, Molybdenum, Nickel, Silver, Thallium, Uranium, Vanadium, Zinc, and hydride forming metals: Antimony, Arsenic, Selenium and other regulated parameters including Cyanide



SAMPLING AND ANALYSIS PLAN

Appendix B Sampling Requirements
February 9, 2024

APPENDIX B SAMPLING REQUIREMENTS



Sample Container, Preservation, and Hold Time Information*Hold Times and Container Types Do Not Apply to Drinking Water Samples*

WATER	Inorganic Parameters	Recommended Sample Container	Preservation	Hold Time*
	Alkalinity	500 mL plastic	None	14 days
	Anions (Br, Cl, F, NO ₃ , NO ₂ , PO ₄ , SO ₄)	500 mL plastic	None	3/28 Days
	Biochemical Oxygen Demand (BOD)	120 mL plastic	None	4 days
	Carbon, Total Organic (TOC)	250 mL plastic	H ₂ SO ₄ (pH < 2)	10 days
	Carbon, Dissolved Organic (DOC)	120 mL plastic	None	3 days
	Chemical Oxygen Demand (COD)	250 mL plastic	H ₂ SO ₄ (pH < 2)	30 days
	Chlorine, Residual (Cl)	40 mL glass vial w/septum cap**	None	Immediate
	Chromium VI - FIELD FILTER GW (Reg. 153)	125 mL plastic	(NH ₄) ₂ SO ₄ /NH ₄ OH/NaOH	28 days
	Conductivity	500 mL plastic	None	28 days
	Cyanide (CN)	125 mL plastic	NaOH (pH > 12)	14 days
	Dissolved ICPMS, ICP Metals - FIELD FILTER GW	120 mL plastic	HNO ₃ (pH < 2)	60 days
	Total ICPMS, ICP Metals - NOT FILTERED	120 mL plastic	HNO ₃ (pH < 2)	30 days
	Mercury - FIELD FILTER GW (Reg. 153) / SW (PWQO)	100 mL clear glass	HCl (pH < 2)	28 days
	Methyl Mercury (Subcontracted)	250 mL plastic jars (Teflon Lined)	HCl (pH < 2)	28 days
	Nitrogen - Ammonia (NH ₃ N) / Total Kjeldahl Nitrogen (TKN)	250 mL plastic	H ₂ SO ₄ (pH < 2)	10 days
	Phenolics - Total	120 mL amber glass	H ₂ SO ₄ (pH < 2)	30 days
	Solids - (TS, TSS, TDS)	500 mL plastic	None	7 days
	Sulphide (S ²⁻)	125 mL plastic	NaOH / ZnOAc (pH > 9)	7 days
	Total Phosphorus	250 mL plastic	H ₂ SO ₄ (pH < 2)	30 days
	Microbiological - Sewer	300 mL plastic - Sterilized	Na ₂ S ₂ O ₃	24 hours
	Microbiological - All Other	300 mL plastic - Sterilized	Na ₂ S ₂ O ₃	48 hours
	Organic Parameters	Recommended Sample Container	Preservation	Hold Time*
	ABNs (Acid & Base Neutral Extractables) or SVOCs (Semi-Volatiles)	2 x 1L amber glass	None	14 days
	Fatty and Resin Acids	2 x 1L amber glass	None	7 days
	Herbicides	2 x 1L amber glass	None	14 days
	Dioxins and Furans	2 x 1L amber glass	None	30 days/Indefinite
	Chlorophenols	2 x 1L amber glass	None	14 days
	PAHs	2 x 250 mL amber glass	NaHSO ₄ (pH < 2)	14 days
	Pesticides / PCBs / Ocs	2 x 500 mL amber glass	None	14 days
	Oil & Grease / Heavy Oils	1 x 1L amber glass	HCl (pH < 2)	30 days
	F4 Gravimetric	1 x 250 mL amber glass	NaHSO ₄ (pH < 2)	40 days
	CCME PHCs F2-F4 / Extractable Hydrocarbons	2 x 250 mL amber glass	NaHSO ₄ (pH < 2)	40 days
	CCME PHCs F1 / BTEX	2 x 40 mL clear glass septum vial**	NaHSO ₄ (pH < 2)	14 days
	THMs / VOC's	3 x 40 mL clear glass septum vial**	NaHSO ₄ (pH < 2)	14 days
	1,4 Dioxane - processed as a VOC	3 x 40 mL clear glass septum vial**	NaHSO ₄ (pH < 2)	14 days
	1,4 Dioxane - processed as an ABN	2 x 1L amber glass	None	14 days

SOIL	Inorganic Parameters	Recommended Sample Container	Preservation	Hold Time*
	Anions (Br, F, NO ₃ , NO ₂ , PO ₄ , SO ₄)	250 mL glass jar	None	None Specified
	Anions (Chloride)	250 mL glass jar	None	30 days
	Carbon, Total or Fraction of Organic (TOC/FOC)	250 mL glass jar, teflon lined lid	None	28 days
	Conductivity	250 mL glass jar	None	30 days
	Cyanide, Free	250 mL glass jar, teflon lined lid***	None	14 days
	Chromium VI	250 mL glass jar	None	30 days
	Metals (incl. Hydrides, SAR, HWS Boron, Ca, Mg, Na)	250 mL glass jar	None	180 days
	Mercury	250 mL glass jar	None	28 days
	Methyl Mercury (Subcontracted)	250 mL glass jar	None	28 days
	Nitrogen - Ammonia (NH ₃ N) / Total Kjeldahl Nitrogen (TKN)	250 mL glass jar	None	None Specified
	pH	250 mL glass jar	None	30 days
	Phenolics - Total	250 mL glass jar	None	None Specified
	Regulation 558 - TCLP - Inorganics & Organics	250 mL glass jar	None	14-180 days
	Regulation 558 - TCLP (Zero Headspace Extraction) - Volatiles	120 mL glass jar, teflon lined lid	None	14 days
	Organic Parameters	Recommended Sample Container	Preservation	Hold Time*
	BTEX, PHCs (F1), THMs, VOCs for Reg 153 - RSC work	40mL glass vial (plus 60mL jar for moisture)	10 mL methanol	14 days
	BTEX, PHCs (F1), THMs, VOCs for Reg 153 - RSC work	Hermetic Sampler (plus 60mL jar for moisture)	Stabilize with Methanol within 48 hrs of sampling	
	PHCs (F2-F4) and Moisture	120 mL glass jar, teflon lined lid	None	14 days
	Herbicides, OP Pesticides	120 mL glass jar, teflon lined lid	None	14 days
	Dioxins and Furans, PCBs	120 mL glass jar, teflon lined lid	None	Indefinite storage time
	Oil & Grease, Heavy Oils	120 mL glass jar, teflon lined lid	None	30 days
	ABNs, Chlorophenols, OC Pesticides, PAHs	120 mL glass jar, teflon lined lid	None	60 days
	1,4-Dioxane - processed as a VOC	40mL glass vial (plus 60mL jar for moisture)	10 mL methanol	14 days
	1,4 Dioxane - processed as an ABN	120 mL glass jar, teflon lined lid	None	14 days

*Based upon Reg. 153 analytical protocols and MISA (Municipal and Industrial Strategy for Abatement)

**No headspace or air bubbles in the container.

***Protect from light

Bureau Veritas Laboratories has provided a summary of holding times for convenience purposes only and is to be used only as a guide. Holding times may differ depending on required protocol.

Please consult the official regulations to ensure the appropriate holding times are followed. Please ensure samples are transported as quickly as possible to ensure hold times can be met.

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.bvlabs.com/terms-and-conditions>

Reg 153 Metals and Inorganics Packages		
Reg 153 ICPMS Metals	Reg 153 Metals Package (Soil)	Reg 153 Metals Package (Water)
Antimony	Reg 153 ICPMS Metals with Chromium VI HWS Boron Mercury	Reg 153 ICPMS Metals with Chromium VI Mercury
Arsenic		
Barium		
Beryllium		
Boron (total)		
Cadmium		
Chromium (total)		
Cobalt		
Copper		
Lead		
Molybdenum	Reg 153 Metals & Inorganics Package (Soil) Reg 153 Metals Package with.. Electrical Conductivity Free Cyanide pH Sodium Absorption Ratio	Reg 153 Metals & Inorganics Package (Water) Reg 153 Metals Package with... Chloride Free Cyanide
Nickel		
Selenium		
Silver		
Sodium (water only)		
Thallium		
Uranium		
Vanadium		
Zinc		

Bureau Veritas Laboratories Water Quality Packages		
RCAP - Comprehensive ICP/MS Metals - Dissolved	RCAP - Routine ICP Metals - Dissolved	RCAP - Surface Water ICP/MS Metals - Total
Alkalinity CaCO ₃	Alkalinity CaCO ₃	Alkalinity CaCO ₃
Ammonia as N	Ammonia as N	Ammonia as N
Carbon, Dissolved Org. as C	Carbon, Dissolved Org. as C	Carbon, Total Org. As C
Chloride	Chloride	Chloride
Conductivity	Conductivity	Conductivity
Nitrate as Nitrogen	Nitrate as Nitrogen	Nitrate as Nitrogen
Nitrite as Nitrogen	Nitrite as Nitrogen	Nitrite as Nitrogen
pH	pH	pH
Phosphate as o-PO ₄	Phosphate as o-PO ₄	Phosphate as o-PO ₄
Sulphate as SO ₄	Sulphate as SO ₄	Sulphate as SO ₄
		Total Phosphorus (colorimetric)
		Turbidity
CALCULATIONS:	CALCULATIONS:	CALCULATIONS:
TDS Calculated	TDS Calculated	TDS Calculated
Bicarbonate Alkalinity	Bicarbonate Alkalinity	Bicarbonate Alkalinity
Carbonate Alkalinity	Carbonate Alkalinity	Carbonate Alkalinity
Anion Sum	Anion Sum	Hardness
Cation Sum	Cation Sum	Langelier Index @5C
Hardness	Hardness	Langelier Index @20C
Ion Balance	Ion Balance	Saturation pH @5C
Langelier Index @5C	Langelier Index @5C	Saturation pH @20C
Langelier Index @20C	Langelier Index @20C	
Saturation pH @5C	Saturation pH @5C	
Saturation pH @20C	Saturation pH @20C	

Note: Samples are to be kept cool (less than 10°C) post collection; however, samples arriving at Bureau Veritas Laboratories the same day as they were collected, with an attempt made to cool, are not considered compromised at greater than 10°C.

Appendix C Borehole Logs
March 1, 2024

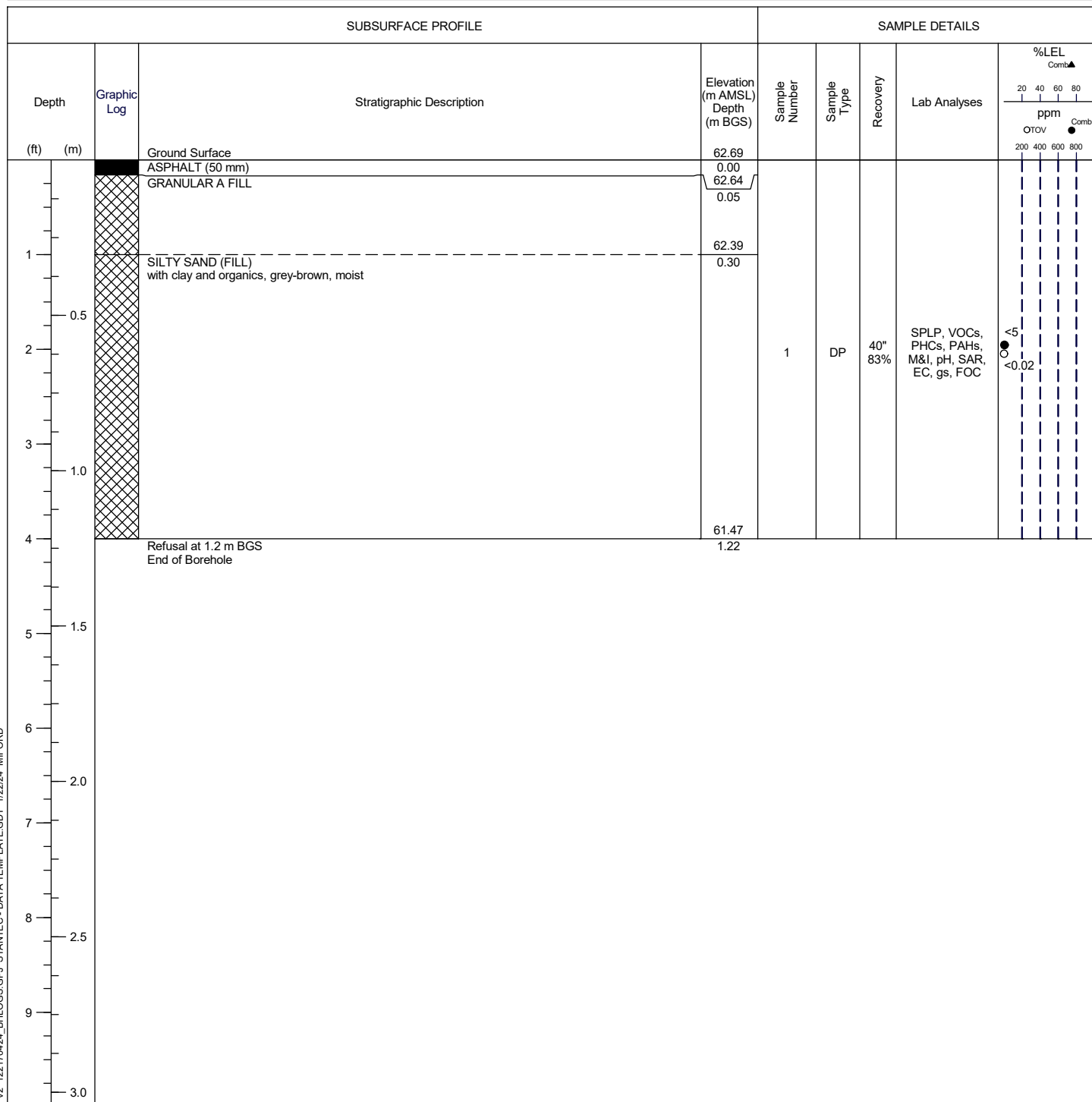
APPENDIX C BOREHOLE LOGS



Borehole: BH23-1

Project: Proposed Hintonburg Development
Client: Taggart
Location: Ottawa, ON
Number: 122170424
Field investigator: T. Saunders
Contractor: Strata Drilling Group

Method: Geoprobe 5610 (Direct Push)
Date started/completed: 26-Jun-2023
Ground surface elevation: 62.69 m AMSL
Top of casing elevation: n/a
Easting: 442840
Northing: 5027864



Notes:
m AMSL - metres above mean sea level
m BGS - metres below ground surface
DP - direct push sample
ppm - parts per million by volume
%LEL - percent lower explosive limit
n/a - not available

BTEX - benzene, toluene, ethylbenzene, xylenes
PHC F1-F4 - petroleum hydrocarbon fractions 1 to 4
PAHs - polycyclic aromatic hydrocarbons
M&I - Metals and inorganics
VOCs - volatile organic compounds
FOC - fraction organic carbon
SPLP - synthetic precipitation leaching procedure
gs - grain size
EC - electrical conductivity
SAR - sodium adsorption ratio



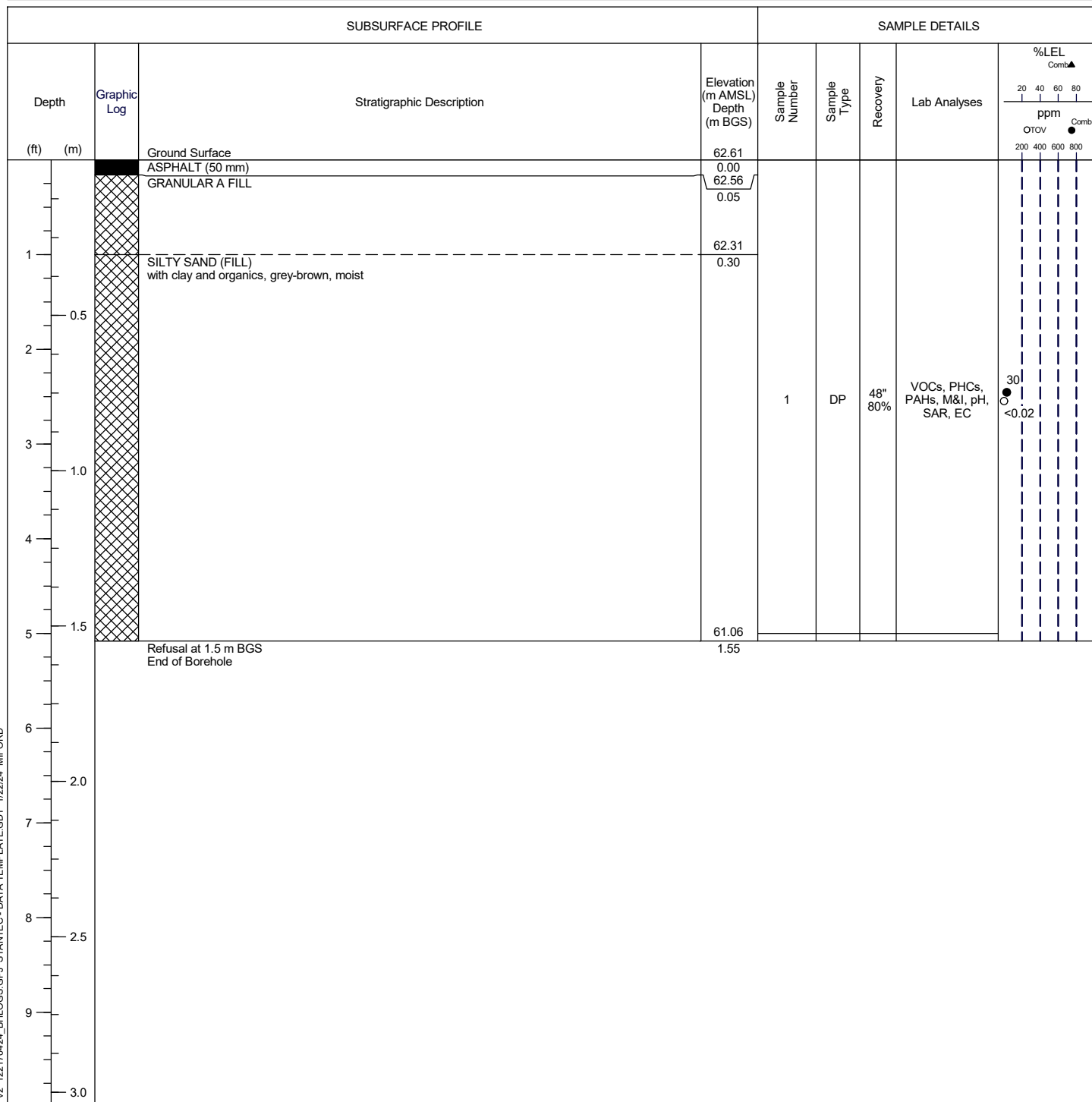
Drawn By/Checked By: L. Bryan

Sheet 1 of 1

Borehole: BH23-2

Project: Proposed Hintonburg Development
Client: Taggart
Location: Ottawa, ON
Number: 122170424
Field investigator: T. Saunders
Contractor: Strata Drilling Group

Method: Geoprobe 5610 (Direct Push)
Date started/completed: 26-Jun-2023
Ground surface elevation: 62.61 m AMSL
Top of casing elevation: n/a
Easting: 44283
Northing: 5027865



Notes:
m AMSL - metres above mean sea level
m BGS - metres below ground surface
DP - direct push sample
ppm - parts per million by volume
%LEL - percent lower explosive limit
n/a - not available

BTEX - benzene, toluene, ethylbenzene, xylenes
PHC F1-F4 - petroleum hydrocarbon fractions 1 to 4
PAHs - polycyclic aromatic hydrocarbons
M&I - Metals and inorganics
VOCs - volatile organic compounds
FOC - fraction organic carbon
SPLP - synthetic precipitation leaching procedure
gs - grain size
EC - electrical conductivity
SAR - sodium adsorption ratio



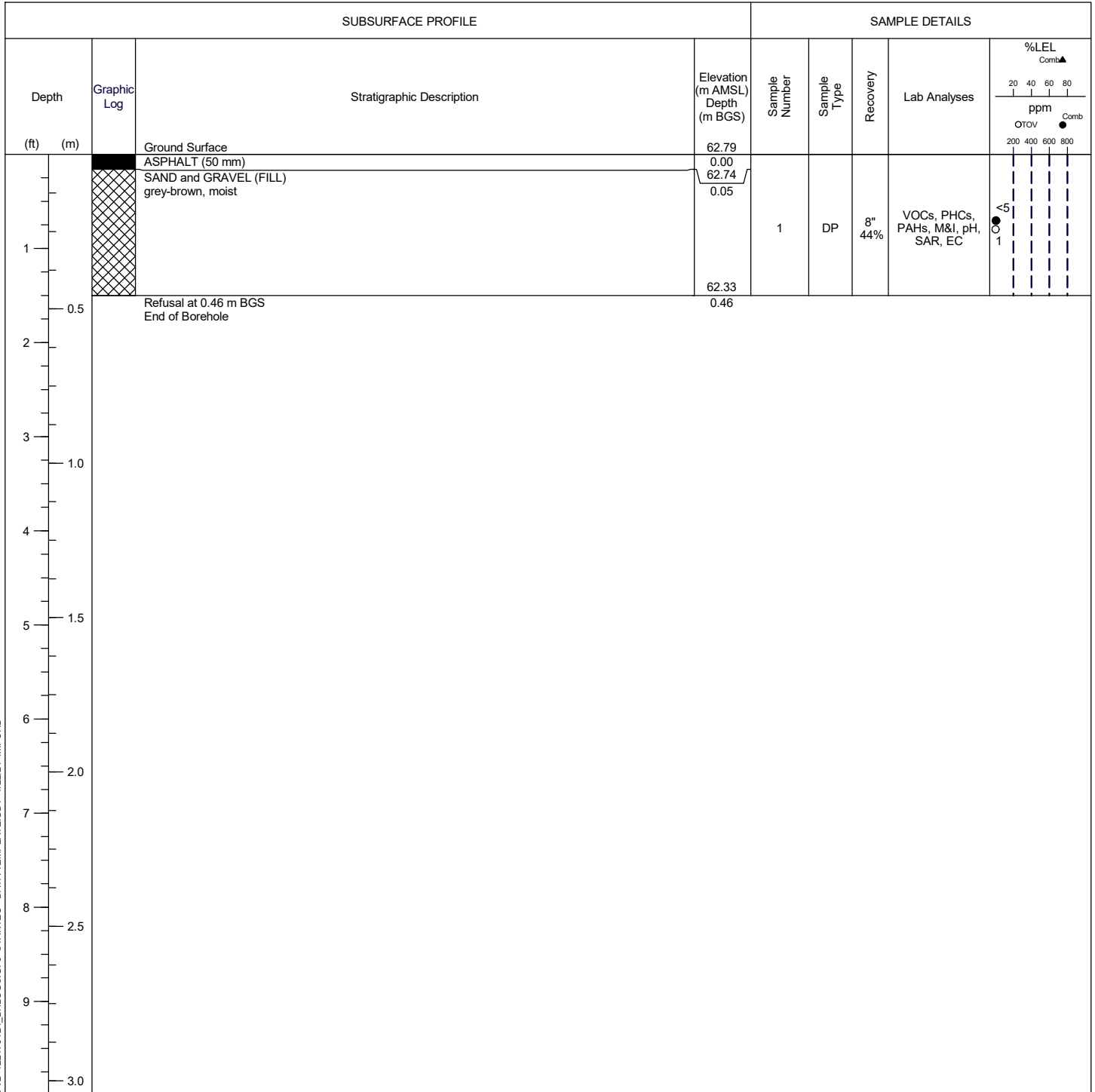
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Sheet 1 of 1

Borehole: BH23-3

Project: Proposed Hintonburg Development
Client: Taggart
Location: Ottawa, ON
Number: 122170424
Field investigator: T. Saunders
Contractor: Strata Drilling Group

Method: Geoprobe 5610 (Direct Push)
Date started/completed: 26-Jun-2023
Ground surface elevation: 62.79 m AMSL
Top of casing elevation: n/a
Easting: 442841
Northing: 5027881



Notes:
m AMSL - metres above mean sea level
m BGS - metres below ground surface
DP - direct push sample
ppm - parts per million by volume
%LEL - percent lower explosive limit
n/a - not available

BTEX - benzene, toluene, ethylbenzene, xylenes
PHC F1-F4 - petroleum hydrocarbon fractions 1 to 4
PAHs - polycyclic aromatic hydrocarbons
M&I - Metals and inorganics
VOCs - volatile organic compounds
FOC - fraction organic carbon
SPLP - synthetic precipitation leaching procedure
gs - grain size
EC - electrical conductivity
SAR - sodium adsorption ratio



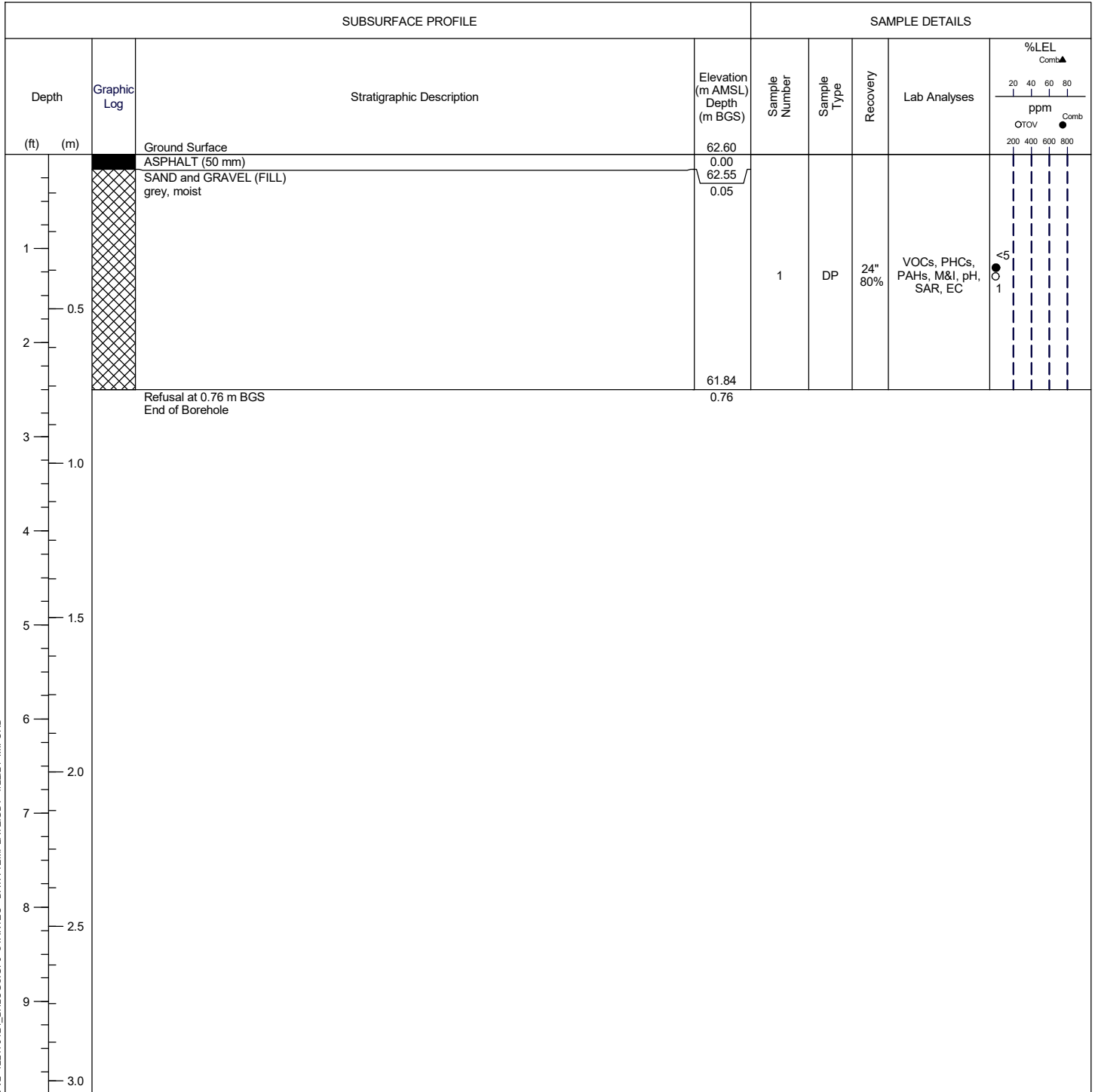
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Sheet 1 of 1

Borehole: BH23-4

Project: Proposed Hintonburg Development
Client: Taggart
Location: Ottawa, ON
Number: 122170424
Field investigator: T. Saunders
Contractor: Strata Drilling Group

Method: Geoprobe 5610 (Direct Push)
Date started/completed: 26-Jun-2023
Ground surface elevation: 62.60 m AMSL
Top of casing elevation: n/a
Easting: 442834
Northing: 5027880



Notes:
m AMSL - metres above mean sea level
m BGS - metres below ground surface
DP - direct push sample
ppm - parts per million by volume
%LEL - percent lower explosive limit
n/a - not available

BTEX - benzene, toluene, ethylbenzene, xylenes
PHC F1-F4 - petroleum hydrocarbon fractions 1 to 4
PAHs - polycyclic aromatic hydrocarbons
M&I - Metals and inorganics
VOCs - volatile organic compounds
FOC - fraction organic carbon
SPLP - synthetic precipitation leaching procedure
gs - grain size
EC - electrical conductivity
SAR - sodium adsorption ratio



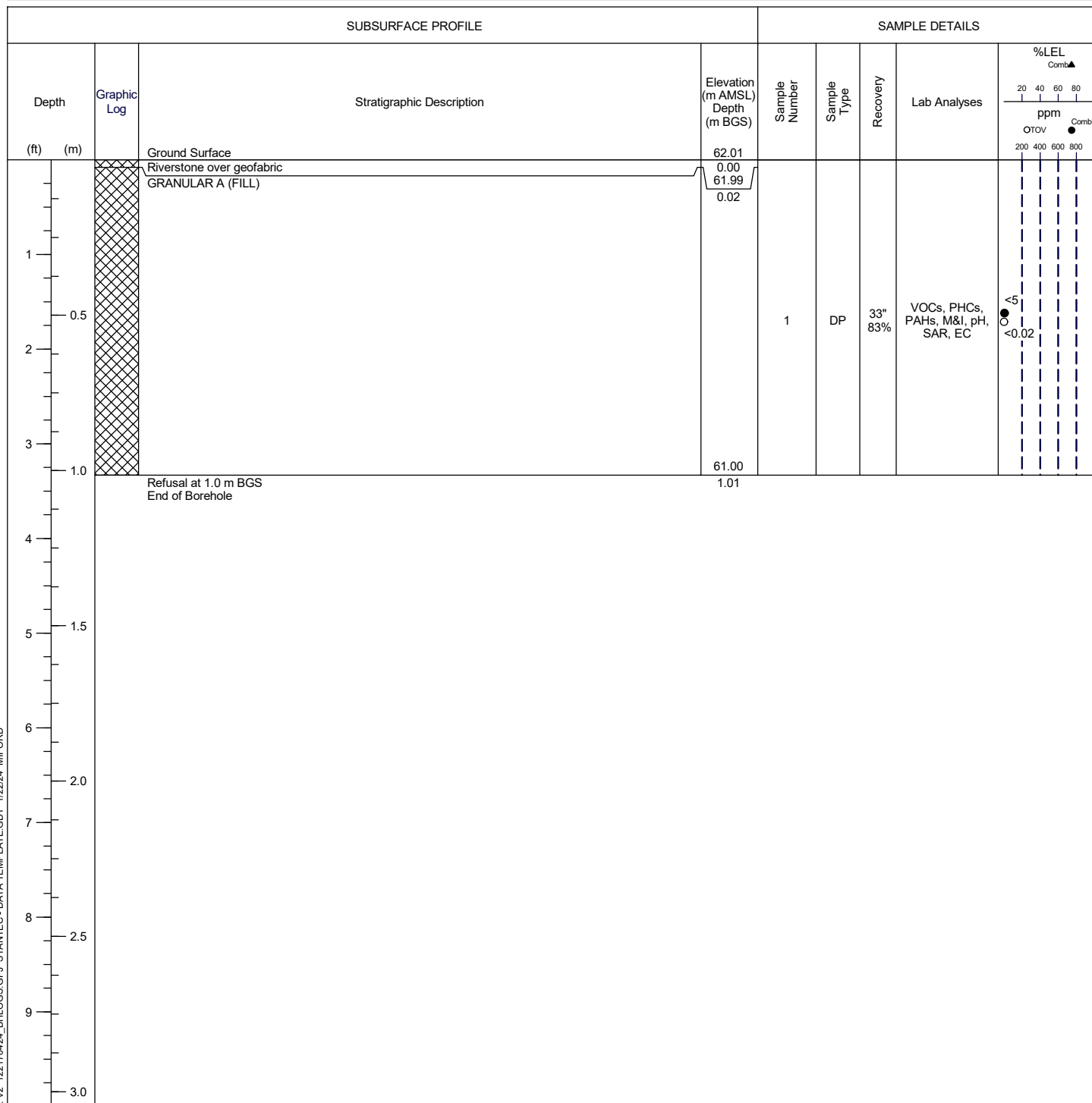
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Sheet 1 of 1

Borehole: BH23-5

Project: Proposed Hintonburg Development
Client: Taggart
Location: Ottawa, ON
Number: 122170424
Field investigator: T. Saunders
Contractor: Strata Drilling Group

Method: Geoprobe 5610 (Direct Push)
Date started/completed: 26-Jun-2023
Ground surface elevation: 62.01 m AMSL
Top of casing elevation: n/a
Easting: 442816
Northing: 5027882



Notes:
m AMSL - metres above mean sea level
m BGS - metres below ground surface
DP - direct push sample
ppm - parts per million by volume
%LEL - percent lower explosive limit
n/a - not available

BTEX - benzene, toluene, ethylbenzene, xylenes
PHC F1-F4 - petroleum hydrocarbon fractions 1 to 4
PAHs - polycyclic aromatic hydrocarbons
M&I - Metals and inorganics
VOCs - volatile organic compounds
FOC - fraction organic carbon
SPLP - synthetic precipitation leaching procedure
gs - grain size
EC - electrical conductivity
SAR - sodium adsorption ratio



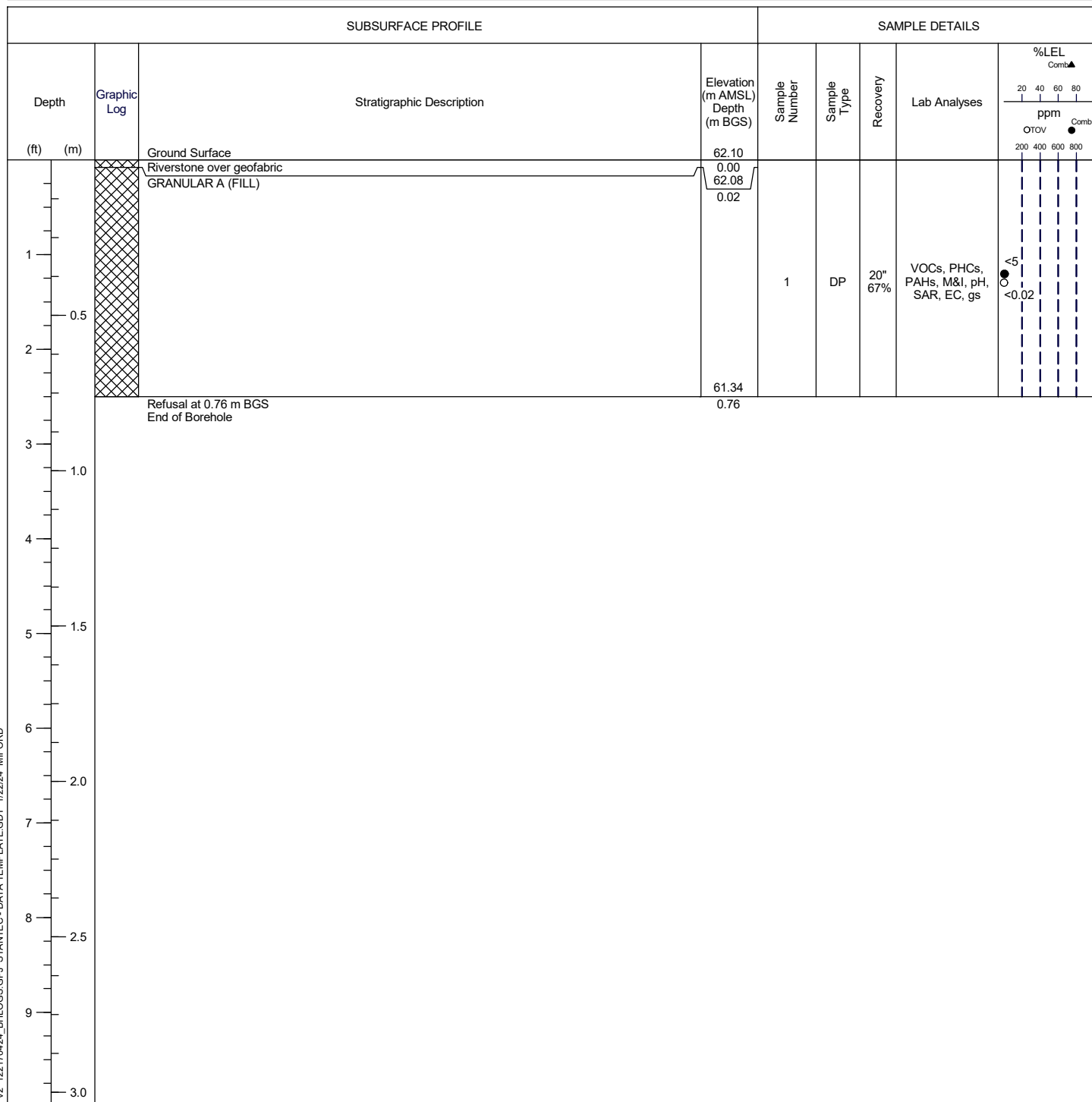
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Sheet 1 of 1

Borehole: BH23-6

Project: Proposed Hintonburg Development
Client: Taggart
Location: Ottawa, ON
Number: 122170424
Field investigator: T. Saunders
Contractor: Strata Drilling Group

Method: Geoprobe 5610 (Direct Push)
Date started/completed: 26-Jun-2023
Ground surface elevation: 62.10 m AMSL
Top of casing elevation: n/a
Easting: 442814
Northing: 5027890



Notes:
m AMSL - metres above mean sea level
m BGS - metres below ground surface
DP - direct push sample
ppm - parts per million by volume
%LEL - percent lower explosive limit
n/a - not available

BTEX - benzene, toluene, ethylbenzene, xylenes
PHC F1-F4 - petroleum hydrocarbon fractions 1 to 4
PAHs - polycyclic aromatic hydrocarbons
M&I - Metals and inorganics
VOCs - volatile organic compounds
FOC - fraction organic carbon
SPLP - synthetic precipitation leaching procedure
gs - grain size
EC - electrical conductivity
SAR - sodium adsorption ratio



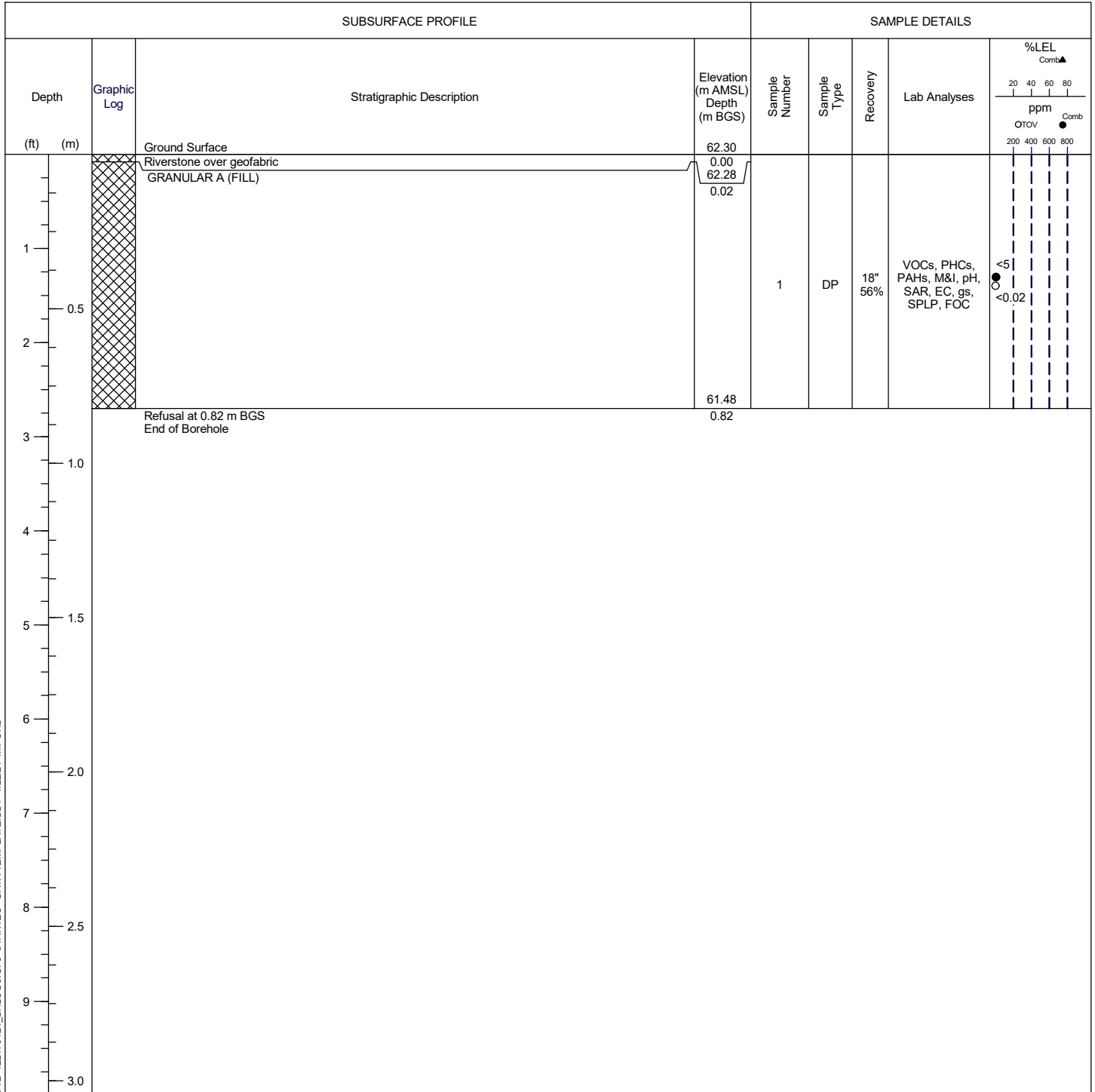
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Sheet 1 of 1

Borehole: BH23-7

Project: Proposed Hintonburg Development
Client: Taggart
Location: Ottawa, ON
Number: 122170424
Field investigator: T. Saunders
Contractor: Strata Drilling Group

Method: Geoprobe 5610 (Direct Push)
Date started/completed: 26-Jun-2023
Ground surface elevation: 62.30 m AMSL
Top of casing elevation: n/a
Easting: 442826
Northing: 5027893



Notes:
m AMSL - metres above mean sea level
m BGS - metres below ground surface
DP - direct push sample
ppm - parts per million by volume
%LEL - percent lower explosive limit
n/a - not available

BTEX - benzene, toluene, ethylbenzene, xylenes
PHC F1-F4 - petroleum hydrocarbon fractions 1 to 4
PAHs - polycyclic aromatic hydrocarbons
M&I - Metals and inorganics
VOCs - volatile organic compounds
FOC - fraction organic carbon
SPLP - synthetic precipitation leaching procedure
gs - grain size
EC - electrical conductivity
SAR - sodium adsorption ratio



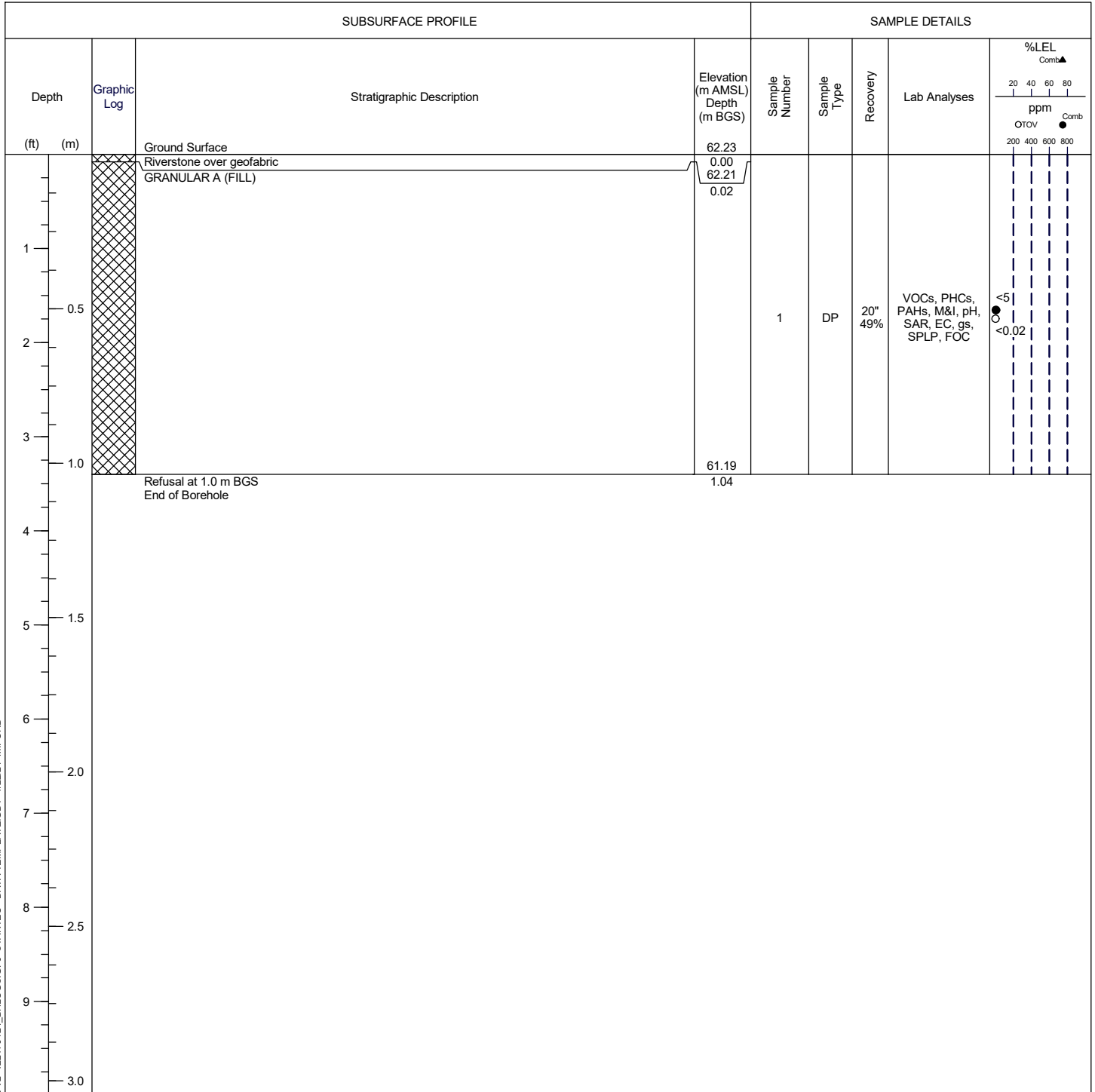
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Sheet 1 of 1

Borehole: BH23-8

Project: Proposed Hintonburg Development
Client: Taggart
Location: Ottawa, ON
Number: 122170424
Field investigator: T. Saunders
Contractor: Strata Drilling Group

Method: Geoprobe 5610 (Direct Push)
Date started/completed: 26-Jun-2023
Ground surface elevation: 62.23 m AMSL
Top of casing elevation: n/a
Easting: 442832
Northing: 5027888



Notes:
m AMSL - metres above mean sea level
m BGS - metres below ground surface
DP - direct push sample
ppm - parts per million by volume
%LEL - percent lower explosive limit
n/a - not available

BTEX - benzene, toluene, ethylbenzene, xylenes
PHC F1-F4 - petroleum hydrocarbon fractions 1 to 4
PAHs - polycyclic aromatic hydrocarbons
M&I - Metals and inorganics
VOCs - volatile organic compounds
FOC - fraction organic carbon
SPLP - synthetic precipitation leaching procedure
gs - grain size
EC - electrical conductivity
SAR - sodium adsorption ratio



Drawn By/Checked By: L. Bryan

Sheet 1 of 1

APPENDIX D LABORATORY CERTIFICATES OF ANALYSIS INCLUDING GRAIN SIZE ANALYSES



Certificate of Analysis

Stantec Consulting Ltd. (Ottawa)

1331 Clyde Avenue Suite 400
Ottawa, ON K2C 3G4
Attn: Dylan Hemmings

Client PO:
Project: 122170424
Custody: 71805, 71807

Report Date: 10-Jul-2023
Order Date: 26-Jun-2023

Order #: 2326112

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

Paracel ID	Client ID
2326112-01	BH23-1
2326112-02	QC-01
2326112-03	QC-02
2326112-04	BH23-2
2326112-05	BH23-3
2326112-06	BH23-4
2326112-07	BH23-5
2326112-08	BH23-6
2326112-09	BH23-7
2326112-10	BH23-8

Approved By:



Dale Robertson, BSc
Laboratory Director

Certificate of Analysis

Client: **Stantec Consulting Ltd. (Ottawa)**

Client PO:

Report Date: 10-Jul-2023

Order Date: 26-Jun-2023

Project Description: **122170424**

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Conductivity	MOE E3138 - probe @25 °C, water ext	30-Jun-23	30-Jun-23
Cyanide, free	MOE E3015 - Auto Colour, water extraction	30-Jun-23	30-Jun-23
pH, soil	EPA 150.1 - pH probe @ 25 °C, CaCl buffered ext.	30-Jun-23	30-Jun-23
PHC F1	CWS Tier 1 - P&T GC-FID	30-Jun-23	1-Jul-23
PHC F4G (gravimetric)	CWS Tier 1 - Extraction Gravimetric	7-Jul-23	7-Jul-23
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	28-Jun-23	30-Jun-23
REG 153: FOC, soil	Subcontracted	6-Jul-23	6-Jul-23
REG 153: Metals by ICP/MS, soil	EPA 6020 - Digestion - ICP-MS	29-Jun-23	30-Jun-23
REG 153: PAHs by GC-MS	EPA 8270 - GC-MS, extraction	30-Jun-23	2-Jul-23
REG 153: VOCs by P&T GC/MS	EPA 8260 - P&T GC-MS	30-Jun-23	1-Jul-23
REG 406: Metals, leachate	mSPLP EPA 6020 - Digestion - ICP-MS	28-Jun-23	29-Jun-23
REG 406: VOC, leachate	mSPLP EPA 624 - P&T GC-MS	28-Jun-23	28-Jun-23
SAR	Calculated	30-Jun-23	4-Jul-23
Solids, %	CWS Tier 1 - Gravimetric	30-Jun-23	30-Jun-23
Texture - Coarse Med/Fine	Based on ASTM D2487	28-Jun-23	30-Jun-23

Certificate of Analysis

Report Date: 10-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

	Client ID:	BH23-1	QC-01	QC-02	BH23-2
	Sample Date:	26-Jun-23 08:30	26-Jun-23 08:30	26-Jun-23 09:00	26-Jun-23 09:00
	Sample ID:	2326112-01	2326112-02	2326112-03	2326112-04
	MDL/Units	Soil	Soil	Soil	Soil

Physical Characteristics

% Solids	0.1 % by Wt.	85.9	-	94.4	94.6
>75 um	0.1 %	63.4	-	-	-
<75 um	0.1 %	36.6	-	-	-
Texture	0.1 %	Coarse	-	-	-

mSPLP Leachate Metals

Antimony	0.5 ug/L	4.2	-	-	-
Arsenic	1.0 ug/L	1.2	-	-	-
Barium	1.0 ug/L	35.8	-	-	-
Beryllium	0.5 ug/L	<0.5	-	-	-
Boron	10.0 ug/L	40.4	-	-	-
Cadmium	0.2 ug/L	<0.2	-	-	-
Chromium	1.0 ug/L	1.3	-	-	-
Cobalt	0.5 ug/L	<0.5	-	-	-
Copper	0.5 ug/L	8.7	-	-	-
Lead	0.2 ug/L	21.1	-	-	-
Molybdenum	0.5 ug/L	8.9	-	-	-
Nickel	1.0 ug/L	1.5	-	-	-
Selenium	1.0 ug/L	<1.0	-	-	-
Silver	0.2 ug/L	<0.2	-	-	-
Thallium	0.5 ug/L	<0.5	-	-	-
Uranium	0.2 ug/L	0.4	-	-	-
Vanadium	0.5 ug/L	2.0	-	-	-
Zinc	5.0 ug/L	15.8	-	-	-

mSPLP Leachate VOCs

Bromomethane	0.5 ug/L	<0.5	-	-	-
Carbon Tetrachloride	0.2 ug/L	<0.2	-	-	-
Chloroform	0.5 ug/L	<0.5	-	-	-
Ethylene dibromide (dibromoethane, 1,2-)	0.2 ug/L	<0.2	-	-	-
1,2-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-
1,4-Dichlorobenzene	0.5 ug/L	<0.5	-	-	-
1,2-Dichloroethane	0.2 ug/L	<0.2	-	-	-
1,1-Dichloroethane	0.5 ug/L	<0.5	-	-	-
1,1-Dichloroethylene	0.5 ug/L	<0.5	-	-	-
cis-1,2-Dichloroethylene	0.2 ug/L	<0.2	-	-	-
trans-1,2-Dichloroethylene	0.5 ug/L	<0.5	-	-	-

Certificate of Analysis

Report Date: 10-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

	Client ID:	BH23-1	QC-01	QC-02	BH23-2
	Sample Date:	26-Jun-23 08:30	26-Jun-23 08:30	26-Jun-23 09:00	26-Jun-23 09:00
	Sample ID:	2326112-01	2326112-02	2326112-03	2326112-04
	MDL/Units	Soil	Soil	Soil	Soil
1,2-Dichloropropane	0.5 ug/L	<0.5	-	-	-
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	-	-	-
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	-	-	-
1,3-Dichloropropene, total	0.5 ug/L	<0.5	-	-	-
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	-	-	-
1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	-	-	-
Tetrachloroethylene	0.5 ug/L	2.2	-	-	-
1,1,2-Trichloroethane	0.5 ug/L	<0.5	-	-	-
Trichloroethylene	0.5 ug/L	0.8	-	-	-
4-Bromofluorobenzene	Surrogate	105%	-	-	-
Dibromofluoromethane	Surrogate	110%	-	-	-
Toluene-d8	Surrogate	104%	-	-	-

General Inorganics

SAR	0.01 N/A	1.71	-	0.25	0.22
Conductivity	5 uS/cm	994	-	300	338
Cyanide, free	0.03 ug/g dry	<0.03	-	<0.03	<0.03
pH	0.05 pH Units	7.49	-	7.62	7.86

Metals

Antimony	1.0 ug/g dry	3.7	-	<1.0	<1.0
Arsenic	1.0 ug/g dry	6.0	-	4.4	4.3
Barium	1.0 ug/g dry	172	-	101	91.3
Beryllium	0.5 ug/g dry	0.6	-	<0.5	<0.5
Boron	5.0 ug/g dry	15.7	-	11.2	8.8
Cadmium	0.5 ug/g dry	<0.5	-	<0.5	<0.5
Chromium	5.0 ug/g dry	20.6	-	15.8	13.4
Cobalt	1.0 ug/g dry	7.9	-	7.9	6.9
Copper	5.0 ug/g dry	68.0	-	16.3	13.6
Lead	1.0 ug/g dry	204	-	23.2	14.7
Molybdenum	1.0 ug/g dry	3.3	-	2.4	2.6
Nickel	5.0 ug/g dry	17.0	-	15.2	12.9
Selenium	1.0 ug/g dry	<1.0	-	<1.0	<1.0
Silver	0.3 ug/g dry	0.4	-	<0.3	<0.3
Thallium	1.0 ug/g dry	<1.0	-	<1.0	<1.0
Uranium	1.0 ug/g dry	<1.0	-	<1.0	<1.0
Vanadium	10.0 ug/g dry	25.2	-	19.0	18.8
Zinc	20.0 ug/g dry	136	-	37.2	24.4

Certificate of Analysis

Report Date: 10-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

	MDL/Units	Client ID:	BH23-1	QC-01	QC-02	BH23-2
		Sample Date:	26-Jun-23 08:30	26-Jun-23 08:30	26-Jun-23 09:00	26-Jun-23 09:00
		Sample ID:	2326112-01	2326112-02	2326112-03	2326112-04
			Soil	Soil	Soil	Soil
Volatiles						
Acetone	0.50 ug/g dry		<0.50	-	<0.50	<0.50
Benzene	0.02 ug/g dry		<0.02	-	<0.02	<0.02
Bromodichloromethane	0.05 ug/g dry		<0.05	-	<0.05	<0.05
Bromoform	0.05 ug/g dry		<0.05	-	<0.05	<0.05
Bromomethane	0.05 ug/g dry		<0.05	-	<0.05	<0.05
Carbon Tetrachloride	0.05 ug/g dry		<0.05	-	<0.05	<0.05
Chlorobenzene	0.05 ug/g dry		<0.05	-	<0.05	<0.05
Chloroform	0.05 ug/g dry		<0.05	-	<0.05	<0.05
Dibromochloromethane	0.05 ug/g dry		<0.05	-	<0.05	<0.05
Dichlorodifluoromethane	0.05 ug/g dry		<0.05	-	<0.05	<0.05
1,2-Dichlorobenzene	0.05 ug/g dry		<0.05	-	<0.05	<0.05
1,3-Dichlorobenzene	0.05 ug/g dry		<0.05	-	<0.05	<0.05
1,4-Dichlorobenzene	0.05 ug/g dry		<0.05	-	<0.05	<0.05
1,1-Dichloroethane	0.05 ug/g dry		<0.05	-	<0.05	<0.05
1,2-Dichloroethane	0.05 ug/g dry		<0.05	-	<0.05	<0.05
1,1-Dichloroethylene	0.05 ug/g dry		<0.05	-	<0.05	<0.05
cis-1,2-Dichloroethylene	0.05 ug/g dry		0.17	-	<0.05	<0.05
trans-1,2-Dichloroethylene	0.05 ug/g dry		<0.05	-	<0.05	<0.05
1,2-Dichloropropane	0.05 ug/g dry		<0.05	-	<0.05	<0.05
cis-1,3-Dichloropropylene	0.05 ug/g dry		<0.05	-	<0.05	<0.05
trans-1,3-Dichloropropylene	0.05 ug/g dry		<0.05	-	<0.05	<0.05
1,3-Dichloropropene, total	0.05 ug/g dry		<0.05	-	<0.05	<0.05
Ethylbenzene	0.05 ug/g dry		<0.05	-	<0.05	<0.05
Ethylene dibromide (dibromoethane, 1,2-)	0.05 ug/g dry		<0.05	-	<0.05	<0.05
Hexane	0.05 ug/g dry		<0.05	-	<0.05	<0.05
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g dry		<0.50	-	<0.50	<0.50
Methyl Isobutyl Ketone	0.50 ug/g dry		<0.50	-	<0.50	<0.50
Methyl tert-butyl ether	0.05 ug/g dry		<0.05	-	<0.05	<0.05
Methylene Chloride	0.05 ug/g dry		<0.05	-	<0.05	<0.05
Styrene	0.05 ug/g dry		<0.05	-	<0.05	<0.05
1,1,1,2-Tetrachloroethane	0.05 ug/g dry		<0.05	-	<0.05	<0.05
1,1,2,2-Tetrachloroethane	0.05 ug/g dry		<0.05	-	<0.05	<0.05
Tetrachloroethylene	0.05 ug/g dry		1.48	-	3.92	3.94
Toluene	0.05 ug/g dry		<0.05	-	<0.05	<0.05

Certificate of Analysis

Report Date: 10-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

	Client ID:	BH23-1	QC-01	QC-02	BH23-2
	Sample Date:	26-Jun-23 08:30	26-Jun-23 08:30	26-Jun-23 09:00	26-Jun-23 09:00
	Sample ID:	2326112-01	2326112-02	2326112-03	2326112-04
	MDL/Units	Soil	Soil	Soil	Soil
1,1,1-Trichloroethane	0.05 ug/g dry	<0.05	-	<0.05	<0.05
1,1,2-Trichloroethane	0.05 ug/g dry	<0.05	-	<0.05	<0.05
Trichloroethylene	0.05 ug/g dry	0.31	-	0.32	0.36
Trichlorofluoromethane	0.05 ug/g dry	<0.05	-	<0.05	<0.05
Vinyl chloride	0.02 ug/g dry	<0.02	-	<0.02	<0.02
m,p-Xylenes	0.05 ug/g dry	<0.05	-	<0.05	<0.05
o-Xylene	0.05 ug/g dry	<0.05	-	<0.05	<0.05
Xylenes, total	0.05 ug/g dry	<0.05	-	<0.05	<0.05
4-Bromofluorobenzene	Surrogate	104%	-	97.6%	97.0%
Dibromofluoromethane	Surrogate	94.1%	-	91.7%	94.7%
Toluene-d8	Surrogate	136%	-	127%	115%

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g dry	<7	-	<7	<7
F2 PHCs (C10-C16)	4 ug/g dry	72	-	<4	33
F3 PHCs (C16-C34)	8 ug/g dry	1020 [2]	-	61	163
F4 PHCs (C34-C50)	6 ug/g dry	846 [1]	-	356 [1]	652 [1]
F4G PHCs (gravimetric)	50 ug/g dry	594	-	402	254

Semi-Volatiles

Acenaphthene	0.02 ug/g dry	0.53	-	<0.02	<0.02
Acenaphthylene	0.02 ug/g dry	0.47	-	<0.02	<0.02
Anthracene	0.02 ug/g dry	1.69	-	<0.02	0.03
Benzo [a] anthracene	0.02 ug/g dry	2.67	-	0.02	0.04
Benzo [a] pyrene	0.02 ug/g dry	2.69	-	0.02	0.04
Benzo [b] fluoranthene	0.02 ug/g dry	2.81	-	0.03	0.05
Benzo [g,h,i] perylene	0.02 ug/g dry	1.88	-	0.03	0.03
Benzo [k] fluoranthene	0.02 ug/g dry	1.50	-	<0.02	0.02
Chrysene	0.02 ug/g dry	2.45	-	0.02	0.04
Dibenzo [a,h] anthracene	0.02 ug/g dry	0.46	-	<0.02	<0.02
Fluoranthene	0.02 ug/g dry	6.64	-	0.05	0.09
Fluorene	0.02 ug/g dry	0.62	-	<0.02	<0.02
Indeno [1,2,3-cd] pyrene	0.02 ug/g dry	1.58	-	<0.02	0.02
1-Methylnaphthalene	0.02 ug/g dry	0.05	-	<0.02	<0.02
2-Methylnaphthalene	0.02 ug/g dry	0.06	-	<0.02	<0.02
Methylnaphthalene (1&2)	0.04 ug/g dry	0.11	-	<0.04	<0.04
Naphthalene	0.01 ug/g dry	0.11	-	<0.01	<0.01
Phenanthrene	0.02 ug/g dry	5.40	-	0.05	0.09

Certificate of Analysis

Report Date: 10-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

		Client ID:	BH23-1	QC-01	QC-02	BH23-2
		Sample Date:	26-Jun-23 08:30	26-Jun-23 08:30	26-Jun-23 09:00	26-Jun-23 09:00
		Sample ID:	2326112-01	2326112-02	2326112-03	2326112-04
		MDL/Units	Soil	Soil	Soil	Soil
Pyrene	0.02 ug/g dry		5.77	-	0.05	0.08
2-Fluorobiphenyl	Surrogate		67.2%	-	69.4%	70.4%
Terphenyl-d14	Surrogate		71.7%	-	72.4%	72.2%

Subcontract

Fraction Organic Carbon 1	0.005 g/g	0.046 [5]	0.048 [5]	-	-
Fraction Organic Carbon 2	0.005 g/g	0.049 [5]	0.053 [5]	-	-
Fraction Organic Carbon 3	0.005 g/g	0.049 [5]	0.050 [5]	-	-

Certificate of Analysis

Client: Stantec Consulting Ltd. (Ottawa)

Client PO:

Report Date: 10-Jul-2023

Order Date: 26-Jun-2023

Project Description: 122170424

	Client ID:	BH23-3	BH23-4	BH23-5	BH23-6
	Sample Date:	26-Jun-23 09:30	26-Jun-23 10:00	26-Jun-23 10:30	26-Jun-23 11:00
	Sample ID:	2326112-05	2326112-06	2326112-07	2326112-08
	MDL/Units	Soil	Soil	Soil	Soil
Physical Characteristics					
% Solids	0.1 % by Wt.	94.0	92.5	97.1	96.8
>75 um	0.1 %	-	-	-	77.8
<75 um	0.1 %	-	-	-	22.2
Texture	0.1 %	-	-	-	Coarse
General Inorganics					
SAR	0.01 N/A	1.04	3.27	0.10	0.09
Conductivity	5 uS/cm	897	999	138	120
Cyanide, free	0.03 ug/g dry	<0.03	<0.03	<0.03	<0.03
pH	0.05 pH Units	7.73	7.69	7.93	7.83
Metals					
Antimony	1.0 ug/g dry	<1.0	2.8	<1.0	<1.0
Arsenic	1.0 ug/g dry	4.4	7.6	2.4	2.7
Barium	1.0 ug/g dry	124	222	179	179
Beryllium	0.5 ug/g dry	<0.5	<0.5	<0.5	<0.5
Boron	5.0 ug/g dry	10.6	22.1	13.2	16.3
Cadmium	0.5 ug/g dry	<0.5	<0.5	<0.5	<0.5
Chromium	5.0 ug/g dry	14.8	18.2	11.5	16.5
Cobalt	1.0 ug/g dry	7.2	8.8	5.1	6.3
Copper	5.0 ug/g dry	19.1	38.5	19.0	16.6
Lead	1.0 ug/g dry	61.5	129	12.9	24.0
Molybdenum	1.0 ug/g dry	2.6	2.3	<1.0	<1.0
Nickel	5.0 ug/g dry	14.3	18.2	12.5	14.6
Selenium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Silver	0.3 ug/g dry	<0.3	<0.3	<0.3	<0.3
Thallium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Uranium	1.0 ug/g dry	<1.0	<1.0	<1.0	<1.0
Vanadium	10.0 ug/g dry	20.7	22.8	10.1	14.1
Zinc	20.0 ug/g dry	54.4	134	35.4	71.2
Volatiles					
Acetone	0.50 ug/g dry	<0.50	<0.50	<0.50	<0.50
Benzene	0.02 ug/g dry	<0.02	<0.02	<0.02	<0.02
Bromodichloromethane	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Bromoform	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Bromomethane	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Carbon Tetrachloride	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05

Certificate of Analysis

Client: Stantec Consulting Ltd. (Ottawa)

Client PO:

Report Date: 10-Jul-2023

Order Date: 26-Jun-2023

Project Description: 122170424

	Client ID:	BH23-3	BH23-4	BH23-5	BH23-6
	Sample Date:	26-Jun-23 09:30	26-Jun-23 10:00	26-Jun-23 10:30	26-Jun-23 11:00
	Sample ID:	2326112-05	2326112-06	2326112-07	2326112-08
	MDL/Units	Soil	Soil	Soil	Soil
Chlorobenzene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Chloroform	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Dibromochloromethane	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Dichlorodifluoromethane	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
1,2-Dichlorobenzene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
1,3-Dichlorobenzene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
1,4-Dichlorobenzene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethane	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
1,2-Dichloroethane	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
1,1-Dichloroethylene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
cis-1,2-Dichloroethylene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
trans-1,2-Dichloroethylene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
1,2-Dichloropropane	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
cis-1,3-Dichloropropylene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
trans-1,3-Dichloropropylene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
1,3-Dichloropropene, total	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Ethylbenzene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Ethylene dibromide (dibromoethane, 1	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Hexane	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g dry	<0.50	<0.50	<0.50	<0.50
Methyl Isobutyl Ketone	0.50 ug/g dry	<0.50	<0.50	<0.50	<0.50
Methyl tert-butyl ether	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Methylene Chloride	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Styrene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
1,1,1,2-Tetrachloroethane	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
1,1,1,2,2-Tetrachloroethane	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Tetrachloroethylene	0.05 ug/g dry	0.30	0.90	0.60	0.55
Toluene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
1,1,1-Trichloroethane	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
1,1,2-Trichloroethane	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Trichloroethylene	0.05 ug/g dry	<0.05	0.14	<0.05	<0.05
Trichlorofluoromethane	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
Vinyl chloride	0.02 ug/g dry	<0.02	<0.02	<0.02	<0.02
m,p-Xylenes	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
o-Xylene	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05

Certificate of Analysis

Report Date: 10-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

	Client ID:	BH23-3	BH23-4	BH23-5	BH23-6
	Sample Date:	26-Jun-23 09:30	26-Jun-23 10:00	26-Jun-23 10:30	26-Jun-23 11:00
	Sample ID:	2326112-05	2326112-06	2326112-07	2326112-08
	MDL/Units	Soil	Soil	Soil	Soil
Xylenes, total	0.05 ug/g dry	<0.05	<0.05	<0.05	<0.05
4-Bromofluorobenzene	Surrogate	101%	101%	96.3%	94.3%
Dibromofluoromethane	Surrogate	95.8%	98.4%	93.8%	93.5%
Toluene-d8	Surrogate	117%	122%	109%	126%
Hydrocarbons					
F1 PHCs (C6-C10)	7 ug/g dry	<7	<7	<7	<7
F2 PHCs (C10-C16)	4 ug/g dry	<4	<4	<4	<4
F3 PHCs (C16-C34)	8 ug/g dry	85	116 [2]	149	188
F4 PHCs (C34-C50)	6 ug/g dry	220 [1]	177 [1]	488 [1]	604 [1]
F4G PHCs (gravimetric)	50 ug/g dry	341	476	443	1110
Semi-Volatiles					
Acenaphthene	0.02 ug/g dry	<0.02	1.24	<0.02	0.04
Acenaphthylene	0.02 ug/g dry	0.02	0.10	<0.02	0.02
Anthracene	0.02 ug/g dry	<0.02	2.13	<0.02	0.09
Benzo [a] anthracene	0.02 ug/g dry	0.07	3.85	0.04	0.23
Benzo [a] pyrene	0.02 ug/g dry	0.08	2.87	0.04	0.20
Benzo [b] fluoranthene	0.02 ug/g dry	0.10	3.56	0.06	0.27
Benzo [g,h,i] perylene	0.02 ug/g dry	0.07	1.47	0.05	0.16
Benzo [k] fluoranthene	0.02 ug/g dry	0.05	1.98	0.03	0.13
Chrysene	0.02 ug/g dry	0.06	3.51	0.04	0.20
Dibenzo [a,h] anthracene	0.02 ug/g dry	<0.02	0.42	<0.02	0.04
Fluoranthene	0.02 ug/g dry	0.14	10.7	0.10	0.56
Fluorene	0.02 ug/g dry	<0.02	1.23	<0.02	0.04
Indeno [1,2,3-cd] pyrene	0.02 ug/g dry	0.05	1.40	0.03	0.11
1-Methylnaphthalene	0.02 ug/g dry	<0.02	0.12	<0.02	<0.02
2-Methylnaphthalene	0.02 ug/g dry	<0.02	0.14	<0.02	<0.02
Methylnaphthalene (1&2)	0.04 ug/g dry	<0.04	0.26	<0.04	<0.04
Naphthalene	0.01 ug/g dry	0.01	0.21	<0.01	0.01
Phenanthrene	0.02 ug/g dry	0.09	10.4	0.07	0.48
Pyrene	0.02 ug/g dry	0.13	8.11	0.09	0.46
2-Fluorobiphenyl	Surrogate	68.8%	71.7%	65.9%	71.0%
Terphenyl-d14	Surrogate	69.0%	74.1%	66.2%	70.3%

Certificate of Analysis

Client: Stantec Consulting Ltd. (Ottawa)

Client PO:

Report Date: 10-Jul-2023

Order Date: 26-Jun-2023

Project Description: 122170424

Client ID:	BH23-7	BH23-8	-	-
Sample Date:	26-Jun-23 11:30	26-Jun-23 12:00	-	-
Sample ID:	2326112-09	2326112-10	-	-
MDL/Units	Soil	Soil	-	-

Physical Characteristics

% Solids	0.1 % by Wt.	94.6	95.7	-	-
>75 um	0.1 %	72.3	71.2	-	-
<75 um	0.1 %	27.7	28.8	-	-
Texture	0.1 %	Coarse	Coarse	-	-

mSPLP Leachate Metals

Antimony	0.5 ug/L	<0.5	<0.5	-	-
Arsenic	1.0 ug/L	<1.0	<1.0	-	-
Barium	1.0 ug/L	20.2	15.8	-	-
Beryllium	0.5 ug/L	<0.5	<0.5	-	-
Boron	10.0 ug/L	32.7	41.2	-	-
Cadmium	0.2 ug/L	<0.2	<0.2	-	-
Chromium	1.0 ug/L	1.1	1.3	-	-
Cobalt	0.5 ug/L	<0.5	<0.5	-	-
Copper	0.5 ug/L	0.6	1.0	-	-
Lead	0.2 ug/L	0.5	<0.2	-	-
Molybdenum	0.5 ug/L	1.2	1.6	-	-
Nickel	1.0 ug/L	<1.0	<1.0	-	-
Selenium	1.0 ug/L	<1.0	<1.0	-	-
Silver	0.2 ug/L	<0.2	<0.2	-	-
Thallium	0.5 ug/L	<0.5	<0.5	-	-
Uranium	0.2 ug/L	<0.2	<0.2	-	-
Vanadium	0.5 ug/L	1.5	1.8	-	-
Zinc	5.0 ug/L	<5.0	<5.0	-	-

mSPLP Leachate VOCs

Bromomethane	0.5 ug/L	<0.5	<0.5	-	-
Carbon Tetrachloride	0.2 ug/L	<0.2	<0.2	-	-
Chloroform	0.5 ug/L	<0.5	<0.5	-	-
Ethylene dibromide (dibromoethane, 1	0.2 ug/L	<0.2	<0.2	-	-
1,2-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	-	-
1,4-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	-	-
1,2-Dichloroethane	0.2 ug/L	<0.2	<0.2	-	-
1,1-Dichloroethane	0.5 ug/L	<0.5	<0.5	-	-
1,1-Dichloroethylene	0.5 ug/L	<0.5	<0.5	-	-
cis-1,2-Dichloroethylene	0.2 ug/L	<0.2	<0.2	-	-
trans-1,2-Dichloroethylene	0.5 ug/L	<0.5	<0.5	-	-

Certificate of Analysis

Report Date: 10-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

	MDL/Units	Client ID:	BH23-7	BH23-8		
		Sample Date:	26-Jun-23 11:30	26-Jun-23 12:00	-	-
		Sample ID:	2326112-09	2326112-10	-	-
			Soil	Soil	-	-
1,2-Dichloropropane	0.5 ug/L		<0.5	<0.5	-	-
cis-1,3-Dichloropropylene	0.5 ug/L		<0.5	<0.5	-	-
trans-1,3-Dichloropropylene	0.5 ug/L		<0.5	<0.5	-	-
1,3-Dichloropropene, total	0.5 ug/L		<0.5	<0.5	-	-
1,1,1,2-Tetrachloroethane	0.5 ug/L		<0.5	<0.5	-	-
1,1,2,2-Tetrachloroethane	0.5 ug/L		<0.5	<0.5	-	-
Tetrachloroethylene	0.5 ug/L		<0.5	5.2	-	-
1,1,2-Trichloroethane	0.5 ug/L		<0.5	<0.5	-	-
Trichloroethylene	0.5 ug/L		<0.5	<0.5	-	-
4-Bromofluorobenzene	Surrogate		104%	106%	-	-
Dibromofluoromethane	Surrogate		110%	110%	-	-
Toluene-d8	Surrogate		104%	105%	-	-

General Inorganics

SAR	0.01 N/A	0.07	0.08	-	-
Conductivity	5 uS/cm	177	134	-	-
Cyanide, free	0.03 ug/g dry	<0.03	<0.03	-	-
pH	0.05 pH Units	7.96	7.87	-	-

Metals

Antimony	1.0 ug/g dry	2.7	<1.0	-	-
Arsenic	1.0 ug/g dry	4.4	3.1	-	-
Barium	1.0 ug/g dry	144	130	-	-
Beryllium	0.5 ug/g dry	1.8	<0.5	-	-
Boron	5.0 ug/g dry	16.3	14.9	-	-
Cadmium	0.5 ug/g dry	2.0	<0.5	-	-
Chromium	5.0 ug/g dry	17.1	18.2	-	-
Cobalt	1.0 ug/g dry	7.7	6.0	-	-
Copper	5.0 ug/g dry	22.6	88.1	-	-
Lead	1.0 ug/g dry	21.5	23.5	-	-
Molybdenum	1.0 ug/g dry	3.4	1.7	-	-
Nickel	5.0 ug/g dry	16.3	14.3	-	-
Selenium	1.0 ug/g dry	2.0	<1.0	-	-
Silver	0.3 ug/g dry	2.2	0.4	-	-
Thallium	1.0 ug/g dry	2.3	<1.0	-	-
Uranium	1.0 ug/g dry	2.2	<1.0	-	-
Vanadium	10.0 ug/g dry	13.9	16.2	-	-

Certificate of Analysis

Report Date: 10-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

	Client ID:		BH23-7	BH23-8	-	-
	Sample Date:		26-Jun-23 11:30	26-Jun-23 12:00	-	-
	Sample ID:		2326112-09	2326112-10	-	-
	MDL/Units		Soil	Soil	-	-
Zinc	20.0 ug/g dry		56.3	89.6	-	-
Volatiles						
Acetone	0.50 ug/g dry		<0.50	<0.50	-	-
Benzene	0.02 ug/g dry		<0.02	<0.02	-	-
Bromodichloromethane	0.05 ug/g dry		<0.05	<0.05	-	-
Bromoform	0.05 ug/g dry		<0.05	<0.05	-	-
Bromomethane	0.05 ug/g dry		<0.05	<0.05	-	-
Carbon Tetrachloride	0.05 ug/g dry		<0.05	<0.05	-	-
Chlorobenzene	0.05 ug/g dry		<0.05	<0.05	-	-
Chloroform	0.05 ug/g dry		<0.05	<0.05	-	-
Dibromochloromethane	0.05 ug/g dry		<0.05	<0.05	-	-
Dichlorodifluoromethane	0.05 ug/g dry		<0.05	<0.05	-	-
1,2-Dichlorobenzene	0.05 ug/g dry		<0.05	<0.05	-	-
1,3-Dichlorobenzene	0.05 ug/g dry		<0.05	<0.05	-	-
1,4-Dichlorobenzene	0.05 ug/g dry		<0.05	<0.05	-	-
1,1-Dichloroethane	0.05 ug/g dry		<0.05	<0.05	-	-
1,2-Dichloroethane	0.05 ug/g dry		<0.05	<0.05	-	-
1,1-Dichloroethylene	0.05 ug/g dry		<0.05	<0.05	-	-
cis-1,2-Dichloroethylene	0.05 ug/g dry		<0.05	<0.05	-	-
trans-1,2-Dichloroethylene	0.05 ug/g dry		<0.05	<0.05	-	-
1,2-Dichloropropane	0.05 ug/g dry		<0.05	<0.05	-	-
cis-1,3-Dichloropropylene	0.05 ug/g dry		<0.05	<0.05	-	-
trans-1,3-Dichloropropylene	0.05 ug/g dry		<0.05	<0.05	-	-
1,3-Dichloropropene, total	0.05 ug/g dry		<0.05	<0.05	-	-
Ethylbenzene	0.05 ug/g dry		<0.05	<0.05	-	-
Ethylene dibromide (dibromoethane, 1	0.05 ug/g dry		<0.05	<0.05	-	-
Hexane	0.05 ug/g dry		<0.05	<0.05	-	-
Methyl Ethyl Ketone (2-Butanone)	0.50 ug/g dry		<0.50	<0.50	-	-
Methyl Isobutyl Ketone	0.50 ug/g dry		<0.50	<0.50	-	-
Methyl tert-butyl ether	0.05 ug/g dry		<0.05	<0.05	-	-
Methylene Chloride	0.05 ug/g dry		<0.05	<0.05	-	-
Styrene	0.05 ug/g dry		<0.05	<0.05	-	-
1,1,1,2-Tetrachloroethane	0.05 ug/g dry		<0.05	<0.05	-	-
1,1,2,2-Tetrachloroethane	0.05 ug/g dry		<0.05	<0.05	-	-
Tetrachloroethylene	0.05 ug/g dry		0.25	1.95	-	-

Certificate of Analysis

Report Date: 10-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

		Client ID:	BH23-7	BH23-8	-	-
		Sample Date:	26-Jun-23 11:30	26-Jun-23 12:00	-	-
		Sample ID:	2326112-09	2326112-10	-	-
		MDL/Units	Soil	Soil	-	-
Toluene	0.05 ug/g dry		<0.05	<0.05	-	-
1,1,1-Trichloroethane	0.05 ug/g dry		<0.05	<0.05	-	-
1,1,2-Trichloroethane	0.05 ug/g dry		<0.05	<0.05	-	-
Trichloroethylene	0.05 ug/g dry		<0.05	0.08	-	-
Trichlorofluoromethane	0.05 ug/g dry		<0.05	<0.05	-	-
Vinyl chloride	0.02 ug/g dry		<0.02	<0.02	-	-
m,p-Xylenes	0.05 ug/g dry		<0.05	<0.05	-	-
o-Xylene	0.05 ug/g dry		<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g dry		<0.05	<0.05	-	-
4-Bromofluorobenzene	Surrogate		100%	99.3%	-	-
Dibromofluoromethane	Surrogate		97.9%	97.3%	-	-
Toluene-d8	Surrogate		127%	127%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g dry	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g dry	<4	12	-	-
F3 PHCs (C16-C34)	8 ug/g dry	64	62	-	-
F4 PHCs (C34-C50)	6 ug/g dry	159 [1]	130 [1]	-	-
F4G PHCs (gravimetric)	50 ug/g dry	180	178	-	-

Semi-Volatiles

Acenaphthene	0.02 ug/g dry	0.03	0.11	-	-
Acenaphthylene	0.02 ug/g dry	0.12	0.06	-	-
Anthracene	0.02 ug/g dry	0.12	0.25	-	-
Benzo [a] anthracene	0.02 ug/g dry	0.30	0.60	-	-
Benzo [a] pyrene	0.02 ug/g dry	0.30	0.48	-	-
Benzo [b] fluoranthene	0.02 ug/g dry	0.38	0.59	-	-
Benzo [g,h,i] perylene	0.02 ug/g dry	0.22	0.27	-	-
Benzo [k] fluoranthene	0.02 ug/g dry	0.20	0.32	-	-
Chrysene	0.02 ug/g dry	0.26	0.59	-	-
Dibenzo [a,h] anthracene	0.02 ug/g dry	0.05	0.08	-	-
Fluoranthene	0.02 ug/g dry	0.73	1.58	-	-
Fluorene	0.02 ug/g dry	0.04	0.13	-	-
Indeno [1,2,3-cd] pyrene	0.02 ug/g dry	0.19	0.25	-	-
1-Methylnaphthalene	0.02 ug/g dry	<0.02	<0.02	-	-
2-Methylnaphthalene	0.02 ug/g dry	<0.02	0.02	-	-
Methylnaphthalene (1&2)	0.04 ug/g dry	<0.04	0.04	-	-

Certificate of Analysis

Report Date: 10-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

		Client ID:	BH23-7	BH23-8		
		Sample Date:	26-Jun-23 11:30	26-Jun-23 12:00	-	-
		Sample ID:	2326112-09	2326112-10	-	-
		MDL/Units	Soil	Soil	-	-
Naphthalene	0.01 ug/g dry		0.02	0.05	-	-
Phenanthrene	0.02 ug/g dry		0.46	1.31	-	-
Pyrene	0.02 ug/g dry		0.58	1.20	-	-
2-Fluorobiphenyl	Surrogate		58.1%	64.9%	-	-
Terphenyl-d14	Surrogate		59.7%	68.1%	-	-
Subcontract						
Fraction Organic Carbon 1	0.005 g/g		0.077 [5]	0.067 [5]	-	-
Fraction Organic Carbon 2	0.005 g/g		0.078 [5]	0.069 [5]	-	-
Fraction Organic Carbon 3	0.005 g/g		0.075 [5]	0.063 [5]	-	-

Certificate of Analysis

Report Date: 10-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
Conductivity	ND	5	uS/cm						
Cyanide, free	ND	0.03	ug/g						
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g						
F2 PHCs (C10-C16)	ND	4	ug/g						
F3 PHCs (C16-C34)	ND	8	ug/g						
F4 PHCs (C34-C50)	ND	6	ug/g						
F4G PHCs (gravimetric)	ND	50	ug/g						
Metals									
Antimony	ND	1.0	ug/g						
Arsenic	ND	1.0	ug/g						
Barium	ND	1.0	ug/g						
Beryllium	ND	0.5	ug/g						
Boron	ND	5.0	ug/g						
Cadmium	ND	0.5	ug/g						
Chromium	ND	5.0	ug/g						
Cobalt	ND	1.0	ug/g						
Copper	ND	5.0	ug/g						
Lead	ND	1.0	ug/g						
Molybdenum	ND	1.0	ug/g						
Nickel	ND	5.0	ug/g						
Selenium	ND	1.0	ug/g						
Silver	ND	0.3	ug/g						
Thallium	ND	1.0	ug/g						
Uranium	ND	1.0	ug/g						
Vanadium	ND	10.0	ug/g						
Zinc	ND	20.0	ug/g						
mSPLP Leachate Metals									
Antimony	ND	0.5	ug/L						
Arsenic	ND	1.0	ug/L						
Barium	ND	1.0	ug/L						
Beryllium	ND	0.5	ug/L						
Boron	ND	10.0	ug/L						
Cadmium	ND	0.2	ug/L						
Chromium	ND	1.0	ug/L						
Cobalt	ND	0.5	ug/L						
Copper	ND	0.5	ug/L						
Lead	ND	0.2	ug/L						
Molybdenum	ND	0.5	ug/L						
Nickel	ND	1.0	ug/L						
Selenium	ND	1.0	ug/L						
Silver	ND	0.2	ug/L						
Thallium	ND	0.5	ug/L						
Uranium	ND	0.2	ug/L						
Vanadium	ND	0.5	ug/L						
Zinc	ND	5.0	ug/L						
mSPLP Leachate VOCs									
Bromomethane	ND	4.3	ug/L						
Carbon Tetrachloride	ND	1.7	ug/L						
Chloroform	ND	4.3	ug/L						
Ethylene dibromide (dibromoethane, 1,2-	ND	1.7	ug/L						
1,2-Dichlorobenzene	ND	4.3	ug/L						
1,4-Dichlorobenzene	ND	4.3	ug/L						
1,2-Dichloroethane	ND	1.7	ug/L						
1,1-Dichloroethane	ND	4.3	ug/L						
1,1-Dichloroethylene	ND	4.3	ug/L						
cis-1,2-Dichloroethylene	ND	1.7	ug/L						

Certificate of Analysis

Report Date: 10-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
trans-1,2-Dichloroethylene	ND	4.3	ug/L						
1,2-Dichloropropane	ND	4.3	ug/L						
cis-1,3-Dichloropropylene	ND	4.3	ug/L						
trans-1,3-Dichloropropylene	ND	4.3	ug/L						
1,3-Dichloropropene, total	ND	4.3	ug/L						
1,1,1,2-Tetrachloroethane	ND	4.3	ug/L						
1,1,2,2-Tetrachloroethane	ND	4.3	ug/L						
Tetrachloroethylene	ND	4.3	ug/L						
1,1,2-Trichloroethane	ND	4.3	ug/L						
Trichloroethylene	ND	4.3	ug/L						
Surrogate: 4-Bromofluorobenzene	690		ug/L		100	50-140			
Surrogate: Dibromofluoromethane	672		ug/L		97.7	50-140			
Surrogate: Toluene-d8	701		ug/L		102	50-140			
Semi-Volatiles									
Acenaphthene	ND	0.02	ug/g						
Acenaphthylene	ND	0.02	ug/g						
Anthracene	ND	0.02	ug/g						
Benzo [a] anthracene	ND	0.02	ug/g						
Benzo [a] pyrene	ND	0.02	ug/g						
Benzo [b] fluoranthene	ND	0.02	ug/g						
Benzo [g,h,i] perylene	ND	0.02	ug/g						
Benzo [k] fluoranthene	ND	0.02	ug/g						
Chrysene	ND	0.02	ug/g						
Dibenzo [a,h] anthracene	ND	0.02	ug/g						
Fluoranthene	ND	0.02	ug/g						
Fluorene	ND	0.02	ug/g						
Indeno [1,2,3-cd] pyrene	ND	0.02	ug/g						
1-Methylnaphthalene	ND	0.02	ug/g						
2-Methylnaphthalene	ND	0.02	ug/g						
Methylnaphthalene (1&2)	ND	0.04	ug/g						
Naphthalene	ND	0.01	ug/g						
Phenanthrene	ND	0.02	ug/g						
Pyrene	ND	0.02	ug/g						
Surrogate: 2-Fluorobiphenyl	0.849		ug/g		63.7	50-140			
Surrogate: Terphenyl-d14	0.968		ug/g		72.6	50-140			
Volatiles									
Acetone	ND	0.50	ug/g						
Benzene	ND	0.02	ug/g						
Bromodichloromethane	ND	0.05	ug/g						
Bromoform	ND	0.05	ug/g						
Bromomethane	ND	0.05	ug/g						
Carbon Tetrachloride	ND	0.05	ug/g						
Chlorobenzene	ND	0.05	ug/g						
Chloroform	ND	0.05	ug/g						
Dibromochloromethane	ND	0.05	ug/g						
Dichlorodifluoromethane	ND	0.05	ug/g						
1,2-Dichlorobenzene	ND	0.05	ug/g						
1,3-Dichlorobenzene	ND	0.05	ug/g						
1,4-Dichlorobenzene	ND	0.05	ug/g						
1,1-Dichloroethane	ND	0.05	ug/g						
1,2-Dichloroethane	ND	0.05	ug/g						
1,1-Dichloroethylene	ND	0.05	ug/g						
cis-1,2-Dichloroethylene	ND	0.05	ug/g						
trans-1,2-Dichloroethylene	ND	0.05	ug/g						
1,2-Dichloropropane	ND	0.05	ug/g						
cis-1,3-Dichloropropylene	ND	0.05	ug/g						
trans-1,3-Dichloropropylene	ND	0.05	ug/g						
1,3-Dichloropropene, total	ND	0.05	ug/g						
Ethylbenzene	ND	0.05	ug/g						
Ethylene dibromide (dibromoethane, 1,2-	ND	0.05	ug/g						

Certificate of Analysis

Report Date: 10-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hexane	ND	0.05	ug/g						
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g						
Methyl Isobutyl Ketone	ND	0.50	ug/g						
Methyl tert-butyl ether	ND	0.05	ug/g						
Methylene Chloride	ND	0.05	ug/g						
Styrene	ND	0.05	ug/g						
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g						
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g						
Tetrachloroethylene	ND	0.05	ug/g						
Toluene	ND	0.05	ug/g						
1,1,1-Trichloroethane	ND	0.05	ug/g						
1,1,2-Trichloroethane	ND	0.05	ug/g						
Trichloroethylene	ND	0.05	ug/g						
Trichlorofluoromethane	ND	0.05	ug/g						
Vinyl chloride	ND	0.02	ug/g						
m,p-Xylenes	ND	0.05	ug/g						
o-Xylene	ND	0.05	ug/g						
Xylenes, total	ND	0.05	ug/g						
Surrogate: 4-Bromofluorobenzene	7.46		ug/g		93.2	50-140			
Surrogate: Dibromofluoromethane	7.32		ug/g		91.5	50-140			
Surrogate: Toluene-d8	9.96		ug/g		124	50-140			

Certificate of Analysis

Report Date: 10-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
SAR	1.74	0.01	N/A	1.71			1.7	30	
Conductivity	770	5	uS/cm	772			0.3	5	
Cyanide, free	ND	0.03	ug/g	ND			NC	35	
pH	7.49	0.05	pH Units	7.49			0.0	2.3	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g	ND			NC	40	
Metals									
Antimony	ND	1.0	ug/g	1.1			NC	30	
Arsenic	2.9	1.0	ug/g	2.9			1.5	30	
Barium	74.3	1.0	ug/g	75.8			2.0	30	
Beryllium	ND	0.5	ug/g	ND			NC	30	
Boron	5.9	5.0	ug/g	5.9			0.8	30	
Cadmium	ND	0.5	ug/g	ND			NC	30	
Chromium	17.4	5.0	ug/g	17.3			0.5	30	
Cobalt	4.1	1.0	ug/g	4.2			2.7	30	
Copper	15.8	5.0	ug/g	15.6			1.3	30	
Lead	45.1	1.0	ug/g	45.4			0.7	30	
Molybdenum	ND	1.0	ug/g	ND			NC	30	
Nickel	9.7	5.0	ug/g	9.5			2.0	30	
Selenium	ND	1.0	ug/g	ND			NC	30	
Silver	0.5	0.3	ug/g	0.5			5.1	30	
Thallium	ND	1.0	ug/g	ND			NC	30	
Uranium	ND	1.0	ug/g	ND			NC	30	
Vanadium	24.5	10.0	ug/g	24.8			1.0	30	
Zinc	74.9	20.0	ug/g	73.5			1.9	30	
mSPLP Leachate Metals									
Antimony	4.53	0.5	ug/L	4.19			7.9	50	
Arsenic	1.25	1.0	ug/L	1.16			7.7	50	
Barium	37.3	1.0	ug/L	35.8			4.1	50	
Beryllium	ND	0.5	ug/L	ND			NC	50	
Boron	41.8	10.0	ug/L	40.4			3.3	50	
Cadmium	ND	0.2	ug/L	ND			NC	50	
Chromium	1.32	1.0	ug/L	1.27			4.1	50	
Cobalt	ND	0.5	ug/L	ND			NC	50	
Copper	8.88	0.5	ug/L	8.71			1.9	50	
Lead	21.7	0.2	ug/L	21.1			2.7	50	
Molybdenum	9.11	0.5	ug/L	8.88			2.5	50	
Nickel	1.42	1.0	ug/L	1.47			4.1	50	
Selenium	ND	1.0	ug/L	ND			NC	50	
Silver	ND	0.2	ug/L	ND			NC	50	
Thallium	ND	0.5	ug/L	ND			NC	50	
Uranium	0.44	0.2	ug/L	0.42			4.3	50	
Vanadium	2.15	0.5	ug/L	1.98			8.0	50	
Zinc	15.9	5.0	ug/L	15.8			0.6	50	
mSPLP Leachate VOCs									
Bromomethane	ND	4.3	ug/L	ND			NC	50	
Carbon Tetrachloride	ND	1.7	ug/L	ND			NC	50	
Chloroform	ND	4.3	ug/L	ND			NC	50	
Ethylene dibromide (dibromoethane, 1,2-	ND	1.7	ug/L	ND			NC	50	
1,2-Dichlorobenzene	ND	4.3	ug/L	ND			NC	50	
1,4-Dichlorobenzene	ND	4.3	ug/L	ND			NC	50	
1,2-Dichloroethane	ND	1.7	ug/L	ND			NC	50	
1,1-Dichloroethane	ND	4.3	ug/L	ND			NC	50	
1,1-Dichloroethylene	ND	4.3	ug/L	ND			NC	50	
cis-1,2-Dichloroethylene	ND	1.7	ug/L	ND			NC	50	
trans-1,2-Dichloroethylene	ND	4.3	ug/L	ND			NC	50	

Certificate of Analysis

Report Date: 10-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1,2-Dichloropropane	ND	4.3	ug/L	ND			NC	50	
cis-1,3-Dichloropropylene	ND	4.3	ug/L	ND			NC	50	
trans-1,3-Dichloropropylene	ND	4.3	ug/L	ND			NC	50	
1,3-Dichloropropene, total	ND	4.3	ug/L	ND			NC	200	
1,1,1,2-Tetrachloroethane	ND	4.3	ug/L	ND			NC	50	
1,1,2,2-Tetrachloroethane	ND	4.3	ug/L	ND			NC	50	
Tetrachloroethylene	ND	4.3	ug/L	ND			NC	50	
1,1,2-Trichloroethane	ND	4.3	ug/L	ND			NC	50	
Trichloroethylene	ND	4.3	ug/L	ND			NC	50	
Surrogate: 4-Bromofluorobenzene	703		ug/L		102	50-140			
Surrogate: Dibromofluoromethane	750		ug/L		109	50-140			
Surrogate: Toluene-d8	698		ug/L		102	50-140			
Physical Characteristics									
% Solids	91.7	0.1	% by Wt.	89.7			2.2	25	
Semi-Volatiles									
Acenaphthene	0.036	0.02	ug/g	ND			NC	40	
Acenaphthylene	0.039	0.02	ug/g	0.027			34.3	40	
Anthracene	0.086	0.02	ug/g	0.042			NC	40	
Benzo [a] anthracene	0.199	0.02	ug/g	0.117			NC	40	
Benzo [a] pyrene	0.175	0.02	ug/g	0.112			NC	40	
Benzo [b] fluoranthene	0.192	0.02	ug/g	0.123			NC	40	
Benzo [g,h,i] perylene	0.118	0.02	ug/g	0.076			NC	40	
Benzo [k] fluoranthene	0.100	0.02	ug/g	0.062			NC	40	
Chrysene	0.182	0.02	ug/g	0.109			NC	40	
Dibenzo [a,h] anthracene	0.028	0.02	ug/g	ND			NC	40	
Fluoranthene	0.496	0.02	ug/g	0.278			NC	40	
Fluorene	0.033	0.02	ug/g	ND			NC	40	
Indeno [1,2,3-cd] pyrene	0.096	0.02	ug/g	0.064			NC	40	
1-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
2-Methylnaphthalene	ND	0.02	ug/g	ND			NC	40	
Naphthalene	0.012	0.01	ug/g	ND			NC	40	
Phenanthrene	0.403	0.02	ug/g	0.170			NC	40	
Pyrene	0.420	0.02	ug/g	0.235			NC	40	
Surrogate: 2-Fluorobiphenyl	0.866		ug/g		56.1	50-140			
Surrogate: Terphenyl-d14	0.793		ug/g		51.4	50-140			
Volatiles									
Acetone	ND	0.50	ug/g	ND			NC	50	
Benzene	ND	0.02	ug/g	ND			NC	50	
Bromodichloromethane	ND	0.05	ug/g	ND			NC	50	
Bromoform	ND	0.05	ug/g	ND			NC	50	
Bromomethane	ND	0.05	ug/g	ND			NC	50	
Carbon Tetrachloride	ND	0.05	ug/g	ND			NC	50	
Chlorobenzene	ND	0.05	ug/g	ND			NC	50	
Chloroform	ND	0.05	ug/g	ND			NC	50	
Dibromochloromethane	ND	0.05	ug/g	ND			NC	50	
Dichlorodifluoromethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,3-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,4-Dichlorobenzene	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
cis-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
trans-1,2-Dichloroethylene	ND	0.05	ug/g	ND			NC	50	
1,2-Dichloropropane	ND	0.05	ug/g	ND			NC	50	
cis-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
trans-1,3-Dichloropropylene	ND	0.05	ug/g	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g	ND			NC	50	

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Client: Stantec Consulting Ltd. (Ottawa)

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Client PO:

Project Description: 122170424

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Ethylene dibromide (dibromoethane, 1,2-	ND	0.05	ug/g	ND			NC	50	
Hexane	ND	0.05	ug/g	ND			NC	50	
Methyl Ethyl Ketone (2-Butanone)	ND	0.50	ug/g	ND			NC	50	
Methyl Isobutyl Ketone	ND	0.50	ug/g	ND			NC	50	
Methyl tert-butyl ether	ND	0.05	ug/g	ND			NC	50	
Methylene Chloride	ND	0.05	ug/g	ND			NC	50	
Styrene	ND	0.05	ug/g	ND			NC	50	
1,1,1,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2,2-Tetrachloroethane	ND	0.05	ug/g	ND			NC	50	
Tetrachloroethylene	ND	0.05	ug/g	ND			NC	50	
Toluene	ND	0.05	ug/g	ND			NC	50	
1,1,1-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
1,1,2-Trichloroethane	ND	0.05	ug/g	ND			NC	50	
Trichloroethylene	ND	0.05	ug/g	ND			NC	50	
Trichlorofluoromethane	ND	0.05	ug/g	ND			NC	50	
Vinyl chloride	ND	0.02	ug/g	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g	ND			NC	50	
o-Xylene	ND	0.05	ug/g	ND			NC	50	
Surrogate: 4-Bromofluorobenzene	8.10		ug/g		96.2	50-140			
Surrogate: Dibromofluoromethane	8.41		ug/g		100	50-140			
Surrogate: Toluene-d8	10.8		ug/g		128	50-140			

Certificate of Analysis

Report Date: 10-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
General Inorganics									
Cyanide, free	0.192	0.03	ug/g	ND	55.1	50-150			
Hydrocarbons									
F1 PHCs (C6-C10)	175	7	ug/g	ND	87.4	80-120			
F2 PHCs (C10-C16)	94	4	ug/g	ND	118	80-120			
F3 PHCs (C16-C34)	184	8	ug/g	ND	94.1	80-120			
F4 PHCs (C34-C50)	134	6	ug/g	ND	108	80-120			
F4G PHCs (gravimetric)	820	50	ug/g	ND	82.0	80-120			
Metals									
Antimony	36.8	1.0	ug/g	ND	72.7	70-130			
Arsenic	51.1	1.0	ug/g	1.2	99.8	70-130			
Barium	76.4	1.0	ug/g	30.3	92.2	70-130			
Beryllium	51.6	0.5	ug/g	ND	103	70-130			
Boron	49.4	5.0	ug/g	ND	94.0	70-130			
Cadmium	48.0	0.5	ug/g	ND	95.7	70-130			
Chromium	58.7	5.0	ug/g	6.9	104	70-130			
Cobalt	51.1	1.0	ug/g	1.7	98.8	70-130			
Copper	54.7	5.0	ug/g	6.2	97.0	70-130			
Lead	62.2	1.0	ug/g	18.2	88.1	70-130			
Molybdenum	48.2	1.0	ug/g	ND	95.8	70-130			
Nickel	53.0	5.0	ug/g	ND	98.3	70-130			
Selenium	45.6	1.0	ug/g	ND	90.7	70-130			
Silver	43.2	0.3	ug/g	ND	85.9	70-130			
Thallium	44.8	1.0	ug/g	ND	89.4	70-130			
Uranium	47.7	1.0	ug/g	ND	94.7	70-130			
Vanadium	61.1	10.0	ug/g	ND	102	70-130			
Zinc	75.1	20.0	ug/g	29.4	91.4	70-130			
mSPLP Leachate Metals									
Antimony	48.0	0.5	ug/L	4.19	87.6	70-130			
Arsenic	52.4	1.0	ug/L	1.16	103	70-130			
Barium	83.7	1.0	ug/L	35.8	95.8	70-130			
Beryllium	50.7	0.5	ug/L	ND	101	70-130			
Boron	90.4	10.0	ug/L	40.4	99.9	70-130			
Cadmium	47.0	0.2	ug/L	ND	93.8	70-130			
Chromium	50.6	1.0	ug/L	1.27	98.7	70-130			
Cobalt	49.5	0.5	ug/L	ND	98.1	70-130			
Copper	53.3	0.5	ug/L	8.71	89.2	70-130			
Lead	66.6	0.2	ug/L	21.1	90.9	70-130			
Molybdenum	57.7	0.5	ug/L	8.88	97.6	70-130			
Nickel	48.1	1.0	ug/L	1.47	93.2	70-130			
Selenium	49.8	1.0	ug/L	ND	98.2	70-130			
Silver	47.9	0.2	ug/L	ND	95.6	70-130			
Thallium	47.3	0.5	ug/L	ND	94.5	70-130			
Uranium	49.9	0.2	ug/L	0.42	99.0	70-130			
Vanadium	53.0	0.5	ug/L	1.98	102	70-130			
Zinc	62.3	5.0	ug/L	15.8	93.0	70-130			
mSPLP Leachate VOCs									
Bromomethane	391	4.3	ug/L	ND	114	50-140			

Certificate of Analysis

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Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Carbon Tetrachloride	325	1.7	ug/L	ND	94.4	50-140			
Chloroform	367	4.3	ug/L	ND	107	50-140			
Ethylene dibromide (dibromoethane, 1,2-	386	1.7	ug/L	ND	112	50-140			
1,2-Dichlorobenzene	362	4.3	ug/L	ND	105	50-140			
1,4-Dichlorobenzene	354	4.3	ug/L	ND	103	50-140			
1,2-Dichloroethane	273	1.7	ug/L	ND	79.3	50-140			
1,1-Dichloroethane	340	4.3	ug/L	ND	98.7	50-140			
1,1-Dichloroethylene	406	4.3	ug/L	ND	118	50-140			
cis-1,2-Dichloroethylene	310	1.7	ug/L	ND	90.2	50-140			
trans-1,2-Dichloroethylene	387	4.3	ug/L	ND	113	50-140			
1,2-Dichloropropane	249	4.3	ug/L	ND	72.3	50-140			
cis-1,3-Dichloropropylene	341	4.3	ug/L	ND	99.1	50-140			
trans-1,3-Dichloropropylene	377	4.3	ug/L	ND	110	50-140			
1,1,1,2-Tetrachloroethane	440	4.3	ug/L	ND	128	50-140			
1,1,2,2-Tetrachloroethane	359	4.3	ug/L	ND	104	50-140			
Tetrachloroethylene	375	4.3	ug/L	ND	109	50-140			
1,1,2-Trichloroethane	256	4.3	ug/L	ND	74.4	50-140			
Trichloroethylene	271	4.3	ug/L	ND	78.8	50-140			
Surrogate: 4-Bromofluorobenzene	729		ug/L		106	50-140			
Surrogate: Dibromofluoromethane	742		ug/L		108	50-140			
Surrogate: Toluene-d8	668		ug/L		97.0	50-140			
Semi-Volatiles									
Acenaphthene	0.280	0.02	ug/g	ND	145	50-140			QM-06
Acenaphthylene	0.196	0.02	ug/g	0.027	87.6	50-140			
Anthracene	0.479	0.02	ug/g	0.042	226	50-140			QM-06
Benzo [a] anthracene	0.101	0.02	ug/g	ND	60.6	50-140			
Benzo [a] pyrene	0.552	0.02	ug/g	0.112	228	50-140			QM-06
Benzo [b] fluoranthene	0.613	0.02	ug/g	0.123	254	50-140			QM-06
Benzo [g,h,i] perylene	0.336	0.02	ug/g	0.076	135	50-140			
Benzo [k] fluoranthene	0.405	0.02	ug/g	0.062	178	50-140			QM-06
Chrysene	0.103	0.02	ug/g	ND	61.8	50-140			
Dibenzo [a,h] anthracene	0.181	0.02	ug/g	ND	93.9	50-140			
Fluoranthene	0.127	0.02	ug/g	ND	75.9	50-140			
Fluorene	0.289	0.02	ug/g	ND	150	50-140			QM-06
Indeno [1,2,3-cd] pyrene	0.318	0.02	ug/g	0.064	132	50-140			
1-Methylnaphthalene	0.124	0.02	ug/g	ND	64.3	50-140			
2-Methylnaphthalene	0.131	0.02	ug/g	ND	68.0	50-140			
Naphthalene	0.164	0.01	ug/g	ND	85.1	50-140			
Phenanthrene	0.149	0.02	ug/g	ND	89.3	50-140			
Pyrene	0.125	0.02	ug/g	ND	74.8	50-140			
Surrogate: 2-Fluorobiphenyl	0.973		ug/g		63.1	50-140			
Surrogate: Terphenyl-d14	1.02		ug/g		65.9	50-140			
Volatiles									
Acetone	7.09	0.50	ug/g	ND	70.9	50-140			
Benzene	4.00	0.02	ug/g	ND	100	60-130			
Bromodichloromethane	3.88	0.05	ug/g	ND	97.0	60-130			
Bromoform	3.76	0.05	ug/g	ND	94.0	60-130			
Bromomethane	2.78	0.05	ug/g	ND	69.4	50-140			
Carbon Tetrachloride	3.53	0.05	ug/g	ND	88.2	60-130			
Chlorobenzene	4.05	0.05	ug/g	ND	101	60-130			

Certificate of Analysis

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Client: Stantec Consulting Ltd. (Ottawa)

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Client PO:

Project Description: 122170424

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Chloroform	3.95	0.05	ug/g	ND	98.9	60-130			
Dibromochloromethane	3.79	0.05	ug/g	ND	94.6	60-130			
Dichlorodifluoromethane	2.87	0.05	ug/g	ND	71.8	50-140			
1,2-Dichlorobenzene	3.88	0.05	ug/g	ND	96.9	60-130			
1,3-Dichlorobenzene	3.35	0.05	ug/g	ND	83.8	60-130			
1,4-Dichlorobenzene	3.35	0.05	ug/g	ND	83.8	60-130			
1,1-Dichloroethane	4.20	0.05	ug/g	ND	105	60-130			
1,2-Dichloroethane	3.59	0.05	ug/g	ND	89.8	60-130			
1,1-Dichloroethylene	4.52	0.05	ug/g	ND	113	60-130			
cis-1,2-Dichloroethylene	4.21	0.05	ug/g	ND	105	60-130			
trans-1,2-Dichloroethylene	4.24	0.05	ug/g	ND	106	60-130			
1,2-Dichloropropane	4.12	0.05	ug/g	ND	103	60-130			
cis-1,3-Dichloropropylene	4.16	0.05	ug/g	ND	104	60-130			
trans-1,3-Dichloropropylene	4.40	0.05	ug/g	ND	110	60-130			
Ethylbenzene	4.01	0.05	ug/g	ND	100	60-130			
Ethylene dibromide (dibromoethane, 1,2-	3.91	0.05	ug/g	ND	97.8	60-130			
Hexane	5.02	0.05	ug/g	ND	126	60-130			
Methyl Ethyl Ketone (2-Butanone)	10.6	0.50	ug/g	ND	106	50-140			
Methyl Isobutyl Ketone	10.2	0.50	ug/g	ND	102	50-140			
Methyl tert-butyl ether	9.76	0.05	ug/g	ND	97.6	50-140			
Methylene Chloride	4.13	0.05	ug/g	ND	103	60-130			
Styrene	4.18	0.05	ug/g	ND	104	60-130			
1,1,1,2-Tetrachloroethane	3.66	0.05	ug/g	ND	91.5	60-130			
1,1,2,2-Tetrachloroethane	3.70	0.05	ug/g	ND	92.5	60-130			
Tetrachloroethylene	3.86	0.05	ug/g	ND	96.6	60-130			
Toluene	4.13	0.05	ug/g	ND	103	60-130			
1,1,1-Trichloroethane	3.57	0.05	ug/g	ND	89.2	60-130			
1,1,2-Trichloroethane	4.06	0.05	ug/g	ND	102	60-130			
Trichloroethylene	4.00	0.05	ug/g	ND	100	60-130			
Trichlorofluoromethane	3.43	0.05	ug/g	ND	85.7	50-140			
Vinyl chloride	3.04	0.02	ug/g	ND	76.0	50-140			
m,p-Xylenes	7.62	0.05	ug/g	ND	95.3	60-130			
o-Xylene	3.96	0.05	ug/g	ND	98.9	60-130			
Surrogate: 4-Bromofluorobenzene	7.40		ug/g		92.5	50-140			
Surrogate: Dibromofluoromethane	7.63		ug/g		95.4	50-140			
Surrogate: Toluene-d8	8.65		ug/g		108	50-140			

Certificate of Analysis

Client: Stantec Consulting Ltd. (Ottawa)

Client PO:

Report Date: 10-Jul-2023

Order Date: 26-Jun-2023

Project Description: 122170424

Qualifier Notes:

Sample Qualifiers :

- 1 : GC-FID signal did not return to baseline by C50
- 2 : Some peak(s) in the GC-FID Chromatogram are not typical of petroleum hydrocarbon distillates. May be the result of high concentrations of non-mineral based compounds not completely removed by the method cleanup. Results may be biased high.
- 5 : Subcontracted analysis - Testmark.

QC Qualifiers :

QM-06 Due to noted non-homogeneity of the QC sample matrix, the spike recoveries were out side the accepted range. Batch data accepted based on other QC.

Sample Data Revisions

None

Work Order Revisions / Comments:

None

Other Report Notes:

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

Soil results are reported on a dry weight basis when the units are denoted with 'dry'.
Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.
- F1 range corrected for BTEX.
- F2 to F3 ranges corrected for appropriate PAHs where available.
- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.
- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC crite
- When reported, data for F4G has been processed using a silica gel cleanup.



Parcel Order Number (Lab Use Only) 2326112 = JN (544) 2326109 = TCLP	Chain Of Custody (Lab Use Only) No 71805

Client Name: STANTEC	Project Ref: 122170424	Page 1 of 2
Contact Name: DYLAN HEMMING	Quote #:	Turnaround Time ☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular
Address: 1331 CLYDE AVE OTTAWA ON	PO #:	
Telephone:	E-mail: DYLAN.HEMMING@STANTEC.COM	
		Date Required: _____

☒ REG 153/04 ☒ REG 406/19	Other Regulation	Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)		Required Analysis														
☐ Table 1 ☐ Res/Park ☐ Med/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ Table _____ For RSC: ☒ Yes ☐ No	☐ REG 558 ☐ PWQO ☐ CCME ☐ MISA ☐ SU - Sani ☐ SU - Storm Mun: _____ ☐ Other: _____	Matrix	Air Volume	# of Containers	Sample Taken	GRAIN SIZE	SPLP	FOC	VOC	PHL FI-F4	PAH	IFP	Metals/Inorg.	PH, EC, SAR				
Sample ID/Location Name					Date	Time												
1	BH23-1	S	6	6/26/23	0830	X	X	X	X	X	X	X	X					
2	QC-01	S	1		0830			X										
3	QC-02	S	2		0900				X	X	X	X	X					
4	BH23-2	S	2		0900				X	X	X	X	X					
5	BH23-3	S	2		0930				X	X	X	X	X					
6	BH23-4	S	2		1000				X	X	X	X	X					
7	BH23-5	S	2		1030				X	X	X	X	X					
8	BH23-6	S	3		1100	X			X	X	X	X	X					
9	BH23-7	S	6		1130	X	X	X	X	X	X	X	X					
10	BH23-8	S	6		1200	X	X	X	X	X	X	X	X					

Comments:		Method of Delivery: Walk In	
Relinquished By (Sign): [Signature]	Received By Driver/Depot:	Received at Lab: [Signature] 1400	Verified By: SO
Relinquished By (Print): TREICE SANCHEZ	Date/Time:	Date/Time: June 26/23	Date/Time: June 26, 2023 7:12 pm
Date/Time: 6/26/23	Temperature: _____ °C	Temperature: 18.3 °C	pH Verified: ☐ By: _____

Certificate of Analysis

Stantec Consulting Ltd. (Ottawa)

1331 Clyde Avenue Suite 400

Ottawa, ON K2C 3G4

Attn: Dylan Hemmings

Client PO:

Project: 122170424

Custody: 71805, 71807

Report Date: 6-Jul-2023

Order Date: 26-Jun-2023

Order #: 2326109

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

Paracel ID	Client ID
2326109-01	TCLP

Approved By:



Dale Robertson, BSc

Laboratory Director

Certificate of Analysis

Report Date: 06-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Ignitability	based on EPA 1030	28-Jun-23	28-Jun-23
Metals, ICP-MS	TCLP EPA 6020 - Digestion - ICP-MS	28-Jun-23	28-Jun-23
PCBs, total	SW846 8082A - GC-ECD	28-Jun-23	29-Jun-23
pH, soil	EPA 150.1 - pH probe @ 25 °C, CaCl buffered ext.	28-Jun-23	29-Jun-23
REG 558 - Cyanide	TCLP MOE E3015- Auto Colour	28-Jun-23	28-Jun-23
REG 558 - Fluoride	TCLP EPA 340.2 - ISE	28-Jun-23	28-Jun-23
REG 558 - Mercury by CVAA	TCLP EPA 7470A, CVAA	28-Jun-23	28-Jun-23
REG 558 - NO3/NO2	TCLP EPA 300.1 - IC	5-Jul-23	5-Jul-23
REG 558 - SVOCs	EPA 625 - GC-MS	30-Jun-23	30-Jun-23
REG 558 - VOCs	TCLP ZHE EPA 624 - P&T GC-MS	28-Jun-23	28-Jun-23
Solids, %	CWS Tier 1 - Gravimetric	29-Jun-23	29-Jun-23

Certificate of Analysis

Report Date: 06-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

Client ID:	TCLP	-	-	-	-
Sample Date:	26-Jun-23 12:30	-	-	-	-
Sample ID:	2326109-01	-	-	-	-
Matrix:	Soil	-	-	-	-
MDL/Units					

Physical Characteristics

% Solids	0.1 % by Wt.	93.5	-	-	-	-
Ignitability	N/A	Negative	-	-	-	-

EPA 1311 - TCLP Leachate Inorganics

Fluoride	0.05 mg/L	0.28	-	-	-	-
Nitrate as N	1 mg/L	<1	-	-	-	-
Nitrite as N	1 mg/L	<1	-	-	-	-
Cyanide, free	0.02 mg/L	<0.02	-	-	-	-

EPA 1311 - TCLP Leachate Metals

Arsenic	0.05 mg/L	<0.05	-	-	-	-
Barium	0.05 mg/L	0.91	-	-	-	-
Boron	0.1 mg/L	<0.10	-	-	-	-
Cadmium	0.01 mg/L	<0.01	-	-	-	-
Chromium	0.05 mg/L	<0.05	-	-	-	-
Lead	0.05 mg/L	<0.05	-	-	-	-
Mercury	0.005 mg/L	<0.005	-	-	-	-
Selenium	0.05 mg/L	<0.05	-	-	-	-
Silver	0.05 mg/L	<0.05	-	-	-	-
Uranium	0.05 mg/L	<0.05	-	-	-	-

EPA 1311 - TCLP Leachate Volatiles

Benzene	0.005 mg/L	<0.005	-	-	-	-
Carbon Tetrachloride	0.005 mg/L	<0.005	-	-	-	-
Chlorobenzene	0.004 mg/L	<0.004	-	-	-	-
Chloroform	0.006 mg/L	<0.006	-	-	-	-
1,2-Dichlorobenzene	0.004 mg/L	<0.004	-	-	-	-
1,4-Dichlorobenzene	0.004 mg/L	<0.004	-	-	-	-

Certificate of Analysis

Report Date: 06-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

Client ID:	TCLP	-	-	-	-
Sample Date:	26-Jun-23 12:30	-	-	-	-
Sample ID:	2326109-01	-	-	-	-
Matrix:	Soil	-	-	-	-
MDL/Units					

EPA 1311 - TCLP Leachate Volatiles

1,2-Dichloroethane	0.005 mg/L	<0.005	-	-	-	-
1,1-Dichloroethylene	0.006 mg/L	<0.006	-	-	-	-
Methyl Ethyl Ketone (2-Butanone)	0.3 mg/L	<0.30	-	-	-	-
Methylene Chloride	0.04 mg/L	<0.04	-	-	-	-
Tetrachloroethylene	0.005 mg/L	<0.005	-	-	-	-
Trichloroethylene	0.004 mg/L	<0.004	-	-	-	-
Vinyl chloride	0.005 mg/L	<0.005	-	-	-	-
Toluene-d8	Surrogate	104%	-	-	-	-
4-Bromofluorobenzene	Surrogate	104%	-	-	-	-
Dibromofluoromethane	Surrogate	111%	-	-	-	-

EPA 1311 - TCLP Leachate Organics

2,4-Dinitrotoluene	0.001 mg/L	<0.001	-	-	-	-
Benzo [a] pyrene	0.001 mg/L	<0.001	-	-	-	-
Nitrobenzene	0.001 mg/L	<0.001	-	-	-	-
Hexachloroethane	0.001 mg/L	<0.001	-	-	-	-
Hexachlorobenzene	0.05 mg/L	<0.050	-	-	-	-
Hexachlorobutadiene	0.001 mg/L	<0.001	-	-	-	-
2,3,4,6-Tetrachlorophenol	0.002 mg/L	<0.002	-	-	-	-
2,4,5-Trichlorophenol	0.001 mg/L	<0.001	-	-	-	-
2,4,6-Trichlorophenol	0.001 mg/L	<0.001	-	-	-	-
2,4-Dichlorophenol	0.001 mg/L	<0.001	-	-	-	-
2-Methylphenol	0.001 mg/L	<0.001	-	-	-	-
3/4-Methylphenol	0.001 mg/L	<0.001	-	-	-	-
Pentachlorophenol	0.005 mg/L	<0.005	-	-	-	-
2,4,6-Tribromophenol	Surrogate	135%	-	-	-	-

Certificate of Analysis

Report Date: 06-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

Client ID:	TCLP	-	-	-	
Sample Date:	26-Jun-23 12:30	-	-	-	-
Sample ID:	2326109-01	-	-	-	
Matrix:	Soil	-	-	-	
MDL/Units					

EPA 1311 - TCLP Leachate Organics

2-Fluorophenol	Surrogate	32.6% [1]	-	-	-	-
2-Fluorobiphenyl	Surrogate	76.9%	-	-	-	-
Terphenyl-d14	Surrogate	105%	-	-	-	-

General Inorganics

pH	0.05 pH Units	7.62	-	-	-	-

PCBs

PCBs, total	0.05 ug/g	<0.05	-	-	-	-
Decachlorobiphenyl	Surrogate	82.0%	-	-	-	-

Certificate of Analysis

Report Date: 06-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
EPA 1311 - TCLP Leachate Inorganics								
Fluoride	ND	0.05	mg/L					
Nitrate as N	ND	1	mg/L					
Nitrite as N	ND	1	mg/L					
Cyanide, free	ND	0.02	mg/L					
EPA 1311 - TCLP Leachate Metals								
Arsenic	ND	0.05	mg/L					
Barium	ND	0.05	mg/L					
Boron	ND	0.10	mg/L					
Cadmium	ND	0.01	mg/L					
Chromium	ND	0.05	mg/L					
Lead	ND	0.05	mg/L					
Mercury	ND	0.005	mg/L					
Selenium	ND	0.05	mg/L					
Silver	ND	0.05	mg/L					
Uranium	ND	0.05	mg/L					
EPA 1311 - TCLP Leachate Organics								
2,4-Dinitrotoluene	ND	0.001	mg/L					
Benzo [a] pyrene	ND	0.001	mg/L					
Nitrobenzene	ND	0.001	mg/L					
Hexachloroethane	ND	0.001	mg/L					
Hexachlorobenzene	ND	0.050	mg/L					
Hexachlorobutadiene	ND	0.001	mg/L					
2,3,4,6-Tetrachlorophenol	ND	0.002	mg/L					
2,4,5-Trichlorophenol	ND	0.001	mg/L					
2,4,6-Trichlorophenol	ND	0.001	mg/L					
2,4-Dichlorophenol	ND	0.001	mg/L					
2-Methylphenol	ND	0.001	mg/L					
3/4-Methylphenol	ND	0.001	mg/L					
Pentachlorophenol	ND	0.005	mg/L					
Surrogate: 2,4,6-Tribromophenol	0.038		%	95.9	40-150			
Surrogate: 2-Fluorobiphenyl	0.011		%	55.8	40-150			

Certificate of Analysis

Report Date: 06-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	%REC	%REC Limit	RPD	RPD Limit	Notes
Surrogate: 2-Fluorophenol	0.0050		%	12.4	40-150			S-GC
Surrogate: Terphenyl-d14	0.017		%	83.2	40-150			
EPA 1311 - TCLP Leachate Volatiles								
Benzene	ND	0.005	mg/L					
Carbon Tetrachloride	ND	0.005	mg/L					
Chlorobenzene	ND	0.004	mg/L					
Chloroform	ND	0.006	mg/L					
1,2-Dichlorobenzene	ND	0.004	mg/L					
1,4-Dichlorobenzene	ND	0.004	mg/L					
1,2-Dichloroethane	ND	0.005	mg/L					
1,1-Dichloroethylene	ND	0.006	mg/L					
Methyl Ethyl Ketone (2-Butanone)	ND	0.30	mg/L					
Methylene Chloride	ND	0.04	mg/L					
Tetrachloroethylene	ND	0.005	mg/L					
Trichloroethylene	ND	0.004	mg/L					
Vinyl chloride	ND	0.005	mg/L					
Surrogate: 4-Bromofluorobenzene	0.690		%	100	83-134			
Surrogate: Dibromofluoromethane	0.672		%	97.7	78-124			
Surrogate: Toluene-d8	0.701		%	102	76-118			
PCBs								
PCBs, total	ND	0.05	ug/g					
Surrogate: Decachlorobiphenyl	0.0847		%	84.7	60-140			

Certificate of Analysis

Report Date: 06-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
EPA 1311 - TCLP Leachate Inorganics									
Fluoride	0.28	0.05	mg/L	0.28			0.3	20	
Nitrate as N	1	1	mg/L	1			2.9	20	
Nitrite as N	ND	1	mg/L	ND			NC	20	
Cyanide, free	ND	0.02	mg/L	ND			NC	20	
EPA 1311 - TCLP Leachate Metals									
Arsenic	ND	0.05	mg/L	ND			NC	29	
Barium	0.676	0.05	mg/L	0.686			1.5	34	
Boron	ND	0.10	mg/L	ND			NC	33	
Cadmium	ND	0.01	mg/L	ND			NC	33	
Chromium	ND	0.05	mg/L	ND			NC	32	
Lead	ND	0.05	mg/L	ND			NC	32	
Mercury	ND	0.005	mg/L	ND			NC	30	
Selenium	ND	0.05	mg/L	ND			NC	28	
Silver	ND	0.05	mg/L	ND			NC	28	
Uranium	ND	0.05	mg/L	ND			NC	27	
EPA 1311 - TCLP Leachate Volatiles									
Benzene	ND	0.005	mg/L	ND			NC	25	
Carbon Tetrachloride	ND	0.005	mg/L	ND			NC	25	
Chlorobenzene	ND	0.004	mg/L	ND			NC	25	
Chloroform	ND	0.006	mg/L	ND			NC	25	
1,2-Dichlorobenzene	ND	0.004	mg/L	ND			NC	25	
1,4-Dichlorobenzene	ND	0.004	mg/L	ND			NC	25	
1,2-Dichloroethane	ND	0.005	mg/L	ND			NC	25	
1,1-Dichloroethylene	ND	0.006	mg/L	ND			NC	25	
Methyl Ethyl Ketone (2-Butanone)	ND	0.30	mg/L	ND			NC	25	
Methylene Chloride	ND	0.04	mg/L	ND			NC	25	
Tetrachloroethylene	ND	0.005	mg/L	ND			NC	25	
Trichloroethylene	ND	0.004	mg/L	ND			NC	25	
Vinyl chloride	ND	0.005	mg/L	ND			NC	25	
Surrogate: 4-Bromofluorobenzene	0.703		%		102	83-134			

Certificate of Analysis

Report Date: 06-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	0.749		%		109	78-124			
Surrogate: Toluene-d8	0.698		%		102	76-118			
General Inorganics									
pH	7.75	0.05	pH Units	7.77			0.3	2.3	
PCBs									
PCBs, total	ND	0.05	ug/g	ND			NC	40	
Surrogate: Decachlorobiphenyl	0.152		%		92.8	60-140			
Physical Characteristics									
% Solids	75.5	0.1	% by Wt.	75.0			0.6	25	

Certificate of Analysis

Report Date: 06-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
EPA 1311 - TCLP Leachate Inorganics									
Fluoride	0.77	0.05	mg/L	0.28	99.3	70-130			
Nitrate as N	12	1	mg/L	1	108	81-112			
Nitrite as N	9	1	mg/L	ND	89.2	76-107			
Cyanide, free	0.040	0.02	mg/L	ND	80.5	52-148			
EPA 1311 - TCLP Leachate Metals									
Arsenic	57.5	0.05	mg/L	0.142	115	83-119			
Barium	58.3	0.05	mg/L	ND	117	80-120			
Boron	62.0	0.10	mg/L	6.96	110	71-128			
Cadmium	54.2	0.01	mg/L	0.115	108	78-119			
Chromium	61.5	0.05	mg/L	ND	123	80-124			
Lead	51.2	0.05	mg/L	0.633	101	77-126			
Mercury	0.0263	0.005	mg/L	ND	87.7	70-130			
Selenium	48.2	0.05	mg/L	0.255	96.0	75-125			
Silver	56.6	0.05	mg/L	ND	113	70-128			
Uranium	51.2	0.05	mg/L	0.362	102	70-131			
EPA 1311 - TCLP Leachate Organics									
2,4-Dinitrotoluene	0.007	0.001	mg/L	ND	65.6	50-140			
Benzo [a] pyrene	0.006	0.001	mg/L	ND	64.0	50-140			
Nitrobenzene	0.005	0.001	mg/L	ND	54.0	50-140			
Hexachloroethane	0.006	0.001	mg/L	ND	55.5	50-140			
Hexachlorobutadiene	0.005	0.001	mg/L	ND	52.0	50-140			
2,3,4,6-Tetrachlorophenol	0.008	0.002	mg/L	ND	77.2	51-140			
2,4,5-Trichlorophenol	0.009	0.001	mg/L	ND	87.6	50-140			
2,4,6-Trichlorophenol	0.009	0.001	mg/L	ND	88.8	50-140			
2,4-Dichlorophenol	0.008	0.001	mg/L	ND	84.1	50-140			
2-Methylphenol	0.007	0.001	mg/L	ND	67.8	50-140			
3/4-Methylphenol	0.007	0.001	mg/L	ND	65.5	50-140			
Pentachlorophenol	0.006	0.005	mg/L	ND	61.5	50-140			
Surrogate: 2,4,6-Tribromophenol	0.055		%		138	40-150			
Surrogate: 2-Fluorobiphenyl	0.0096		%		48.2	40-150			

Certificate of Analysis

Report Date: 06-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
<i>Surrogate: 2-Fluorophenol</i>	0.011		%		28.0	40-150			S-GC
<i>Surrogate: Terphenyl-d14</i>	0.019		%		95.8	40-150			
EPA 1311 - TCLP Leachate Volatiles									
Benzene	0.260	0.005	mg/L	ND	75.6	55-141			
Carbon Tetrachloride	0.325	0.005	mg/L	ND	94.4	49-149			
Chlorobenzene	0.375	0.004	mg/L	ND	109	64-137			
Chloroform	0.367	0.006	mg/L	ND	107	58-138			
1,2-Dichlorobenzene	0.362	0.004	mg/L	ND	105	60-150			
1,4-Dichlorobenzene	0.354	0.004	mg/L	ND	103	63-132			
1,2-Dichloroethane	0.273	0.005	mg/L	ND	79.3	50-140			
1,1-Dichloroethylene	0.406	0.006	mg/L	ND	118	43-153			
Methyl Ethyl Ketone (2-Butanone)	0.521	0.30	mg/L	ND	60.6	26-153			
Methylene Chloride	0.338	0.04	mg/L	ND	98.4	58-149			
Tetrachloroethylene	0.375	0.005	mg/L	ND	109	51-145			
Trichloroethylene	0.271	0.004	mg/L	ND	78.8	52-135			
Vinyl chloride	0.360	0.005	mg/L	ND	105	31-159			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.729		%		106	83-134			
<i>Surrogate: Dibromofluoromethane</i>	0.742		%		108	78-124			
<i>Surrogate: Toluene-d8</i>	0.668		%		97.0	76-118			
PCBs									
PCBs, total	0.915	0.05	ug/g	ND	139	60-140			
<i>Surrogate: Decachlorobiphenyl</i>	0.130		%		79.1	60-140			

Certificate of Analysis

Client: Stantec Consulting Ltd. (Ottawa)

Report Date: 06-Jul-2023

Order Date: 26-Jun-2023

Client PO:

Project Description: 122170424

Qualifier Notes:**Sample Qualifiers :**

- 1: The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QC Qualifiers:

- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

Sample Data Revisions:

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

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

%REC: Percent recovery.

RPD: Relative percent difference.

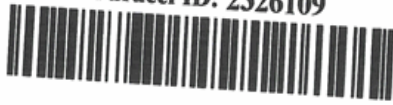
NC: Not Calculated

Soil results are reported on a dry weight basis unless otherwise noted.

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.

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

Paracel ID: 2326109



Paracel Order Number
(Lab Use Only)

2326109 = TCLP
2326112 = Bulk

Chain Of Custody
(Lab Use Only)

No 71805

Client Name: **STANTEC**
Contact Name: **DYLAN HEMMING**
Address: **1331 CLYDE AVE OTTAWA ON**
Telephone:

Project Ref: **122170424**

Quote #:

PO #:

E-mail: **DYLAN.HEMMING@STANTEC.COM**

Page **1** of **2**

Turnaround Time

☐ 1 day ☐ 3 day
☐ 2 day ☒ Regular

Date Required:

☒ REG 153/04 ☒ REG 406/19

Other Regulation
☐ REG 558 ☐ PWQO
☐ CCME ☐ MISA
☐ SU - Sani ☐ SU - Storm
Mun: _____
☐ Other: _____

Table 1 ☐ Res/Park ☐ Med/Fine
Table 2 ☐ Ind/Comm ☐ Coarse
Table 3 ☐ Agri/Other
Table _____
For RSCAD Yes ☒ No ☐

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

Required Analysis

Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken		COPPER	SPLP	FOC	VOC	PHL FI-F4	PAH	ICP Heavy Metals	PH, EC, SAR				
				Date	Time												
1 BH23-1	S		6	6/26/23	0830	X	X	X	X	X	X	X	X				
2 QC-01	S		1		0830			X									
3 QC-02	S		2		0900				X	X	X	X	X				
4 BH23-2	S		2		0900				X	X	X	X	X				
5 BH23-3	S		2		0930				X	X	X	X	X				
6 BH23-4	S		2		1000				X	X	X	X	X				
7 BH23-5	S		2		1030				X	X	X	X	X				
8 BH23-6	S		3		1100	X			X	X	X	X	X				
9 BH23-7	S		6		1130	X	X	X	X	X	X	X	X				
10 BH23-8	S		6		1200	X	X	X	X	X	X	X	X				

Comments:

Received By (Signature):

Received By (Print): **TREVA SAUNDERS**

Date/Time: **6/26/23**

Received By Driver/Depot:

Date/Time:

Received at Lab: **1400**

Date/Time: **June 26/23**

Temperature: **18.3** °C

Method of Delivery: **Walk In**

Verified By: **SD**

Date/Time: **June 26, 2023 3:52pm**

pH Verified: ☐ By:



Parcel Order Number

(Lab Use Only)

2326109 = TCLP

2326112 = Bulk

Chain Of Custody

(Lab Use Only)

No 71807

Client Name: STANTEC	Project Ref: 122170424	Page 2 of 2
Contact Name: DYLAN HEMMING	Quote #:	Turnaround Time ☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular
Address: 1331 CLYDE AVE OTTAWA	PO #:	
Telephone:	E-mail: DYLAN.HEMMING@STANTEC.COM	
Date Required:		

133/04 133/04 ☐ Table 1 ☐ Res/Park ☐ Med/Fine ☐ REG 558 ☐ PWQO ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ CCME ☐ MISA ☐ Table 3 ☐ Agri/Other ☐ SU - Sani ☐ SU - Storm ☐ Table _____ Mun: _____ For RSC: ☐ Yes ☐ No ☐ Other: _____		Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)		Required Analysis															
Sample ID/Location Name	Matrix	Air Volume	# of Containers	Sample Taken		TCLP													
				Date	Time														
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Comments:				Method of Delivery: Walk In			
Relinquished By (Sign): [Signature]	Received By Driver/Depot:	Received at Lab: 1B 1400	Verified By: SD				
Relinquished By (Print): TREVOR SANDERS	Date/Time:	Date/Time: June 26/23	Date/Time: June 26, 2023 4:17 PM				
Date/Time: 6/26/23	Temperature: _____ °C	Temperature: 18.3 °C	pH Verified: ☐ By: _____				

Certificate of Analysis

Stantec Consulting Ltd. (Ottawa)

1331 Clyde Avenue Suite 400
Ottawa, ON K2C 3G4
Attn: Dylan Hemmings

Client PO:
Project: 122170424.300.301
Custody: 71549,71550

Report Date: 14-Jul-2023
Order Date: 29-Jun-2023

Order #: 2326467

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

Paracel ID	Client ID
2326467-01	MW05-4A
2326467-02	MW05-4
2326467-03	MW00-4
2326467-04	MW19-12A
2326467-05	MW19-12B
2326467-06	QC-01
2326467-07	MW01-10
2326467-08	QC-02
2326467-09	MW00-6
2326467-10	MW14-2
2326467-11	MW16-01
2326467-12	E3

Approved By:



Dale Robertson, BSc
Laboratory Director

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 29-Jun-2023

Client PO:

Project Description: 122170424.300.301

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Anions	EPA 300.1 - IC	7-Jul-23	7-Jul-23
Cyanide, free	MOE E3015 - Auto Colour	30-Jun-23	30-Jun-23
Metals, ICP-MS	EPA 200.8 - ICP-MS	30-Jun-23	30-Jun-23
pH	EPA 150.1 - pH probe @25 °C	5-Jul-23	5-Jul-23
PHC F1	CWS Tier 1 - P&T GC-FID	30-Jun-23	2-Jul-23
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	11-Jul-23	11-Jul-23
REG 153: PAHs by GC-MS	EPA 625 - GC-MS, extraction	12-Jul-23	13-Jul-23
REG 153: VOCs by P&T GC/MS	EPA 624 - P&T GC-MS	30-Jun-23	2-Jul-23

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 29-Jun-2023

Client PO:

Project Description: 122170424.300.301

	Client ID:	MW05-4A	MW05-4	MW00-4	MW19-12A
	Sample Date:	28-Jun-23 09:00	28-Jun-23 10:00	28-Jun-23 11:00	29-Jun-23 08:30
	Sample ID:	2326467-01	2326467-02	2326467-03	2326467-04
	MDL/Units	Ground Water	Ground Water	Ground Water	Ground Water

General Inorganics

Cyanide, free	2 ug/L	<2	<2	<2	<2
pH	0.1 pH Units	7.7	7.8	8.1	7.5

Anions

Chloride	1 mg/L	1150	266	4	3190

Metals

Antimony	0.5 ug/L	<0.5	<0.5	0.5	<0.5
Arsenic	1 ug/L	<1	<1	<1	3
Barium	1 ug/L	156	817	74	708
Beryllium	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Boron	10 ug/L	483	194	59	1160
Cadmium	0.1 ug/L	<0.1	<0.1	<0.1	<0.1
Chromium	1 ug/L	<1	<1	<1	<1
Cobalt	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Copper	0.5 ug/L	0.6	2.3	21.0	1.5
Lead	0.1 ug/L	<0.1	<0.1	0.2	<0.1
Molybdenum	0.5 ug/L	2.4	2.8	2.0	5.4
Nickel	1 ug/L	2	1	2	2
Selenium	1 ug/L	<1	<1	<1	<1
Silver	0.1 ug/L	<0.1	<0.1	<0.1	<0.1
Sodium	200 ug/L	570000	121000	9020	1250000
Thallium	0.1 ug/L	<0.1	<0.1	<0.1	<0.1
Uranium	0.1 ug/L	0.2	0.1	0.2	5.8
Vanadium	0.5 ug/L	<0.5	0.8	<0.5	0.6
Zinc	5 ug/L	<5	<5	<5	<5

Volatiles

Acetone	5.0 ug/L	<5.0	<5.0	<5.0	<5.0
Benzene	0.5 ug/L	<0.5	19.1	<0.5	16.8
Bromodichloromethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Bromoform	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Bromomethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride	0.2 ug/L	<0.2	<0.2	<0.2	<0.2
Chlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Chloroform	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	1.0 ug/L	<1.0	<1.0	<1.0	<1.0

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 29-Jun-2023

Client PO:

Project Description: 122170424.300.301

	Client ID: Sample Date: Sample ID:	MW05-4A 28-Jun-23 09:00 2326467-01 Ground Water	MW05-4 28-Jun-23 10:00 2326467-02 Ground Water	MW00-4 28-Jun-23 11:00 2326467-03 Ground Water	MW19-12A 29-Jun-23 08:30 2326467-04 Ground Water
	MDL/Units				
1,2-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethylene	0.5 ug/L	<0.5	5.9	<0.5	7.5
cis-1,2-Dichloroethylene	0.5 ug/L	189	10700	65.8	31400
trans-1,2-Dichloroethylene	0.5 ug/L	3.3	48.8	8.9	242
1,2-Dichloropropane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,3-Dichloropropene, total	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5 ug/L	<0.5	2.2	<0.5	1.9
Ethylene dibromide (dibromoethane, 1,2-)	0.2 ug/L	<0.2	<0.2	<0.2	<0.2
Hexane	1.0 ug/L	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (2-Butanone)	5.0 ug/L	<5.0	<5.0	<5.0	<5.0
Methyl Isobutyl Ketone	5.0 ug/L	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether	2.0 ug/L	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5.0 ug/L	<5.0	<5.0	<5.0	<5.0
Styrene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Tetrachloroethylene	0.5 ug/L	4.6	1.2	3.3	12.1
Toluene	0.5 ug/L	<0.5	5.6	<0.5	14.3
1,1,1-Trichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	0.5 ug/L	25.6	3.0	1.4	48.3
Trichlorofluoromethane	1.0 ug/L	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	0.5 ug/L	55.0	2400	18.8	6020
m,p-Xylenes	0.5 ug/L	<0.5	1.3	<0.5	3.9
o-Xylene	0.5 ug/L	<0.5	0.7	<0.5	2.7
Xylenes, total	0.5 ug/L	<0.5	2.0	<0.5	6.7
4-Bromofluorobenzene	Surrogate	105%	109%	106%	105%
Dibromofluoromethane	Surrogate	116%	117%	130%	114%
Toluene-d8	Surrogate	103%	103%	103%	102%

Hydrocarbons

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 29-Jun-2023

Client PO:

Project Description: 122170424.300.301

	Client ID:	MW05-4A	MW05-4	MW00-4	MW19-12A
	Sample Date:	28-Jun-23 09:00	28-Jun-23 10:00	28-Jun-23 11:00	29-Jun-23 08:30
	Sample ID:	2326467-01	2326467-02	2326467-03	2326467-04
	MDL/Units	Ground Water	Ground Water	Ground Water	Ground Water
F1 PHCs (C6-C10)	25 ug/L	<25	<25	<25	<25
F2 PHCs (C10-C16)	100 ug/L	<100	<100	<100	<100
F3 PHCs (C16-C34)	100 ug/L	<100	<100	<100	<100
F4 PHCs (C34-C50)	100 ug/L	<100	<100	<100	<100

Semi-Volatiles

Acenaphthene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Anthracene	0.01 ug/L	<0.01	<0.01	<0.01	<0.01
Benzo [a] anthracene	0.01 ug/L	<0.01	<0.01	<0.01	<0.01
Benzo [a] pyrene	0.01 ug/L	<0.01	<0.01	<0.01	<0.01
Benzo [b] fluoranthene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Benzo [g,h,i] perylene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Benzo [k] fluoranthene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Chrysene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Dibenzo [a,h] anthracene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Fluoranthene	0.01 ug/L	<0.01	<0.01	<0.01	<0.01
Fluorene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Indeno [1,2,3-cd] pyrene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
1-Methylnaphthalene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
2-Methylnaphthalene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Methylnaphthalene (1&2)	0.10 ug/L	<0.10	<0.10	<0.10	<0.10
Naphthalene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Phenanthrene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Pyrene	0.01 ug/L	<0.01	<0.01	<0.01	<0.01
2-Fluorobiphenyl	Surrogate	134%	113%	136%	88.7%
Terphenyl-d14	Surrogate	140%	140%	138%	103%

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 29-Jun-2023

Client PO:

Project Description: 122170424.300.301

Client ID:	MW19-12B	QC-01	MW01-10	QC-02
Sample Date:	29-Jun-23 09:00	29-Jun-23 09:00	29-Jun-23 10:00	29-Jun-23 10:00
Sample ID:	2326467-05	2326467-06	2326467-07	2326467-08
MDL/Units	Ground Water	Ground Water	Ground Water	Ground Water

General Inorganics

Cyanide, free	2 ug/L	<2	<2	<2	<2
pH	0.1 pH Units	7.5	7.5	8.1	7.9

Anions

Chloride	1 mg/L	3830	4320	187	258

Metals

Antimony	0.5 ug/L	<0.5	<0.5	1.3	1.2
Arsenic	1 ug/L	<1	<1	<1	<1
Barium	1 ug/L	4750	4560	87	61
Beryllium	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Boron	10 ug/L	239	237	165	161
Cadmium	0.1 ug/L	<0.1	<0.1	<0.1	<0.1
Chromium	1 ug/L	<1	<1	<1	<1
Cobalt	0.5 ug/L	<0.5	<0.5	6.4	<0.5
Copper	0.5 ug/L	1.6	1.4	5.8	5.9
Lead	0.1 ug/L	<0.1	<0.1	0.1	0.1
Molybdenum	0.5 ug/L	<0.5	<0.5	10.4	10.5
Nickel	1 ug/L	<1	<1	10	3
Selenium	1 ug/L	<1	<1	2	<1
Silver	0.1 ug/L	<0.1	<0.1	<0.1	<0.1
Sodium	200 ug/L	1360000	1320000	182000	180000
Thallium	0.1 ug/L	<0.1	<0.1	0.3	0.3
Uranium	0.1 ug/L	0.2	0.2	0.6	0.6
Vanadium	0.5 ug/L	0.9	0.9	<0.5	<0.5
Zinc	5 ug/L	<5	<5	<5	<5

Volatiles

Acetone	5.0 ug/L	<5.0	<5.0	<5.0	<5.0
Benzene	0.5 ug/L	17.1	23.1	<0.5	<0.5
Bromodichloromethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Bromoform	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Bromomethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride	0.2 ug/L	<0.2	<0.2	<0.2	<0.2
Chlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Chloroform	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	1.0 ug/L	<1.0	<1.0	<1.0	<1.0

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 29-Jun-2023

Client PO:

Project Description: 122170424.300.301

	Client ID:	MW19-12B	QC-01	MW01-10	QC-02
	Sample Date:	29-Jun-23 09:00	29-Jun-23 09:00	29-Jun-23 10:00	29-Jun-23 10:00
	Sample ID:	2326467-05	2326467-06	2326467-07	2326467-08
	MDL/Units	Ground Water	Ground Water	Ground Water	Ground Water
1,2-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethylene	0.5 ug/L	19.1	10.7	<0.5	2.1
cis-1,2-Dichloroethylene	0.5 ug/L	11500 [5]	5240	718	1680
trans-1,2-Dichloroethylene	0.5 ug/L	97.0 [5]	76.2	10.0	17.6
1,2-Dichloropropane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,3-Dichloropropene, total	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5 ug/L	31.0	22.6	<0.5	3.4
Ethylene dibromide (dibromoethane, 1	0.2 ug/L	<0.2	<0.2	<0.2	<0.2
Hexane	1.0 ug/L	<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (2-Butanone)	5.0 ug/L	<5.0	<5.0	<5.0	<5.0
Methyl Isobutyl Ketone	5.0 ug/L	<5.0	<5.0	<5.0	<5.0
Methyl tert-butyl ether	2.0 ug/L	<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5.0 ug/L	<5.0	<5.0	<5.0	<5.0
Styrene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,1,1,2,2-Tetrachloroethane	0.5 ug/L	4.8	<0.5	<0.5	<0.5
Tetrachloroethylene	0.5 ug/L	7220 [5]	3840	592	6510
Toluene	0.5 ug/L	11.0	10.0	<0.5	2.8
1,1,1-Trichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Trichloroethylene	0.5 ug/L	3080 [5]	1280	141	1120
Trichlorofluoromethane	1.0 ug/L	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	0.5 ug/L	938 [5]	<0.5	11.1	170
m,p-Xylenes	0.5 ug/L	58.0	33.7	<0.5	6.8
o-Xylene	0.5 ug/L	24.6	15.4	<0.5	5.9
Xylenes, total	0.5 ug/L	82.7	49.1	<0.5	12.8
4-Bromofluorobenzene	Surrogate	106%	108%	106%	106%
Dibromofluoromethane	Surrogate	124%	127%	121%	126%

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 29-Jun-2023

Client PO:

Project Description: 122170424.300.301

	Client ID:	MW19-12B	QC-01	MW01-10	QC-02
	Sample Date:	29-Jun-23 09:00	29-Jun-23 09:00	29-Jun-23 10:00	29-Jun-23 10:00
	Sample ID:	2326467-05	2326467-06	2326467-07	2326467-08
	MDL/Units	Ground Water	Ground Water	Ground Water	Ground Water
Toluene-d8	Surrogate	101%	100%	103%	98.9%
Hydrocarbons					
F1 PHCs (C6-C10)	25 ug/L	<25	<25	<25	<25
F2 PHCs (C10-C16)	100 ug/L	26200	10600	<100	918
F3 PHCs (C16-C34)	100 ug/L	36400	17100	687	3610
F4 PHCs (C34-C50)	100 ug/L	17300	8960	616	1730
Semi-Volatiles					
Acenaphthene	0.05 ug/L	<5.00 [1]	<1.00 [1]	<1.00 [1]	<1.00 [1]
Acenaphthylene	0.05 ug/L	<5.00 [1]	<1.00 [1]	<1.00 [1]	<1.00 [1]
Anthracene	0.01 ug/L	<1.00 [1]	<0.20 [1]	<0.20 [1]	<0.20 [1]
Benzo [a] anthracene	0.01 ug/L	<1.00 [1]	<0.20 [1]	3.64 [1]	5.38 [1]
Benzo [a] pyrene	0.01 ug/L	<1.00 [1]	<0.20 [1]	<0.20 [1]	<0.20 [1]
Benzo [b] fluoranthene	0.05 ug/L	<5.00 [1]	<1.00 [1]	<1.00 [1]	5.08 [1]
Benzo [g,h,i] perylene	0.05 ug/L	13.3 [1]	3.63 [1]	2.82 [1]	2.87 [1]
Benzo [k] fluoranthene	0.05 ug/L	<5.00 [1]	<1.00 [1]	<1.00 [1]	1.84 [1]
Chrysene	0.05 ug/L	<5.00 [1]	<1.00 [1]	3.31 [1]	5.05 [1]
Dibenzo [a,h] anthracene	0.05 ug/L	<5.00 [1]	<1.00 [1]	<1.00 [1]	<1.00 [1]
Fluoranthene	0.01 ug/L	<1.00 [1]	<0.20 [1]	7.64 [1]	13.7 [1]
Fluorene	0.05 ug/L	<5.00 [1]	<1.00 [1]	<1.00 [1]	<1.00 [1]
Indeno [1,2,3-cd] pyrene	0.05 ug/L	8.52 [1]	2.28 [1]	2.11 [1]	2.60 [1]
1-Methylnaphthalene	0.05 ug/L	<5.00 [1]	<1.00 [1]	<1.00 [1]	13.6 [1]
2-Methylnaphthalene	0.05 ug/L	<5.00 [1]	<1.00 [1]	<1.00 [1]	23.7 [1]
Methylnaphthalene (1&2)	0.10 ug/L	<10.0 [1]	<2.00 [1]	<2.00 [1]	37.3 [1]
Naphthalene	0.05 ug/L	31.0 [1]	<1.00 [1]	<1.00 [1]	35.6 [1]
Phenanthrene	0.05 ug/L	<5.00 [1]	<1.00 [1]	<1.00 [1]	18.4 [1]
Pyrene	0.01 ug/L	<1.00 [1]	<0.20 [1]	6.07 [1]	10.6 [1]
2-Fluorobiphenyl	Surrogate	137% [1]	87.3% [1]	80.8% [1]	100% [1]
Terphenyl-d14	Surrogate	126% [1]	101% [1]	94.8% [1]	109% [1]

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 29-Jun-2023

Client PO:

Project Description: 122170424.300.301

Client ID:	MW00-6	MW14-2	MW16-01	E3
Sample Date:	29-Jun-23 11:00	29-Jun-23 12:00	29-Jun-23 01:00	29-Jun-23 02:00
Sample ID:	2326467-09	2326467-10	2326467-11	2326467-12
MDL/Units	Ground Water	Ground Water	Ground Water	Ground Water

General Inorganics

Cyanide, free	2 ug/L	<2	<2	<2	<2
pH	0.1 pH Units	8.0	7.6	7.9	7.3

Anions

Chloride	1 mg/L	161	1670	568	1120

Metals

Antimony	0.5 ug/L	0.6	<0.5	6.0	<0.5
Arsenic	1 ug/L	<1	<1	17	4
Barium	1 ug/L	109	603	76	2690
Beryllium	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Boron	10 ug/L	141	667	992	844
Cadmium	0.1 ug/L	<0.1	<0.1	<0.1	<0.1
Chromium	1 ug/L	<1	<1	<1	<1
Cobalt	0.5 ug/L	1.2	<0.5	0.7	0.9
Copper	0.5 ug/L	4.4	0.8	<0.5	<0.5
Lead	0.1 ug/L	<0.1	0.2	<0.1	<0.1
Molybdenum	0.5 ug/L	3.6	<0.5	0.6	1.9
Nickel	1 ug/L	2	1	16	2
Selenium	1 ug/L	<1	1	5	2
Silver	0.1 ug/L	<0.1	<0.1	<0.1	<0.1
Sodium	200 ug/L	101000	632000	1230000	704000
Thallium	0.1 ug/L	0.4	<0.1	<0.1	<0.1
Uranium	0.1 ug/L	0.9	0.1	0.1	0.4
Vanadium	0.5 ug/L	<0.5	1.5	21.3	<0.5
Zinc	5 ug/L	<5	<5	<5	<5

Volatiles

Acetone	5.0 ug/L	<5.0	<5.0	3250	12600
Benzene	0.5 ug/L	<0.5	1.7	2.0	297
Bromodichloromethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Bromoform	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Bromomethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Carbon Tetrachloride	0.2 ug/L	<0.2	<0.2	<0.2	<0.2
Chlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Chloroform	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Dibromochloromethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	1.0 ug/L	<1.0	<1.0	<1.0	<1.0

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 29-Jun-2023

Client PO:

Project Description: 122170424.300.301

	MDL/Units	Client ID:	MW00-6	MW14-2	MW16-01	E3
		Sample Date:	29-Jun-23 11:00	29-Jun-23 12:00	29-Jun-23 01:00	29-Jun-23 02:00
		Sample ID:	2326467-09	2326467-10	2326467-11	2326467-12
			Ground Water	Ground Water	Ground Water	Ground Water
1,2-Dichlorobenzene	0.5 ug/L		<0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	0.5 ug/L		<0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	0.5 ug/L		<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	0.5 ug/L		<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	0.5 ug/L		<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethylene	0.5 ug/L		<0.5	<0.5	<0.5	7.0
cis-1,2-Dichloroethylene	0.5 ug/L		27.1	282	13.6	16300
trans-1,2-Dichloroethylene	0.5 ug/L		<0.5	6.6	6.0	137
1,2-Dichloropropane	0.5 ug/L		<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropylene	0.5 ug/L		<0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropylene	0.5 ug/L		<0.5	<0.5	<0.5	<0.5
1,3-Dichloropropene, total	0.5 ug/L		<0.5	<0.5	<0.5	<0.5
Ethylbenzene	0.5 ug/L		<0.5	<0.5	<0.5	18.5
Ethylene dibromide (dibromoethane, 1	0.2 ug/L		<0.2	<0.2	<0.2	<0.2
Hexane	1.0 ug/L		<1.0	<1.0	<1.0	<1.0
Methyl Ethyl Ketone (2-Butanone)	5.0 ug/L		<5.0	<5.0	167	162
Methyl Isobutyl Ketone	5.0 ug/L		<5.0	<5.0	<5.0	19.0
Methyl tert-butyl ether	2.0 ug/L		<2.0	<2.0	<2.0	<2.0
Methylene Chloride	5.0 ug/L		<5.0	<5.0	<5.0	<5.0
Styrene	0.5 ug/L		<0.5	<0.5	<0.5	<0.5
1,1,1,2-Tetrachloroethane	0.5 ug/L		<0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	0.5 ug/L		<0.5	<0.5	<0.5	0.9
Tetrachloroethylene	0.5 ug/L		15.9	13.7	12.3	108
Toluene	0.5 ug/L		<0.5	<0.5	1.9	544
1,1,1-Trichloroethane	0.5 ug/L		<0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	0.5 ug/L		<0.5	<0.5	<0.5	<0.5
Trichloroethylene	0.5 ug/L		5.5	4.7	4.1	983
Trichlorofluoromethane	1.0 ug/L		<1.0	<1.0	<1.0	<1.0
Vinyl chloride	0.5 ug/L		3.1	285	<0.5	12800
m,p-Xylenes	0.5 ug/L		<0.5	<0.5	<0.5	40.8
o-Xylene	0.5 ug/L		<0.5	<0.5	<0.5	20.1
Xylenes, total	0.5 ug/L		<0.5	<0.5	<0.5	60.9
4-Bromofluorobenzene	Surrogate		102%	106%	106%	105%
Dibromofluoromethane	Surrogate		104%	115%	120%	124%
Toluene-d8	Surrogate		103%	103%	103%	102%

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 29-Jun-2023

Client PO:

Project Description: 122170424.300.301

Client ID:	MW00-6	MW14-2	MW16-01	E3
Sample Date:	29-Jun-23 11:00	29-Jun-23 12:00	29-Jun-23 01:00	29-Jun-23 02:00
Sample ID:	2326467-09	2326467-10	2326467-11	2326467-12
MDL/Units	Ground Water	Ground Water	Ground Water	Ground Water

Hydrocarbons

F1 PHCs (C6-C10)	25 ug/L	<25	<25	<25	<25
F2 PHCs (C10-C16)	100 ug/L	<100	<100	<100	359
F3 PHCs (C16-C34)	100 ug/L	<100	<100	<100	1170
F4 PHCs (C34-C50)	100 ug/L	<100	<100	<100	471

Semi-Volatiles

Acenaphthene	0.05 ug/L	<0.05	<0.25	<0.05	0.13
Acenaphthylene	0.05 ug/L	<0.05	<0.25	<0.05	<0.05
Anthracene	0.01 ug/L	<0.01	0.45	<0.01	0.05
Benzo [a] anthracene	0.01 ug/L	<0.01	0.93	<0.01	0.10
Benzo [a] pyrene	0.01 ug/L	<0.01	0.98	<0.01	0.07
Benzo [b] fluoranthene	0.05 ug/L	<0.05	1.56	<0.05	0.05
Benzo [g,h,i] perylene	0.05 ug/L	<0.05	1.48	<0.05	<0.05
Benzo [k] fluoranthene	0.05 ug/L	<0.05	0.64	<0.05	<0.05
Chrysene	0.05 ug/L	<0.05	0.99	<0.05	0.07
Dibenzo [a,h] anthracene	0.05 ug/L	<0.05	0.27	<0.05	<0.05
Fluoranthene	0.01 ug/L	<0.01	2.09	0.02	0.22
Fluorene	0.05 ug/L	<0.05	<0.25	<0.05	<0.05
Indeno [1,2,3-cd] pyrene	0.05 ug/L	<0.05	0.85	<0.05	<0.05
1-Methylnaphthalene	0.05 ug/L	<0.05	<0.25	<0.05	0.43
2-Methylnaphthalene	0.05 ug/L	<0.05	0.30	<0.05	0.53
Methylnaphthalene (1&2)	0.10 ug/L	<0.10	<0.50	<0.10	0.95
Naphthalene	0.05 ug/L	<0.05	<0.25	<0.05	0.79
Phenanthrene	0.05 ug/L	<0.05	1.35	<0.05	0.34
Pyrene	0.01 ug/L	<0.01	1.82	<0.01	0.20
2-Fluorobiphenyl	Surrogate	113%	110%	93.7%	94.9%
Terphenyl-d14	Surrogate	132%	101%	86.7%	97.3%

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 29-Jun-2023

Client PO:

Project Description: 122170424.300.301

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions									
Chloride	ND	1	mg/L						
General Inorganics									
Cyanide, free	ND	2	ug/L						
Hydrocarbons									
F1 PHCs (C6-C10)	ND	25	ug/L						
F2 PHCs (C10-C16)	ND	100	ug/L						
F3 PHCs (C16-C34)	ND	100	ug/L						
F4 PHCs (C34-C50)	ND	100	ug/L						
Metals									
Antimony	ND	0.5	ug/L						
Arsenic	ND	1	ug/L						
Barium	ND	1	ug/L						
Beryllium	ND	0.5	ug/L						
Boron	ND	10	ug/L						
Cadmium	ND	0.1	ug/L						
Chromium	ND	1	ug/L						
Cobalt	ND	0.5	ug/L						
Copper	ND	0.5	ug/L						
Lead	ND	0.1	ug/L						
Molybdenum	ND	0.5	ug/L						
Nickel	ND	1	ug/L						
Selenium	ND	1	ug/L						
Silver	ND	0.1	ug/L						
Sodium	ND	200	ug/L						
Thallium	ND	0.1	ug/L						
Uranium	ND	0.1	ug/L						
Vanadium	ND	0.5	ug/L						
Zinc	ND	5	ug/L						
Semi-Volatiles									
Acenaphthene	ND	0.05	ug/L						
Acenaphthylene	ND	0.05	ug/L						
Anthracene	ND	0.01	ug/L						
Benzo [a] anthracene	ND	0.01	ug/L						
Benzo [a] pyrene	ND	0.01	ug/L						
Benzo [b] fluoranthene	ND	0.05	ug/L						
Benzo [g,h,i] perylene	ND	0.05	ug/L						
Benzo [k] fluoranthene	ND	0.05	ug/L						
Chrysene	ND	0.05	ug/L						
Dibenzo [a,h] anthracene	ND	0.05	ug/L						
Fluoranthene	ND	0.01	ug/L						
Fluorene	ND	0.05	ug/L						
Indeno [1,2,3-cd] pyrene	ND	0.05	ug/L						
1-Methylnaphthalene	ND	0.05	ug/L						
2-Methylnaphthalene	ND	0.05	ug/L						
Methylnaphthalene (1&2)	ND	0.10	ug/L						
Naphthalene	ND	0.05	ug/L						
Phenanthrene	ND	0.05	ug/L						
Pyrene	ND	0.01	ug/L						
Surrogate: 2-Fluorobiphenyl	14.6		ug/L		72.8	50-140			
Surrogate: Terphenyl-d14	18.6		ug/L		93.1	50-140			
Volatiles									
Acetone	ND	5.0	ug/L						
Benzene	ND	0.5	ug/L						
Bromodichloromethane	ND	0.5	ug/L						
Bromoform	ND	0.5	ug/L						
Bromomethane	ND	0.5	ug/L						
Carbon Tetrachloride	ND	0.2	ug/L						

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 29-Jun-2023

Client PO:

Project Description: 122170424.300.301

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Chlorobenzene	ND	0.5	ug/L						
Chloroform	ND	0.5	ug/L						
Dibromochloromethane	ND	0.5	ug/L						
Dichlorodifluoromethane	ND	1.0	ug/L						
1,2-Dichlorobenzene	ND	0.5	ug/L						
1,3-Dichlorobenzene	ND	0.5	ug/L						
1,4-Dichlorobenzene	ND	0.5	ug/L						
1,1-Dichloroethane	ND	0.5	ug/L						
1,2-Dichloroethane	ND	0.5	ug/L						
1,1-Dichloroethylene	ND	0.5	ug/L						
cis-1,2-Dichloroethylene	ND	0.5	ug/L						
trans-1,2-Dichloroethylene	ND	0.5	ug/L						
1,2-Dichloropropane	ND	0.5	ug/L						
cis-1,3-Dichloropropylene	ND	0.5	ug/L						
trans-1,3-Dichloropropylene	ND	0.5	ug/L						
1,3-Dichloropropene, total	ND	0.5	ug/L						
Ethylbenzene	ND	0.5	ug/L						
Ethylene dibromide (dibromoethane, 1,2-	ND	0.2	ug/L						
Hexane	ND	1.0	ug/L						
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L						
Methyl Isobutyl Ketone	ND	5.0	ug/L						
Methyl tert-butyl ether	ND	2.0	ug/L						
Methylene Chloride	ND	5.0	ug/L						
Styrene	ND	0.5	ug/L						
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L						
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L						
Tetrachloroethylene	ND	0.5	ug/L						
Toluene	ND	0.5	ug/L						
1,1,1-Trichloroethane	ND	0.5	ug/L						
1,1,2-Trichloroethane	ND	0.5	ug/L						
Trichloroethylene	ND	0.5	ug/L						
Trichlorofluoromethane	ND	1.0	ug/L						
Vinyl chloride	ND	0.5	ug/L						
m,p-Xylenes	ND	0.5	ug/L						
o-Xylene	ND	0.5	ug/L						
Xylenes, total	ND	0.5	ug/L						
Surrogate: 4-Bromofluorobenzene	85.0		ug/L		106	50-140			
Surrogate: Dibromofluoromethane	87.6		ug/L		110	50-140			
Surrogate: Toluene-d8	84.9		ug/L		106	50-140			

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 29-Jun-2023

Client PO:

Project Description: 122170424.300.301

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions									
Chloride	161	1	mg/L	161			0.4	20	
General Inorganics									
Cyanide, free	ND	2	ug/L	4.7			NC	20	
pH	7.3	0.1	pH Units	7.3			0.4	3.3	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	25	ug/L	ND			NC	30	
Metals									
Antimony	ND	0.5	ug/L	0.67			NC	20	
Arsenic	ND	1	ug/L	ND			NC	20	
Barium	25.3	1	ug/L	23.5			7.6	20	
Beryllium	ND	0.5	ug/L	ND			NC	20	
Boron	19	10	ug/L	19			3.2	20	
Cadmium	ND	0.1	ug/L	ND			NC	20	
Chromium	ND	1	ug/L	ND			NC	20	
Cobalt	ND	0.5	ug/L	ND			NC	20	
Copper	1.80	0.5	ug/L	1.85			3.3	20	
Lead	ND	0.1	ug/L	ND			NC	20	
Molybdenum	1.58	0.5	ug/L	0.95			NC	20	
Nickel	ND	1	ug/L	ND			NC	20	
Selenium	ND	1	ug/L	ND			NC	20	
Silver	ND	0.1	ug/L	ND			NC	20	
Sodium	15400	200	ug/L	15700			2.4	20	
Thallium	ND	0.1	ug/L	ND			NC	20	
Uranium	ND	0.1	ug/L	ND			NC	20	
Vanadium	ND	0.5	ug/L	ND			NC	20	
Zinc	8	5	ug/L	8			0.3	20	
Volatiles									
Acetone	ND	5.0	ug/L	ND			NC	30	
Benzene	ND	0.5	ug/L	ND			NC	30	
Bromodichloromethane	2.90	0.5	ug/L	2.44			17.2	30	
Bromoform	ND	0.5	ug/L	ND			NC	30	
Bromomethane	ND	0.5	ug/L	ND			NC	30	
Carbon Tetrachloride	ND	0.2	ug/L	ND			NC	30	
Chlorobenzene	ND	0.5	ug/L	ND			NC	30	
Chloroform	12.7	0.5	ug/L	13.3			4.8	30	
Dibromochloromethane	ND	0.5	ug/L	ND			NC	30	
Dichlorodifluoromethane	ND	1.0	ug/L	ND			NC	30	
1,2-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,3-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,4-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
cis-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
trans-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloropropane	ND	0.5	ug/L	ND			NC	30	
cis-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
trans-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
Ethylbenzene	ND	0.5	ug/L	ND			NC	30	
Ethylene dibromide (dibromoethane, 1,2-	ND	0.2	ug/L	ND			NC	30	
Hexane	ND	1.0	ug/L	ND			NC	30	
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L	ND			NC	30	
Methyl Isobutyl Ketone	ND	5.0	ug/L	ND			NC	30	
Methyl tert-butyl ether	ND	2.0	ug/L	ND			NC	30	
Methylene Chloride	ND	5.0	ug/L	ND			NC	30	
Styrene	ND	0.5	ug/L	ND			NC	30	

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 29-Jun-2023

Client PO:

Project Description: 122170424.300.301

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
Tetrachloroethylene	ND	0.5	ug/L	ND			NC	30	
Toluene	ND	0.5	ug/L	ND			NC	30	
1,1,1-Trichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2-Trichloroethane	ND	0.5	ug/L	ND			NC	30	
Trichloroethylene	ND	0.5	ug/L	ND			NC	30	
Trichlorofluoromethane	ND	1.0	ug/L	ND			NC	30	
Vinyl chloride	ND	0.5	ug/L	ND			NC	30	
m,p-Xylenes	ND	0.5	ug/L	ND			NC	30	
o-Xylene	ND	0.5	ug/L	ND			NC	30	
Surrogate: 4-Bromofluorobenzene	84.4		ug/L		106	50-140			
Surrogate: Dibromofluoromethane	95.7		ug/L		120	50-140			
Surrogate: Toluene-d8	84.4		ug/L		106	50-140			

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 29-Jun-2023

Client PO:

Project Description: 122170424.300.301

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions									
Chloride	171	1	mg/L	161	105	70-124			
General Inorganics									
Cyanide, free	50.2	2	ug/L	4.7	91.0	61-139			
Hydrocarbons									
F1 PHCs (C6-C10)	1740	25	ug/L	ND	87.1	68-117			
F2 PHCs (C10-C16)	1610	100	ug/L	ND	101	60-140			
F3 PHCs (C16-C34)	3630	100	ug/L	ND	92.7	60-140			
F4 PHCs (C34-C50)	2480	100	ug/L	ND	99.9	60-140			
Metals									
Arsenic	54.5	1	ug/L	ND	108	80-120			
Barium	75.9	1	ug/L	23.5	105	80-120			
Beryllium	49.9	0.5	ug/L	ND	99.9	80-120			
Boron	62	10	ug/L	19	87.6	80-120			
Cadmium	52.0	0.1	ug/L	ND	104	80-120			
Chromium	52.4	1	ug/L	ND	105	80-120			
Cobalt	51.0	0.5	ug/L	ND	102	80-120			
Copper	50.1	0.5	ug/L	1.85	96.4	80-120			
Lead	46.0	0.1	ug/L	ND	92.0	80-120			
Molybdenum	46.4	0.5	ug/L	0.95	90.9	80-120			
Nickel	50.5	1	ug/L	ND	99.9	80-120			
Selenium	48.8	1	ug/L	ND	97.3	80-120			
Silver	52.6	0.1	ug/L	ND	105	80-120			
Sodium	23000	200	ug/L	15700	72.7	80-120			QM-07
Thallium	49.0	0.1	ug/L	ND	98.0	80-120			
Uranium	50.6	0.1	ug/L	ND	101	80-120			
Vanadium	53.0	0.5	ug/L	ND	106	80-120			
Zinc	55	5	ug/L	8	93.3	80-120			
Semi-Volatiles									
Acenaphthene	4.08	0.05	ug/L	ND	81.7	50-140			
Acenaphthylene	4.09	0.05	ug/L	ND	81.9	50-140			
Anthracene	4.18	0.01	ug/L	ND	83.6	50-140			
Benzo [a] anthracene	4.53	0.01	ug/L	ND	90.6	50-140			
Benzo [a] pyrene	3.91	0.01	ug/L	ND	78.2	50-140			
Benzo [b] fluoranthene	4.99	0.05	ug/L	ND	99.8	50-140			
Benzo [g,h,i] perylene	5.13	0.05	ug/L	ND	103	50-140			
Benzo [k] fluoranthene	4.42	0.05	ug/L	ND	88.5	50-140			
Chrysene	4.34	0.05	ug/L	ND	86.9	50-140			
Dibenzo [a,h] anthracene	4.65	0.05	ug/L	ND	93.1	50-140			
Fluoranthene	4.46	0.01	ug/L	ND	89.2	50-140			
Fluorene	4.38	0.05	ug/L	ND	87.6	50-140			
Indeno [1,2,3-cd] pyrene	5.17	0.05	ug/L	ND	103	50-140			
1-Methylnaphthalene	4.43	0.05	ug/L	ND	88.6	50-140			
2-Methylnaphthalene	4.94	0.05	ug/L	ND	98.9	50-140			
Naphthalene	3.71	0.05	ug/L	ND	74.2	50-140			
Phenanthrene	4.14	0.05	ug/L	ND	82.8	50-140			
Pyrene	4.41	0.01	ug/L	ND	88.3	50-140			
Surrogate: 2-Fluorobiphenyl	12.5		ug/L		62.6	50-140			
Surrogate: Terphenyl-d14	16.8		ug/L		83.8	50-140			

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 29-Jun-2023

Client PO:

Project Description: 122170424.300.301

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Acetone	72.7	5.0	ug/L	ND	72.7	50-140			
Benzene	25.7	0.5	ug/L	ND	64.4	60-130			
Bromodichloromethane	34.0	0.5	ug/L	ND	84.9	60-130			
Bromoform	24.2	0.5	ug/L	ND	60.4	60-130			
Bromomethane	43.5	0.5	ug/L	ND	109	50-140			
Carbon Tetrachloride	37.8	0.2	ug/L	ND	94.5	60-130			
Chlorobenzene	32.8	0.5	ug/L	ND	81.9	60-130			
Chloroform	37.2	0.5	ug/L	ND	93.1	60-130			
Dibromochloromethane	37.1	0.5	ug/L	ND	92.8	60-130			
Dichlorodifluoromethane	46.1	1.0	ug/L	ND	115	50-140			
1,2-Dichlorobenzene	29.8	0.5	ug/L	ND	74.6	60-130			
1,3-Dichlorobenzene	31.0	0.5	ug/L	ND	77.5	60-130			
1,4-Dichlorobenzene	30.0	0.5	ug/L	ND	75.0	60-130			
1,1-Dichloroethane	38.1	0.5	ug/L	ND	95.2	60-130			
1,2-Dichloroethane	27.9	0.5	ug/L	ND	69.7	60-130			
1,1-Dichloroethylene	45.2	0.5	ug/L	ND	113	60-130			
cis-1,2-Dichloroethylene	36.2	0.5	ug/L	ND	90.6	60-130			
trans-1,2-Dichloroethylene	39.8	0.5	ug/L	ND	99.5	60-130			
1,2-Dichloropropane	25.8	0.5	ug/L	ND	64.5	60-130			
cis-1,3-Dichloropropylene	39.3	0.5	ug/L	ND	98.3	60-130			
trans-1,3-Dichloropropylene	44.8	0.5	ug/L	ND	112	60-130			
Ethylbenzene	33.8	0.5	ug/L	ND	84.4	60-130			
Ethylene dibromide (dibromoethane, 1,2-	37.7	0.2	ug/L	ND	94.3	60-130			
Hexane	44.3	1.0	ug/L	ND	111	60-130			
Methyl Ethyl Ketone (2-Butanone)	66.0	5.0	ug/L	ND	66.0	50-140			
Methyl Isobutyl Ketone	86.5	5.0	ug/L	ND	86.5	50-140			
Methyl tert-butyl ether	80.0	2.0	ug/L	ND	80.0	50-140			
Methylene Chloride	37.2	5.0	ug/L	ND	93.0	60-130			
Styrene	27.8	0.5	ug/L	ND	69.6	60-130			
1,1,1,2-Tetrachloroethane	45.6	0.5	ug/L	ND	114	60-130			
1,1,2,2-Tetrachloroethane	33.7	0.5	ug/L	ND	84.2	60-130			
Tetrachloroethylene	32.6	0.5	ug/L	ND	81.5	60-130			
Toluene	32.8	0.5	ug/L	ND	82.1	60-130			
1,1,1-Trichloroethane	40.4	0.5	ug/L	ND	101	60-130			
1,1,2-Trichloroethane	25.9	0.5	ug/L	ND	64.7	60-130			
Trichloroethylene	25.5	0.5	ug/L	ND	63.8	60-130			
Trichlorofluoromethane	43.7	1.0	ug/L	ND	109	60-130			
Vinyl chloride	46.4	0.5	ug/L	ND	116	50-140			
m,p-Xylenes	67.5	0.5	ug/L	ND	84.4	60-130			
o-Xylene	32.5	0.5	ug/L	ND	81.2	60-130			
Surrogate: 4-Bromofluorobenzene	89.8		ug/L		112	50-140			
Surrogate: Dibromofluoromethane	98.6		ug/L		123	50-140			
Surrogate: Toluene-d8	80.0		ug/L		100	50-140			

Certificate of Analysis

Client: Stantec Consulting Ltd. (Ottawa)

Client PO:

Report Date: 14-Jul-2023

Order Date: 29-Jun-2023

Project Description: 122170424.300.301

Qualifier Notes:

Sample Qualifiers :

- 1 : Elevated Reporting Limit due to matrix interference.
- 5 : VOC result based on an analysis taken from a previously analyzed sample vial (due to multiple dilutions). Results may be biased low.

QC Qualifiers :

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on other acceptable QC.

Sample Data Revisions

None

Work Order Revisions / Comments:

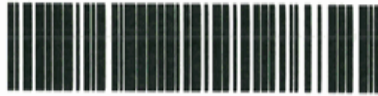
None

Other Report Notes:

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

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.
- F1 range corrected for BTEX.
- F2 to F3 ranges corrected for appropriate PAHs where available.
- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.
- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.
- When reported, data for F4G has been processed using a silica gel cleanup.



Client Name: <u>Stantec</u>	Project Ref: <u>122170424.300.301</u>	Page <u>2</u> of <u>2</u>
Contact Name: <u>Dylan Hennings/Jason Ashe</u>	Quote #: <u>JA</u>	Turnaround Time ☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular
Address: <u>1331 Clyde ave, Ottawa, Ontario</u>	PO #: <u>JA</u>	
Telephone: <u>JA</u>	E-mail: <u>Dylan.Hennings@Stantec.Com</u> <u>Jason.Ash@Stantec.Com</u>	
Date Required: _____		

☒ REG 153/04 ☐ REG 406/19 ☐ Other Regulation		Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)		Required Analysis													
☐ Table 1 ☐ Res/Park ☐ Med/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ Table _____ For RSC: ☒ Yes ☐ No	☐ REG 558 ☐ PWQO ☐ CCME ☐ MISA ☐ SU - Sani ☐ SU - Storm Mun: _____ ☐ Other: _____	Matrix Volume # of Containers	Sample Taken		Vol's PHC'S EL-F4 PAH'S TCL Metals and Inorganics												
Sample ID/Location Name			Date	Time													
1	<u>MW 16-01</u>	<u>GV</u>	<u>7</u>	<u>23/06/29</u>	<u>1:00</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								
2	<u>E3</u>	<u>GV</u>	<u>7</u>	<u>23/06/29</u>	<u>2:00</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>								
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Comments:			Method of Delivery: <u>Walk In</u>		
Relinquished By (Sign): <u>JA</u>	Received By Driver/Depot:	Received at: <u>1637</u>	Verified By: <u>Do</u>		
Relinquished By (Print): <u>Jason Ashe</u>	Date/Time:	Date/Time: <u>June 29/23</u>	Date/Time: <u>July 30/23 847</u>		
Date/Time: <u>23/06/29 4:40</u>	Temperature: _____ °C	Temperature: <u>22.4, 20.0, 19.4</u>	pH Verified: ☐ By: <u>JA</u>		

Certificate of Analysis

Stantec Consulting Ltd. (Ottawa)

1331 Clyde Avenue Suite 400
Ottawa, ON K2C 3G4
Attn: Dylan Hemmings

Client PO:
Project: 122170424.300.301
Custody: 71552

Report Date: 14-Jul-2023
Order Date: 30-Jun-2023

Order #: 2326529

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

Paracel ID	Client ID
2326529-01	MW19-13A
2326529-02	MW19-13B
2326529-03	MW14-1A
2326529-04	MW14-1B
2326529-05	MW08-31A
2326529-06	MW08-32A
2326529-07	MW08-33A
2326529-08	MW08-34
2326529-09	Trip Blank
2326529-10	Field Blank

Approved By:



Dale Robertson, BSc
Laboratory Director

Certificate of Analysis

Client: Stantec Consulting Ltd. (Ottawa)

Client PO:

Report Date: 14-Jul-2023

Order Date: 30-Jun-2023

Project Description: 122170424.300.301

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Anions	EPA 300.1 - IC	10-Jul-23	10-Jul-23
Cyanide, free	MOE E3015 - Auto Colour	6-Jul-23	6-Jul-23
Metals, ICP-MS	EPA 200.8 - ICP-MS	5-Jul-23	5-Jul-23
pH	EPA 150.1 - pH probe @25 °C	5-Jul-23	5-Jul-23
PHC F1	CWS Tier 1 - P&T GC-FID	30-Jun-23	3-Jul-23
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	11-Jul-23	11-Jul-23
REG 153: PAHs by GC-MS	EPA 625 - GC-MS, extraction	12-Jul-23	13-Jul-23
REG 153: VOCs by P&T GC/MS	EPA 624 - P&T GC-MS	30-Jun-23	3-Jul-23

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 30-Jun-2023

Client PO:

Project Description: 122170424.300.301

Client ID:	MW19-13A	MW19-13B	MW14-1A	MW14-1B
Sample Date:	30-Jun-23 08:30	30-Jun-23 09:30	30-Jun-23 10:30	30-Jun-23 11:30
Sample ID:	2326529-01	2326529-02	2326529-03	2326529-04
MDL/Units	Ground Water	Ground Water	Ground Water	Ground Water

General Inorganics

Cyanide, free	2 ug/L	<2	<2	<2	<2
pH	0.1 pH Units	7.5	7.5	7.0	7.0

Anions

Chloride	1 mg/L	862	482	916	609

Metals

Antimony	0.5 ug/L	<0.5	<0.5	0.9	0.7
Arsenic	1 ug/L	4	2	<1	<1
Barium	1 ug/L	659	548	543	205
Beryllium	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Boron	10 ug/L	618	229	199	153
Cadmium	0.1 ug/L	<0.1	<0.1	<0.1	<0.1
Chromium	1 ug/L	1	<1	<1	<1
Cobalt	0.5 ug/L	<0.5	0.5	0.8	0.7
Copper	0.5 ug/L	1.6	1.9	1.8	1.3
Lead	0.1 ug/L	0.4	<0.1	<0.1	0.1
Molybdenum	0.5 ug/L	2.7	2.0	1.4	1.4
Nickel	1 ug/L	3	3	3	3
Selenium	1 ug/L	<1	<1	<1	<1
Silver	0.1 ug/L	<0.1	<0.1	<0.1	<0.1
Sodium	200 ug/L	821000	523000	293000	293000
Thallium	0.1 ug/L	<0.1	<0.1	<0.1	<0.1
Uranium	0.1 ug/L	4.4	7.9	0.1	0.7
Vanadium	0.5 ug/L	3.8	<0.5	<0.5	1.5
Zinc	5 ug/L	<5	<5	<5	9

Volatiles

Acetone	5.0 ug/L	<5.0	<5.0	2230	<25000 [2]
Benzene	0.5 ug/L	60.3	39.8	31.6	<2500 [2]
Bromodichloromethane	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
Bromoform	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
Bromomethane	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
Carbon Tetrachloride	0.2 ug/L	<0.2	<0.2	<0.2	<1000 [2]
Chlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
Chloroform	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
Dibromochloromethane	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
Dichlorodifluoromethane	1.0 ug/L	<1.0	<1.0	<1.0	<5000 [2]

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 30-Jun-2023

Client PO:

Project Description: 122170424.300.301

	Client ID:	MW19-13A	MW19-13B	MW14-1A	MW14-1B
	Sample Date:	30-Jun-23 08:30	30-Jun-23 09:30	30-Jun-23 10:30	30-Jun-23 11:30
	Sample ID:	2326529-01	2326529-02	2326529-03	2326529-04
	MDL/Units	Ground Water	Ground Water	Ground Water	Ground Water
1,2-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
1,3-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
1,4-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
1,1-Dichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
1,2-Dichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
1,1-Dichloroethylene	0.5 ug/L	6.7	24.3	20.0	<2500 [2]
cis-1,2-Dichloroethylene	0.5 ug/L	14900	24900	17000	95000 [2]
trans-1,2-Dichloroethylene	0.5 ug/L	90.8	77.0	153	<2500 [2]
1,2-Dichloropropane	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
1,3-Dichloropropene, total	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
Ethylbenzene	0.5 ug/L	42.0	75.5	63.6	<2500 [2]
Ethylene dibromide (dibromoethane, 1,2-)	0.2 ug/L	<0.2	<0.2	<0.2	<1000 [2]
Hexane	1.0 ug/L	<1.0	<1.0	<1.0	<5000 [2]
Methyl Ethyl Ketone (2-Butanone)	5.0 ug/L	<5.0	<5.0	115	<25000 [2]
Methyl Isobutyl Ketone	5.0 ug/L	<5.0	<5.0	<5.0	<25000 [2]
Methyl tert-butyl ether	2.0 ug/L	<2.0	<2.0	<2.0	<10000 [2]
Methylene Chloride	5.0 ug/L	<5.0	<5.0	<5.0	<25000 [2]
Styrene	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
Tetrachloroethylene	0.5 ug/L	4.5	5.6	7020	154000 [2]
Toluene	0.5 ug/L	165	161	230	<2500 [2]
1,1,1-Trichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
1,1,2-Trichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<2500 [2]
Trichloroethylene	0.5 ug/L	89.2	462	3440	24800 [2]
Trichlorofluoromethane	1.0 ug/L	<1.0	<1.0	<1.0	<5000 [2]
Vinyl chloride	0.5 ug/L	5500	8070	4520	<2500 [2]
m,p-Xylenes	0.5 ug/L	51.3	83.8	120	<2500 [2]
o-Xylene	0.5 ug/L	33.6	45.7	66.1	<2500 [2]
Xylenes, total	0.5 ug/L	84.8	130	186	<2500 [2]
4-Bromofluorobenzene	Surrogate	106%	106%	106%	102% [2]
Dibromofluoromethane	Surrogate	121%	121%	125%	112% [2]
Toluene-d8	Surrogate	104%	104%	101%	99.7% [2]

Hydrocarbons

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 30-Jun-2023

Client PO:

Project Description: 122170424.300.301

	Client ID:	MW19-13A	MW19-13B	MW14-1A	MW14-1B
	Sample Date:	30-Jun-23 08:30	30-Jun-23 09:30	30-Jun-23 10:30	30-Jun-23 11:30
	Sample ID:	2326529-01	2326529-02	2326529-03	2326529-04
	MDL/Units	Ground Water	Ground Water	Ground Water	Ground Water
F1 PHCs (C6-C10)	25 ug/L	<25	<25	<25	<125000 [2]
F2 PHCs (C10-C16)	100 ug/L	<100	<100	513	63600
F3 PHCs (C16-C34)	100 ug/L	<100	640	2720	6700
F4 PHCs (C34-C50)	100 ug/L	<100	340	1410	39100

Semi-Volatiles

Acenaphthene	0.05 ug/L	<0.05	<0.05	<0.05	<1.00 [1] [5]
Acenaphthylene	0.05 ug/L	<0.05	<0.05	<0.05	<1.00 [1] [5]
Anthracene	0.01 ug/L	<0.01	<0.01	<0.01	2.72 [1] [5]
Benzo [a] anthracene	0.01 ug/L	<0.01	0.02	<0.01	1.33 [1] [5]
Benzo [a] pyrene	0.01 ug/L	<0.01	<0.01	<0.01	0.86 [1] [5]
Benzo [b] fluoranthene	0.05 ug/L	<0.05	<0.05	<0.05	<1.00 [1] [5]
Benzo [g,h,i] perylene	0.05 ug/L	<0.05	<0.05	<0.05	1.03 [1] [5]
Benzo [k] fluoranthene	0.05 ug/L	<0.05	<0.05	<0.05	<1.00 [1] [5]
Chrysene	0.05 ug/L	<0.05	<0.05	<0.05	<1.00 [1] [5]
Dibenzo [a,h] anthracene	0.05 ug/L	<0.05	<0.05	<0.05	<1.00 [1] [5]
Fluoranthene	0.01 ug/L	<0.01	<0.01	0.13	1.89 [1] [5]
Fluorene	0.05 ug/L	<0.05	<0.05	<0.05	1.11 [1] [5]
Indeno [1,2,3-cd] pyrene	0.05 ug/L	<0.05	<0.05	<0.05	<1.00 [1] [5]
1-Methylnaphthalene	0.05 ug/L	<0.05	<0.05	0.52	5.18 [1] [5]
2-Methylnaphthalene	0.05 ug/L	<0.05	<0.05	1.00	10.7 [1] [5]
Methylnaphthalene (1&2)	0.10 ug/L	<0.10	<0.10	1.52	15.9 [1] [5]
Naphthalene	0.05 ug/L	0.47	0.42	2.51	21.0 [1] [5]
Phenanthrene	0.05 ug/L	<0.05	<0.05	0.33	4.24 [1] [5]
Pyrene	0.01 ug/L	<0.01	<0.01	<0.01	2.09 [1] [5]
2-Fluorobiphenyl	Surrogate	103%	46.4% [6]	66.1%	-
Terphenyl-d14	Surrogate	119%	42.3% [6]	64.3%	-

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 30-Jun-2023

Client PO:

Project Description: 122170424.300.301

Client ID:	MW08-31A	MW08-32A	MW08-33A	MW08-34
Sample Date:	30-Jun-23 12:00	30-Jun-23 12:30	30-Jun-23 01:00	30-Jun-23 01:30
Sample ID:	2326529-05	2326529-06	2326529-07	2326529-08
MDL/Units	Ground Water	Ground Water	Ground Water	Ground Water
General Inorganics				
Cyanide, free	2 ug/L	<2	<2	<2
pH	0.1 pH Units	8.1	7.7	7.8
Anions				
Chloride	1 mg/L	201	164	565
Metals				
Antimony	0.5 ug/L	1.4	<0.5	8.0
Arsenic	1 ug/L	14	<1	4
Barium	1 ug/L	54	100	51
Beryllium	0.5 ug/L	<0.5	<0.5	<0.5
Boron	10 ug/L	675	38	1840
Cadmium	0.1 ug/L	<0.1	<0.1	0.1
Chromium	1 ug/L	<1	<1	<1
Cobalt	0.5 ug/L	<0.5	<0.5	8.8
Copper	0.5 ug/L	2.0	1.3	3.8
Lead	0.1 ug/L	<0.1	<0.1	0.2
Molybdenum	0.5 ug/L	130	2.5	13.7
Nickel	1 ug/L	<1	2	59
Selenium	1 ug/L	<1	<1	<1
Silver	0.1 ug/L	<0.1	<0.1	<0.1
Sodium	200 ug/L	425000	40600	445000
Thallium	0.1 ug/L	<0.1	<0.1	0.1
Uranium	0.1 ug/L	0.6	0.3	14.2
Vanadium	0.5 ug/L	<0.5	<0.5	3.1
Zinc	5 ug/L	<5	<5	118
Volatiles				
Acetone	5.0 ug/L	<5.0	<5.0	<25000 [2]
Benzene	0.5 ug/L	371	3.1	<2500 [2]
Bromodichloromethane	0.5 ug/L	<0.5	<0.5	<2500 [2]
Bromoform	0.5 ug/L	<0.5	<0.5	<2500 [2]
Bromomethane	0.5 ug/L	<0.5	<0.5	<2500 [2]
Carbon Tetrachloride	0.2 ug/L	<0.2	<0.2	<1000 [2]
Chlorobenzene	0.5 ug/L	<0.5	<0.5	<2500 [2]
Chloroform	0.5 ug/L	<0.5	<0.5	<2500 [2]
Dibromochloromethane	0.5 ug/L	<0.5	<0.5	<2500 [2]
Dichlorodifluoromethane	1.0 ug/L	<1.0	<1.0	<5000 [2]

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 30-Jun-2023

Client PO:

Project Description: 122170424.300.301

	Client ID:	MW08-31A	MW08-32A	MW08-33A	MW08-34
	Sample Date:	30-Jun-23 12:00	30-Jun-23 12:30	30-Jun-23 01:00	30-Jun-23 01:30
	Sample ID:	2326529-05	2326529-06	2326529-07	2326529-08
	MDL/Units	Ground Water	Ground Water	Ground Water	Ground Water
1,2-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<2500 [2]	<0.5
1,3-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<2500 [2]	<0.5
1,4-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	<2500 [2]	<0.5
1,1-Dichloroethane	0.5 ug/L	<0.5	<0.5	<2500 [2]	<0.5
1,2-Dichloroethane	0.5 ug/L	<0.5	<0.5	<2500 [2]	<0.5
1,1-Dichloroethylene	0.5 ug/L	<0.5	<0.5	<2500 [2]	0.7
cis-1,2-Dichloroethylene	0.5 ug/L	62.6	897	118000 [2]	2000 [7]
trans-1,2-Dichloroethylene	0.5 ug/L	9.1	8.4	<2500 [2]	14.0
1,2-Dichloropropane	0.5 ug/L	<0.5	<0.5	<2500 [2]	<0.5
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<2500 [2]	<0.5
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<2500 [2]	<0.5
1,3-Dichloropropene, total	0.5 ug/L	<0.5	<0.5	<2500 [2]	<0.5
Ethylbenzene	0.5 ug/L	1.9	1.7	<2500 [2]	0.6
Ethylene dibromide (dibromoethane, 1,2)	0.2 ug/L	<0.2	<0.2	<1000 [2]	<0.2
Hexane	1.0 ug/L	<1.0	<1.0	<5000 [2]	<1.0
Methyl Ethyl Ketone (2-Butanone)	5.0 ug/L	<5.0	<5.0	<25000 [2]	<5.0
Methyl Isobutyl Ketone	5.0 ug/L	<5.0	<5.0	<25000 [2]	<5.0
Methyl tert-butyl ether	2.0 ug/L	<2.0	<2.0	<10000 [2]	<2.0
Methylene Chloride	5.0 ug/L	<5.0	<5.0	<25000 [2]	<5.0
Styrene	0.5 ug/L	<0.5	<0.5	<2500 [2]	<0.5
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<2500 [2]	<0.5
1,1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<2500 [2]	<0.5
Tetrachloroethylene	0.5 ug/L	2.0	23.0	29800 [2]	39.9
Toluene	0.5 ug/L	31.2	2.3	<2500 [2]	1.7
1,1,1-Trichloroethane	0.5 ug/L	<0.5	<0.5	<2500 [2]	<0.5
1,1,2-Trichloroethane	0.5 ug/L	<0.5	<0.5	<2500 [2]	<0.5
Trichloroethylene	0.5 ug/L	0.6	20.8	22000 [2]	16.0
Trichlorofluoromethane	1.0 ug/L	<1.0	<1.0	<5000 [2]	<1.0
Vinyl chloride	0.5 ug/L	344	293	<2500 [2]	274 [7]
m,p-Xylenes	0.5 ug/L	1.2	1.7	<2500 [2]	0.6
o-Xylene	0.5 ug/L	0.5	0.5	<2500 [2]	<0.5
Xylenes, total	0.5 ug/L	1.8	2.2	<2500 [2]	0.6
4-Bromofluorobenzene	Surrogate	101%	107%	102% [2]	108%
Dibromofluoromethane	Surrogate	101%	118%	116% [2]	120%

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 30-Jun-2023

Client PO:

Project Description: 122170424.300.301

	Client ID:	MW08-31A	MW08-32A	MW08-33A	MW08-34
	Sample Date:	30-Jun-23 12:00	30-Jun-23 12:30	30-Jun-23 01:00	30-Jun-23 01:30
	Sample ID:	2326529-05	2326529-06	2326529-07	2326529-08
	MDL/Units	Ground Water	Ground Water	Ground Water	Ground Water
Toluene-d8	Surrogate	102%	106%	100% [2]	105%
Hydrocarbons					
F1 PHCs (C6-C10)	25 ug/L	<25	<25	<125000 [2]	<25
F2 PHCs (C10-C16)	100 ug/L	<100	640	<100	<100
F3 PHCs (C16-C34)	100 ug/L	<100	1060	<100	217
F4 PHCs (C34-C50)	100 ug/L	<100	585	<100	200
Semi-Volatiles					
Acenaphthene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Anthracene	0.01 ug/L	<0.01	<0.01	<0.01	<0.01
Benzo [a] anthracene	0.01 ug/L	<0.01	<0.01	<0.01	<0.01
Benzo [a] pyrene	0.01 ug/L	<0.01	<0.01	<0.01	<0.01
Benzo [b] fluoranthene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Benzo [g,h,i] perylene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Benzo [k] fluoranthene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Chrysene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Dibenzo [a,h] anthracene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Fluoranthene	0.01 ug/L	<0.01	<0.01	<0.01	<0.01
Fluorene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Indeno [1,2,3-cd] pyrene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
1-Methylnaphthalene	0.05 ug/L	<0.05	<0.05	0.38	<0.05
2-Methylnaphthalene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Methylnaphthalene (1&2)	0.10 ug/L	<0.10	<0.10	0.38	<0.10
Naphthalene	0.05 ug/L	<0.05	<0.05	1.78	<0.05
Phenanthrene	0.05 ug/L	<0.05	<0.05	<0.05	<0.05
Pyrene	0.01 ug/L	<0.01	<0.01	0.05	<0.01
2-Fluorobiphenyl	Surrogate	93.2%	89.6%	90.2%	109%
Terphenyl-d14	Surrogate	113%	87.4%	120%	119%

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 30-Jun-2023

Client PO:

Project Description: 122170424.300.301

Client ID:	Trip Blank	Field Blank	-	-
Sample Date:	20-Jun-23 00:00	30-Jun-23 00:00	-	-
Sample ID:	2326529-09	2326529-10	-	-
MDL/Units	Water	Water	-	-

Volatiles

Acetone	5.0 ug/L	<5.0	<5.0	-	-
Benzene	0.5 ug/L	<0.5	<0.5	-	-
Bromodichloromethane	0.5 ug/L	<0.5	<0.5	-	-
Bromoform	0.5 ug/L	<0.5	<0.5	-	-
Bromomethane	0.5 ug/L	<0.5	<0.5	-	-
Carbon Tetrachloride	0.2 ug/L	<0.2	<0.2	-	-
Chlorobenzene	0.5 ug/L	<0.5	<0.5	-	-
Chloroform	0.5 ug/L	<0.5	<0.5	-	-
Dibromochloromethane	0.5 ug/L	<0.5	<0.5	-	-
Dichlorodifluoromethane	1.0 ug/L	<1.0	<1.0	-	-
1,2-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	-	-
1,3-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	-	-
1,4-Dichlorobenzene	0.5 ug/L	<0.5	<0.5	-	-
1,1-Dichloroethane	0.5 ug/L	<0.5	<0.5	-	-
1,2-Dichloroethane	0.5 ug/L	<0.5	<0.5	-	-
1,1-Dichloroethylene	0.5 ug/L	<0.5	<0.5	-	-
cis-1,2-Dichloroethylene	0.5 ug/L	<0.5	<0.5	-	-
trans-1,2-Dichloroethylene	0.5 ug/L	<0.5	<0.5	-	-
1,2-Dichloropropane	0.5 ug/L	<0.5	<0.5	-	-
cis-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	-	-
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	-	-
1,3-Dichloropropene, total	0.5 ug/L	<0.5	<0.5	-	-
Ethylbenzene	0.5 ug/L	<0.5	<0.5	-	-
Ethylene dibromide (dibromoethane, 1	0.2 ug/L	<0.2	<0.2	-	-
Hexane	1.0 ug/L	<1.0	<1.0	-	-
Methyl Ethyl Ketone (2-Butanone)	5.0 ug/L	<5.0	<5.0	-	-
Methyl Isobutyl Ketone	5.0 ug/L	<5.0	<5.0	-	-
Methyl tert-butyl ether	2.0 ug/L	<2.0	<2.0	-	-
Methylene Chloride	5.0 ug/L	<5.0	<5.0	-	-
Styrene	0.5 ug/L	<0.5	<0.5	-	-
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	-	-
1,1,2,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	-	-
Tetrachloroethylene	0.5 ug/L	<0.5	<0.5	-	-
Toluene	0.5 ug/L	<0.5	<0.5	-	-

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 30-Jun-2023

Client PO:

Project Description: 122170424.300.301

		Client ID:	Trip Blank	Field Blank	-	-
		Sample Date:	20-Jun-23 00:00	30-Jun-23 00:00	-	-
		Sample ID:	2326529-09	2326529-10	-	-
		MDL/Units	Water	Water	-	-
1,1,1-Trichloroethane	0.5 ug/L		<0.5	<0.5	-	-
1,1,2-Trichloroethane	0.5 ug/L		<0.5	<0.5	-	-
Trichloroethylene	0.5 ug/L		<0.5	<0.5	-	-
Trichlorofluoromethane	1.0 ug/L		<1.0	<1.0	-	-
Vinyl chloride	0.5 ug/L		<0.5	<0.5	-	-
m,p-Xylenes	0.5 ug/L		<0.5	<0.5	-	-
o-Xylene	0.5 ug/L		<0.5	<0.5	-	-
Xylenes, total	0.5 ug/L		<0.5	<0.5	-	-
4-Bromofluorobenzene	Surrogate		103%	103%	-	-
Dibromofluoromethane	Surrogate		106%	117%	-	-
Toluene-d8	Surrogate		104%	103%	-	-
Hydrocarbons						
F1 PHCs (C6-C10)	25 ug/L		-	<25	-	-

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 30-Jun-2023

Client PO:

Project Description: 122170424.300.301

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions									
Chloride	ND	1	mg/L						
General Inorganics									
Cyanide, free	ND	2	ug/L						
Hydrocarbons									
F1 PHCs (C6-C10)	ND	25	ug/L						
F2 PHCs (C10-C16)	ND	100	ug/L						
F3 PHCs (C16-C34)	ND	100	ug/L						
F4 PHCs (C34-C50)	ND	100	ug/L						
Metals									
Antimony	ND	0.5	ug/L						
Arsenic	ND	1	ug/L						
Barium	ND	1	ug/L						
Beryllium	ND	0.5	ug/L						
Boron	ND	10	ug/L						
Cadmium	ND	0.1	ug/L						
Chromium	ND	1	ug/L						
Cobalt	ND	0.5	ug/L						
Copper	ND	0.5	ug/L						
Lead	ND	0.1	ug/L						
Molybdenum	ND	0.5	ug/L						
Nickel	ND	1	ug/L						
Selenium	ND	1	ug/L						
Silver	ND	0.1	ug/L						
Sodium	ND	200	ug/L						
Thallium	ND	0.1	ug/L						
Uranium	ND	0.1	ug/L						
Vanadium	ND	0.5	ug/L						
Zinc	ND	5	ug/L						
Semi-Volatiles									
Acenaphthene	ND	0.05	ug/L						
Acenaphthylene	ND	0.05	ug/L						
Anthracene	ND	0.01	ug/L						
Benzo [a] anthracene	ND	0.01	ug/L						
Benzo [a] pyrene	ND	0.01	ug/L						
Benzo [b] fluoranthene	ND	0.05	ug/L						
Benzo [g,h,i] perylene	ND	0.05	ug/L						
Benzo [k] fluoranthene	ND	0.05	ug/L						
Chrysene	ND	0.05	ug/L						
Dibenzo [a,h] anthracene	ND	0.05	ug/L						
Fluoranthene	ND	0.01	ug/L						
Fluorene	ND	0.05	ug/L						
Indeno [1,2,3-cd] pyrene	ND	0.05	ug/L						
1-Methylnaphthalene	ND	0.05	ug/L						
2-Methylnaphthalene	ND	0.05	ug/L						
Methylnaphthalene (1&2)	ND	0.10	ug/L						
Naphthalene	ND	0.05	ug/L						
Phenanthrene	ND	0.05	ug/L						
Pyrene	ND	0.01	ug/L						
Surrogate: 2-Fluorobiphenyl	14.6		ug/L		72.8	50-140			
Surrogate: Terphenyl-d14	18.6		ug/L		93.1	50-140			
Volatiles									
Acetone	ND	5.0	ug/L						
Benzene	ND	0.5	ug/L						
Bromodichloromethane	ND	0.5	ug/L						
Bromoform	ND	0.5	ug/L						
Bromomethane	ND	0.5	ug/L						
Carbon Tetrachloride	ND	0.2	ug/L						

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 30-Jun-2023

Client PO:

Project Description: 122170424.300.301

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Chlorobenzene	ND	0.5	ug/L						
Chloroform	ND	0.5	ug/L						
Dibromochloromethane	ND	0.5	ug/L						
Dichlorodifluoromethane	ND	1.0	ug/L						
1,2-Dichlorobenzene	ND	0.5	ug/L						
1,3-Dichlorobenzene	ND	0.5	ug/L						
1,4-Dichlorobenzene	ND	0.5	ug/L						
1,1-Dichloroethane	ND	0.5	ug/L						
1,2-Dichloroethane	ND	0.5	ug/L						
1,1-Dichloroethylene	ND	0.5	ug/L						
cis-1,2-Dichloroethylene	ND	0.5	ug/L						
trans-1,2-Dichloroethylene	ND	0.5	ug/L						
1,2-Dichloropropane	ND	0.5	ug/L						
cis-1,3-Dichloropropylene	ND	0.5	ug/L						
trans-1,3-Dichloropropylene	ND	0.5	ug/L						
1,3-Dichloropropene, total	ND	0.5	ug/L						
Ethylbenzene	ND	0.5	ug/L						
Ethylene dibromide (dibromoethane, 1,2-	ND	0.2	ug/L						
Hexane	ND	1.0	ug/L						
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L						
Methyl Isobutyl Ketone	ND	5.0	ug/L						
Methyl tert-butyl ether	ND	2.0	ug/L						
Methylene Chloride	ND	5.0	ug/L						
Styrene	ND	0.5	ug/L						
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L						
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L						
Tetrachloroethylene	ND	0.5	ug/L						
Toluene	ND	0.5	ug/L						
1,1,1-Trichloroethane	ND	0.5	ug/L						
1,1,2-Trichloroethane	ND	0.5	ug/L						
Trichloroethylene	ND	0.5	ug/L						
Trichlorofluoromethane	ND	1.0	ug/L						
Vinyl chloride	ND	0.5	ug/L						
m,p-Xylenes	ND	0.5	ug/L						
o-Xylene	ND	0.5	ug/L						
Xylenes, total	ND	0.5	ug/L						
Surrogate: 4-Bromofluorobenzene	85.0		ug/L		106	50-140			
Surrogate: Dibromofluoromethane	87.6		ug/L		110	50-140			
Surrogate: Toluene-d8	84.9		ug/L		106	50-140			

Certificate of Analysis

Report Date: 14-Jul-2023

Client: **Stantec Consulting Ltd. (Ottawa)**

Order Date: 30-Jun-2023

Client PO:

Project Description: **122170424.300.301**

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions									
Chloride	16.5	1	mg/L	16.5			0.0	20	
General Inorganics									
Cyanide, free	ND	2	ug/L	ND			NC	20	
pH	7.3	0.1	pH Units	7.3			0.4	3.3	
Hydrocarbons									
F1 PHCs (C6-C10)	ND	25	ug/L	ND			NC	30	
Metals									
Antimony	ND	0.5	ug/L	ND			NC	20	
Arsenic	4.4	1	ug/L	4.4			1.5	20	
Barium	600	1	ug/L	659			9.5	20	
Beryllium	ND	0.5	ug/L	ND			NC	20	
Boron	625	10	ug/L	618			1.1	20	
Cadmium	ND	0.1	ug/L	ND			NC	20	
Chromium	ND	1	ug/L	1.0			NC	20	
Cobalt	ND	0.5	ug/L	ND			NC	20	
Copper	1.71	0.5	ug/L	1.62			5.4	20	
Lead	0.50	0.1	ug/L	0.43			15.2	20	
Molybdenum	2.62	0.5	ug/L	2.72			3.5	20	
Nickel	2.5	1	ug/L	2.6			1.9	20	
Selenium	ND	1	ug/L	ND			NC	20	
Silver	ND	0.1	ug/L	ND			NC	20	
Sodium	904000	7790	ug/L	821000			9.6	20	
Thallium	ND	0.1	ug/L	ND			NC	20	
Uranium	4.3	0.1	ug/L	4.4			3.4	20	
Vanadium	3.80	0.5	ug/L	3.79			0.2	20	
Zinc	ND	5	ug/L	ND			NC	20	
Volatiles									
Acetone	ND	5.0	ug/L	ND			NC	30	
Benzene	ND	0.5	ug/L	ND			NC	30	
Bromodichloromethane	2.90	0.5	ug/L	2.44			17.2	30	
Bromoform	ND	0.5	ug/L	ND			NC	30	
Bromomethane	ND	0.5	ug/L	ND			NC	30	
Carbon Tetrachloride	ND	0.2	ug/L	ND			NC	30	
Chlorobenzene	ND	0.5	ug/L	ND			NC	30	
Chloroform	12.7	0.5	ug/L	13.3			4.8	30	
Dibromochloromethane	ND	0.5	ug/L	ND			NC	30	
Dichlorodifluoromethane	ND	1.0	ug/L	ND			NC	30	
1,2-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,3-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,4-Dichlorobenzene	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
cis-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
trans-1,2-Dichloroethylene	ND	0.5	ug/L	ND			NC	30	
1,2-Dichloropropane	ND	0.5	ug/L	ND			NC	30	
cis-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
trans-1,3-Dichloropropylene	ND	0.5	ug/L	ND			NC	30	
Ethylbenzene	ND	0.5	ug/L	ND			NC	30	
Ethylene dibromide (dibromoethane, 1,2-	ND	0.2	ug/L	ND			NC	30	
Hexane	ND	1.0	ug/L	ND			NC	30	
Methyl Ethyl Ketone (2-Butanone)	ND	5.0	ug/L	ND			NC	30	
Methyl Isobutyl Ketone	ND	5.0	ug/L	ND			NC	30	
Methyl tert-butyl ether	ND	2.0	ug/L	ND			NC	30	
Methylene Chloride	ND	5.0	ug/L	ND			NC	30	
Styrene	ND	0.5	ug/L	ND			NC	30	

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 30-Jun-2023

Client PO:

Project Description: 122170424.300.301

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	ND			NC	30	
Tetrachloroethylene	ND	0.5	ug/L	ND			NC	30	
Toluene	ND	0.5	ug/L	ND			NC	30	
1,1,1-Trichloroethane	ND	0.5	ug/L	ND			NC	30	
1,1,2-Trichloroethane	ND	0.5	ug/L	ND			NC	30	
Trichloroethylene	ND	0.5	ug/L	ND			NC	30	
Trichlorofluoromethane	ND	1.0	ug/L	ND			NC	30	
Vinyl chloride	ND	0.5	ug/L	ND			NC	30	
m,p-Xylenes	ND	0.5	ug/L	ND			NC	30	
o-Xylene	ND	0.5	ug/L	ND			NC	30	
Surrogate: 4-Bromofluorobenzene	84.4		ug/L		106	50-140			
Surrogate: Dibromofluoromethane	95.7		ug/L		120	50-140			
Surrogate: Toluene-d8	84.4		ug/L		106	50-140			

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 30-Jun-2023

Client PO:

Project Description: 122170424.300.301

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Anions									
Chloride	26.2	1	mg/L	16.5	96.9	70-124			
General Inorganics									
Cyanide, free	50.3	2	ug/L	ND	101	61-139			
Hydrocarbons									
F1 PHCs (C6-C10)	1740	25	ug/L	ND	87.1	68-117			
F2 PHCs (C10-C16)	1510	100	ug/L	ND	94.6	60-140			
F3 PHCs (C16-C34)	3620	100	ug/L	ND	92.3	60-140			
F4 PHCs (C34-C50)	2170	100	ug/L	ND	87.7	60-140			
Metals									
Arsenic	57.8	1	ug/L	4.4	107	80-120			
Beryllium	41.6	0.5	ug/L	ND	83.0	80-120			
Boron	52	10	ug/L	ND	104	80-120			
Cadmium	53.3	0.1	ug/L	ND	107	80-120			
Chromium	61.6	1	ug/L	1.0	121	80-120			QM-07
Cobalt	54.6	0.5	ug/L	ND	108	80-120			
Copper	48.6	0.5	ug/L	1.62	93.9	80-120			
Lead	36.7	0.1	ug/L	0.43	72.6	80-120			QM-07
Molybdenum	50.4	0.5	ug/L	2.72	95.4	80-120			
Nickel	53.1	1	ug/L	2.6	101	80-120			
Selenium	43.9	1	ug/L	ND	87.4	80-120			
Silver	51.9	0.1	ug/L	ND	104	80-120			
Sodium	11300	200	ug/L	ND	113	80-120			
Thallium	50.4	0.1	ug/L	ND	101	80-120			
Uranium	54.5	0.1	ug/L	4.4	100	80-120			
Vanadium	56.1	0.5	ug/L	ND	112	80-120			
Zinc	53	5	ug/L	ND	105	80-120			
Semi-Volatiles									
Acenaphthene	4.08	0.05	ug/L	ND	81.7	50-140			
Acenaphthylene	4.09	0.05	ug/L	ND	81.9	50-140			
Anthracene	4.18	0.01	ug/L	ND	83.6	50-140			
Benzo [a] anthracene	4.53	0.01	ug/L	ND	90.6	50-140			
Benzo [a] pyrene	3.91	0.01	ug/L	ND	78.2	50-140			
Benzo [b] fluoranthene	4.99	0.05	ug/L	ND	99.8	50-140			
Benzo [g,h,i] perylene	5.13	0.05	ug/L	ND	103	50-140			
Benzo [k] fluoranthene	4.42	0.05	ug/L	ND	88.5	50-140			
Chrysene	4.34	0.05	ug/L	ND	86.9	50-140			
Dibenzo [a,h] anthracene	4.65	0.05	ug/L	ND	93.1	50-140			
Fluoranthene	4.46	0.01	ug/L	ND	89.2	50-140			
Fluorene	4.38	0.05	ug/L	ND	87.6	50-140			
Indeno [1,2,3-cd] pyrene	5.17	0.05	ug/L	ND	103	50-140			
1-Methylnaphthalene	4.43	0.05	ug/L	ND	88.6	50-140			
2-Methylnaphthalene	4.94	0.05	ug/L	ND	98.9	50-140			
Naphthalene	3.71	0.05	ug/L	ND	74.2	50-140			
Phenanthrene	4.14	0.05	ug/L	ND	82.8	50-140			
Pyrene	4.41	0.01	ug/L	ND	88.3	50-140			
Surrogate: 2-Fluorobiphenyl	12.5		ug/L		62.6	50-140			
Surrogate: Terphenyl-d14	16.8		ug/L		83.8	50-140			

Certificate of Analysis

Report Date: 14-Jul-2023

Client: Stantec Consulting Ltd. (Ottawa)

Order Date: 30-Jun-2023

Client PO:

Project Description: 122170424.300.301

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Acetone	72.7	5.0	ug/L	ND	72.7	50-140			
Benzene	25.7	0.5	ug/L	ND	64.4	60-130			
Bromodichloromethane	34.0	0.5	ug/L	ND	84.9	60-130			
Bromoform	24.2	0.5	ug/L	ND	60.4	60-130			
Bromomethane	43.5	0.5	ug/L	ND	109	50-140			
Carbon Tetrachloride	37.8	0.2	ug/L	ND	94.5	60-130			
Chlorobenzene	32.8	0.5	ug/L	ND	81.9	60-130			
Chloroform	37.2	0.5	ug/L	ND	93.1	60-130			
Dibromochloromethane	37.1	0.5	ug/L	ND	92.8	60-130			
Dichlorodifluoromethane	46.1	1.0	ug/L	ND	115	50-140			
1,2-Dichlorobenzene	29.8	0.5	ug/L	ND	74.6	60-130			
1,3-Dichlorobenzene	31.0	0.5	ug/L	ND	77.5	60-130			
1,4-Dichlorobenzene	30.0	0.5	ug/L	ND	75.0	60-130			
1,1-Dichloroethane	38.1	0.5	ug/L	ND	95.2	60-130			
1,2-Dichloroethane	27.9	0.5	ug/L	ND	69.7	60-130			
1,1-Dichloroethylene	45.2	0.5	ug/L	ND	113	60-130			
cis-1,2-Dichloroethylene	36.2	0.5	ug/L	ND	90.6	60-130			
trans-1,2-Dichloroethylene	39.8	0.5	ug/L	ND	99.5	60-130			
1,2-Dichloropropane	25.8	0.5	ug/L	ND	64.5	60-130			
cis-1,3-Dichloropropylene	39.3	0.5	ug/L	ND	98.3	60-130			
trans-1,3-Dichloropropylene	44.8	0.5	ug/L	ND	112	60-130			
Ethylbenzene	33.8	0.5	ug/L	ND	84.4	60-130			
Ethylene dibromide (dibromoethane, 1,2-	37.7	0.2	ug/L	ND	94.3	60-130			
Hexane	44.3	1.0	ug/L	ND	111	60-130			
Methyl Ethyl Ketone (2-Butanone)	66.0	5.0	ug/L	ND	66.0	50-140			
Methyl Isobutyl Ketone	86.5	5.0	ug/L	ND	86.5	50-140			
Methyl tert-butyl ether	80.0	2.0	ug/L	ND	80.0	50-140			
Methylene Chloride	37.2	5.0	ug/L	ND	93.0	60-130			
Styrene	27.8	0.5	ug/L	ND	69.6	60-130			
1,1,1,2-Tetrachloroethane	45.6	0.5	ug/L	ND	114	60-130			
1,1,2,2-Tetrachloroethane	33.7	0.5	ug/L	ND	84.2	60-130			
Tetrachloroethylene	32.6	0.5	ug/L	ND	81.5	60-130			
Toluene	32.8	0.5	ug/L	ND	82.1	60-130			
1,1,1-Trichloroethane	40.4	0.5	ug/L	ND	101	60-130			
1,1,2-Trichloroethane	25.9	0.5	ug/L	ND	64.7	60-130			
Trichloroethylene	25.5	0.5	ug/L	ND	63.8	60-130			
Trichlorofluoromethane	43.7	1.0	ug/L	ND	109	60-130			
Vinyl chloride	46.4	0.5	ug/L	ND	116	50-140			
m,p-Xylenes	67.5	0.5	ug/L	ND	84.4	60-130			
o-Xylene	32.5	0.5	ug/L	ND	81.2	60-130			
Surrogate: 4-Bromofluorobenzene	89.8		ug/L		112	50-140			
Surrogate: Dibromofluoromethane	98.6		ug/L		123	50-140			
Surrogate: Toluene-d8	80.0		ug/L		100	50-140			

Certificate of Analysis

Client: Stantec Consulting Ltd. (Ottawa)

Client PO:

Report Date: 14-Jul-2023

Order Date: 30-Jun-2023

Project Description: 122170424.300.301

Qualifier Notes:

Sample Qualifiers :

- 1 : Elevated Reporting Limit due to matrix interference.
- 2 : Elevated reporting limit due to dilution required because of high target analyte concentration.
- 5 : The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
- 6 : The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 7 : VOC result based on an analysis taken from a previously analyzed sample vial (due to multiple dilutions). Results may be biased low.

QC Qualifiers :

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on other acceptable QC.

Sample Data Revisions

None

Work Order Revisions / Comments:

None

Other Report Notes:

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

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.
- F1 range corrected for BTEX.
- F2 to F3 ranges corrected for appropriate PAHs where available.
- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.
- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC critere
- When reported, data for F4G has been processed using a silica gel cleanup.



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Parcel Order Number
(Lab Use Only)

2326529

Chain Of Custody
(Lab Use Only)

No 71552

Client Name: <u>Stantec</u>	Project Ref: <u>22170424.300.301</u>	Page <u>1</u> of <u>1</u>
Contact Name: <u>Dylan Hemmings/Jason Aske</u>	Quote #: <u>JA</u>	Turnaround Time ☐ 1 day ☐ 3 day ☐ 2 day ☒ Regular Date Required: _____
Address: <u>1331 Clyde Ottawa, Ontario</u>	PO #: <u>JA</u>	
Telephone: <u>JA</u>	E-mail: <u>Dylan.Hemmings@Stantec.com, Jason.Aske@Stantec.com</u>	

☒ REG 153/04 ☐ REG 406/19 ☐ Table 1 ☐ Res/Park ☐ Med/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ Table _____ For RSC: ☒ Yes ☐ No	Other Regulation ☐ REG 558 ☐ PWQO ☐ CCME ☐ MISA ☐ SU - Sani ☐ SU - Storm Mun: _____ ☐ Other: _____	Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)	Required Analysis VOC's PHC FI-F4 PAH'S ICD metabolites and inorganics FI BTEX							
Sample ID/Location Name	Matrix	Air Volume	# of Containers	Date	Time	VOC's	PHC FI-F4	PAH'S	ICD metabolites and inorganics	FI BTEX
1 MW19-13A	GLW		7	23/06/30	8:30	X	X	X	X	
2 MW19-13B			7		9:30	X	X	X	X	
3 MW14-1A			7		10:30	X	X	X	X	
4 MW14-1B			7		11:30	X	X	X	X	
5 MW08-31A			7		12:00	X	X	X	X	
6 MW08-32A			7		12:30	X	X	X	X	
7 MW08-33A			7		1:00	X	X	X	X	
8 MW08-34			7		1:30	X	X	X	X	
9 Trip Blank			1			X				
10 Field Blank			2	30/06/23		X				X

Comments:	JUN 20, 2023			Method of Delivery: <u>Walk In</u>
Relinquished By (Sign): <u>JA</u>	Received By Driver/Depot:	Received at: <u>1403</u>	Verified By: <u>JA</u>	
Relinquished By (Print): <u>Jason Aske</u>	Date/Time:	Date/Time: <u>June 30/23</u>	Date/Time: <u>June 30/23 1436</u>	
Date/Time: <u>23/06/30 2:00pm</u>	Temperature: _____ °C	Temperature: <u>16.4, 15.2, 19.0</u>	pH Verified: ☒ (pH)	



Your Project #: 122170424
Your C.O.C. #: 51943

Attention: Dylan Hemmings

Stantec Consulting Ltd
1331 Clyde Avenue
Suite 400
Ottawa, ON
CANADA K2C 3G4

Report Date: 2023/07/07
Report #: R7704373
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C314573

Received: 2023/06/22, 08:46

Sample Matrix: Air
Samples Received: 12

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
BTEX Fractionation in Air (TO-15mod)	12	N/A	2023/06/27	BRL SOP-00304	EPA TO-15 m
Canister Pressure (TO-15)	12	N/A	2023/06/27	BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (ug/m3)	12	N/A	2023/07/04	BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	12	N/A	2023/06/27	BRL SOP-00304	EPA TO-15 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) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.



Your Project #: 122170424
Your C.O.C. #: 51943

Attention: Dylan Hemmings

Stantec Consulting Ltd
1331 Clyde Avenue
Suite 400
Ottawa, ON
CANADA K2C 3G4

Report Date: 2023/07/07
Report #: R7704373
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C314573

Received: 2023/06/22, 08:46

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:

Cristina (Maria) Bacchus, Project Manager

Email: maria.bacchus@bureauveritas.com

Phone# (905)817-5763

=====

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 #: C314573
Report Date: 2023/07/07

Stantec Consulting Ltd
Client Project #: 122170424
Sampler Initials: TS

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		WES137	WES138	WES139	WES140	WES141	WES142	WES143	
Sampling Date		2023/06/21	2023/06/21	2023/06/21	2023/06/21	2023/06/21	2023/06/21	2023/06/21	
COC Number		51943	51943	51943	51943	51943	51943	51943	
	UNITS	VP07-1	VP07-3	VP12-1	VP12-2	VP12-3	VP14-1	VP14-2	QC Batch

Volatile Organics									
Pressure on Receipt	psig	(-5.4)	(-4.1)	(-4.7)	(-7.1)	(-5.4)	(-4.0)	(-3.6)	8760060
QC Batch = Quality Control Batch									

Bureau Veritas ID		WES144	WES145	WES146	WES147	WES148	
Sampling Date		2023/06/21	2023/06/21	2023/06/21	2023/06/22	2023/06/22	
COC Number		51943	51943	51943	51943	51943	
	UNITS	VP14-7	VP14-10	QC-01	VP14-3	QC-02	QC Batch

Volatile Organics							
Pressure on Receipt	psig	(-4.1)	(-6.6)	(-5.2)	(-4.9)	(-4.9)	8760060
QC Batch = Quality Control Batch							



BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		WES137		WES138		WES139		WES140		WES141		
Sampling Date		2023/06/21		2023/06/21		2023/06/21		2023/06/21		2023/06/21		
COC Number		51943		51943		51943		51943		51943		
	UNITS	VP07-1	RDL	VP07-3	RDL	VP12-1	RDL	VP12-2	RDL	VP12-3	RDL	QC Batch

Volatile Organics

Dichlorodifluoromethane (FREON 12)	ppbv	0.37	0.20	0.43	0.20	0.42	0.20	0.58	0.38	0.55	0.20	8754618
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<0.17	0.17	<0.17	0.17	<0.32	0.32	<0.17	0.17	8754618
Chloromethane	ppbv	<0.30	0.30	0.31	0.30	1.06	0.30	0.73	0.57	0.41	0.30	8754618
Vinyl Chloride	ppbv	<0.10	0.10	<0.10	0.10	0.12	0.10	<0.19	0.19	0.13	0.10	8754618
Chloroethane	ppbv	<0.30	0.30	<0.30	0.30	<0.30	0.30	<0.57	0.57	<0.30	0.30	8754618
1,3-Butadiene	ppbv	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.95	0.95	<0.50	0.50	8754618
Trichlorofluoromethane (FREON 11)	ppbv	0.24	0.20	0.31	0.20	0.27	0.20	<0.38	0.38	0.27	0.20	8754618
Ethanol (ethyl alcohol)	ppbv	4.6	1.0	3.8	1.0	4.4	1.0	10.1	1.9	2.1	1.0	8754618
Trichlorotrifluoroethane	ppbv	<0.15	0.15	<0.15	0.15	<0.15	0.15	<0.29	0.29	<0.15	0.15	8754618
2-propanol	ppbv	<1.0	1.0	<1.0	1.0	1.3	1.0	<1.9	1.9	<1.0	1.0	8754618
2-Propanone	ppbv	1.35	0.60	1.88	0.60	14.2	0.60	11.3	1.1	3.26	0.60	8754618
Methyl Ethyl Ketone (2-Butanone)	ppbv	1.74	0.20	14.5	0.20	15.2	0.20	36.9	0.38	5.85	0.20	8754618
Methyl Isobutyl Ketone	ppbv	<0.20	0.20	0.31	0.20	0.41	0.20	0.65	0.38	<0.20	0.20	8754618
Methyl Butyl Ketone (2-Hexanone)	ppbv	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.9	1.9	<1.0	1.0	8754618
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.38	0.38	<0.20	0.20	8754618
Ethyl Acetate	ppbv	<1.0	1.0	7.1	1.0	7.1	1.0	16.8	1.9	3.0	1.0	8754618
1,1-Dichloroethylene	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	<0.19	0.19	<0.10	0.10	8754618
cis-1,2-Dichloroethylene	ppbv	0.20	0.10	10.3	0.10	42.3	0.10	0.57	0.19	157	0.36	8754618
trans-1,2-Dichloroethylene	ppbv	<0.10	0.10	0.36	0.10	2.41	0.10	<0.19	0.19	4.26	0.10	8754618
Methylene Chloride(Dichloromethane)	ppbv	<0.60	0.60	<0.60	0.60	<0.60	0.60	<1.1	1.1	<0.60	0.60	8754618
Chloroform	ppbv	1.61	0.10	0.36	0.10	0.27	0.10	<0.19	0.19	0.33	0.10	8754618
Carbon Tetrachloride	ppbv	<0.10	0.10	0.13	0.10	0.10	0.10	<0.19	0.19	0.11	0.10	8754618
1,1-Dichloroethane	ppbv	<0.10	0.10	0.17	0.10	<0.10	0.10	<0.19	0.19	<0.10	0.10	8754618
1,2-Dichloroethane	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	<0.19	0.19	<0.10	0.10	8754618
Ethylene Dibromide	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	<0.19	0.19	<0.10	0.10	8754618
1,1,1-Trichloroethane	ppbv	0.26	0.10	0.75	0.10	<0.10	0.10	<0.19	0.19	<0.10	0.10	8754618
1,1,2-Trichloroethane	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	<0.19	0.19	<0.10	0.10	8754618
1,1,2,2-Tetrachloroethane	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	<0.19	0.19	<0.10	0.10	8754618
cis-1,3-Dichloropropene	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	<0.19	0.19	<0.10	0.10	8754618
trans-1,3-Dichloropropene	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	<0.19	0.19	<0.10	0.10	8754618
1,2-Dichloropropane	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	<0.19	0.19	<0.10	0.10	8754618
Bromomethane	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	<0.19	0.19	<0.10	0.10	8754618

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		WES137		WES138		WES139		WES140		WES141		
Sampling Date		2023/06/21		2023/06/21		2023/06/21		2023/06/21		2023/06/21		
COC Number		51943		51943		51943		51943		51943		
	UNITS	VP07-1	RDL	VP07-3	RDL	VP12-1	RDL	VP12-2	RDL	VP12-3	RDL	QC Batch
Bromoform	ppbv	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.38	0.38	<0.20	0.20	8754618
Bromodichloromethane	ppbv	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.38	0.38	<0.20	0.20	8754618
Dibromochloromethane	ppbv	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.38	0.38	<0.20	0.20	8754618
Trichloroethylene	ppbv	10.5	0.10	16.0	0.10	57.5	0.10	1.58	0.19	108	0.36	8754618
Tetrachloroethylene	ppbv	41.5	0.10	18.7	0.10	107	0.10	2.38	0.19	311	0.36	8754618
Benzene	ppbv	0.12	0.10	0.58	0.10	0.89	0.10	1.34	0.19	0.42	0.10	8754618
Toluene	ppbv	3.85	0.10	26.5	0.10	31.0	0.10	49.6	0.19	14.7	0.10	8754618
Ethylbenzene	ppbv	0.15	0.10	0.94	0.10	1.17	0.10	1.01	0.19	0.73	0.10	8754618
p+m-Xylene	ppbv	0.53	0.20	3.10	0.20	4.10	0.20	2.97	0.38	2.59	0.20	8754618
o-Xylene	ppbv	0.19	0.10	1.07	0.10	1.41	0.10	1.04	0.19	0.96	0.10	8754618
Styrene	ppbv	0.15	0.10	0.79	0.10	1.03	0.10	0.71	0.19	0.67	0.10	8754618
4-ethyltoluene	ppbv	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.95	0.95	<0.50	0.50	8754618
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.95	0.95	<0.50	0.50	8754618
1,2,4-Trimethylbenzene	ppbv	<0.50	0.50	0.51	0.50	0.73	0.50	<0.95	0.95	0.81	0.50	8754618
Chlorobenzene	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	<0.19	0.19	<0.10	0.10	8754618
Benzyl chloride	ppbv	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.95	0.95	<0.50	0.50	8754618
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.76	0.76	<0.40	0.40	8754618
1,4-Dichlorobenzene	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	<0.19	0.19	<0.10	0.10	8754618
1,2-Dichlorobenzene	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	<0.19	0.19	<0.10	0.10	8754618
1,2,4-Trichlorobenzene	ppbv	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.95	0.95	<0.50	0.50	8754618
Hexachlorobutadiene	ppbv	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.95	0.95	<0.50	0.50	8754618
Hexane	ppbv	<0.50	0.50	<2.5	2.5	<2.5	2.5	<5.5	5.5	<1.2	1.2	8754618
Heptane	ppbv	<0.30	0.30	0.72	0.30	0.97	0.30	1.67	0.57	0.39	0.30	8754618
Cyclohexane	ppbv	<0.20	0.20	0.41	0.20	0.26	0.20	0.96	0.38	<0.40	0.40	8754618
Tetrahydrofuran	ppbv	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.76	0.76	<0.40	0.40	8754618
1,4-Dioxane	ppbv	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.9	1.9	<1.0	1.0	8754618
Naphthalene	ppbv	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.38	0.38	<0.20	0.20	8754618
Total Xylenes	ppbv	0.72	0.30	4.16	0.30	5.51	0.30	4.01	0.57	3.55	0.30	8754618
1,1,1,2-Tetrachloroethane	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	<0.19	0.19	<0.10	0.10	8754618
Vinyl Bromide	ppbv	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.38	0.38	<0.20	0.20	8754618
Propene	ppbv	<1.3	1.3	<1.1	1.1	2.49	0.50	2.70	0.95	<1.6	1.6	8754618
2,2,4-Trimethylpentane	ppbv	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.50	0.50	<0.20	0.20	8754618
Carbon Disulfide	ppbv	2.62	0.50	1.90	0.50	5.19	0.50	0.99	0.95	2.09	0.50	8754618

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		WES137		WES138		WES139		WES140		WES141		
Sampling Date		2023/06/21		2023/06/21		2023/06/21		2023/06/21		2023/06/21		
COC Number		51943		51943		51943		51943		51943		
	UNITS	VP07-1	RDL	VP07-3	RDL	VP12-1	RDL	VP12-2	RDL	VP12-3	RDL	QC Batch
Vinyl Acetate	ppbv	<0.20	0.20	<0.20	0.20	<0.20	0.20	<0.38	0.38	<0.20	0.20	8754618
Surrogate Recovery (%)												
Bromochloromethane	%	85		85		86		87		83		8754618
D5-Chlorobenzene	%	114		70		70		87		65		8754618
Difluorobenzene	%	81		79		81		81		73		8754618
RDL = Reportable Detection Limit												
QC Batch = Quality Control Batch												



VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		WES142		WES143	WES143		WES144		WES145		
Sampling Date		2023/06/21		2023/06/21	2023/06/21		2023/06/21		2023/06/21		
COC Number		51943		51943	51943		51943		51943		
	UNITS	VP14-1	RDL	VP14-2	VP14-2 Lab-Dup	RDL	VP14-7	RDL	VP14-10	RDL	QC Batch

Volatile Organics											
Dichlorodifluoromethane (FREON 12)	ppbv	0.49	0.20	0.43	0.50	0.20	1.27	0.20	0.62	0.36	8754618
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<0.17	<0.17	0.17	<0.17	0.17	<0.31	0.31	8754618
Chloromethane	ppbv	<0.30	0.30	<0.30	<0.30	0.30	<0.30	0.30	<0.54	0.54	8754618
Vinyl Chloride	ppbv	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	<0.18	0.18	8754618
Chloroethane	ppbv	<0.30	0.30	<0.30	<0.30	0.30	<0.30	0.30	<0.54	0.54	8754618
1,3-Butadiene	ppbv	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	<0.90	0.90	8754618
Trichlorofluoromethane (FREON 11)	ppbv	0.28	0.20	0.24	0.28	0.20	5.93	0.20	<0.36	0.36	8754618
Ethanol (ethyl alcohol)	ppbv	4.3	1.0	2.6	2.8	1.0	3.8	1.0	3.4	1.8	8754618
Trichlorotrifluoroethane	ppbv	0.16	0.15	<0.15	<0.15	0.15	<0.15	0.15	1.65	0.27	8754618
2-propanol	ppbv	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.8	1.8	8754618
2-Propanone	ppbv	4.65	0.60	1.10	1.28	0.60	2.46	0.60	1.4	1.1	8754618
Methyl Ethyl Ketone (2-Butanone)	ppbv	20.2	0.20	10.7	11.8	0.20	14.4	0.20	17.4	0.36	8754618
Methyl Isobutyl Ketone	ppbv	0.36	0.20	0.21	0.23	0.20	0.51	0.20	0.46	0.36	8754618
Methyl Butyl Ketone (2-Hexanone)	ppbv	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.8	1.8	8754618
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.20	<0.20	0.20	<0.20	0.20	<0.36	0.36	8754618
Ethyl Acetate	ppbv	9.6	1.0	5.3	5.6	1.0	7.0	1.0	8.7	1.8	8754618
1,1-Dichloroethylene	ppbv	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	<0.18	0.18	8754618
cis-1,2-Dichloroethylene	ppbv	0.35	0.10	<0.10	<0.10	0.10	<0.10	0.10	42.6	0.18	8754618
trans-1,2-Dichloroethylene	ppbv	0.21	0.10	<0.10	<0.10	0.10	<0.10	0.10	7.15	0.18	8754618
Methylene Chloride(Dichloromethane)	ppbv	<0.60	0.60	<0.60	<0.60	0.60	<0.60	0.60	<1.1	1.1	8754618
Chloroform	ppbv	0.81	0.10	0.18	0.19	0.10	2.65	0.10	1.52	0.18	8754618
Carbon Tetrachloride	ppbv	0.14	0.10	<0.10	0.11	0.10	<0.10	0.10	<0.18	0.18	8754618
1,1-Dichloroethane	ppbv	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	<0.18	0.18	8754618
1,2-Dichloroethane	ppbv	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	<0.18	0.18	8754618
Ethylene Dibromide	ppbv	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	<0.18	0.18	8754618
1,1,1-Trichloroethane	ppbv	0.18	0.10	0.15	0.17	0.10	<0.10	0.10	0.93	0.18	8754618
1,1,2-Trichloroethane	ppbv	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	<0.18	0.18	8754618
1,1,2,2-Tetrachloroethane	ppbv	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	<0.18	0.18	8754618
cis-1,3-Dichloropropene	ppbv	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	<0.18	0.18	8754618
trans-1,3-Dichloropropene	ppbv	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	<0.18	0.18	8754618
1,2-Dichloropropane	ppbv	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	<0.18	0.18	8754618
Bromomethane	ppbv	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	<0.18	0.18	8754618

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		WES142		WES143	WES143		WES144		WES145		
Sampling Date		2023/06/21		2023/06/21	2023/06/21		2023/06/21		2023/06/21		
COC Number		51943		51943	51943		51943		51943		
	UNITS	VP14-1	RDL	VP14-2	VP14-2 Lab-Dup	RDL	VP14-7	RDL	VP14-10	RDL	QC Batch
Bromoform	ppbv	<0.20	0.20	<0.20	<0.20	0.20	<0.20	0.20	<0.36	0.36	8754618
Bromodichloromethane	ppbv	<0.20	0.20	<0.20	<0.20	0.20	<0.20	0.20	<0.36	0.36	8754618
Dibromochloromethane	ppbv	<0.20	0.20	<0.20	<0.20	0.20	<0.20	0.20	<0.36	0.36	8754618
Trichloroethylene	ppbv	4.26	0.10	0.27	0.35	0.10	0.61	0.10	264	0.72	8754618
Tetrachloroethylene	ppbv	10.8	0.10	1.87	2.12	0.10	11.0	0.10	254	0.72	8754618
Benzene	ppbv	0.70	0.10	0.38	0.45	0.10	0.88	0.10	0.80	0.18	8754618
Toluene	ppbv	33.3	0.10	20.6	23.5	0.10	33.5	0.10	34.0	0.18	8754618
Ethylbenzene	ppbv	0.95	0.10	0.71	0.74	0.10	1.02	0.10	0.88	0.18	8754618
p+m-Xylene	ppbv	3.01	0.20	2.28	2.42	0.20	3.29	0.20	2.69	0.36	8754618
o-Xylene	ppbv	1.05	0.10	0.80	0.83	0.10	1.21	0.10	0.94	0.18	8754618
Styrene	ppbv	0.69	0.10	0.52	0.57	0.10	0.67	0.10	0.60	0.18	8754618
4-ethyltoluene	ppbv	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	<0.90	0.90	8754618
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	<0.90	0.90	8754618
1,2,4-Trimethylbenzene	ppbv	0.52	0.50	<0.50	<0.50	0.50	0.58	0.50	<0.90	0.90	8754618
Chlorobenzene	ppbv	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	<0.18	0.18	8754618
Benzyl chloride	ppbv	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	<0.90	0.90	8754618
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<0.40	<0.40	0.40	<0.40	0.40	<0.72	0.72	8754618
1,4-Dichlorobenzene	ppbv	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	<0.18	0.18	8754618
1,2-Dichlorobenzene	ppbv	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	<0.18	0.18	8754618
1,2,4-Trichlorobenzene	ppbv	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	<0.90	0.90	8754618
Hexachlorobutadiene	ppbv	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	<0.90	0.90	8754618
Hexane	ppbv	<3.4	3.4	<2.0	<2.0	2.0	<2.6	2.6	<3.2	3.2	8754618
Heptane	ppbv	0.95	0.30	0.54	0.63	0.30	0.94	0.30	0.95	0.54	8754618
Cyclohexane	ppbv	0.60	0.20	0.32	0.34	0.20	0.42	0.20	2.14	0.36	8754618
Tetrahydrofuran	ppbv	<0.40	0.40	<0.40	<0.40	0.40	<0.40	0.40	<0.72	0.72	8754618
1,4-Dioxane	ppbv	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.8	1.8	8754618
Naphthalene	ppbv	<0.20	0.20	<0.20	<0.20	0.20	<0.20	0.20	<0.36	0.36	8754618
Total Xylenes	ppbv	4.06	0.30	3.08	3.26	0.30	4.50	0.30	3.63	0.54	8754618
1,1,1,2-Tetrachloroethane	ppbv	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	<0.18	0.18	8754618
Vinyl Bromide	ppbv	<0.20	0.20	<0.20	<0.20	0.20	<0.20	0.20	<0.36	0.36	8754618
Propene	ppbv	<0.80	0.80	<0.90	<0.90	0.90	<1.8	1.8	<10	10	8754618
2,2,4-Trimethylpentane	ppbv	<0.30	0.30	<0.20	<0.20	0.20	<0.25	0.25	<0.36	0.36	8754618
Carbon Disulfide	ppbv	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	<0.90	0.90	8754618

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		WES142		WES143	WES143		WES144		WES145		
Sampling Date		2023/06/21		2023/06/21	2023/06/21		2023/06/21		2023/06/21		
COC Number		51943		51943	51943		51943		51943		
	UNITS	VP14-1	RDL	VP14-2	VP14-2 Lab-Dup	RDL	VP14-7	RDL	VP14-10	RDL	QC Batch
Vinyl Acetate	ppbv	<0.20	0.20	<0.20	<0.20	0.20	<0.20	0.20	<1.5	1.5	8754618
Surrogate Recovery (%)											
Bromochloromethane	%	84		87	79		79		86		8754618
D5-Chlorobenzene	%	70		74	71		73		86		8754618
Difluorobenzene	%	76		82	72		74		78		8754618
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate											



BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		WES146		WES147		WES148		
Sampling Date		2023/06/21		2023/06/22		2023/06/22		
COC Number		51943		51943		51943		
	UNITS	QC-01	RDL	VP14-3	RDL	QC-02	RDL	QC Batch
Volatile Organics								
Dichlorodifluoromethane (FREON 12)	ppbv	0.68	0.20	0.41	0.20	0.34	0.20	8754618
1,2-Dichlorotetrafluoroethane	ppbv	<0.17	0.17	<0.17	0.17	<0.17	0.17	8754618
Chloromethane	ppbv	0.41	0.30	<0.30	0.30	<0.30	0.30	8754618
Vinyl Chloride	ppbv	0.11	0.10	<0.10	0.10	<0.10	0.10	8754618
Chloroethane	ppbv	<0.30	0.30	<0.30	0.30	<0.30	0.30	8754618
1,3-Butadiene	ppbv	<0.50	0.50	<0.50	0.50	<0.50	0.50	8754618
Trichlorofluoromethane (FREON 11)	ppbv	0.26	0.20	0.26	0.20	0.24	0.20	8754618
Ethanol (ethyl alcohol)	ppbv	7.2	1.0	3.6	1.0	3.2	1.0	8754618
Trichlorotrifluoroethane	ppbv	<0.15	0.15	3.12	0.15	3.02	0.15	8754618
2-propanol	ppbv	<1.0	1.0	<1.0	1.0	<1.0	1.0	8754618
2-Propanone	ppbv	2.60	0.60	1.01	0.60	1.53	0.60	8754618
Methyl Ethyl Ketone (2-Butanone)	ppbv	5.51	0.20	0.53	0.20	1.03	0.20	8754618
Methyl Isobutyl Ketone	ppbv	<0.20	0.20	<0.20	0.20	<0.20	0.20	8754618
Methyl Butyl Ketone (2-Hexanone)	ppbv	<1.0	1.0	<1.0	1.0	<1.0	1.0	8754618
Methyl t-butyl ether (MTBE)	ppbv	<0.20	0.20	<0.20	0.20	<0.20	0.20	8754618
Ethyl Acetate	ppbv	2.7	1.0	<1.0	1.0	<1.0	1.0	8754618
1,1-Dichloroethylene	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	8754618
cis-1,2-Dichloroethylene	ppbv	175	0.36	79.9	3.6	105	0.10	8754618
trans-1,2-Dichloroethylene	ppbv	4.25	0.10	4.22	0.10	4.10	0.10	8754618
Methylene Chloride(Dichloromethane)	ppbv	<0.60	0.60	<0.60	0.60	<0.60	0.60	8754618
Chloroform	ppbv	0.33	0.10	2.53	0.10	2.53	0.10	8754618
Carbon Tetrachloride	ppbv	0.10	0.10	1.02	0.10	0.99	0.10	8754618
1,1-Dichloroethane	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	8754618
1,2-Dichloroethane	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	8754618
Ethylene Dibromide	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	8754618
1,1,1-Trichloroethane	ppbv	<0.10	0.10	1.53	0.10	1.47	0.10	8754618
1,1,2-Trichloroethane	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	8754618
1,1,2,2-Tetrachloroethane	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	8754618
cis-1,3-Dichloropropene	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	8754618
trans-1,3-Dichloropropene	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	8754618
1,2-Dichloropropane	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	8754618
Bromomethane	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	8754618
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		WES146		WES147		WES148		
Sampling Date		2023/06/21		2023/06/22		2023/06/22		
COC Number		51943		51943		51943		
	UNITS	QC-01	RDL	VP14-3	RDL	QC-02	RDL	QC Batch
Bromoform	ppbv	<0.20	0.20	<0.20	0.20	<0.20	0.20	8754618
Bromodichloromethane	ppbv	<0.20	0.20	<0.20	0.20	<0.20	0.20	8754618
Dibromochloromethane	ppbv	<0.20	0.20	<0.20	0.20	<0.20	0.20	8754618
Trichloroethylene	ppbv	126	0.36	305	3.6	326	3.7	8754618
Tetrachloroethylene	ppbv	367	0.36	1800	3.6	1990	3.7	8754618
Benzene	ppbv	0.45	0.10	0.23	0.10	0.23	0.10	8754618
Toluene	ppbv	14.0	0.10	3.14	0.10	3.49	0.10	8754618
Ethylbenzene	ppbv	0.65	0.10	0.24	0.10	0.25	0.10	8754618
p+m-Xylene	ppbv	2.30	0.20	0.86	0.20	0.89	0.20	8754618
o-Xylene	ppbv	0.85	0.10	0.36	0.10	0.35	0.10	8754618
Styrene	ppbv	0.60	0.10	0.24	0.10	0.20	0.10	8754618
4-ethyltoluene	ppbv	<0.50	0.50	<0.50	0.50	<0.50	0.50	8754618
1,3,5-Trimethylbenzene	ppbv	<0.50	0.50	<0.50	0.50	<0.50	0.50	8754618
1,2,4-Trimethylbenzene	ppbv	0.74	0.50	<0.50	0.50	<0.50	0.50	8754618
Chlorobenzene	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	8754618
Benzyl chloride	ppbv	<0.50	0.50	<0.50	0.50	<0.50	0.50	8754618
1,3-Dichlorobenzene	ppbv	<0.40	0.40	<0.40	0.40	<0.40	0.40	8754618
1,4-Dichlorobenzene	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	8754618
1,2-Dichlorobenzene	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	8754618
1,2,4-Trichlorobenzene	ppbv	<0.50	0.50	<0.50	0.50	<0.50	0.50	8754618
Hexachlorobutadiene	ppbv	<0.50	0.50	<0.50	0.50	<0.50	0.50	8754618
Hexane	ppbv	<0.90	0.90	<0.20	0.20	<0.20	0.20	8754618
Heptane	ppbv	0.37	0.30	<0.30	0.30	<0.30	0.30	8754618
Cyclohexane	ppbv	<0.20	0.20	<0.20	0.20	0.22	0.20	8754618
Tetrahydrofuran	ppbv	<0.40	0.40	<0.40	0.40	<0.40	0.40	8754618
1,4-Dioxane	ppbv	<1.0	1.0	<1.0	1.0	<1.0	1.0	8754618
Naphthalene	ppbv	<0.20	0.20	<0.20	0.20	<0.20	0.20	8754618
Total Xylenes	ppbv	3.15	0.30	1.21	0.30	1.24	0.30	8754618
1,1,1,2-Tetrachloroethane	ppbv	<0.10	0.10	<0.10	0.10	<0.10	0.10	8754618
Vinyl Bromide	ppbv	<0.20	0.20	<0.20	0.20	<0.20	0.20	8754618
Propene	ppbv	<1.7	1.7	<1.0	1.0	<1.0	1.0	8754618
2,2,4-Trimethylpentane	ppbv	<0.20	0.20	<0.20	0.20	<0.20	0.20	8754618
Carbon Disulfide	ppbv	2.00	0.50	<0.50	0.50	<0.50	0.50	8754618
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		WES146		WES147		WES148		
Sampling Date		2023/06/21		2023/06/22		2023/06/22		
COC Number		51943		51943		51943		
	UNITS	QC-01	RDL	VP14-3	RDL	QC-02	RDL	QC Batch
Vinyl Acetate	ppbv	<0.20	0.20	<0.20	0.20	<0.20	0.20	8754618
Surrogate Recovery (%)								
Bromochloromethane	%	84		84		87		8754618
D5-Chlorobenzene	%	70		71		78		8754618
Difluorobenzene	%	74		75		78		8754618
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								

BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

CALCULATED VOLATILE ORGANICS (AIR)

Bureau Veritas ID		WES137		WES138		WES139		WES140		
Sampling Date		2023/06/21		2023/06/21		2023/06/21		2023/06/21		
COC Number		51943		51943		51943		51943		
	UNITS	VP07-1	RDL	VP07-3	RDL	VP12-1	RDL	VP12-2	RDL	QC Batch
Calculated Parameters										
Dichlorodifluoromethane (FREON 12)	ug/m3	1.82	0.99	2.14	0.99	2.05	0.99	2.9	1.9	8748305
1,2-Dichlorotetrafluoroethane	ug/m3	<1.2	1.2	<1.2	1.2	<1.2	1.2	<2.3	2.3	8748305
Chloromethane	ug/m3	<0.62	0.62	0.64	0.62	2.20	0.62	1.5	1.2	8748305
Vinyl Chloride	ug/m3	<0.26	0.26	<0.26	0.26	0.32	0.26	<0.49	0.49	8748305
Chloroethane	ug/m3	<0.79	0.79	<0.79	0.79	<0.79	0.79	<1.5	1.5	8748305
1,3-Butadiene	ug/m3	<1.1	1.1	<1.1	1.1	<1.1	1.1	<2.1	2.1	8748305
Trichlorofluoromethane (FREON 11)	ug/m3	1.4	1.1	1.7	1.1	1.5	1.1	<2.1	2.1	8748305
Ethanol (ethyl alcohol)	ug/m3	8.7	1.9	7.2	1.9	8.3	1.9	19.0	3.6	8748305
Trichlorotrifluoroethane	ug/m3	<1.2	1.2	<1.2	1.2	<1.2	1.2	<2.2	2.2	8748305
2-propanol	ug/m3	<2.5	2.5	<2.5	2.5	3.1	2.5	<4.7	4.7	8748305
2-Propanone	ug/m3	3.2	1.4	4.5	1.4	33.6	1.4	26.9	2.7	8748305
Methyl Ethyl Ketone (2-Butanone)	ug/m3	5.13	0.59	42.7	0.59	44.9	0.59	109	1.1	8748305
Methyl Isobutyl Ketone	ug/m3	<0.82	0.82	1.26	0.82	1.67	0.82	2.7	1.6	8748305
Methyl Butyl Ketone (2-Hexanone)	ug/m3	<4.1	4.1	<4.1	4.1	<4.1	4.1	<7.8	7.8	8748305
Methyl t-butyl ether (MTBE)	ug/m3	<0.72	0.72	<0.72	0.72	<0.72	0.72	<1.4	1.4	8748305
Ethyl Acetate	ug/m3	<3.6	3.6	25.5	3.6	25.5	3.6	60.5	6.8	8748305
1,1-Dichloroethylene	ug/m3	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.75	0.75	8748305
cis-1,2-Dichloroethylene	ug/m3	0.79	0.40	41.0	0.40	168	0.40	2.27	0.75	8748305
trans-1,2-Dichloroethylene	ug/m3	<0.40	0.40	1.43	0.40	9.56	0.40	<0.75	0.75	8748305
Methylene Chloride(Dichloromethane)	ug/m3	<2.1	2.1	<2.1	2.1	<2.1	2.1	<4.0	4.0	8748305
Chloroform	ug/m3	7.85	0.49	1.77	0.49	1.32	0.49	<0.93	0.93	8748305
Carbon Tetrachloride	ug/m3	<0.63	0.63	0.83	0.63	0.66	0.63	<1.2	1.2	8748305
1,1-Dichloroethane	ug/m3	<0.40	0.40	0.68	0.40	<0.40	0.40	<0.77	0.77	8748305
1,2-Dichloroethane	ug/m3	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.77	0.77	8748305
Ethylene Dibromide	ug/m3	<0.77	0.77	<0.77	0.77	<0.77	0.77	<1.5	1.5	8748305
1,1,1-Trichloroethane	ug/m3	1.40	0.55	4.07	0.55	<0.55	0.55	<1.0	1.0	8748305
1,1,2-Trichloroethane	ug/m3	<0.55	0.55	<0.55	0.55	<0.55	0.55	<1.0	1.0	8748305
1,1,2,2-Tetrachloroethane	ug/m3	<0.69	0.69	<0.69	0.69	<0.69	0.69	<1.3	1.3	8748305
cis-1,3-Dichloropropene	ug/m3	<0.45	0.45	<0.45	0.45	<0.45	0.45	<0.86	0.86	8748305
trans-1,3-Dichloropropene	ug/m3	<0.45	0.45	<0.45	0.45	<0.45	0.45	<0.86	0.86	8748305
1,2-Dichloropropane	ug/m3	<0.46	0.46	<0.46	0.46	<0.46	0.46	<0.88	0.88	8748305
Bromomethane	ug/m3	<0.39	0.39	<0.39	0.39	<0.39	0.39	<0.74	0.74	8748305
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

Bureau Veritas Job #: C3I4573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

CALCULATED VOLATILE ORGANICS (AIR)

Bureau Veritas ID		WES137		WES138		WES139		WES140		
Sampling Date		2023/06/21		2023/06/21		2023/06/21		2023/06/21		
COC Number		51943		51943		51943		51943		
	UNITS	VP07-1	RDL	VP07-3	RDL	VP12-1	RDL	VP12-2	RDL	QC Batch
Bromoform	ug/m3	<2.1	2.1	<2.1	2.1	<2.1	2.1	<3.9	3.9	8748305
Bromodichloromethane	ug/m3	<1.3	1.3	<1.3	1.3	<1.3	1.3	<2.5	2.5	8748305
Dibromochloromethane	ug/m3	<1.7	1.7	<1.7	1.7	<1.7	1.7	<3.2	3.2	8748305
Trichloroethylene	ug/m3	56.7	0.54	86.2	0.54	309	0.54	8.5	1.0	8748305
Tetrachloroethylene	ug/m3	282	0.68	127	0.68	724	0.68	16.1	1.3	8748305
Benzene	ug/m3	0.38	0.32	1.85	0.32	2.84	0.32	4.27	0.61	8748305
Toluene	ug/m3	14.5	0.38	100	0.38	117	0.38	187	0.72	8748305
Ethylbenzene	ug/m3	0.65	0.43	4.09	0.43	5.10	0.43	4.37	0.83	8748305
p+m-Xylene	ug/m3	2.30	0.87	13.5	0.87	17.8	0.87	12.9	1.7	8748305
o-Xylene	ug/m3	0.82	0.43	4.63	0.43	6.14	0.43	4.53	0.83	8748305
Styrene	ug/m3	0.63	0.43	3.36	0.43	4.37	0.43	3.03	0.81	8748305
4-ethyltoluene	ug/m3	<2.5	2.5	<2.5	2.5	<2.5	2.5	<4.7	4.7	8748305
1,3,5-Trimethylbenzene	ug/m3	<2.5	2.5	<2.5	2.5	<2.5	2.5	<4.7	4.7	8748305
1,2,4-Trimethylbenzene	ug/m3	<2.5	2.5	2.5	2.5	3.6	2.5	<4.7	4.7	8748305
Chlorobenzene	ug/m3	<0.46	0.46	<0.46	0.46	<0.46	0.46	<0.87	0.87	8748305
Benzyl chloride	ug/m3	<2.6	2.6	<2.6	2.6	<2.6	2.6	<4.9	4.9	8748305
1,3-Dichlorobenzene	ug/m3	<2.4	2.4	<2.4	2.4	<2.4	2.4	<4.6	4.6	8748305
1,4-Dichlorobenzene	ug/m3	<0.60	0.60	<0.60	0.60	<0.60	0.60	<1.1	1.1	8748305
1,2-Dichlorobenzene	ug/m3	<0.60	0.60	<0.60	0.60	<0.60	0.60	<1.1	1.1	8748305
1,2,4-Trichlorobenzene	ug/m3	<3.7	3.7	<3.7	3.7	<3.7	3.7	<7.1	7.1	8748305
Hexachlorobutadiene	ug/m3	<5.3	5.3	<5.3	5.3	<5.3	5.3	<10	10	8748305
Hexane	ug/m3	<1.8	1.8	<8.8	8.8	<8.8	8.8	<19	19	8748305
Heptane	ug/m3	<1.2	1.2	2.9	1.2	4.0	1.2	6.8	2.3	8748305
Cyclohexane	ug/m3	<0.69	0.69	1.40	0.69	0.90	0.69	3.3	1.3	8748305
Tetrahydrofuran	ug/m3	<1.2	1.2	<1.2	1.2	<1.2	1.2	<2.2	2.2	8748305
1,4-Dioxane	ug/m3	<3.6	3.6	<3.6	3.6	<3.6	3.6	<6.8	6.8	8748305
Naphthalene	ug/m3	<1.0	1.0	<1.0	1.0	<1.0	1.0	<2.0	2.0	8748305
Total Xylenes	ug/m3	3.1	1.3	18.1	1.3	23.9	1.3	17.4	2.5	8748305
1,1,1,2-Tetrachloroethane	ug/m3	<0.69	0.69	<0.69	0.69	<0.69	0.69	<1.3	1.3	8748305
Vinyl Bromide	ug/m3	<0.87	0.87	<0.87	0.87	<0.87	0.87	<1.7	1.7	8748305
Propene	ug/m3	<2.2	2.2	<1.9	1.9	4.29	0.86	4.7	1.6	8748305
2,2,4-Trimethylpentane	ug/m3	<0.93	0.93	<0.93	0.93	<0.93	0.93	<2.3	2.3	8748305
Carbon Disulfide	ug/m3	8.2	1.6	5.9	1.6	16.2	1.6	3.1	3.0	8748305
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

CALCULATED VOLATILE ORGANICS (AIR)

Bureau Veritas ID		WES137		WES138		WES139		WES140		
Sampling Date		2023/06/21		2023/06/21		2023/06/21		2023/06/21		
COC Number		51943		51943		51943		51943		
	UNITS	VP07-1	RDL	VP07-3	RDL	VP12-1	RDL	VP12-2	RDL	QC Batch
Vinyl Acetate	ug/m3	<0.70	0.70	<0.70	0.70	<0.70	0.70	<1.3	1.3	8748305
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										

BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

CALCULATED VOLATILE ORGANICS (AIR)

Bureau Veritas ID		WES141		WES142		WES143	WES143		WES144		
Sampling Date		2023/06/21		2023/06/21		2023/06/21	2023/06/21		2023/06/21		
COC Number		51943		51943		51943	51943		51943		
	UNITS	VP12-3	RDL	VP14-1	RDL	VP14-2	VP14-2 Lab-Dup	RDL	VP14-7	RDL	QC Batch

Calculated Parameters											
Dichlorodifluoromethane (FREON 12)	ug/m3	2.72	0.99	2.40	0.99	2.14	2.49	0.99	6.29	0.99	8748305
1,2-Dichlorotetrafluoroethane	ug/m3	<1.2	1.2	<1.2	1.2	<1.2	<1.2	1.2	<1.2	1.2	8748305
Chloromethane	ug/m3	0.85	0.62	<0.62	0.62	<0.62	<0.62	0.62	<0.62	0.62	8748305
Vinyl Chloride	ug/m3	0.32	0.26	<0.26	0.26	<0.26	<0.26	0.26	<0.26	0.26	8748305
Chloroethane	ug/m3	<0.79	0.79	<0.79	0.79	<0.79	<0.79	0.79	<0.79	0.79	8748305
1,3-Butadiene	ug/m3	<1.1	1.1	<1.1	1.1	<1.1	<1.1	1.1	<1.1	1.1	8748305
Trichlorofluoromethane (FREON 11)	ug/m3	1.5	1.1	1.6	1.1	1.4	1.6	1.1	33.3	1.1	8748305
Ethanol (ethyl alcohol)	ug/m3	4.0	1.9	8.1	1.9	4.9	5.3	1.9	7.1	1.9	8748305
Trichlorotrifluoroethane	ug/m3	<1.2	1.2	<1.2	1.2	<1.2	<1.2	1.2	<1.2	1.2	8748305
2-propanol	ug/m3	<2.5	2.5	<2.5	2.5	<2.5	<2.5	2.5	<2.5	2.5	8748305
2-Propanone	ug/m3	7.7	1.4	11.0	1.4	2.6	3.0	1.4	5.8	1.4	8748305
Methyl Ethyl Ketone (2-Butanone)	ug/m3	17.2	0.59	59.5	0.59	31.6	34.7	0.59	42.4	0.59	8748305
Methyl Isobutyl Ketone	ug/m3	<0.82	0.82	1.46	0.82	0.87	0.96	0.82	2.08	0.82	8748305
Methyl Butyl Ketone (2-Hexanone)	ug/m3	<4.1	4.1	<4.1	4.1	<4.1	<4.1	4.1	<4.1	4.1	8748305
Methyl t-butyl ether (MTBE)	ug/m3	<0.72	0.72	<0.72	0.72	<0.72	<0.72	0.72	<0.72	0.72	8748305
Ethyl Acetate	ug/m3	10.6	3.6	34.5	3.6	19.0	20.3	3.6	25.1	3.6	8748305
1,1-Dichloroethylene	ug/m3	<0.40	0.40	<0.40	0.40	<0.40	<0.40	0.40	<0.40	0.40	8748305
cis-1,2-Dichloroethylene	ug/m3	621	1.4	1.38	0.40	<0.40	<0.40	0.40	<0.40	0.40	8748305
trans-1,2-Dichloroethylene	ug/m3	16.9	0.40	0.83	0.40	<0.40	<0.40	0.40	<0.40	0.40	8748305
Methylene Chloride(Dichloromethane)	ug/m3	<2.1	2.1	<2.1	2.1	<2.1	<2.1	2.1	<2.1	2.1	8748305
Chloroform	ug/m3	1.62	0.49	3.98	0.49	0.90	0.95	0.49	12.9	0.49	8748305
Carbon Tetrachloride	ug/m3	0.68	0.63	0.88	0.63	<0.63	0.69	0.63	<0.63	0.63	8748305
1,1-Dichloroethane	ug/m3	<0.40	0.40	<0.40	0.40	<0.40	<0.40	0.40	<0.40	0.40	8748305
1,2-Dichloroethane	ug/m3	<0.40	0.40	<0.40	0.40	<0.40	<0.40	0.40	<0.40	0.40	8748305
Ethylene Dibromide	ug/m3	<0.77	0.77	<0.77	0.77	<0.77	<0.77	0.77	<0.77	0.77	8748305
1,1,1-Trichloroethane	ug/m3	<0.55	0.55	0.96	0.55	0.83	0.92	0.55	<0.55	0.55	8748305
1,1,2-Trichloroethane	ug/m3	<0.55	0.55	<0.55	0.55	<0.55	<0.55	0.55	<0.55	0.55	8748305
1,1,2,2-Tetrachloroethane	ug/m3	<0.69	0.69	<0.69	0.69	<0.69	<0.69	0.69	<0.69	0.69	8748305
cis-1,3-Dichloropropene	ug/m3	<0.45	0.45	<0.45	0.45	<0.45	<0.45	0.45	<0.45	0.45	8748305
trans-1,3-Dichloropropene	ug/m3	<0.45	0.45	<0.45	0.45	<0.45	<0.45	0.45	<0.45	0.45	8748305
1,2-Dichloropropane	ug/m3	<0.46	0.46	<0.46	0.46	<0.46	<0.46	0.46	<0.46	0.46	8748305
Bromomethane	ug/m3	<0.39	0.39	<0.39	0.39	<0.39	<0.39	0.39	<0.39	0.39	8748305

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



**BUREAU
VERITAS**

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

CALCULATED VOLATILE ORGANICS (AIR)

Bureau Veritas ID		WES141		WES142		WES143	WES143		WES144		
Sampling Date		2023/06/21		2023/06/21		2023/06/21	2023/06/21		2023/06/21		
COC Number		51943		51943		51943	51943		51943		
	UNITS	VP12-3	RDL	VP14-1	RDL	VP14-2	VP14-2 Lab-Dup	RDL	VP14-7	RDL	QC Batch
Bromoform	ug/m3	<2.1	2.1	<2.1	2.1	<2.1	<2.1	2.1	<2.1	2.1	8748305
Bromodichloromethane	ug/m3	<1.3	1.3	<1.3	1.3	<1.3	<1.3	1.3	<1.3	1.3	8748305
Dibromochloromethane	ug/m3	<1.7	1.7	<1.7	1.7	<1.7	<1.7	1.7	<1.7	1.7	8748305
Trichloroethylene	ug/m3	582	1.9	22.9	0.54	1.46	1.86	0.54	3.28	0.54	8748305
Tetrachloroethylene	ug/m3	2110	2.4	73.3	0.68	12.7	14.4	0.68	74.8	0.68	8748305
Benzene	ug/m3	1.35	0.32	2.25	0.32	1.23	1.42	0.32	2.80	0.32	8748305
Toluene	ug/m3	55.3	0.38	126	0.38	77.7	88.4	0.38	126	0.38	8748305
Ethylbenzene	ug/m3	3.17	0.43	4.12	0.43	3.08	3.23	0.43	4.45	0.43	8748305
p+m-Xylene	ug/m3	11.2	0.87	13.1	0.87	9.92	10.5	0.87	14.3	0.87	8748305
o-Xylene	ug/m3	4.18	0.43	4.56	0.43	3.46	3.62	0.43	5.26	0.43	8748305
Styrene	ug/m3	2.85	0.43	2.92	0.43	2.21	2.42	0.43	2.85	0.43	8748305
4-ethyltoluene	ug/m3	<2.5	2.5	<2.5	2.5	<2.5	<2.5	2.5	<2.5	2.5	8748305
1,3,5-Trimethylbenzene	ug/m3	<2.5	2.5	<2.5	2.5	<2.5	<2.5	2.5	<2.5	2.5	8748305
1,2,4-Trimethylbenzene	ug/m3	4.0	2.5	2.5	2.5	<2.5	<2.5	2.5	2.9	2.5	8748305
Chlorobenzene	ug/m3	<0.46	0.46	<0.46	0.46	<0.46	<0.46	0.46	<0.46	0.46	8748305
Benzyl chloride	ug/m3	<2.6	2.6	<2.6	2.6	<2.6	<2.6	2.6	<2.6	2.6	8748305
1,3-Dichlorobenzene	ug/m3	<2.4	2.4	<2.4	2.4	<2.4	<2.4	2.4	<2.4	2.4	8748305
1,4-Dichlorobenzene	ug/m3	<0.60	0.60	<0.60	0.60	<0.60	<0.60	0.60	<0.60	0.60	8748305
1,2-Dichlorobenzene	ug/m3	<0.60	0.60	<0.60	0.60	<0.60	<0.60	0.60	<0.60	0.60	8748305
1,2,4-Trichlorobenzene	ug/m3	<3.7	3.7	<3.7	3.7	<3.7	<3.7	3.7	<3.7	3.7	8748305
Hexachlorobutadiene	ug/m3	<5.3	5.3	<5.3	5.3	<5.3	<5.3	5.3	<5.3	5.3	8748305
Hexane	ug/m3	<4.2	4.2	<12	12	<7.0	<7.0	7.0	<9.2	9.2	8748305
Heptane	ug/m3	1.6	1.2	3.9	1.2	2.2	2.6	1.2	3.9	1.2	8748305
Cyclohexane	ug/m3	<1.4	1.4	2.07	0.69	1.10	1.17	0.69	1.45	0.69	8748305
Tetrahydrofuran	ug/m3	<1.2	1.2	<1.2	1.2	<1.2	<1.2	1.2	<1.2	1.2	8748305
1,4-Dioxane	ug/m3	<3.6	3.6	<3.6	3.6	<3.6	<3.6	3.6	<3.6	3.6	8748305
Naphthalene	ug/m3	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	8748305
Total Xylenes	ug/m3	15.4	1.3	17.6	1.3	13.4	14.1	1.3	19.5	1.3	8748305
1,1,1,2-Tetrachloroethane	ug/m3	<0.69	0.69	<0.69	0.69	<0.69	<0.69	0.69	<0.69	0.69	8748305
Vinyl Bromide	ug/m3	<0.87	0.87	<0.87	0.87	<0.87	<0.87	0.87	<0.87	0.87	8748305
Propene	ug/m3	<2.8	2.8	<1.4	1.4	<1.5	<1.5	1.5	<3.1	3.1	8748305
2,2,4-Trimethylpentane	ug/m3	<0.93	0.93	<1.4	1.4	<0.93	<0.93	0.93	<1.2	1.2	8748305
Carbon Disulfide	ug/m3	6.5	1.6	<1.6	1.6	<1.6	<1.6	1.6	<1.6	1.6	8748305

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

CALCULATED VOLATILE ORGANICS (AIR)

Bureau Veritas ID		WES141		WES142		WES143	WES143		WES144		
Sampling Date		2023/06/21		2023/06/21		2023/06/21	2023/06/21		2023/06/21		
COC Number		51943		51943		51943	51943		51943		
	UNITS	VP12-3	RDL	VP14-1	RDL	VP14-2	VP14-2 Lab-Dup	RDL	VP14-7	RDL	QC Batch
Vinyl Acetate	ug/m3	<0.70	0.70	<0.70	0.70	<0.70	<0.70	0.70	<0.70	0.70	8748305
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate											

BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

CALCULATED VOLATILE ORGANICS (AIR)

Bureau Veritas ID		WES145		WES146		WES147		WES148		
Sampling Date		2023/06/21		2023/06/21		2023/06/22		2023/06/22		
COC Number		51943		51943		51943		51943		
	UNITS	VP14-10	RDL	QC-01	RDL	VP14-3	RDL	QC-02	RDL	QC Batch
Calculated Parameters										
Dichlorodifluoromethane (FREON 12)	ug/m3	3.1	1.8	3.35	0.99	2.03	0.99	1.69	0.99	8748305
1,2-Dichlorotetrafluoroethane	ug/m3	<2.1	2.1	<1.2	1.2	<1.2	1.2	<1.2	1.2	8748305
Chloromethane	ug/m3	<1.1	1.1	0.84	0.62	<0.62	0.62	<0.62	0.62	8748305
Vinyl Chloride	ug/m3	<0.46	0.46	0.28	0.26	<0.26	0.26	<0.26	0.26	8748305
Chloroethane	ug/m3	<1.4	1.4	<0.79	0.79	<0.79	0.79	<0.79	0.79	8748305
1,3-Butadiene	ug/m3	<2.0	2.0	<1.1	1.1	<1.1	1.1	<1.1	1.1	8748305
Trichlorofluoromethane (FREON 11)	ug/m3	<2.0	2.0	1.5	1.1	1.4	1.1	1.4	1.1	8748305
Ethanol (ethyl alcohol)	ug/m3	6.5	3.4	13.6	1.9	6.8	1.9	6.0	1.9	8748305
Trichlorotrifluoroethane	ug/m3	12.6	2.1	<1.2	1.2	23.9	1.2	23.2	1.2	8748305
2-propanol	ug/m3	<4.4	4.4	<2.5	2.5	<2.5	2.5	<2.5	2.5	8748305
2-Propanone	ug/m3	3.3	2.6	6.2	1.4	2.4	1.4	3.6	1.4	8748305
Methyl Ethyl Ketone (2-Butanone)	ug/m3	51.2	1.1	16.3	0.59	1.56	0.59	3.04	0.59	8748305
Methyl Isobutyl Ketone	ug/m3	1.9	1.5	<0.82	0.82	<0.82	0.82	<0.82	0.82	8748305
Methyl Butyl Ketone (2-Hexanone)	ug/m3	<7.4	7.4	<4.1	4.1	<4.1	4.1	<4.1	4.1	8748305
Methyl t-butyl ether (MTBE)	ug/m3	<1.3	1.3	<0.72	0.72	<0.72	0.72	<0.72	0.72	8748305
Ethyl Acetate	ug/m3	31.2	6.5	9.9	3.6	<3.6	3.6	<3.6	3.6	8748305
1,1-Dichloroethylene	ug/m3	<0.71	0.71	<0.40	0.40	<0.40	0.40	<0.40	0.40	8748305
cis-1,2-Dichloroethylene	ug/m3	169	0.71	692	1.4	317	14	416	0.40	8748305
trans-1,2-Dichloroethylene	ug/m3	28.3	0.71	16.8	0.40	16.7	0.40	16.2	0.40	8748305
Methylene Chloride(Dichloromethane)	ug/m3	<3.8	3.8	<2.1	2.1	<2.1	2.1	<2.1	2.1	8748305
Chloroform	ug/m3	7.41	0.88	1.61	0.49	12.4	0.49	12.3	0.49	8748305
Carbon Tetrachloride	ug/m3	<1.1	1.1	0.66	0.63	6.44	0.63	6.21	0.63	8748305
1,1-Dichloroethane	ug/m3	<0.73	0.73	<0.40	0.40	<0.40	0.40	<0.40	0.40	8748305
1,2-Dichloroethane	ug/m3	<0.73	0.73	<0.40	0.40	<0.40	0.40	<0.40	0.40	8748305
Ethylene Dibromide	ug/m3	<1.4	1.4	<0.77	0.77	<0.77	0.77	<0.77	0.77	8748305
1,1,1-Trichloroethane	ug/m3	5.09	0.98	<0.55	0.55	8.33	0.55	8.04	0.55	8748305
1,1,2-Trichloroethane	ug/m3	<0.98	0.98	<0.55	0.55	<0.55	0.55	<0.55	0.55	8748305
1,1,2,2-Tetrachloroethane	ug/m3	<1.2	1.2	<0.69	0.69	<0.69	0.69	<0.69	0.69	8748305
cis-1,3-Dichloropropene	ug/m3	<0.82	0.82	<0.45	0.45	<0.45	0.45	<0.45	0.45	8748305
trans-1,3-Dichloropropene	ug/m3	<0.82	0.82	<0.45	0.45	<0.45	0.45	<0.45	0.45	8748305
1,2-Dichloropropane	ug/m3	<0.83	0.83	<0.46	0.46	<0.46	0.46	<0.46	0.46	8748305
Bromomethane	ug/m3	<0.70	0.70	<0.39	0.39	<0.39	0.39	<0.39	0.39	8748305
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

CALCULATED VOLATILE ORGANICS (AIR)

Bureau Veritas ID		WES145		WES146		WES147		WES148		
Sampling Date		2023/06/21		2023/06/21		2023/06/22		2023/06/22		
COC Number		51943		51943		51943		51943		
	UNITS	VP14-10	RDL	QC-01	RDL	VP14-3	RDL	QC-02	RDL	QC Batch
Bromoform	ug/m3	<3.7	3.7	<2.1	2.1	<2.1	2.1	<2.1	2.1	8748305
Bromodichloromethane	ug/m3	<2.4	2.4	<1.3	1.3	<1.3	1.3	<1.3	1.3	8748305
Dibromochloromethane	ug/m3	<3.1	3.1	<1.7	1.7	<1.7	1.7	<1.7	1.7	8748305
Trichloroethylene	ug/m3	1420	3.9	676	1.9	1640	20	1750	20	8748305
Tetrachloroethylene	ug/m3	1720	4.9	2490	2.4	12200	25	13500	25	8748305
Benzene	ug/m3	2.55	0.58	1.44	0.32	0.73	0.32	0.73	0.32	8748305
Toluene	ug/m3	128	0.68	52.7	0.38	11.8	0.38	13.1	0.38	8748305
Ethylbenzene	ug/m3	3.80	0.78	2.82	0.43	1.05	0.43	1.07	0.43	8748305
p+m-Xylene	ug/m3	11.7	1.6	9.99	0.87	3.73	0.87	3.87	0.87	8748305
o-Xylene	ug/m3	4.08	0.78	3.69	0.43	1.55	0.43	1.51	0.43	8748305
Styrene	ug/m3	2.55	0.77	2.56	0.43	1.00	0.43	0.84	0.43	8748305
4-ethyltoluene	ug/m3	<4.4	4.4	<2.5	2.5	<2.5	2.5	<2.5	2.5	8748305
1,3,5-Trimethylbenzene	ug/m3	<4.4	4.4	<2.5	2.5	<2.5	2.5	<2.5	2.5	8748305
1,2,4-Trimethylbenzene	ug/m3	<4.4	4.4	3.6	2.5	<2.5	2.5	<2.5	2.5	8748305
Chlorobenzene	ug/m3	<0.83	0.83	<0.46	0.46	<0.46	0.46	<0.46	0.46	8748305
Benzyl chloride	ug/m3	<4.7	4.7	<2.6	2.6	<2.6	2.6	<2.6	2.6	8748305
1,3-Dichlorobenzene	ug/m3	<4.3	4.3	<2.4	2.4	<2.4	2.4	<2.4	2.4	8748305
1,4-Dichlorobenzene	ug/m3	<1.1	1.1	<0.60	0.60	<0.60	0.60	<0.60	0.60	8748305
1,2-Dichlorobenzene	ug/m3	<1.1	1.1	<0.60	0.60	<0.60	0.60	<0.60	0.60	8748305
1,2,4-Trichlorobenzene	ug/m3	<6.7	6.7	<3.7	3.7	<3.7	3.7	<3.7	3.7	8748305
Hexachlorobutadiene	ug/m3	<9.6	9.6	<5.3	5.3	<5.3	5.3	<5.3	5.3	8748305
Hexane	ug/m3	<11	11	<3.2	3.2	<0.70	0.70	<0.70	0.70	8748305
Heptane	ug/m3	3.9	2.2	1.5	1.2	<1.2	1.2	<1.2	1.2	8748305
Cyclohexane	ug/m3	7.4	1.2	<0.69	0.69	<0.69	0.69	0.77	0.69	8748305
Tetrahydrofuran	ug/m3	<2.1	2.1	<1.2	1.2	<1.2	1.2	<1.2	1.2	8748305
1,4-Dioxane	ug/m3	<6.5	6.5	<3.6	3.6	<3.6	3.6	<3.6	3.6	8748305
Naphthalene	ug/m3	<1.9	1.9	<1.0	1.0	<1.0	1.0	<1.0	1.0	8748305
Total Xylenes	ug/m3	15.8	2.3	13.7	1.3	5.3	1.3	5.4	1.3	8748305
1,1,1,2-Tetrachloroethane	ug/m3	<1.2	1.2	<0.69	0.69	<0.69	0.69	<0.69	0.69	8748305
Vinyl Bromide	ug/m3	<1.6	1.6	<0.87	0.87	<0.87	0.87	<0.87	0.87	8748305
Propene	ug/m3	<17	17	<2.9	2.9	<1.7	1.7	<1.7	1.7	8748305
2,2,4-Trimethylpentane	ug/m3	<1.7	1.7	<0.93	0.93	<0.93	0.93	<0.93	0.93	8748305
Carbon Disulfide	ug/m3	<2.8	2.8	6.2	1.6	<1.6	1.6	<1.6	1.6	8748305
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

CALCULATED VOLATILE ORGANICS (AIR)

Bureau Veritas ID		WES145		WES146		WES147		WES148		
Sampling Date		2023/06/21		2023/06/21		2023/06/22		2023/06/22		
COC Number		51943		51943		51943		51943		
	UNITS	VP14-10	RDL	QC-01	RDL	VP14-3	RDL	QC-02	RDL	QC Batch
Vinyl Acetate	ug/m3	<5.3	5.3	<0.70	0.70	<0.70	0.70	<0.70	0.70	8748305
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										

BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

VOLATILE ORGANIC HYDROCARBONS BY GC/MS (AIR)

Bureau Veritas ID		WES137	WES138	WES139		WES140		WES141	WES142		
Sampling Date		2023/06/21	2023/06/21	2023/06/21		2023/06/21		2023/06/21	2023/06/21		
COC Number		51943	51943	51943		51943		51943	51943		
	UNITS	VP07-1	VP07-3	VP12-1	RDL	VP12-2	RDL	VP12-3	VP14-1	RDL	QC Batch

Volatile Organics

Aliphatic >C5-C6	ug/m3	<5.0	<5.0	7.0	5.0	10.4	9.5	<5.0	5.1	5.0	8760081
Aliphatic >C6-C8	ug/m3	<5.0	21.5	29.2	5.0	51.3	9.5	9.2	28.3	5.0	8760081
Aliphatic >C8-C10	ug/m3	16.4	75.4	94.3	5.0	96.1	9.5	52.2	77.3	5.0	8760081
Aliphatic >C10-C12	ug/m3	24.6	42.4	54.8	5.0	18.6	9.5	55.3	35.5	5.0	8760081
Aliphatic >C12-C16	ug/m3	<5.0	<5.0	<5.0	5.0	<9.5	9.5	<5.0	<5.0	5.0	8760081
Aromatic >C7-C8 (TEX Excluded)	ug/m3	<5.0	<5.0	<5.0	5.0	<9.5	9.5	<5.0	<5.0	5.0	8760081
Aromatic >C8-C10	ug/m3	<5.0	11.8	15.7	5.0	12.7	9.5	12.6	11.5	5.0	8760081
Aromatic >C10-C12	ug/m3	<5.0	<5.0	6.8	5.0	<9.5	9.5	7.3	<5.0	5.0	8760081
Aromatic >C12-C16	ug/m3	<5.0	<5.0	<5.0	5.0	<9.5	9.5	<5.0	<5.0	5.0	8760081

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Bureau Veritas ID		WES143	WES143	WES144		WES145		WES146	WES147		
Sampling Date		2023/06/21	2023/06/21	2023/06/21		2023/06/21		2023/06/21	2023/06/22		
COC Number		51943	51943	51943		51943		51943	51943		
	UNITS	VP14-2	VP14-2 Lab-Dup	VP14-7	RDL	VP14-10	RDL	QC-01	VP14-3	RDL	QC Batch

Volatile Organics

Aliphatic >C5-C6	ug/m3	<5.0	<5.0	7.9	5.0	81.1	9.0	<5.0	5.1	5.0	8760081
Aliphatic >C6-C8	ug/m3	17.1	17.3	27.4	5.0	55.2	9.0	9.5	<5.0	5.0	8760081
Aliphatic >C8-C10	ug/m3	53.7	61.4	86.3	5.0	79.8	9.0	50.6	18.7	5.0	8760081
Aliphatic >C10-C12	ug/m3	29.6	32.8	45.0	5.0	34.9	9.0	52.2	27.3	5.0	8760081
Aliphatic >C12-C16	ug/m3	<5.0	<5.0	<5.0	5.0	<9.0	9.0	<5.0	<5.0	5.0	8760081
Aromatic >C7-C8 (TEX Excluded)	ug/m3	<5.0	<5.0	<5.0	5.0	<9.0	9.0	<5.0	<5.0	5.0	8760081
Aromatic >C8-C10	ug/m3	9.0	10.2	14.6	5.0	12.4	9.0	12.3	5.0	5.0	8760081
Aromatic >C10-C12	ug/m3	<5.0	<5.0	5.5	5.0	<9.0	9.0	7.3	<5.0	5.0	8760081
Aromatic >C12-C16	ug/m3	<5.0	<5.0	<5.0	5.0	<9.0	9.0	<5.0	<5.0	5.0	8760081

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



VOLATILE ORGANIC HYDROCARBONS BY GC/MS (AIR)

Bureau Veritas ID		WES148		
Sampling Date		2023/06/22		
COC Number		51943		
	UNITS	QC-02	RDL	QC Batch
Volatile Organics				
Aliphatic >C5-C6	ug/m3	<5.0	5.0	8760081
Aliphatic >C6-C8	ug/m3	<5.0	5.0	8760081
Aliphatic >C8-C10	ug/m3	18.2	5.0	8760081
Aliphatic >C10-C12	ug/m3	25.0	5.0	8760081
Aliphatic >C12-C16	ug/m3	<5.0	5.0	8760081
Aromatic >C7-C8 (TEX Excluded)	ug/m3	<5.0	5.0	8760081
Aromatic >C8-C10	ug/m3	5.4	5.0	8760081
Aromatic >C10-C12	ug/m3	<5.0	5.0	8760081
Aromatic >C12-C16	ug/m3	<5.0	5.0	8760081
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C3I4573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

TEST SUMMARY

Bureau Veritas ID: WES137

Sample ID: VP07-1

Matrix: Air

Collected: 2023/06/21

Shipped:

Received: 2023/06/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
BTEX Fractionation in Air (TO-15mod)	GC/MS	8760081	N/A	2023/06/27	Narinderjeet Kaur
Canister Pressure (TO-15)	PRES	8760060	N/A	2023/06/27	Narinderjeet Kaur
Volatile Organics in Air (ug/m3)	GC/MS	8748305	N/A	2023/07/04	Automated Statchk
Volatile Organics in Air (TO-15)	GC/MS	8754618	N/A	2023/06/27	Narinderjeet Kaur

Bureau Veritas ID: WES138

Sample ID: VP07-3

Matrix: Air

Collected: 2023/06/21

Shipped:

Received: 2023/06/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
BTEX Fractionation in Air (TO-15mod)	GC/MS	8760081	N/A	2023/06/27	Narinderjeet Kaur
Canister Pressure (TO-15)	PRES	8760060	N/A	2023/06/27	Narinderjeet Kaur
Volatile Organics in Air (ug/m3)	GC/MS	8748305	N/A	2023/07/04	Automated Statchk
Volatile Organics in Air (TO-15)	GC/MS	8754618	N/A	2023/06/27	Narinderjeet Kaur

Bureau Veritas ID: WES139

Sample ID: VP12-1

Matrix: Air

Collected: 2023/06/21

Shipped:

Received: 2023/06/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
BTEX Fractionation in Air (TO-15mod)	GC/MS	8760081	N/A	2023/06/27	Narinderjeet Kaur
Canister Pressure (TO-15)	PRES	8760060	N/A	2023/06/27	Narinderjeet Kaur
Volatile Organics in Air (ug/m3)	GC/MS	8748305	N/A	2023/07/04	Automated Statchk
Volatile Organics in Air (TO-15)	GC/MS	8754618	N/A	2023/06/27	Narinderjeet Kaur

Bureau Veritas ID: WES140

Sample ID: VP12-2

Matrix: Air

Collected: 2023/06/21

Shipped:

Received: 2023/06/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
BTEX Fractionation in Air (TO-15mod)	GC/MS	8760081	N/A	2023/06/27	Narinderjeet Kaur
Canister Pressure (TO-15)	PRES	8760060	N/A	2023/06/27	Narinderjeet Kaur
Volatile Organics in Air (ug/m3)	GC/MS	8748305	N/A	2023/07/04	Automated Statchk
Volatile Organics in Air (TO-15)	GC/MS	8754618	N/A	2023/06/27	Narinderjeet Kaur

Bureau Veritas ID: WES141

Sample ID: VP12-3

Matrix: Air

Collected: 2023/06/21

Shipped:

Received: 2023/06/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
BTEX Fractionation in Air (TO-15mod)	GC/MS	8760081	N/A	2023/06/27	Narinderjeet Kaur
Canister Pressure (TO-15)	PRES	8760060	N/A	2023/06/27	Narinderjeet Kaur
Volatile Organics in Air (ug/m3)	GC/MS	8748305	N/A	2023/07/04	Automated Statchk
Volatile Organics in Air (TO-15)	GC/MS	8754618	N/A	2023/06/27	Narinderjeet Kaur



BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

TEST SUMMARY

Bureau Veritas ID: WES142

Sample ID: VP14-1

Matrix: Air

Collected: 2023/06/21

Shipped:

Received: 2023/06/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
BTEX Fractionation in Air (TO-15mod)	GC/MS	8760081	N/A	2023/06/27	Narinderjeet Kaur
Canister Pressure (TO-15)	PRES	8760060	N/A	2023/06/27	Narinderjeet Kaur
Volatile Organics in Air (ug/m3)	GC/MS	8748305	N/A	2023/07/04	Automated Statchk
Volatile Organics in Air (TO-15)	GC/MS	8754618	N/A	2023/06/27	Narinderjeet Kaur

Bureau Veritas ID: WES143

Sample ID: VP14-2

Matrix: Air

Collected: 2023/06/21

Shipped:

Received: 2023/06/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
BTEX Fractionation in Air (TO-15mod)	GC/MS	8760081	N/A	2023/06/27	Narinderjeet Kaur
Canister Pressure (TO-15)	PRES	8760060	N/A	2023/06/27	Narinderjeet Kaur
Volatile Organics in Air (ug/m3)	GC/MS	8748305	N/A	2023/07/04	Automated Statchk
Volatile Organics in Air (TO-15)	GC/MS	8754618	N/A	2023/06/27	Narinderjeet Kaur

Bureau Veritas ID: WES143 Dup

Sample ID: VP14-2

Matrix: Air

Collected: 2023/06/21

Shipped:

Received: 2023/06/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
BTEX Fractionation in Air (TO-15mod)	GC/MS	8760081	N/A	2023/06/27	Narinderjeet Kaur
Volatile Organics in Air (ug/m3)	GC/MS	8748305	N/A	2023/07/06	Automated Statchk
Volatile Organics in Air (TO-15)	GC/MS	8754618	N/A	2023/06/27	Narinderjeet Kaur

Bureau Veritas ID: WES144

Sample ID: VP14-7

Matrix: Air

Collected: 2023/06/21

Shipped:

Received: 2023/06/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
BTEX Fractionation in Air (TO-15mod)	GC/MS	8760081	N/A	2023/06/27	Narinderjeet Kaur
Canister Pressure (TO-15)	PRES	8760060	N/A	2023/06/27	Narinderjeet Kaur
Volatile Organics in Air (ug/m3)	GC/MS	8748305	N/A	2023/07/04	Automated Statchk
Volatile Organics in Air (TO-15)	GC/MS	8754618	N/A	2023/06/27	Narinderjeet Kaur

Bureau Veritas ID: WES145

Sample ID: VP14-10

Matrix: Air

Collected: 2023/06/21

Shipped:

Received: 2023/06/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
BTEX Fractionation in Air (TO-15mod)	GC/MS	8760081	N/A	2023/06/27	Narinderjeet Kaur
Canister Pressure (TO-15)	PRES	8760060	N/A	2023/06/27	Narinderjeet Kaur
Volatile Organics in Air (ug/m3)	GC/MS	8748305	N/A	2023/07/04	Automated Statchk
Volatile Organics in Air (TO-15)	GC/MS	8754618	N/A	2023/06/27	Narinderjeet Kaur



BUREAU
VERITAS

Bureau Veritas Job #: C3I4573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

TEST SUMMARY

Bureau Veritas ID: WES146

Sample ID: QC-01

Matrix: Air

Collected: 2023/06/21

Shipped:

Received: 2023/06/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
BTEX Fractionation in Air (TO-15mod)	GC/MS	8760081	N/A	2023/06/27	Narinderjeet Kaur
Canister Pressure (TO-15)	PRES	8760060	N/A	2023/06/27	Narinderjeet Kaur
Volatile Organics in Air (ug/m3)	GC/MS	8748305	N/A	2023/07/04	Automated Statchk
Volatile Organics in Air (TO-15)	GC/MS	8754618	N/A	2023/06/27	Narinderjeet Kaur

Bureau Veritas ID: WES147

Sample ID: VP14-3

Matrix: Air

Collected: 2023/06/22

Shipped:

Received: 2023/06/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
BTEX Fractionation in Air (TO-15mod)	GC/MS	8760081	N/A	2023/06/27	Narinderjeet Kaur
Canister Pressure (TO-15)	PRES	8760060	N/A	2023/06/27	Narinderjeet Kaur
Volatile Organics in Air (ug/m3)	GC/MS	8748305	N/A	2023/07/04	Automated Statchk
Volatile Organics in Air (TO-15)	GC/MS	8754618	N/A	2023/06/27	Narinderjeet Kaur

Bureau Veritas ID: WES148

Sample ID: QC-02

Matrix: Air

Collected: 2023/06/22

Shipped:

Received: 2023/06/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
BTEX Fractionation in Air (TO-15mod)	GC/MS	8760081	N/A	2023/06/27	Narinderjeet Kaur
Canister Pressure (TO-15)	PRES	8760060	N/A	2023/06/27	Narinderjeet Kaur
Volatile Organics in Air (ug/m3)	GC/MS	8748305	N/A	2023/07/04	Automated Statchk
Volatile Organics in Air (TO-15)	GC/MS	8754618	N/A	2023/06/27	Narinderjeet Kaur



GENERAL COMMENTS

Sample WES137 [VP07-1] : Increased DL for propene due to interference from propane.
Increased DL for Hexane due to interference.

Sample WES138 [VP07-3] : Increased DL for propene due to interference from propane.
Increased DL for Hexane due to interference.

Sample WES139 [VP12-1] : Increased DL for Hexane due to interference.

Sample WES140 [VP12-2] : Sample was pressurized due to high vacuum in can. The DL's were adjusted accordingly.
Increased DL for hexane and 2,2,4-trimethylpentane due to interference.

Sample WES141 [VP12-3] : Increased DL for propene due to interference from propane.
Increased DL for hexane and cyclohexane due to interference.
Trichloroethylene, cis-1,2-dichloroethylene and tetrachloroethylene was analyzed at a 3.6X dilution. The DL's were adjusted accordingly.

Sample WES142 [VP14-1] : Increased DL for propene due to interference from propane.
Increased DL for hexane and 2,2,4-trimethylpentane due to interference.

Sample WES143 [VP14-2] : Increased DL for propene due to interference from propane.
Increased DL for Hexane due to interference.

Sample WES144 [VP14-7] : Increased DL for propene due to interference from propane.
Increased DL for hexane and 2,2,4-trimethylpentane due to interference.

Sample WES145 [VP14-10] : The sample was analyzed at a 1.8X dilution. Trichloroethylene and tetrachloroethylene was analyzed at a 7.6X dilution.
The DL's were adjusted accordingly.
Increased DL for propene due to interference from propane.
Increased DL for hexane and vinyl acetate due to interference.

Sample WES146 [QC-01] : Increased DL for propene due to interference from propane.
Increased DL for hexane due to interference.
Trichloroethylene, cis-1,2-dichloroethylene and tetrachloroethylene was analyzed at a 3.6X dilution. The DL's were adjusted accordingly.

Sample WES147 [VP14-3] : Increased DL for propene due to interference from propane.
Trichloroethylene, cis-1,2-dichloroethylene and tetrachloroethylene was analyzed at a 36.3X dilution. The DL's were adjusted accordingly.

Sample WES148 [QC-02] : Increased DL for propene due to interference from propane.
Trichloroethylene, cis-1,2-dichloroethylene and tetrachloroethylene was analyzed at a 36.5X dilution. The DL's were adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

QUALITY ASSURANCE REPORT

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

QC Batch	Parameter	Date	SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8754618	Bromochloromethane	2023/06/27	103	60 - 140	87	%		
8754618	D5-Chlorobenzene	2023/06/27	98	60 - 140	75	%		
8754618	Difluorobenzene	2023/06/27	101	60 - 140	81	%		
8748305	1,1,1,2-Tetrachloroethane	2023/07/06					NC	25
8748305	1,1,1-Trichloroethane	2023/07/06					10	25
8748305	1,1,2,2-Tetrachloroethane	2023/07/06					NC	25
8748305	1,1,2-Trichloroethane	2023/07/06					NC	25
8748305	1,1-Dichloroethane	2023/07/06					NC	25
8748305	1,1-Dichloroethylene	2023/07/06					NC	25
8748305	1,2,4-Trichlorobenzene	2023/07/06					NC	25
8748305	1,2,4-Trimethylbenzene	2023/07/06					NC	25
8748305	1,2-Dichlorobenzene	2023/07/06					NC	25
8748305	1,2-Dichloroethane	2023/07/06					NC	25
8748305	1,2-Dichloropropane	2023/07/06					NC	25
8748305	1,2-Dichlorotetrafluoroethane	2023/07/06					NC	25
8748305	1,3,5-Trimethylbenzene	2023/07/06					NC	25
8748305	1,3-Butadiene	2023/07/06					NC	25
8748305	1,3-Dichlorobenzene	2023/07/06					NC	25
8748305	1,4-Dichlorobenzene	2023/07/06					NC	25
8748305	1,4-Dioxane	2023/07/06					NC	25
8748305	2,2,4-Trimethylpentane	2023/07/06					NC	25
8748305	2-propanol	2023/07/06					NC	25
8748305	2-Propanone	2023/07/06					14	25
8748305	4-ethyltoluene	2023/07/06					NC	25
8748305	Benzene	2023/07/05					2.2	25
8748305	Benzyl chloride	2023/07/06					NC	25
8748305	Bromodichloromethane	2023/07/06					NC	25
8748305	Bromoform	2023/07/06					NC	25
8748305	Bromomethane	2023/07/06					NC	25
8748305	Carbon Disulfide	2023/07/06					NC	25
8748305	Carbon Tetrachloride	2023/07/06					9.7	25



BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

QC Batch	Parameter	Date	SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8748305	Chlorobenzene	2023/07/06					NC	25
8748305	Chloroethane	2023/07/06					NC	25
8748305	Chloroform	2023/07/06					5.0	25
8748305	Chloromethane	2023/07/06					NC	25
8748305	cis-1,2-Dichloroethylene	2023/07/06					NC	25
8748305	cis-1,3-Dichloropropene	2023/07/06					NC	25
8748305	Cyclohexane	2023/07/06					6.3	25
8748305	Dibromochloromethane	2023/07/06					NC	25
8748305	Dichlorodifluoromethane (FREON 12)	2023/07/06					15	25
8748305	Ethanol (ethyl alcohol)	2023/07/06					8.4	25
8748305	Ethyl Acetate	2023/07/06					7.0	25
8748305	Ethylbenzene	2023/07/05					NC	25
8748305	Ethylene Dibromide	2023/07/06					NC	25
8748305	Heptane	2023/07/06					16	25
8748305	Hexachlorobutadiene	2023/07/06					NC	25
8748305	Hexane	2023/07/06					NC	25
8748305	Methyl Butyl Ketone (2-Hexanone)	2023/07/06					NC	25
8748305	Methyl Ethyl Ketone (2-Butanone)	2023/07/06					9.6	25
8748305	Methyl Isobutyl Ketone	2023/07/06					9.9	25
8748305	Methyl t-butyl ether (MTBE)	2023/07/06					NC	25
8748305	Methylene Chloride(Dichloromethane)	2023/07/06					NC	25
8748305	Naphthalene	2023/07/06					NC	25
8748305	o-Xylene	2023/07/05					NC	25
8748305	p+m-Xylene	2023/07/05					NC	25
8748305	Propene	2023/07/06					NC	25
8748305	Styrene	2023/07/06					9.0	25
8748305	Tetrachloroethylene	2023/07/06					12	25
8748305	Tetrahydrofuran	2023/07/06					NC	25
8748305	Toluene	2023/07/05					NC	25
8748305	Total Xylenes	2023/07/05					NC	25
8748305	trans-1,2-Dichloroethylene	2023/07/06					NC	25

BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 122170424
Sampler Initials: TS

QC Batch	Parameter	Date	SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8748305	trans-1,3-Dichloropropene	2023/07/06					NC	25
8748305	Trichloroethylene	2023/07/06					24	25
8748305	Trichlorofluoromethane (FREON 11)	2023/07/06					15	25
8748305	Trichlorotrifluoroethane	2023/07/06					NC	25
8748305	Vinyl Acetate	2023/07/06					NC	25
8748305	Vinyl Bromide	2023/07/06					NC	25
8748305	Vinyl Chloride	2023/07/06					NC	25
8754618	1,1,1,2-Tetrachloroethane	2023/06/27	106	70 - 130	<0.10	ppbv	NC	25
8754618	1,1,1-Trichloroethane	2023/06/27	103	70 - 130	<0.10	ppbv	10	25
8754618	1,1,2,2-Tetrachloroethane	2023/06/27	94	70 - 130	<0.10	ppbv	NC	25
8754618	1,1,2-Trichloroethane	2023/06/27	109	70 - 130	<0.10	ppbv	NC	25
8754618	1,1-Dichloroethane	2023/06/27	101	70 - 130	<0.10	ppbv	NC	25
8754618	1,1-Dichloroethylene	2023/06/27	94	70 - 130	<0.10	ppbv	NC	25
8754618	1,2,4-Trichlorobenzene	2023/06/27	85	70 - 130	<0.50	ppbv	NC	25
8754618	1,2,4-Trimethylbenzene	2023/06/27	104	70 - 130	<0.50	ppbv	NC	25
8754618	1,2-Dichlorobenzene	2023/06/27	91	70 - 130	<0.10	ppbv	NC	25
8754618	1,2-Dichloroethane	2023/06/27	102	70 - 130	<0.10	ppbv	NC	25
8754618	1,2-Dichloropropane	2023/06/27	106	70 - 130	<0.10	ppbv	NC	25
8754618	1,2-Dichlorotetrafluoroethane	2023/06/27	94	70 - 130	<0.17	ppbv	NC	25
8754618	1,3,5-Trimethylbenzene	2023/06/27	101	70 - 130	<0.50	ppbv	NC	25
8754618	1,3-Butadiene	2023/06/27	101	70 - 130	<0.50	ppbv	NC	25
8754618	1,3-Dichlorobenzene	2023/06/27	98	70 - 130	<0.40	ppbv	NC	25
8754618	1,4-Dichlorobenzene	2023/06/27	95	70 - 130	<0.10	ppbv	NC	25
8754618	1,4-Dioxane	2023/06/27	117	70 - 130	<1.0	ppbv	NC	25
8754618	2,2,4-Trimethylpentane	2023/06/27	117	70 - 130	<0.20	ppbv	NC	25
8754618	2-propanol	2023/06/27	89	70 - 130	<1.0	ppbv	NC	25
8754618	2-Propanone	2023/06/27	95	70 - 130	<0.60	ppbv	14	25
8754618	4-ethyltoluene	2023/06/27	110	70 - 130	<0.50	ppbv	NC	25
8754618	Benzene	2023/06/27	110	70 - 130	<0.10	ppbv	15	25
8754618	Benzyl chloride	2023/06/27	106	70 - 130	<0.50	ppbv	NC	25
8754618	Bromodichloromethane	2023/06/27	104	70 - 130	<0.20	ppbv	NC	25

BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 122170424
Sampler Initials: TS

QC Batch	Parameter	Date	SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8754618	Bromoform	2023/06/27	110	70 - 130	<0.20	ppbv	NC	25
8754618	Bromomethane	2023/06/27	94	70 - 130	<0.10	ppbv	NC	25
8754618	Carbon Disulfide	2023/06/27	102	70 - 130	<0.50	ppbv	NC	25
8754618	Carbon Tetrachloride	2023/06/27	113	70 - 130	<0.10	ppbv	9.7	25
8754618	Chlorobenzene	2023/06/27	99	70 - 130	<0.10	ppbv	NC	25
8754618	Chloroethane	2023/06/27	95	70 - 130	<0.30	ppbv	NC	25
8754618	Chloroform	2023/06/27	103	70 - 130	<0.10	ppbv	5.0	25
8754618	Chloromethane	2023/06/27	94	70 - 130	<0.30	ppbv	NC	25
8754618	cis-1,2-Dichloroethylene	2023/06/27	103	70 - 130	<0.10	ppbv	NC	25
8754618	cis-1,3-Dichloropropene	2023/06/27	107	70 - 130	<0.10	ppbv	NC	25
8754618	Cyclohexane	2023/06/27	111	70 - 130	<0.20	ppbv	6.3	25
8754618	Dibromochloromethane	2023/06/27	115	70 - 130	<0.20	ppbv	NC	25
8754618	Dichlorodifluoromethane (FREON 12)	2023/06/27	102	70 - 130	<0.20	ppbv	15	25
8754618	Ethanol (ethyl alcohol)	2023/06/27	85	70 - 130	<1.0	ppbv	8.4	25
8754618	Ethyl Acetate	2023/06/27	110	70 - 130	<1.0	ppbv	7.0	25
8754618	Ethylbenzene	2023/06/27	109	70 - 130	<0.10	ppbv	4.6	25
8754618	Ethylene Dibromide	2023/06/27	109	70 - 130	<0.10	ppbv	NC	25
8754618	Heptane	2023/06/27	115	70 - 130	<0.30	ppbv	16	25
8754618	Hexachlorobutadiene	2023/06/27	90	70 - 130	<0.50	ppbv	NC	25
8754618	Hexane	2023/06/27	105	70 - 130	<0.20	ppbv	NC	25
8754618	Methyl Butyl Ketone (2-Hexanone)	2023/06/27	105	70 - 130	<1.0	ppbv	NC	25
8754618	Methyl Ethyl Ketone (2-Butanone)	2023/06/27	110	70 - 130	<0.20	ppbv	9.6	25
8754618	Methyl Isobutyl Ketone	2023/06/27	107	70 - 130	<0.20	ppbv	9.9	25
8754618	Methyl t-butyl ether (MTBE)	2023/06/27	98	70 - 130	<0.20	ppbv	NC	25
8754618	Methylene Chloride(Dichloromethane)	2023/06/27	95	70 - 130	<0.60	ppbv	NC	25
8754618	Naphthalene	2023/06/27	89	70 - 130	<0.20	ppbv	NC	25
8754618	o-Xylene	2023/06/27	102	70 - 130	<0.10	ppbv	4.5	25
8754618	p+m-Xylene	2023/06/27	107	70 - 130	<0.20	ppbv	5.9	25
8754618	Propene	2023/06/27	93	70 - 130	<0.50	ppbv	NC	25
8754618	Styrene	2023/06/27	104	70 - 130	<0.10	ppbv	9.0	25
8754618	Tetrachloroethylene	2023/06/27	112	70 - 130	<0.10	ppbv	12	25

BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 122170424
Sampler Initials: TS

QC Batch	Parameter	Date	SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8754618	Tetrahydrofuran	2023/06/27	111	70 - 130	<0.40	ppbv	NC	25
8754618	Toluene	2023/06/27	113	70 - 130	<0.10	ppbv	13	25
8754618	Total Xylenes	2023/06/27	105	70 - 130	<0.30	ppbv	5.6	25
8754618	trans-1,2-Dichloroethylene	2023/06/27	102	70 - 130	<0.10	ppbv	NC	25
8754618	trans-1,3-Dichloropropene	2023/06/27	118	70 - 130	<0.10	ppbv	NC	25
8754618	Trichloroethylene	2023/06/27	114	70 - 130	<0.10	ppbv	24	25
8754618	Trichlorofluoromethane (FREON 11)	2023/06/27	94	70 - 130	<0.20	ppbv	15	25
8754618	Trichlorotrifluoroethane	2023/06/27	98	70 - 130	<0.15	ppbv	NC	25
8754618	Vinyl Acetate	2023/06/27	113	70 - 130	<0.20	ppbv	NC	25
8754618	Vinyl Bromide	2023/06/27	89	70 - 130	<0.20	ppbv	NC	25
8754618	Vinyl Chloride	2023/06/27	95	70 - 130	<0.10	ppbv	NC	25
8760081	Aliphatic >C10-C12	2023/06/27			<5.0	ug/m3	10	25
8760081	Aliphatic >C12-C16	2023/06/27			<5.0	ug/m3	NC	25
8760081	Aliphatic >C5-C6	2023/06/27			<5.0	ug/m3	NC	25
8760081	Aliphatic >C6-C8	2023/06/27			<5.0	ug/m3	1.0	25
8760081	Aliphatic >C8-C10	2023/06/27			<5.0	ug/m3	13	25
8760081	Aromatic >C10-C12	2023/06/27			<5.0	ug/m3	NC	25
8760081	Aromatic >C12-C16	2023/06/27			<5.0	ug/m3	NC	25
8760081	Aromatic >C7-C8 (TEX Excluded)	2023/06/27			<5.0	ug/m3	NC	25
8760081	Aromatic >C8-C10	2023/06/27			<5.0	ug/m3	12	25

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

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 $\leq 2 \times \text{RDL}$).



BUREAU
VERITAS

Bureau Veritas Job #: C314573

Report Date: 2023/07/07

Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: TS

VALIDATION SIGNATURE PAGE

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

Anke Macfarlane, Laboratory Manager, VOC

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 #: 122170424
Your C.O.C. #: 51945

Attention: Dylan Hemmings

Stantec Consulting Ltd
1331 Clyde Avenue
Suite 400
Ottawa, ON
CANADA K2C 3G4

Report Date: 2023/07/10
Report #: R7707532
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C317416

Received: 2023/06/27, 09:00

Sample Matrix: Air
Samples Received: 1

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
BTEX Fractionation in Air (TO-15mod)	1	N/A	2023/07/04 BRL SOP-00304	EPA TO-15 m
Canister Pressure (TO-15)	1	N/A	2023/07/04 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (ug/m3)	1	N/A	2023/07/06 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	1	N/A	2023/07/04 BRL SOP-00304	EPA TO-15 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) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.



Your Project #: 122170424
Your C.O.C. #: 51945

Attention: Dylan Hemmings

Stantec Consulting Ltd
1331 Clyde Avenue
Suite 400
Ottawa, ON
CANADA K2C 3G4

Report Date: 2023/07/10
Report #: R7707532
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C317416

Received: 2023/06/27, 09:00

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:

Cristina (Maria) Bacchus, Project Manager

Email: maria.bacchus@bureauveritas.com

Phone# (905)817-5763

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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 #: C317416
Report Date: 2023/07/10

Stantec Consulting Ltd
Client Project #: 122170424
Sampler Initials: JA

RESULTS OF ANALYSES OF AIR

Bureau Veritas ID		WFH728	
Sampling Date		2023/06/26	
COC Number		51945	
	UNITS	VP14-04	QC Batch
Volatile Organics			
Pressure on Receipt	psig	(-6.5)	8767215
QC Batch = Quality Control Batch			



VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		WFH728		
Sampling Date		2023/06/26		
COC Number		51945		
	UNITS	VP14-04	RDL	QC Batch
Volatile Organics				
Dichlorodifluoromethane (FREON 12)	ppbv	<0.96	0.96	8766705
1,2-Dichlorotetrafluoroethane	ppbv	<0.82	0.82	8766705
Chloromethane	ppbv	<1.4	1.4	8766705
Vinyl Chloride	ppbv	<0.48	0.48	8766705
Chloroethane	ppbv	<1.4	1.4	8766705
1,3-Butadiene	ppbv	<2.4	2.4	8766705
Trichlorofluoromethane (FREON 11)	ppbv	<0.96	0.96	8766705
Ethanol (ethyl alcohol)	ppbv	7.5	4.8	8766705
Trichlorotrifluoroethane	ppbv	3.43	0.72	8766705
2-propanol	ppbv	<4.8	4.8	8766705
2-Propanone	ppbv	<2.9	2.9	8766705
Methyl Ethyl Ketone (2-Butanone)	ppbv	<0.96	0.96	8766705
Methyl Isobutyl Ketone	ppbv	<0.96	0.96	8766705
Methyl Butyl Ketone (2-Hexanone)	ppbv	<4.8	4.8	8766705
Methyl t-butyl ether (MTBE)	ppbv	<0.96	0.96	8766705
Ethyl Acetate	ppbv	<4.8	4.8	8766705
1,1-Dichloroethylene	ppbv	<0.48	0.48	8766705
cis-1,2-Dichloroethylene	ppbv	1.65	0.48	8766705
trans-1,2-Dichloroethylene	ppbv	<0.48	0.48	8766705
Methylene Chloride(Dichloromethane)	ppbv	4.6	2.9	8766705
Chloroform	ppbv	5.69	0.48	8766705
Carbon Tetrachloride	ppbv	6.22	0.48	8766705
1,1-Dichloroethane	ppbv	<0.48	0.48	8766705
1,2-Dichloroethane	ppbv	<0.48	0.48	8766705
Ethylene Dibromide	ppbv	<0.48	0.48	8766705
1,1,1-Trichloroethane	ppbv	1.57	0.48	8766705
1,1,2-Trichloroethane	ppbv	<0.48	0.48	8766705
1,1,2,2-Tetrachloroethane	ppbv	<0.48	0.48	8766705
cis-1,3-Dichloropropene	ppbv	<0.48	0.48	8766705
trans-1,3-Dichloropropene	ppbv	<0.48	0.48	8766705
1,2-Dichloropropane	ppbv	<0.48	0.48	8766705
Bromomethane	ppbv	<0.48	0.48	8766705
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		WFH728		
Sampling Date		2023/06/26		
COC Number		51945		
	UNITS	VP14-04	RDL	QC Batch
Bromoform	ppbv	<0.96	0.96	8766705
Bromodichloromethane	ppbv	<0.96	0.96	8766705
Dibromochloromethane	ppbv	<0.96	0.96	8766705
Trichloroethylene	ppbv	25.3	0.48	8766705
Tetrachloroethylene	ppbv	341	0.48	8766705
Benzene	ppbv	<0.48	0.48	8766705
Toluene	ppbv	1.08	0.48	8766705
Ethylbenzene	ppbv	<0.48	0.48	8766705
p+m-Xylene	ppbv	<0.96	0.96	8766705
o-Xylene	ppbv	<0.48	0.48	8766705
Styrene	ppbv	<0.48	0.48	8766705
4-ethyltoluene	ppbv	<2.4	2.4	8766705
1,3,5-Trimethylbenzene	ppbv	<2.4	2.4	8766705
1,2,4-Trimethylbenzene	ppbv	<2.4	2.4	8766705
Chlorobenzene	ppbv	<0.48	0.48	8766705
Benzyl chloride	ppbv	<2.4	2.4	8766705
1,3-Dichlorobenzene	ppbv	<1.9	1.9	8766705
1,4-Dichlorobenzene	ppbv	<0.48	0.48	8766705
1,2-Dichlorobenzene	ppbv	<0.48	0.48	8766705
1,2,4-Trichlorobenzene	ppbv	<2.4	2.4	8766705
Hexachlorobutadiene	ppbv	<2.4	2.4	8766705
Hexane	ppbv	<0.96	0.96	8766705
Heptane	ppbv	<1.4	1.4	8766705
Cyclohexane	ppbv	<0.96	0.96	8766705
Tetrahydrofuran	ppbv	<1.9	1.9	8766705
1,4-Dioxane	ppbv	<4.8	4.8	8766705
Naphthalene	ppbv	<0.96	0.96	8766705
Total Xylenes	ppbv	<1.4	1.4	8766705
1,1,1,2-Tetrachloroethane	ppbv	<0.48	0.48	8766705
Vinyl Bromide	ppbv	<0.96	0.96	8766705
Propene	ppbv	<2.4	2.4	8766705
2,2,4-Trimethylpentane	ppbv	<0.96	0.96	8766705
Carbon Disulfide	ppbv	<2.4	2.4	8766705
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C317416
Report Date: 2023/07/10

Stantec Consulting Ltd
Client Project #: 122170424
Sampler Initials: JA

VOLATILE ORGANICS BY GC/MS (AIR)

Bureau Veritas ID		WFH728		
Sampling Date		2023/06/26		
COC Number		51945		
	UNITS	VP14-04	RDL	QC Batch
Vinyl Acetate	ppbv	<0.96	0.96	8766705
Surrogate Recovery (%)				
Bromochloromethane	%	94		8766705
D5-Chlorobenzene	%	87		8766705
Difluorobenzene	%	94		8766705
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				

**CALCULATED VOLATILE ORGANICS (AIR)**

Bureau Veritas ID		WFH728		
Sampling Date		2023/06/26		
COC Number		51945		
	UNITS	VP14-04	RDL	QC Batch
Calculated Parameters				
Dichlorodifluoromethane (FREON 12)	ug/m3	<4.7	4.7	8754708
1,2-Dichlorotetrafluoroethane	ug/m3	<5.7	5.7	8754708
Chloromethane	ug/m3	<3.0	3.0	8754708
Vinyl Chloride	ug/m3	<1.2	1.2	8754708
Chloroethane	ug/m3	<3.8	3.8	8754708
1,3-Butadiene	ug/m3	<5.3	5.3	8754708
Trichlorofluoromethane (FREON 11)	ug/m3	<5.4	5.4	8754708
Ethanol (ethyl alcohol)	ug/m3	14.2	9.0	8754708
Trichlorotrifluoroethane	ug/m3	26.3	5.5	8754708
2-propanol	ug/m3	<12	12	8754708
2-Propanone	ug/m3	<6.8	6.8	8754708
Methyl Ethyl Ketone (2-Butanone)	ug/m3	<2.8	2.8	8754708
Methyl Isobutyl Ketone	ug/m3	<3.9	3.9	8754708
Methyl Butyl Ketone (2-Hexanone)	ug/m3	<20	20	8754708
Methyl t-butyl ether (MTBE)	ug/m3	<3.5	3.5	8754708
Ethyl Acetate	ug/m3	<17	17	8754708
1,1-Dichloroethylene	ug/m3	<1.9	1.9	8754708
cis-1,2-Dichloroethylene	ug/m3	6.6	1.9	8754708
trans-1,2-Dichloroethylene	ug/m3	<1.9	1.9	8754708
Methylene Chloride(Dichloromethane)	ug/m3	16	10	8754708
Chloroform	ug/m3	27.8	2.3	8754708
Carbon Tetrachloride	ug/m3	39.1	3.0	8754708
1,1-Dichloroethane	ug/m3	<1.9	1.9	8754708
1,2-Dichloroethane	ug/m3	<1.9	1.9	8754708
Ethylene Dibromide	ug/m3	<3.7	3.7	8754708
1,1,1-Trichloroethane	ug/m3	8.6	2.6	8754708
1,1,2-Trichloroethane	ug/m3	<2.6	2.6	8754708
1,1,2,2-Tetrachloroethane	ug/m3	<3.3	3.3	8754708
cis-1,3-Dichloropropene	ug/m3	<2.2	2.2	8754708
trans-1,3-Dichloropropene	ug/m3	<2.2	2.2	8754708
1,2-Dichloropropane	ug/m3	<2.2	2.2	8754708
Bromomethane	ug/m3	<1.9	1.9	8754708
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				

**CALCULATED VOLATILE ORGANICS (AIR)**

Bureau Veritas ID		WFH728		
Sampling Date		2023/06/26		
COC Number		51945		
	UNITS	VP14-04	RDL	QC Batch
Bromoform	ug/m3	<9.9	9.9	8754708
Bromodichloromethane	ug/m3	<6.4	6.4	8754708
Dibromochloromethane	ug/m3	<8.2	8.2	8754708
Trichloroethylene	ug/m3	136	2.6	8754708
Tetrachloroethylene	ug/m3	2310	3.3	8754708
Benzene	ug/m3	<1.5	1.5	8754708
Toluene	ug/m3	4.1	1.8	8754708
Ethylbenzene	ug/m3	<2.1	2.1	8754708
p+m-Xylene	ug/m3	<4.2	4.2	8754708
o-Xylene	ug/m3	<2.1	2.1	8754708
Styrene	ug/m3	<2.0	2.0	8754708
4-ethyltoluene	ug/m3	<12	12	8754708
1,3,5-Trimethylbenzene	ug/m3	<12	12	8754708
1,2,4-Trimethylbenzene	ug/m3	<12	12	8754708
Chlorobenzene	ug/m3	<2.2	2.2	8754708
Benzyl chloride	ug/m3	<12	12	8754708
1,3-Dichlorobenzene	ug/m3	<12	12	8754708
1,4-Dichlorobenzene	ug/m3	<2.9	2.9	8754708
1,2-Dichlorobenzene	ug/m3	<2.9	2.9	8754708
1,2,4-Trichlorobenzene	ug/m3	<18	18	8754708
Hexachlorobutadiene	ug/m3	<26	26	8754708
Hexane	ug/m3	<3.4	3.4	8754708
Heptane	ug/m3	<5.9	5.9	8754708
Cyclohexane	ug/m3	<3.3	3.3	8754708
Tetrahydrofuran	ug/m3	<5.7	5.7	8754708
1,4-Dioxane	ug/m3	<17	17	8754708
Naphthalene	ug/m3	<5.0	5.0	8754708
Total Xylenes	ug/m3	<6.3	6.3	8754708
1,1,1,2-Tetrachloroethane	ug/m3	<3.3	3.3	8754708
Vinyl Bromide	ug/m3	<4.2	4.2	8754708
Propene	ug/m3	<4.1	4.1	8754708
2,2,4-Trimethylpentane	ug/m3	<4.5	4.5	8754708
Carbon Disulfide	ug/m3	<7.5	7.5	8754708
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
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Stantec Consulting Ltd

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Sampler Initials: JA

CALCULATED VOLATILE ORGANICS (AIR)

Bureau Veritas ID		WFH728		
Sampling Date		2023/06/26		
COC Number		51945		
	UNITS	VP14-04	RDL	QC Batch
Vinyl Acetate	ug/m3	<3.4	3.4	8754708
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
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Stantec Consulting Ltd
Client Project #: 122170424
Sampler Initials: JA

VOLATILE ORGANIC HYDROCARBONS BY GC/MS (AIR)

Bureau Veritas ID		WFH728		
Sampling Date		2023/06/26		
COC Number		51945		
	UNITS	VP14-04	RDL	QC Batch
Volatile Organics				
Aliphatic >C5-C6	ug/m3	<24	24	8771626
Aliphatic >C6-C8	ug/m3	<24	24	8771626
Aliphatic >C8-C10	ug/m3	<24	24	8771626
Aliphatic >C10-C12	ug/m3	<24	24	8771626
Aliphatic >C12-C16	ug/m3	<24	24	8771626
Aromatic >C7-C8 (TEX Excluded)	ug/m3	<24	24	8771626
Aromatic >C8-C10	ug/m3	<24	24	8771626
Aromatic >C10-C12	ug/m3	<24	24	8771626
Aromatic >C12-C16	ug/m3	<24	24	8771626
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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Stantec Consulting Ltd

Client Project #: 122170424

Sampler Initials: JA

TEST SUMMARY

Bureau Veritas ID: WFH728

Sample ID: VP14-04

Matrix: Air

Collected: 2023/06/26

Shipped:

Received: 2023/06/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
BTEX Fractionation in Air (TO-15mod)	GC/MS	8771626	N/A	2023/07/04	Yao Liang Sun
Canister Pressure (TO-15)	PRES	8767215	N/A	2023/07/04	Yao Liang Sun
Volatile Organics in Air (ug/m3)	GC/MS	8754708	N/A	2023/07/06	Automated Statchk
Volatile Organics in Air (TO-15)	GC/MS	8766705	N/A	2023/07/04	Yao Liang Sun



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Bureau Veritas Job #: C317416

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Stantec Consulting Ltd

Client Project #: 122170424

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GENERAL COMMENTS

Sample WFH728 [VP14-04] : Sample was analyzed at a 4.8X dilution. The DL's were adjusted accordingly.

Results relate only to the items tested.

BUREAU
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Bureau Veritas Job #: C3I7416

Report Date: 2023/07/10

QUALITY ASSURANCE REPORT

Stantec Consulting Ltd
Client Project #: 122170424
Sampler Initials: JA

QC Batch	Parameter	Date	SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8766705	Bromochloromethane	2023/07/04	108	60 - 140	101	%		
8766705	D5-Chlorobenzene	2023/07/04	109	60 - 140	91	%		
8766705	Difluorobenzene	2023/07/04	108	60 - 140	100	%		
8766705	1,1,1,2-Tetrachloroethane	2023/07/04	98	70 - 130	<0.10	ppbv	NC	25
8766705	1,1,1-Trichloroethane	2023/07/04	95	70 - 130	<0.10	ppbv	NC	25
8766705	1,1,2,2-Tetrachloroethane	2023/07/04	97	70 - 130	<0.10	ppbv	NC	25
8766705	1,1,2-Trichloroethane	2023/07/04	102	70 - 130	<0.10	ppbv	NC	25
8766705	1,1-Dichloroethane	2023/07/04	97	70 - 130	<0.10	ppbv	NC	25
8766705	1,1-Dichloroethylene	2023/07/04	93	70 - 130	<0.10	ppbv	NC	25
8766705	1,2,4-Trichlorobenzene	2023/07/04	91	70 - 130	<0.50	ppbv	NC	25
8766705	1,2,4-Trimethylbenzene	2023/07/04	99	70 - 130	<0.50	ppbv	NC	25
8766705	1,2-Dichlorobenzene	2023/07/04	93	70 - 130	<0.10	ppbv	NC	25
8766705	1,2-Dichloroethane	2023/07/04	95	70 - 130	<0.10	ppbv	NC	25
8766705	1,2-Dichloropropane	2023/07/04	99	70 - 130	<0.10	ppbv	NC	25
8766705	1,2-Dichlorotetrafluoroethane	2023/07/04	95	70 - 130	<0.17	ppbv	NC	25
8766705	1,3,5-Trimethylbenzene	2023/07/04	97	70 - 130	<0.50	ppbv	NC	25
8766705	1,3-Butadiene	2023/07/04	103	70 - 130	<0.50	ppbv	NC	25
8766705	1,3-Dichlorobenzene	2023/07/04	98	70 - 130	<0.40	ppbv	NC	25
8766705	1,4-Dichlorobenzene	2023/07/04	95	70 - 130	<0.10	ppbv	NC	25
8766705	1,4-Dioxane	2023/07/04	108	70 - 130	<1.0	ppbv	NC	25
8766705	2,2,4-Trimethylpentane	2023/07/04	102	70 - 130	<0.20	ppbv	NC	25
8766705	2-propanol	2023/07/04	105	70 - 130	<1.0	ppbv	NC	25
8766705	2-Propanone	2023/07/04	95	70 - 130	<0.60	ppbv	1.0	25
8766705	4-ethyltoluene	2023/07/04	107	70 - 130	<0.50	ppbv	NC	25
8766705	Benzene	2023/07/04	99	70 - 130	<0.10	ppbv	3.6	25
8766705	Benzyl chloride	2023/07/04	110	70 - 130	<0.50	ppbv	NC	25
8766705	Bromodichloromethane	2023/07/04	96	70 - 130	<0.20	ppbv	NC	25
8766705	Bromoform	2023/07/04	106	70 - 130	<0.20	ppbv	NC	25
8766705	Bromomethane	2023/07/04	102	70 - 130	<0.10	ppbv	NC	25
8766705	Carbon Disulfide	2023/07/04	98	70 - 130	<0.50	ppbv	NC	25
8766705	Carbon Tetrachloride	2023/07/04	98	70 - 130	<0.10	ppbv	NC	25

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
Client Project #: 122170424
Sampler Initials: JA

QC Batch	Parameter	Date	SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8766705	Chlorobenzene	2023/07/04	98	70 - 130	<0.10	ppbv	NC	25
8766705	Chloroethane	2023/07/04	101	70 - 130	<0.30	ppbv	NC	25
8766705	Chloroform	2023/07/04	99	70 - 130	<0.10	ppbv	NC	25
8766705	Chloromethane	2023/07/04	88	70 - 130	<0.30	ppbv	0.42	25
8766705	cis-1,2-Dichloroethylene	2023/07/04	97	70 - 130	<0.10	ppbv	NC	25
8766705	cis-1,3-Dichloropropene	2023/07/04	99	70 - 130	<0.10	ppbv	NC	25
8766705	Cyclohexane	2023/07/04	97	70 - 130	<0.20	ppbv	NC	25
8766705	Dibromochloromethane	2023/07/04	106	70 - 130	<0.20	ppbv	NC	25
8766705	Dichlorodifluoromethane (FREON 12)	2023/07/04	97	70 - 130	<0.20	ppbv	3.0	25
8766705	Ethanol (ethyl alcohol)	2023/07/04	100	70 - 130	<1.0	ppbv	5.0	25
8766705	Ethyl Acetate	2023/07/04	103	70 - 130	<1.0	ppbv	NC	25
8766705	Ethylbenzene	2023/07/04	100	70 - 130	<0.10	ppbv	NC	25
8766705	Ethylene Dibromide	2023/07/04	103	70 - 130	<0.10	ppbv	NC	25
8766705	Heptane	2023/07/04	102	70 - 130	<0.30	ppbv	NC	25
8766705	Hexachlorobutadiene	2023/07/04	84	70 - 130	<0.50	ppbv	NC	25
8766705	Hexane	2023/07/04	95	70 - 130	<0.20	ppbv	NC	25
8766705	Methyl Butyl Ketone (2-Hexanone)	2023/07/04	111	70 - 130	<1.0	ppbv	NC	25
8766705	Methyl Ethyl Ketone (2-Butanone)	2023/07/04	103	70 - 130	<0.20	ppbv	6.0	25
8766705	Methyl Isobutyl Ketone	2023/07/04	102	70 - 130	<0.20	ppbv	NC	25
8766705	Methyl t-butyl ether (MTBE)	2023/07/04	86	70 - 130	<0.20	ppbv	NC	25
8766705	Methylene Chloride(Dichloromethane)	2023/07/04	94	70 - 130	<0.60	ppbv	NC	25
8766705	Naphthalene	2023/07/04	96	70 - 130	<0.20	ppbv	NC	25
8766705	o-Xylene	2023/07/04	98	70 - 130	<0.10	ppbv	NC	25
8766705	p+m-Xylene	2023/07/04	102	70 - 130	<0.20	ppbv	NC	25
8766705	Propene	2023/07/04	92	70 - 130	<0.50	ppbv	NC	25
8766705	Styrene	2023/07/04	105	70 - 130	<0.10	ppbv	NC	25
8766705	Tetrachloroethylene	2023/07/04	103	70 - 130	<0.10	ppbv	NC	25
8766705	Tetrahydrofuran	2023/07/04	100	70 - 130	<0.40	ppbv	NC	25
8766705	Toluene	2023/07/04	100	70 - 130	<0.10	ppbv	3.1	25
8766705	Total Xylenes	2023/07/04	101	70 - 130	<0.30	ppbv	NC	25
8766705	trans-1,2-Dichloroethylene	2023/07/04	94	70 - 130	<0.10	ppbv	NC	25

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QUALITY ASSURANCE REPORT(CONT'D)

Stantec Consulting Ltd
 Client Project #: 122170424
 Sampler Initials: JA

QC Batch	Parameter	Date	SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8766705	trans-1,3-Dichloropropene	2023/07/04	108	70 - 130	<0.10	ppbv	NC	25
8766705	Trichloroethylene	2023/07/04	103	70 - 130	<0.10	ppbv	NC	25
8766705	Trichlorofluoromethane (FREON 11)	2023/07/04	96	70 - 130	<0.20	ppbv	2.7	25
8766705	Trichlorotrifluoroethane	2023/07/04	95	70 - 130	<0.15	ppbv	NC	25
8766705	Vinyl Acetate	2023/07/04	101	70 - 130	<0.20	ppbv	NC	25
8766705	Vinyl Bromide	2023/07/04	90	70 - 130	<0.20	ppbv	NC	25
8766705	Vinyl Chloride	2023/07/04	99	70 - 130	<0.10	ppbv	NC	25
8771626	Aliphatic >C10-C12	2023/07/04			<5.0	ug/m3		
8771626	Aliphatic >C12-C16	2023/07/04			<5.0	ug/m3		
8771626	Aliphatic >C5-C6	2023/07/04			<5.0	ug/m3		
8771626	Aliphatic >C6-C8	2023/07/04			<5.0	ug/m3		
8771626	Aliphatic >C8-C10	2023/07/04			<5.0	ug/m3		
8771626	Aromatic >C10-C12	2023/07/04			<5.0	ug/m3		
8771626	Aromatic >C12-C16	2023/07/04			<5.0	ug/m3		
8771626	Aromatic >C7-C8 (TEX Excluded)	2023/07/04			<5.0	ug/m3		
8771626	Aromatic >C8-C10	2023/07/04			<5.0	ug/m3		

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

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).



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Bureau Veritas Job #: C317416
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Stantec Consulting Ltd
Client Project #: 122170424
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VALIDATION SIGNATURE PAGE

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

Melanie Mabini, Team Leader

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