February 25, 2026
Project No. 2600649

Via Email: tomengland999@gmail.com

Georgian Yacht Club
2475 – 3rd Avenue West
Owen Sound, Ontario N4K 4S7

Attention: Mr. Tom England

Re: Excess Soil Management
Proposed Marina Sediment Dredging
Owen Sound, ON

Dear Mr. England,

As you are aware, GEI Consultants Ltd (GEI) was retained by the Georgian Yacht Club (GYC) to provide engineering services for planned sediment dredging within the identified portion of the marina, including excess soil management. The project area is currently utilized as the Georgian Yacht Club, located at 2475 - 3rd Avenue West in Owen Sound ON.

This letter report provides the findings of the environmental soil quality testing that was completed within the marina for excess soil management planning and is prepared to support offsite soil re-use or disposal of the excess soils.

The onsite sampling program, and this Soil Characterization letter report have been prepared with reference to the standards of Ontario Regulation 406/19 and the associated 2020 guidance document titled, “Rules for Soil Management and Excess Soil Quality Standards”.

**Background and Regulatory Setting**

It is our understanding that the project is exempt from Section 8 of Ontario Regulation 406/19 (i.e., filing to the environmental registry) as the volume of soil planned for offsite transport is approximately 240 $m^3$ (i.e., less than 2,000 $m^3$). Therefore, it is our understanding that filing on the RPRA Registry is not required for compliance with Ontario Regulation 406/19 and that this work is being conducted to support due diligence.

Based on the plans, figures, and information provided directly by the client, the area to be dredged is limited to the entrance to the marina and encompasses an approximate area of 35 m by 21 m. According to the details provided, the planned dredging would represent approximately 240 $m^3$ of excess soils to be transported offsite.

For the purpose of documenting the subsurface conditions for soil management, confirmation of the subsurface conditions have generally been determined by comparison to the criteria identified in the document titled*, "Rules for Soil Management and Excess Soil Quality Standards"*, adopted by reference in O. Reg. 406/19, made under the Environmental Protection Act, R.S.O., 1990, hereafter referred to as the Standard. For the purpose of determining the applicable regulatory criteria under O. Reg. 406/19 as amended, the site was characterized based on its property use, drinking water source, soil grain size, depth of overburden, and proximity to a water body.

For assessment purposes, GEI selected and compared the data against the following standards:

- MECP (2011a) Table 1: Full Depth Background SCS (Table 1 All SCS).
- MECP ESQS Table 2.1: Full Depth Excess Soil Quality Standards in a Potable Ground Water Condition for RPI Land Use (Table 2.1 RPI ESQS)
- MECP ESQS Table 3.1: Full Depth Excess Soil Quality Standards in a Non-Potable Ground Water Condition for RPI and ICC Land Use (Table 2.1 ICC ESQS).

## Methodology

GEI personnel attended the site on February 9, 2026, to view and document the nature of the sediment during the environmental investigation. During the investigation, three (3) soil samples were collected from the entrance to the marina as, as shown on Figure 1. Due to winter conditions, and the presence of ice cover across the water surface, access to the underlying sediments was obtained by drilling through the ice at the designated sampling locations. At each location, an access hole was advanced through the ice, and boreholes were subsequently advanced into the underlying sediments to a maximum depth of approximately 0.15 metres below ground surface (mbgs).

During the investigation, one sample was collected from each of the boreholes SA-1 to SA-3 for the analysis of metals and inorganics, polyaromatic hydrocarbons (PAHs), petroleum hydrocarbons (PHCs), BTEX parameters (i.e. benzene, toluene, xylenes, and ethylbenzene), sodium adsorption ratio (SAR), and electrical conductivity (EC). Samples were submitted to Bureau Veritas Laboratories (BVL), a laboratory accredited by the Canadian Association for Laboratory Accreditation (CALA) and by the Standards Council of Canada, for the analyses requested. The samples were submitted to the laboratory under standard chain of custody protocols.

A copy of the laboratory Certificate of Analysis is enclosed with this letter, and a summary of the analytical results is provided in Table 1.

To assess the potential options for re-use and whether soils are considered to be impacted, samples have been compared to Table 1 (background property use), Table 2.1 (potable groundwater Residential/Institutional/Parkland property use) and Table 3.1 (non-potable).

**Findings – Environmental Conditions**

The reported analytical results for the soil samples indicate the following exceedances of the Table 3.1 criteria of the Standard:

- Benzo(a)pyrene (0.39 and 0.41 ug/g at SA-2 and SA-3, respectively),
- Fluoranthene (0.82 and 1.1 ug/g SA-2 and SA-3, respectively).

**Soil Management Considerations**

The potential for re-use of excess soils excavated as part of the proposed works is subject to the requirements of the receiver, the client, and/or the designated project engineer. It is recommended that the number of soil samples collected be reviewed once the amount of excess soil being generated is better understood. The findings of future sampling may change the conclusions herein.

Based on all chemical testing results to date, the soil identified at the locations of SA-2 and SA-3 are impacted with PAHs (benzo(a)pyrene and fluoranthene) in excess of MECP Table 3.1 criteria. On the exceedance of Table 3.1, it is recommended that this soil be considered a waste, and not suitable for re-use without additional sampling if planned for excavation and removal.

It is noted that the subject soils planned for offsite transport consist of sediment with elevated moisture content. Where the excavated soils do not meet the prescribed slump, they would be considered liquid soils and subject to additional requirements under O. Reg 406/19. As such, the soils will require on-site management prior to off-site transport. It is inferred that excess soils will require on-site drying (e.g., through temporary stockpiling on an appropriate surface) until acceptable consistency/dryness is achieved (i.e., until it meets the slump requirements). Appropriate containment and runoff controls should be implemented during drying activities to prevent migration of sediment or potential contaminants.

The actual soil conditions may vary across the project area and should be continually assessed by the contractor during the works. Based on the complexity of the works, a Soil Management Plan is recommended to support the proposed development activities.

The actual soil conditions may vary across the project area and should be continually assessed by the contractor during the works.

**Limitations**

The conclusions pertaining to the environmental condition of soils identified in the project area are based on the visual observations at the locations of the investigative samples and on the analytical data for the selected soil samples. GEI Consultants cannot guarantee the environmental condition of soils that may be encountered at the site in locations that were not specifically investigated.

In the event soils are encountered during the excavation that are suspicious, show evidence of impact, or contain deleterious materials, it is recommended that such soils be segregated and investigated by a Qualified Person prior to off-site shipment and/or considered waste.

The soil quality encountered is expected to be variable across the project area, where minor releases and variable exposures may have occurred. Consequently, monitoring of soil conditions and segregation of suspicious soils is recommended.

This letter report is related to environmental soil quality only and does not include all requirements under Ontario Regulation 406/19. This letter report is not to be considered a Soil Management Plan or provide comment regarding soil excavation methods or in-water work requirements. It is up to the respective parties to ensure their own compliance with Ontario Regulation 406/19 or other applicable regulations/acts.

Although comments are provided regarding re-use of excess soil, it should be noted that it is ultimately up to Georgian Yacht Club and/or the receiver of the soils to assess their own requirements for receipt of soil and level of certainty regarding soil quality. Geotechnical suitability is beyond the scope of this study.

Should you have any questions, please feel free to contact our office.

Yours truly,

**GEI Consultants**

Per:

J.K. Weller, C.E.T.

Per:

A.W. Bringleson, B.E.S., C.E.T.

Per:

M.D. Nelson, P. Eng., P. Geo.

Encl.
Table 1 – Investigative Soil Samples – Analytical Results
Sample Location Plan
Laboratory Certificates of Analysis

cc: Kurtis Mink, via Email - kurtismink@gmail.com
File No. 2600649

# Tables

## Table 1: Investigative Soil Samples - Analytical Results

| Sample ID | Guideline Table 1 Background | Guideline Table 2.1 Potable GW | Guideline Table 3.1 Non-Potable GW | SA-1 | SA-2 | SA-3 |
|---|---|---|---|---|---|---|
| Sample Depth (mbgs) | Agricultural | Res/Park/Inst | Ind/Comm/Comm'ty | 0.15 | 0.15 | 0.15 |
| Sampling Date | | | | 9-Feb-2026 | | |
| **METALS AND INORGANICS (ug/g)** | | | | | | |
| Antimony | 1 | 7.5 | 40 | <0.20 | 0.5 | <0.20 |
| Arsenic | 11 | 18 | 18 | 1.5 | 1.7 | 1.7 |
| Barium | 210 | 390 | 670 | 6 | 8.4 | 8.5 |
| Beryllium | 2.5 | 4.0 | 8.0 | <0.20 | <0.20 | <0.20 |
| Boron (Total) | 36 | 120 | 120 | <5.0 | <5.0 | <5.0 |
| Cadmium | 1 | 1.2 | 1.9 | <0.10 | <0.10 | <0.10 |
| Chromium | 67 | 160 | 160 | 6 | 6.1 | 7.1 |
| Cobalt | 19 | 22 | 80 | 1.7 | 1.9 | 1.9 |
| Copper | 62 | 140 | 230 | 11.0 | 14.0 | 14.0 |
| Lead | 45 | 120 | 120 | 3 | 4.8 | 3.9 |
| Molybdenum | 2 | 6.9 | 40 | <0.50 | <0.50 | <0.50 |
| Nickel | 37 | 100 | 270 | 5.0 | 4.8 | 5.7 |
| Selenium | 1.2 | 2.4 | 5.5 | <0.50 | <0.50 | <0.50 |
| Silver | 0.5 | 20 | 40 | <0.20 | <0.20 | <0.20 |
| Thallium | 1.0 | 1.0 | 3.3 | <0.050 | <0.050 | <0.050 |
| Uranium | 1.9 | 23 | 33 | 0.21 | 0.23 | 0.23 |
| Vanadium | 86 | 86 | 86 | 6 | 6.5 | 7 |
| Zinc | 290 | 340 | 340 | 17 | 21.0 | 21 |
| Electrical Conductivity (ms/cm) | 0.47 | 0.7 | 1.4 | 0.19 | 0.22 | 0.28 |
| Sodium Adsorption Ratio | 1 | 5.0 | 12 | 0.25 | 0.24 | 0.2 |
| **PETROLEUM HYDROCARBONS (PHCs) (ug/g)** | | | | | | |
| Benzene | 0.02 | 0.02 | 0.34 | <0.020 | <0.020 | <0.020 |
| Toluene | 0.2 | 0.2 | 7.8 | <0.020 | <0.020 | <0.020 |
| Ethylbenzene | 0.05 | 0.05 | 1.9 | <0.020 | <0.020 | <0.020 |
| Total Xylenes | 0.05 | 0.091 | 3.0 | <0.040 | <0.040 | <0.040 |
| F1 (C6-C10) | 17 | 25 | 25 | <10 | <10 | <10 |
| F2 (C10-C16) | 10 | 10 | 26 | <7.0 | <7.0 | 7.1 |
| F3 (C16-C34) | 240 | 240 | 1700 | 90 | 87 | 110 |
| F4 (C34-C50) | 120 | 2800 | 3300 | 81 | 72 | 78 |
| **POLYAROMATIC HYDROCARBONS (PAHs) (ug/g)** | | | | | | |
| Acenaphthene | 0.05 | 2.5 | 15 | 0.02 | **0.05** | **0.06** |
| Acenaphthylene | 0.093 | 0.093 | 0.093 | 0.01 | 0.04 | 0.01 |
| Anthracene | 0.05 | 0.16 | 0.16 | 0.04 | **0.14** | **0.21** |
| Benzo(a)anthracene | 0.095 | 0.5 | 1 | **0.12** | **0.37** | **0.46** |
| Benzo(a)pyrene | 0.05 | 0.31 | 0.7 | **0.12** | **0.39** | **0.41** |
| Benzo(b/j)fluoranthene | 0.3 | 3.2 | 7 | 0.15 | **0.43** | **0.44** |
| Benzo(g,h,i)perylene | 0.2 | 6.6 | 13 | 0.09 | **0.26** | **0.24** |
| Benzo(k)fluoranthene | 0.05 | 3.1 | 7 | 0.05 | **0.14** | **0.14** |
| Chrysene | 0.18 | 7 | 14 | 0.10 | **0.36** | **0.40** |
| Dibenzo(a,h)anthracene | 0.1 | 0.57 | 0.7 | 0.02 | 0.06 | 0.06 |
| Fluoranthene | 0.24 | 0.69 | 70 | **0.27** | **0.82** | **1.10** |
| Fluorene | 0.05 | 6.8 | 6.8 | 0.02 | **0.07** | **0.07** |
| Indeno(1,2,3-cd)pyrene | 0.11 | 0.38 | 0.76 | 0.09 | **0.28** | **0.26** |
| 1-Methylnaphthalene | 0.05 | 0.59 | 8.7 | 0.01 | 0.04 | 0.04 |
| 2-Methylnaphthalene | 0.05 | 0.59 | 8.7 | 0.01 | 0.05 | 0.05 |
| Naphthalene | 0.05 | 0.2 | 1.8 | 0.01 | **0.08** | **0.07** |
| Phenanthrene | 0.19 | 6.2 | 12 | 0.18 | **0.66** | **0.88** |
| Pyrene | 0.19 | 28 | 70 | **0.22** | **0.69** | **0.88** |

**Notes:**

1. Criteria are from the Rules for Soil Management and Excess Soil Quality Standards of O. Reg. 406/19 Under the Environmental Protection Act, April 15, 2011.

2. Parameters that are in **bold** exceed the Table 1 (background) criteria of the Standard for Residential/Parkland/Institutional/Industrial/Commercial/Community property use.

3. Parameters that are shaded exceed the applicable Table 2.1 (Potable Groundwater) criteria of the Standard for Residential/Parkland/Institutional property use.

4. Parameters that are underlined exceed the Table 3.1 (non-potable) criteria of the Standard for for Industrial/Commercial/Community property use.

5. " - " = Associated parameter was not analyzed.

# Figures


# 2600649 GEORGIAN YACHT CLUB EXCESS SOILS FIGURES

## LEGEND:

APPROXIMATE SOIL SAMPLE LOCATION

BASE DRAWING DETAILS AS PER DWG NO. 94-13 (NORTHWOOD ASSOCIATES LANDSCAPE ARCHITECTS LTD)

SCALE: NTS

FEB 2026

## SAMPLE LOCATION PLAN

2475 THIRD AVE W, OWEN SOUND, GREY COUNTY

Figure No. 1

GEI Consultants
*GEI CONSULTANTS CANADA LTD.*
*1260-2ND AVENUE EAST*
*OWEN SOUND, ONTARIO N4K 2J3*
*(519)376-1805*

# Appendix A Laboratory Certificate of Analysis

Your Project #: 2600649
Site Location: GEORGIAN YACHT CLUB
Your C.O.C. #: N/A

**Attention: Reporting Contacts**

GEI Consultants
1260 - 2nd Ave E
Unit 1
Owen Sound, ON
CANADA N4K 2J3

**Report Date: 2026/02/18**
Report #: R8696902
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C613846**
**Received: 2026/02/11, 09:53**

Sample Matrix: Soil
# Samples Received: 3

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|---|---|---|---|---|---|
| Methylnaphthalene Sum | 3 | N/A | 2026/02/17 | CAM SOP-00301 | EPA 8270D m |
| Hot Water Extractable Boron | 3 | 2026/02/17 | 2026/02/18 | CAM SOP-00408 | R153 Ana. Prot. 2011 |
| Free (WAD) Cyanide | 3 | 2026/02/13 | 2026/02/15 | CAM SOP-00457 | OMOE E3015 m |
| Conductivity | 3 | 2026/02/17 | 2026/02/17 | CAM SOP-00414 | OMOE E3530 v1 m |
| Hexavalent Chromium in Soil by IC (1) | 3 | 2026/02/17 | 2026/02/17 | CAM SOP-00436 | EPA 3060A/7199 m |
| Petroleum Hydro. CCME F1 & BTEX in Soil (2) | 3 | N/A | 2026/02/13 | CAM SOP-00315 | CCME PHC-CWS m |
| Petroleum Hydrocarbons F2-F4 in Soil (3) | 3 | 2026/02/13 | 2026/02/13 | CAM SOP-00316 | CCME CWS m |
| Acid Extractable Metals by ICPMS | 3 | 2026/02/17 | 2026/02/17 | CAM SOP-00447 | EPA 6020B m |
| Moisture | 3 | N/A | 2026/02/12 | CAM SOP-00445 | Carter 2nd ed 70.2 m |
| PAH Compounds in Soil by GC/MS (SIM) | 3 | 2026/02/13 | 2026/02/13 | CAM SOP-00318 | EPA 8270E |
| pH CaCl2 EXTRACT | 3 | 2026/02/17 | 2026/02/17 | CAM SOP-00413 | EPA 9045 D m |
| Sodium Adsorption Ratio (SAR) | 3 | N/A | 2026/02/18 | CAM SOP-00102 | EPA 6010C |

**Remarks:**

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

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

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

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.




Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Your Project #: 2600649
Site Location: GEORGIAN YACHT CLUB
Your C.O.C. #: N/A

**Attention: Reporting Contacts**

GEI Consultants
1260 - 2nd Ave E
Unit 1
Owen Sound, ON
CANADA N4K 2J3

**Report Date: 2026/02/18**
Report #: R8696902
Version: 1 - Final

# CERTIFICATE OF ANALYSIS

**BUREAU VERITAS JOB #: C613846**

**Received: 2026/02/11, 09:53**

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) Soils are reported on a dry weight basis unless otherwise specified.

(2) No lab extraction date is given for F1BTEX & VOC samples that are field preserved with methanol. Extraction date is the date sampled unless otherwise stated.

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

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Babandeep Kaur, Project Manager 2
Email: Babandeep.kaur@bureauveritas.com
Phone# (905) 817-5700

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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 Job #: C613846
Report Date: 2026/02/18

GEI Consultants
Client Project #: 2600649
Site Location: GEORGIAN YACHT CLUB
Sampler Initials: AB

## O.REG 153 METALS & INORGANICS PKG (SOIL)

| Bureau Veritas ID | | | | AZVM80 | | | AZVM80 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | | | 2026/02/09 13:15 | | | 2026/02/09 13:15 | | |
| COC Number | | | | N/A | | | N/A | | |
| | UNITS | Criteria | Criteria-2 | SA-1 | RDL | QC Batch | SA-1 Lab-Dup | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | | |
| Sodium Adsorption Ratio | N/A | 2.4 | 5.0 | 0.25 (1) | | A099791 | | | |
| **Inorganics** | | | | | | | | | |
| Conductivity | mS/cm | 0.57 | 0.7 | 0.19 | 0.002 | A101991 | | | |
| Available (CaCl2) pH | pH | - | - | 7.18 | | A102128 | | | |
| WAD Cyanide (Free) | ug/g | 0.051 | 0.051 | <0.01 | 0.01 | A101494 | | | |
| Chromium (VI) | ug/g | 0.66 | 0.66 | <0.18 | 0.18 | A101876 | | | |
| **Metals** | | | | | | | | | |
| Hot Water Ext. Boron (B) | ug/g | - | 1.5 | 0.16 | 0.050 | A101976 | 0.15 | 0.050 | A101976 |
| Acid Extractable Antimony (Sb) | ug/g | 1.3 | 1.3 | <0.20 | 0.20 | A101941 | | | |
| Acid Extractable Arsenic (As) | ug/g | 18 | 18 | 1.5 | 1.0 | A101941 | | | |
| Acid Extractable Barium (Ba) | ug/g | 220 | 220 | 6.4 | 0.50 | A101941 | | | |
| Acid Extractable Beryllium (Be) | ug/g | 2.5 | 2.5 | <0.20 | 0.20 | A101941 | | | |
| Acid Extractable Boron (B) | ug/g | 36 | 36 | <5.0 | 5.0 | A101941 | | | |
| Acid Extractable Cadmium (Cd) | ug/g | 1.2 | 1.2 | <0.10 | 0.10 | A101941 | | | |
| Acid Extractable Chromium (Cr) | ug/g | 70 | 70 | 6.4 | 1.0 | A101941 | | | |
| Acid Extractable Cobalt (Co) | ug/g | 21 | 22 | 1.7 | 0.10 | A101941 | | | |
| Acid Extractable Copper (Cu) | ug/g | 92 | 92 | 11 | 0.50 | A101941 | | | |
| Acid Extractable Lead (Pb) | ug/g | 120 | 120 | 3.4 | 1.0 | A101941 | | | |
| Acid Extractable Molybdenum (Mo) | ug/g | 2 | 2 | <0.50 | 0.50 | A101941 | | | |
| Acid Extractable Nickel (Ni) | ug/g | 82 | 82 | 5.0 | 0.50 | A101941 | | | |
| Acid Extractable Selenium (Se) | ug/g | 1.5 | 1.5 | <0.50 | 0.50 | A101941 | | | |
| Acid Extractable Silver (Ag) | ug/g | 0.5 | 0.5 | <0.20 | 0.20 | A101941 | | | |
| Acid Extractable Thallium (Tl) | ug/g | 1 | 1 | <0.050 | 0.050 | A101941 | | | |
| Acid Extractable Uranium (U) | ug/g | 2.5 | 2.5 | 0.21 | 0.050 | A101941 | | | |
| Acid Extractable Vanadium (V) | ug/g | 86 | 86 | 6.0 | 5.0 | A101941 | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
Criteria-2: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Groundwater Condition
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.


Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

## O.REG 153 METALS & INORGANICS PKG (SOIL)

| Bureau Veritas ID | | | | AZVM80 | | | AZVM80 | | |
|---|---|---|---|---|---|---|---|---|---|
| Sampling Date | | | | 2026/02/09 13:15 | | | 2026/02/09 13:15 | | |
| COC Number | | | | N/A | | | N/A | | |
| | UNITS | Criteria | Criteria-2 | SA-1 | RDL | QC Batch | SA-1 Lab-Dup | RDL | QC Batch |
| Acid Extractable Zinc (Zn) | ug/g | 290 | 290 | 17 | 5.0 | A101941 | | | |
| Acid Extractable Mercury (Hg) | ug/g | 0.27 | 0.27 | <0.050 | 0.050 | A101941 | | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
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## O.REG 153 METALS & INORGANICS PKG (SOIL)

| Bureau Veritas ID | | | | AZVM81 | AZVM82 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | | | 2026/02/09 13:30 | 2026/02/09 13:45 | | |
| COC Number | | | | N/A | N/A | | |
| | UNITS | Criteria | Criteria-2 | SA-2 | SA-3 | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | |
| Sodium Adsorption Ratio | N/A | 2.4 | 5.0 | 0.24 (1) | 0.20 (1) | | A099791 |
| **Inorganics** | | | | | | | |
| Conductivity | mS/cm | 0.57 | 0.7 | 0.22 | 0.28 | 0.002 | A101991 |
| Available (CaCl2) pH | pH | - | - | 7.18 | 7.11 | | A102128 |
| WAD Cyanide (Free) | ug/g | 0.051 | 0.051 | <0.01 | <0.01 | 0.01 | A101494 |
| Chromium (VI) | ug/g | 0.66 | 0.66 | <0.18 | <0.18 | 0.18 | A101876 |
| **Metals** | | | | | | | |
| Hot Water Ext. Boron (B) | ug/g | - | 1.5 | 0.20 | 0.25 | 0.050 | A101976 |
| Acid Extractable Antimony (Sb) | ug/g | 1.3 | 1.3 | 0.50 | <0.20 | 0.20 | A101941 |
| Acid Extractable Arsenic (As) | ug/g | 18 | 18 | 1.7 | 1.7 | 1.0 | A101941 |
| Acid Extractable Barium (Ba) | ug/g | 220 | 220 | 8.4 | 8.5 | 0.50 | A101941 |
| Acid Extractable Beryllium (Be) | ug/g | 2.5 | 2.5 | <0.20 | <0.20 | 0.20 | A101941 |
| Acid Extractable Boron (B) | ug/g | 36 | 36 | <5.0 | <5.0 | 5.0 | A101941 |
| Acid Extractable Cadmium (Cd) | ug/g | 1.2 | 1.2 | <0.10 | <0.10 | 0.10 | A101941 |
| Acid Extractable Chromium (Cr) | ug/g | 70 | 70 | 6.1 | 7.1 | 1.0 | A101941 |
| Acid Extractable Cobalt (Co) | ug/g | 21 | 22 | 1.9 | 1.9 | 0.10 | A101941 |
| Acid Extractable Copper (Cu) | ug/g | 92 | 92 | 14 | 14 | 0.50 | A101941 |
| Acid Extractable Lead (Pb) | ug/g | 120 | 120 | 4.8 | 3.9 | 1.0 | A101941 |
| Acid Extractable Molybdenum (Mo) | ug/g | 2 | 2 | <0.50 | <0.50 | 0.50 | A101941 |
| Acid Extractable Nickel (Ni) | ug/g | 82 | 82 | 4.8 | 5.7 | 0.50 | A101941 |
| Acid Extractable Selenium (Se) | ug/g | 1.5 | 1.5 | <0.50 | <0.50 | 0.50 | A101941 |
| Acid Extractable Silver (Ag) | ug/g | 0.5 | 0.5 | <0.20 | <0.20 | 0.20 | A101941 |
| Acid Extractable Thallium (Tl) | ug/g | 1 | 1 | <0.050 | <0.050 | 0.050 | A101941 |
| Acid Extractable Uranium (U) | ug/g | 2.5 | 2.5 | 0.23 | 0.23 | 0.050 | A101941 |
| Acid Extractable Vanadium (V) | ug/g | 86 | 86 | 6.5 | 6.6 | 5.0 | A101941 |
| Acid Extractable Zinc (Zn) | ug/g | 290 | 290 | 21 | 21 | 5.0 | A101941 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
Criteria-2: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Groundwater Condition
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
(1) Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.


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Bureau Veritas Job #: C613846
Report Date: 2026/02/18

GEI Consultants
Client Project #: 2600649
Site Location: GEORGIAN YACHT CLUB
Sampler Initials: AB

## O.REG 153 METALS & INORGANICS PKG (SOIL)

| Bureau Veritas ID | | | | AZVM81 | AZVM82 | | |
|---|---|---|---|---|---|---|---|
| Sampling Date | | | | 2026/02/09 13:30 | 2026/02/09 13:45 | | |
| COC Number | | | | N/A | N/A | | |
| | UNITS | Criteria | Criteria-2 | SA-2 | SA-3 | RDL | QC Batch |
| Acid Extractable Mercury (Hg) | ug/g | 0.27 | 0.27 | <0.050 | <0.050 | 0.050 | A101941 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
Criteria-2: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Groundwater Condition
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use


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## O.REG 153 PAHS (SOIL)

| Bureau Veritas ID | | | | AZVM80 | AZVM81 | AZVM82 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | | | 2026/02/09 13:15 | 2026/02/09 13:30 | 2026/02/09 13:45 | | |
| COC Number | | | | N/A | N/A | N/A | | |
| | UNITS | Criteria | Criteria-2 | SA-1 | SA-2 | SA-3 | RDL | QC Batch |
| **Calculated Parameters** | | | | | | | | |
| Methylnaphthalene, 2-(1-) | ug/g | 0.59 | 0.59 | 0.016 | 0.083 | 0.084 | 0.0071 | A099810 |
| **Polyaromatic Hydrocarbons** | | | | | | | | |
| Acenaphthene | ug/g | 0.072 | 0.072 | 0.015 | 0.052 | 0.055 | 0.0050 | A101189 |
| Acenaphthylene | ug/g | 0.093 | 0.093 | 0.0064 | 0.036 | 0.011 | 0.0050 | A101189 |
| Anthracene | ug/g | 0.16 | 0.22 | 0.035 | 0.14 | 0.21 | 0.0050 | A101189 |
| Benzo(a)anthracene | ug/g | 0.36 | 0.36 | 0.12 | 0.37 | 0.46 | 0.0050 | A101189 |
| Benzo(a)pyrene | ug/g | 0.3 | 0.3 | 0.12 | 0.39 | 0.41 | 0.0050 | A101189 |
| Benzo(b/j)fluoranthene | ug/g | 0.47 | 0.47 | 0.15 | 0.43 | 0.44 | 0.0050 | A101189 |
| Benzo(g,h,i)perylene | ug/g | 0.68 | 0.68 | 0.092 | 0.26 | 0.24 | 0.0050 | A101189 |
| Benzo(k)fluoranthene | ug/g | 0.48 | 0.48 | 0.047 | 0.14 | 0.14 | 0.0050 | A101189 |
| Chrysene | ug/g | 2.8 | 2.8 | 0.10 | 0.36 | 0.40 | 0.0050 | A101189 |
| Dibenzo(a,h)anthracene | ug/g | 0.1 | 0.1 | 0.022 | 0.064 | 0.064 | 0.0050 | A101189 |
| Fluoranthene | ug/g | 0.56 | 0.69 | 0.27 | 0.82 | 1.1 | 0.0050 | A101189 |
| Fluorene | ug/g | 0.12 | 0.19 | 0.018 | 0.071 | 0.073 | 0.0050 | A101189 |
| Indeno(1,2,3-cd)pyrene | ug/g | 0.23 | 0.23 | 0.091 | 0.28 | 0.26 | 0.0050 | A101189 |
| 1-Methylnaphthalene | ug/g | 0.59 | 0.59 | 0.0065 | 0.035 | 0.036 | 0.0050 | A101189 |
| 2-Methylnaphthalene | ug/g | 0.59 | 0.59 | 0.0095 | 0.048 | 0.048 | 0.0050 | A101189 |
| Naphthalene | ug/g | 0.09 | 0.09 | 0.0091 | 0.076 | 0.066 | 0.0050 | A101189 |
| Phenanthrene | ug/g | 0.69 | 0.69 | 0.18 | 0.66 | 0.88 | 0.0050 | A101189 |
| Pyrene | ug/g | 1 | 1 | 0.22 | 0.69 | 0.88 | 0.0050 | A101189 |
| **Surrogate Recovery (%)** | | | | | | | | |
| D10-Anthracene | % | - | - | 101 | 102 | 101 | | A101189 |
| D14-Terphenyl (FS) | % | - | - | 94 | 90 | 95 | | A101189 |
| D8-Acenaphthylene | % | - | - | 103 | 105 | 108 | | A101189 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
Criteria-2: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Groundwater Condition
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use



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

| Bureau Veritas ID | | | | AZVM80 | AZVM81 | AZVM82 | | |
|---|---|---|---|---|---|---|---|---|
| Sampling Date | | | | 2026/02/09 13:15 | 2026/02/09 13:30 | 2026/02/09 13:45 | | |
| COC Number | | | | N/A | N/A | N/A | | |
| | UNITS | Criteria | Criteria-2 | SA-1 | SA-2 | SA-3 | RDL | QC Batch |
| **BTEX & F1 Hydrocarbons** | | | | | | | | |
| Benzene | ug/g | 0.02 | 0.02 | <0.020 | <0.020 | <0.020 | 0.020 | A101221 |
| Toluene | ug/g | 0.2 | 0.2 | <0.020 | <0.020 | <0.020 | 0.020 | A101221 |
| Ethylbenzene | ug/g | 0.05 | 0.05 | <0.020 | <0.020 | <0.020 | 0.020 | A101221 |
| o-Xylene | ug/g | - | - | <0.020 | <0.020 | <0.020 | 0.020 | A101221 |
| p+m-Xylene | ug/g | - | - | <0.040 | <0.040 | <0.040 | 0.040 | A101221 |
| Total Xylenes | ug/g | 0.05 | 0.05 | <0.040 | <0.040 | <0.040 | 0.040 | A101221 |
| F1 (C6-C10) | ug/g | 25 | 25 | <10 | <10 | <10 | 10 | A101221 |
| F1 (C6-C10) - BTEX | ug/g | 25 | 25 | <10 | <10 | <10 | 10 | A101221 |
| **F2-F4 Hydrocarbons** | | | | | | | | |
| F2 (C10-C16 Hydrocarbons) | ug/g | 10 | 10 | <7.0 | <7.0 | 7.1 | 7.0 | A100871 |
| F3 (C16-C34 Hydrocarbons) | ug/g | 240 | 240 | 90 | 87 | 110 | 50 | A100871 |
| F4 (C34-C50 Hydrocarbons) | ug/g | 120 | 120 | 81 | 72 | 78 | 50 | A100871 |
| Reached Baseline at C50 | ug/g | - | - | Yes | Yes | Yes | | A100871 |
| **Surrogate Recovery (%)** | | | | | | | | |
| 1,4-Difluorobenzene | % | - | - | 109 | 111 | 107 | | A101221 |
| 4-Bromofluorobenzene | % | - | - | 94 | 94 | 95 | | A101221 |
| D10-o-Xylene | % | - | - | 112 | 109 | 112 | | A101221 |
| D4-1,2-Dichloroethane | % | - | - | 98 | 101 | 99 | | A101221 |
| o-Terphenyl | % | - | - | 100 | 100 | 99 | | A100871 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Criteria: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 1: Full Depth Background Site Condition Standards
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use
Criteria-2: Ontario Reg. 153/04 (Amended April 15, 2011)
Table 9: Generic Site Condition Standards for Use within 30 m of a Water Body in a Non-Potable Groundwater Condition
Soil - Residential/Parkland/Institutional/Industrial/Commercial/Community Property Use



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Bureau Veritas Job #: C613846
Report Date: 2026/02/18

GEI Consultants
Client Project #: 2600649
Site Location: GEORGIAN YACHT CLUB
Sampler Initials: AB

## RESULTS OF ANALYSES OF SOIL

| Bureau Veritas ID | | AZVM80 | AZVM81 | AZVM82 | | |
|---|---|---|---|---|---|---|
| Sampling Date | | 2026/02/09 13:15 | 2026/02/09 13:30 | 2026/02/09 13:45 | | |
| COC Number | | N/A | N/A | N/A | | |
| | **UNITS** | **SA-1** | **SA-2** | **SA-3** | **RDL** | **QC Batch** |
| **Inorganics** | | | | | | |
| Moisture | % | 32 | 31 | 32 | 1.0 | A100687 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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Bureau Veritas Job #: C613846
Report Date: 2026/02/18

GEI Consultants
Client Project #: 2600649
Site Location: GEORGIAN YACHT CLUB
Sampler Initials: AB

## TEST SUMMARY

**Bureau Veritas ID:** AZVM80
**Sample ID:** SA-1
**Matrix:** Soil

**Collected:** 2026/02/09
**Shipped:**
**Received:** 2026/02/11

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Methylnaphthalene Sum | CALC | A099810 | N/A | 2026/02/17 | Automated Statchk |
| Hot Water Extractable Boron | ICP | A101976 | 2026/02/17 | 2026/02/18 | Indira HarryPaul |
| Free (WAD) Cyanide | TECH | A101494 | 2026/02/13 | 2026/02/15 | Prgya Panchal |
| Conductivity | AT | A101991 | 2026/02/17 | 2026/02/17 | Surinder Rai |
| Hexavalent Chromium in Soil by IC | IC/SPEC | A101876 | 2026/02/17 | 2026/02/17 | Furneesh Kumar |
| Petroleum Hydro. CCME F1 & BTEX in Soil | HSGC/MSFD | A101221 | N/A | 2026/02/13 | Abdikarim Ali |
| Petroleum Hydrocarbons F2-F4 in Soil | GC/FID | A100871 | 2026/02/13 | 2026/02/13 | Agnieszka Brzuzy-Snopko |
| Acid Extractable Metals by ICPMS | ICP/MS | A101941 | 2026/02/17 | 2026/02/17 | Daniel Teclu |
| Moisture | BAL | A100687 | N/A | 2026/02/12 | Vaishnavi Suthar |
| PAH Compounds in Soil by GC/MS (SIM) | GC/MS | A101189 | 2026/02/13 | 2026/02/13 | Jonghan Yoon |
| pH CaCl2 EXTRACT | AT | A102128 | 2026/02/17 | 2026/02/17 | Surinder Rai |
| Sodium Adsorption Ratio (SAR) | CALC/MET | A099791 | N/A | 2026/02/18 | Automated Statchk |

**Bureau Veritas ID:** AZVM80 Dup
**Sample ID:** SA-1
**Matrix:** Soil

**Collected:** 2026/02/09
**Shipped:**
**Received:** 2026/02/11

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Hot Water Extractable Boron | ICP | A101976 | 2026/02/17 | 2026/02/18 | Indira HarryPaul |

**Bureau Veritas ID:** AZVM81
**Sample ID:** SA-2
**Matrix:** Soil

**Collected:** 2026/02/09
**Shipped:**
**Received:** 2026/02/11

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Methylnaphthalene Sum | CALC | A099810 | N/A | 2026/02/17 | Automated Statchk |
| Hot Water Extractable Boron | ICP | A101976 | 2026/02/17 | 2026/02/18 | Indira HarryPaul |
| Free (WAD) Cyanide | TECH | A101494 | 2026/02/13 | 2026/02/15 | Prgya Panchal |
| Conductivity | AT | A101991 | 2026/02/17 | 2026/02/17 | Surinder Rai |
| Hexavalent Chromium in Soil by IC | IC/SPEC | A101876 | 2026/02/17 | 2026/02/17 | Furneesh Kumar |
| Petroleum Hydro. CCME F1 & BTEX in Soil | HSGC/MSFD | A101221 | N/A | 2026/02/13 | Abdikarim Ali |
| Petroleum Hydrocarbons F2-F4 in Soil | GC/FID | A100871 | 2026/02/13 | 2026/02/13 | Agnieszka Brzuzy-Snopko |
| Acid Extractable Metals by ICPMS | ICP/MS | A101941 | 2026/02/17 | 2026/02/17 | Daniel Teclu |
| Moisture | BAL | A100687 | N/A | 2026/02/12 | Vaishnavi Suthar |
| PAH Compounds in Soil by GC/MS (SIM) | GC/MS | A101189 | 2026/02/13 | 2026/02/13 | Jonghan Yoon |
| pH CaCl2 EXTRACT | AT | A102128 | 2026/02/17 | 2026/02/17 | Surinder Rai |
| Sodium Adsorption Ratio (SAR) | CALC/MET | A099791 | N/A | 2026/02/18 | Automated Statchk |

**Bureau Veritas ID:** AZVM82
**Sample ID:** SA-3
**Matrix:** Soil

**Collected:** 2026/02/09
**Shipped:**
**Received:** 2026/02/11

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Methylnaphthalene Sum | CALC | A099810 | N/A | 2026/02/17 | Automated Statchk |
| Hot Water Extractable Boron | ICP | A101976 | 2026/02/17 | 2026/02/18 | Indira HarryPaul |



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Bureau Veritas Job #: C613846
Report Date: 2026/02/18

GEI Consultants
Client Project #: 2600649
Site Location: GEORGIAN YACHT CLUB
Sampler Initials: AB

## TEST SUMMARY

**Bureau Veritas ID:** AZVM82
**Sample ID:** SA-3
**Matrix:** Soil

**Collected:** 2026/02/09
**Shipped:**
**Received:** 2026/02/11

| Test Description | Instrumentation | Batch | Extracted | Date Analyzed | Analyst |
|---|---|---|---|---|---|
| Free (WAD) Cyanide | TECH | A101494 | 2026/02/13 | 2026/02/15 | Prgya Panchal |
| Conductivity | AT | A101991 | 2026/02/17 | 2026/02/17 | Surinder Rai |
| Hexavalent Chromium in Soil by IC | IC/SPEC | A101876 | 2026/02/17 | 2026/02/17 | Furneesh Kumar |
| Petroleum Hydro. CCME F1 & BTEX in Soil | HSGC/MSFD | A101221 | N/A | 2026/02/13 | Abdikarim Ali |
| Petroleum Hydrocarbons F2-F4 in Soil | GC/FID | A100871 | 2026/02/13 | 2026/02/13 | Agnieszka Brzuzy-Snopko |
| Acid Extractable Metals by ICPMS | ICP/MS | A101941 | 2026/02/17 | 2026/02/17 | Daniel Teclu |
| Moisture | BAL | A100687 | N/A | 2026/02/12 | Vaishnavi Suthar |
| PAH Compounds in Soil by GC/MS (SIM) | GC/MS | A101189 | 2026/02/13 | 2026/02/13 | Jonghan Yoon |
| pH CaCl2 EXTRACT | AT | A102128 | 2026/02/17 | 2026/02/17 | Surinder Rai |
| Sodium Adsorption Ratio (SAR) | CALC/MET | A099791 | N/A | 2026/02/18 | Automated Statchk |



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## GENERAL COMMENTS

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

| | |
|---|---|
| Package 1 | 8.0°C |

Sample AZVM80 [SA-1] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

Sample AZVM81 [SA-2] : F1/BTEX Analysis: Soil weight exceeds the protocol specification of approximately 5g in the field preserved vial. Additional methanol was added to the vial to ensure extraction efficiency.

**Results relate only to the items tested.**



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# QUALITY ASSURANCE REPORT



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| A100871 | o-Terphenyl | 2026/02/13 | 90 | 60 - 140 | 91 | 60 - 140 | 97 | % | | |
| A101189 | D10-Anthracene | 2026/02/13 | 98 | 50 - 130 | 102 | 50 - 130 | 107 | % | | |
| A101189 | D14-Terphenyl (FS) | 2026/02/13 | 91 | 50 - 130 | 88 | 50 - 130 | 94 | % | | |
| A101189 | D8-Acenaphthylene | 2026/02/13 | 97 | 50 - 130 | 101 | 50 - 130 | 103 | % | | |
| A101221 | 1,4-Difluorobenzene | 2026/02/13 | 104 | 60 - 140 | 103 | 60 - 140 | 108 | % | | |
| A101221 | 4-Bromofluorobenzene | 2026/02/13 | 98 | 60 - 140 | 101 | 60 - 140 | 92 | % | | |
| A101221 | D10-o-Xylene | 2026/02/13 | 102 | 60 - 140 | 96 | 60 - 140 | 97 | % | | |
| A101221 | D4-1,2-Dichloroethane | 2026/02/13 | 94 | 60 - 140 | 102 | 60 - 140 | 100 | % | | |
| A100687 | Moisture | 2026/02/12 | | | | | | | 2.5 | 20 |
| A100871 | F2 (C10-C16 Hydrocarbons) | 2026/02/13 | 86 | 60 - 140 | 87 | 80 - 120 | <7.0 | ug/g | NC | 30 |
| A100871 | F3 (C16-C34 Hydrocarbons) | 2026/02/13 | 90 | 60 - 140 | 91 | 80 - 120 | <50 | ug/g | NC | 30 |
| A100871 | F4 (C34-C50 Hydrocarbons) | 2026/02/13 | 87 | 60 - 140 | 88 | 80 - 120 | <50 | ug/g | NC | 30 |
| A101189 | 1-Methylnaphthalene | 2026/02/13 | 87 | 50 - 130 | 96 | 50 - 130 | <0.0050 | ug/g | NC | 40 |
| A101189 | 2-Methylnaphthalene | 2026/02/13 | 93 | 50 - 130 | 98 | 50 - 130 | <0.0050 | ug/g | NC | 40 |
| A101189 | Acenaphthene | 2026/02/13 | 86 | 50 - 130 | 90 | 50 - 130 | <0.0050 | ug/g | NC | 40 |
| A101189 | Acenaphthylene | 2026/02/13 | 98 | 50 - 130 | 102 | 50 - 130 | <0.0050 | ug/g | NC | 40 |
| A101189 | Anthracene | 2026/02/13 | 96 | 50 - 130 | 97 | 50 - 130 | <0.0050 | ug/g | NC | 40 |
| A101189 | Benzo(a)anthracene | 2026/02/13 | 90 | 50 - 130 | 95 | 50 - 130 | <0.0050 | ug/g | NC | 40 |
| A101189 | Benzo(a)pyrene | 2026/02/13 | 89 | 50 - 130 | 90 | 50 - 130 | <0.0050 | ug/g | NC | 40 |
| A101189 | Benzo(b/j)fluoranthene | 2026/02/13 | 87 | 50 - 130 | 92 | 50 - 130 | <0.0050 | ug/g | NC | 40 |
| A101189 | Benzo(g,h,i)perylene | 2026/02/13 | 99 | 50 - 130 | 98 | 50 - 130 | <0.0050 | ug/g | NC | 40 |
| A101189 | Benzo(k)fluoranthene | 2026/02/13 | 88 | 50 - 130 | 76 | 50 - 130 | <0.0050 | ug/g | NC | 40 |
| A101189 | Chrysene | 2026/02/13 | 96 | 50 - 130 | 102 | 50 - 130 | <0.0050 | ug/g | NC | 40 |
| A101189 | Dibenzo(a,h)anthracene | 2026/02/13 | 104 | 50 - 130 | 100 | 50 - 130 | <0.0050 | ug/g | NC | 40 |
| A101189 | Fluoranthene | 2026/02/13 | 87 | 50 - 130 | 93 | 50 - 130 | <0.0050 | ug/g | NC | 40 |
| A101189 | Fluorene | 2026/02/13 | 94 | 50 - 130 | 96 | 50 - 130 | <0.0050 | ug/g | NC | 40 |
| A101189 | Indeno(1,2,3-cd)pyrene | 2026/02/13 | 101 | 50 - 130 | 100 | 50 - 130 | <0.0050 | ug/g | NC | 40 |
| A101189 | Naphthalene | 2026/02/13 | 79 | 50 - 130 | 89 | 50 - 130 | <0.0050 | ug/g | NC | 40 |
| A101189 | Phenanthrene | 2026/02/13 | 99 | 50 - 130 | 104 | 50 - 130 | <0.0050 | ug/g | NC | 40 |
| A101189 | Pyrene | 2026/02/13 | 93 | 50 - 130 | 90 | 50 - 130 | <0.0050 | ug/g | NC | 40 |
| A101221 | Benzene | 2026/02/13 | 97 | 50 - 140 | 90 | 50 - 140 | <0.020 | ug/g | NC | 50 |
| A101221 | Ethylbenzene | 2026/02/13 | 109 | 50 - 140 | 94 | 50 - 140 | <0.020 | ug/g | NC | 50 |



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## QUALITY ASSURANCE REPORT(CONT'D)



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| A101221 | F1 (C6-C10) - BTEX | 2026/02/13 | | | | | <10 | ug/g | NC | 30 |
| A101221 | F1 (C6-C10) | 2026/02/13 | 116 | 60 - 140 | 98 | 80 - 120 | <10 | ug/g | NC | 30 |
| A101221 | o-Xylene | 2026/02/13 | 107 | 50 - 140 | 92 | 50 - 140 | <0.020 | ug/g | NC | 50 |
| A101221 | p+m-Xylene | 2026/02/13 | 103 | 50 - 140 | 88 | 50 - 140 | <0.040 | ug/g | NC | 50 |
| A101221 | Toluene | 2026/02/13 | 94 | 50 - 140 | 84 | 50 - 140 | <0.020 | ug/g | NC | 50 |
| A101221 | Total Xylenes | 2026/02/13 | | | | | <0.040 | ug/g | NC | 50 |
| A101494 | WAD Cyanide (Free) | 2026/02/15 | 71 (1) | 75 - 125 | 101 | 80 - 120 | <0.01 | ug/g | NC | 35 |
| A101876 | Chromium (VI) | 2026/02/17 | 88 | 70 - 130 | 92 | 80 - 120 | <0.18 | ug/g | NC | 35 |
| A101941 | Acid Extractable Antimony (Sb) | 2026/02/17 | 101 | 75 - 125 | 100 | 80 - 120 | <0.20 | ug/g | NC | 30 |
| A101941 | Acid Extractable Arsenic (As) | 2026/02/17 | 96 | 75 - 125 | 95 | 80 - 120 | <1.0 | ug/g | 12 | 30 |
| A101941 | Acid Extractable Barium (Ba) | 2026/02/17 | NC | 75 - 125 | 96 | 80 - 120 | <0.50 | ug/g | 5.9 | 30 |
| A101941 | Acid Extractable Beryllium (Be) | 2026/02/17 | 98 | 75 - 125 | 93 | 80 - 120 | <0.20 | ug/g | 7.4 | 30 |
| A101941 | Acid Extractable Boron (B) | 2026/02/17 | 95 | 75 - 125 | 94 | 80 - 120 | <5.0 | ug/g | NC | 30 |
| A101941 | Acid Extractable Cadmium (Cd) | 2026/02/17 | 99 | 75 - 125 | 94 | 80 - 120 | <0.10 | ug/g | 5.5 | 30 |
| A101941 | Acid Extractable Chromium (Cr) | 2026/02/17 | 96 | 75 - 125 | 93 | 80 - 120 | <1.0 | ug/g | 2.3 | 30 |
| A101941 | Acid Extractable Cobalt (Co) | 2026/02/17 | 93 | 75 - 125 | 91 | 80 - 120 | <0.10 | ug/g | 1.6 | 30 |
| A101941 | Acid Extractable Copper (Cu) | 2026/02/17 | 93 | 75 - 125 | 92 | 80 - 120 | <0.50 | ug/g | 5.5 | 30 |
| A101941 | Acid Extractable Lead (Pb) | 2026/02/17 | 98 | 75 - 125 | 94 | 80 - 120 | <1.0 | ug/g | 5.0 | 30 |
| A101941 | Acid Extractable Mercury (Hg) | 2026/02/17 | 97 | 75 - 125 | 94 | 80 - 120 | <0.050 | ug/g | 28 | 30 |
| A101941 | Acid Extractable Molybdenum (Mo) | 2026/02/17 | 99 | 75 - 125 | 92 | 80 - 120 | <0.50 | ug/g | NC | 30 |
| A101941 | Acid Extractable Nickel (Ni) | 2026/02/17 | 90 | 75 - 125 | 92 | 80 - 120 | <0.50 | ug/g | 5.6 | 30 |
| A101941 | Acid Extractable Selenium (Se) | 2026/02/17 | 98 | 75 - 125 | 95 | 80 - 120 | <0.50 | ug/g | NC | 30 |
| A101941 | Acid Extractable Silver (Ag) | 2026/02/17 | 101 | 75 - 125 | 96 | 80 - 120 | <0.20 | ug/g | NC | 30 |
| A101941 | Acid Extractable Thallium (Tl) | 2026/02/17 | 98 | 75 - 125 | 94 | 80 - 120 | <0.050 | ug/g | 1.1 | 30 |
| A101941 | Acid Extractable Uranium (U) | 2026/02/17 | 103 | 75 - 125 | 97 | 80 - 120 | <0.050 | ug/g | 7.0 | 30 |
| A101941 | Acid Extractable Vanadium (V) | 2026/02/17 | 95 | 75 - 125 | 93 | 80 - 120 | <5.0 | ug/g | 1.2 | 30 |
| A101941 | Acid Extractable Zinc (Zn) | 2026/02/17 | NC | 75 - 125 | 94 | 80 - 120 | <5.0 | ug/g | 3.5 | 30 |
| A101976 | Hot Water Ext. Boron (B) | 2026/02/18 | 84 | 75 - 125 | 99 | 75 - 125 | <0.050 | ug/g | 2.3 | 40 |
| A101991 | Conductivity | 2026/02/17 | | | 106 | 90 - 110 | <0.002 | mS/cm | 2.0 | 10 |



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## QUALITY ASSURANCE REPORT(CONT'D)



| | | | Matrix Spike | | SPIKED BLANK | | Method Blank | | RPD | |
|---|---|---|---|---|---|---|---|---|---|---|
| QC Batch | Parameter | Date | % Recovery | QC Limits | % Recovery | QC Limits | Value | UNITS | Value (%) | QC Limits |
| A102128 | Available (CaCl2) pH | 2026/02/17 | | | 100 | 97 - 103 | | | 0.16 | N/A |

N/A = Not Applicable

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

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

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

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

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

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

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

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



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Bureau Veritas Job #: C613846
Report Date: 2026/02/18

GEI Consultants
Client Project #: 2600649
Site Location: GEORGIAN YACHT CLUB
Sampler Initials: AB

## VALIDATION SIGNATURE PAGE

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

Louise Harding, Scientific Specialist

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



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