

October 6, 2020

Reference No. G2S20445B

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**Soil Investigation
125 Arthur Street West, 123 Louisa Street West and Surrounding Vacant Land
Thornbury, Ontario**

1. Introduction and Site Description

G2S Consulting Inc. (G2S) was retained by Mr. Daniel Pasta to complete a soil investigation for 125 Arthur Street West, 123 Louisa Street West and Surrounding Vacant Land, in Thornbury, Ontario, hereinafter referred to as the 'Site'.

For the purpose of this report Arthur Street West is said to run west to east, as illustrated on Drawing 2 in Attachment 1. The Site is divided into three separate blocks, as shown on Drawing 2. Block One is located in the western portion of the Site and is used for agricultural purposes. Block Two is located in the northeast portion of the Site and consists of 125 Arthur Street West, a two-story residential building with a basement and a detached single car garage. Block Three is located in the southeast portion of the Site and consists of 123 Louisa Street located in the eastern portion of the Site and consists of a one-story residential building with a basement and a detached single car garage. The Site is located in an area consisting of primarily residential and agricultural land use. The irregular shaped Site is located along Arthur Street West which runs along the northern property boundary, Lansdowne Street South which runs along the eastern property boundary and Alice Street West which runs along the south property line of the Site. Little Beaver Creek runs centrally through the Site and is lined with a forested area. Entrance to the Site is accessed via Arthur Street West, Louisa Street West and Alice Street West. The Site is approximately 12.14 hectares (30 acres) in size. The Site location is illustrated on Drawing 1 in Attachment 1.

The proposed future land use of each block of land is as follow:

- Block One – Commercial land use
- Block Two – Mixed commercial and residential land use
- Block Three – Residential land use

G2S completed a Phase One Environmental Site Assessment (ESA) for the Site, dated July 10, 2020. The Phase One ESA identified one Area of Potential Environmental Concern (APEC) on the property, as shown on Drawing 3. The potential environmental risks to the property include:

1. The historic presence of an orchard on-Site.

In order to assess the environmental conditions of the property, a Soil Investigation was recommended. The objective of the investigation is to determine if there is environmental impact related to the presence of the historic orchard on-Site and to delineate the soil impacts if exceedances are found.

2. Scope of Work

The scope of work for the soil investigation included the following:

- The advancement of fifteen test pits in the area of the historic orchard to a maximum depth of 0.3 m below ground surface using a hand shovel. The advancement of ten additional test pits to a maximum depth of 2.29 m below ground surface (m bgs) using a handheld pionjar to laterally and vertically delineate the identified soil impacts.
- The location of underground utilities by both public and private utility locators;
- Submission of representative soil samples to a CALA accredited laboratory for analysis. The analytical suite will include metals and pesticides and;
- Preparation of a report detailing the environmental conditions of the soil at the property with Site plans and investigation results.

3. Site Standards Selection

The assessment criteria applicable to a given site in Ontario are provided in the Ministry of Environment, Conservation, and Parks (MECP) document entitled "Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act", dated April 15, 2011.

Standards are provided in Tables 1 to 9 in the document. These standards are based on site sensitivity, groundwater use, property use, soil type and restoration depth.

For this investigation, G2S has selected the applicable criteria based on the zoning for each block. Table 2 Site Condition Standards (SCS) for Residential Property Use and fine textured soils is selected for Blocks Two and Three and Table 2 Site Condition Standards (SCS) for industrial, commercial and community Property Use and fine textured soils is selected for Block One. The selection of this category is based on the following factors:

- There is no intention to carry out stratified restoration at the Site.

- Based on field observations and grain size analysis, the predominant soil type of the Site is fine grained. Grain size analysis results are included in the laboratory Certificate of Analysis in Attachment 3.
- The property use of the Site is agricultural, with plans to change the land use to residential/commercial.
- The Site is not considered a sensitive site based on:
 - The property is not within an area of natural significance or includes or is adjacent to such an area or part of such an area.
 - The property is within 30 m of a waterbody, however it is our understanding the proposed development will be set back 30 m from the waterbody.
 - The MECP Table 1 SCS are applicable if pH values for surface soil (<1.5 m) are less than 5 or greater than 9 and pH values for subsurface soil (>1.5 m) are less than 5 or greater than 11. Surface soil sample BH3 SS2 and BH10 SS2 had pH values of 7.24 and 7.31, respectively. Therefore, based on the pH values, the Table 1 SCS are not applicable for the Site. Soil samples were not collected deeper than 0.3 m bgs; therefore, subsurface soil samples were not submitted for analysis of pH. Laboratory Certificates of Analysis are included in Attachment 3.
- The potable groundwater condition applies to the Site based on:
 - A potable well is located approximately 40 m south of the Site, the well is listed on the MECP well records website.
 - The Site is vacant and not serviced with water.

4. Investigation Method

4.1 Soil Sampling Program

The fieldwork for this investigation was conducted on July 24, 2020. Fifteen test pits were advanced on the Site using a steel handheld shovel. Test pits TP1 – TP3 were advanced throughout Block Two located on the northeast portion of the Site, test pits TP5 – TP7 were advanced throughout Block Three located on the southeast portion of the Site and test pits TP8 – TP15 were advanced throughout Block One located on the western portion of the Site, all in the vicinity of the historic orchard. Samples were collected from surface to a depth of 0.15 m below ground surface (bgs) labelled as SS1, and from a depth of 0.15 to 0.3 m bgs labelled as SS2 in all test pits.

G2S returned to the Site to conduct further investigations of the exceedances found in the test pits completed on July 24, 2020. On September 14, 2020 ten boreholes (BH101 to BH110) were advanced on the Site by Sonic Soil Sampling Inc. (Sonic), under the supervision of G2S staff. A handheld pionjar was used to advance and collect the soil samples from the boreholes. Petroleum-based greases and/or solvents were not used during drilling activities. The boreholes were sampled to a maximum depth of approximately 2.29 m below ground surface (bgs).

The test pit/borehole locations are shown on the Test Pit/Borehole Location Plan, Drawing 4, in Attachment 1.

4.2 Analytical Testing

Soil samples were collected into new, laboratory-supplied sample jars with appropriate preservatives as required. A clean, ice-packed cooler was used to store and transport the soil samples to ALS Environmental in Richmond Hill, Ontario, under Chain of Custody (COC) protocols.

4.3 Quality Assurance/Quality Control Measures

Disposable nitrile gloves (one per sample) were used during sample collection. New laboratory-supplied glass jars with Teflon-lined lids were filled with a portion of each soil sample. The jars were then sealed and placed in a cooler with ice packs for storage and transportation. The remaining soil sample was placed in a sealable plastic bag.

5. Review and Evaluation

5.1 Geology

A description of the soil stratigraphy encountered on the Site, in order of depth, is summarized in the sections below.

Topsoil

Boreholes BH101, BH106, and BH110 and test pits TP1 – TP15 were advanced through approximately 0.15 m bgs of brown moist topsoil with some organic matter.

Boreholes BH102, BH103, BH104, BH105, BH107, BH108, and BH109 were advanced through approximately 0.3 m bgs of brown moist topsoil with some organic matter.

Sand

Sand was encountered directly underneath the topsoil in boreholes BH103, and BH105 and test pits TP1 – TP15 advanced on Site. The sand layer contained varying amounts of gravel. The sand was typically dark brown to brown. The sand was moist and loose to soft and found from approximately 0.3 to 0.61 m bgs.

Silty Sand

Silty sand was encountered in all of the boreholes advanced on Site. The silty sand was encountered underneath the native sand layer in BH103 and BH105 and underneath the topsoil layer in all other boreholes advanced on Site. The silty sand layer was typically brown with increasing grey colour with depth, and moist increasing to wet with depth. The silty sand layer contained trace amounts of clay and was firm increasing to hard with depth. The silty sand layer was found from approximately 0.15 m bgs to borehole completion depths in all boreholes up to approximately 2.29 m bgs.

5.2 Soil Field Screening

For the initial investigation on July 24, 2020, the selection of soil samples for laboratory analysis was based on the location of the potential source of impact. Deeper soil samples (SS2) were submitted from select test pits where surficial soil impacts were identified.

Soil samples from the investigation completed on September 14, 2020 were selected for analysis base on exceedances found in Block One and Block Two of the Site to laterally and vertically delineate the extent of the soil impacts.

5.3 Soil Quality

5.3.1 *Metals*

The laboratory Certificates of Analysis for the soil samples submitted for analysis are included in Attachment 3. The results of the metal analysis are included in Table 1 of Attachment 2. A summary of the results is as follows:

- Block One: Soil concentration of arsenic was detected above the MECP Table 2 SCS for commercial property use in samples TP10 SS1, TP11 SS1, TP14 SS1, TP14 SS2 and BH109 SS2. All other metal parameters were either not detected or detected below the MECP Table 2 SCS in the soil samples submitted for analysis.
- Block Two: Soil concentration were either not detected or detected below the MECP Table 2 SCS for residential and commercial property use in all samples analyzed.
- Block Three: Soil concentration for metals were either not detected or detected below the MECP Table 2 SCS for residential property use in all samples analyzed.

5.3.2 *Pesticides*

The laboratory Certificates of Analysis for the soil samples submitted for analysis are included in Attachment 3. The results of the pesticides analysis are included in Table 2 of Attachment 2. A summary of the results is as follows:

- Block One: Soil concentration of DDE was detected above the MECP Table 2 SCS for commercial property use in samples TP8 SS1, TP8 SS2, TP10 SS1, TP10 SS2, TP12 SS1, TP14 SS1, TP14 SS2, BH108 SS1 and BH109 SS1. All other pesticide parameters were either not detected or detected below the MECP Table 2 SCS in the soil samples submitted for analysis.
- Block Two: Soil concentration of DDE was detected above the MECP Table 2 SCS for residential and commercial property use in samples TP2 SS1 and TP2 SS2. All other pesticide parameters were either not detected or detected below the MECP Table 2 SCS in the soil samples submitted for analysis.
- Block Three: Soil concentration for pesticides were either not detected or detected below the MECP Table 2 SCS for residential property use in all samples analyzed.

5.4 Quality Assurance and Quality Control Results

ALS Environmental is accredited by the Standards Council of Canada/Canadian Association of Environmental Analytical Laboratories (Membership No. A3149) in accordance with ISO/IEC 17025:1999 – “General Requirements for the Competence of Testing and Calibration Laboratories” for the analysis of all parameters for all samples in the scope of work for which SCS have been established under O. Reg. 153/04. The “Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act” (“the Analytical Protocol”), MECP, March 2004, establishes the criteria used in assessing the performance of analytical laboratories when the data is used in support of the filing of Records of Site Condition.

6. Findings

The Soil Investigation included the advancement of fifteen test pits and ten boreholes on the property. The results of the investigation lead to the following findings:

1. Native material beneath the Site generally consists of fine-grained silty sand.
2. The concentrations of metals were below the MECP Table 2 SCS in the analyzed soil samples, with the exception of the exceedance of the parameters Arsenic in Block One.
3. The concentrations of pesticides were below the MECP Table 2 SCS in the analyzed soil samples, with the exception of the exceedance of the parameter DDE in Block One and Two.

Based on the results of the Shallow Soil Investigation, the property does not meet the MECP Table 2 SCS for Residential/Parkland/Institutional and Industrial/Commercial/Community Property Use in Potable Groundwater Conditions with medium or fine textured soil. Further work, such as remediation will be required to address the soil impacts. A remedial cost estimate to address the identified soil impacts will be provided under a separate document.

Should a Record of Site Condition (RSC) be required for the property in the future, additional work may be required to satisfy the requirements of O.Reg. 153/04.

7. Limitations

This report has been prepared for the sole benefit of Mr. Daniel Pasta and is intended to provide limited information on the subsurface environmental conditions at 125 Arthur Street West, 123 Louisa Street West and Surrounding Vacant Lands, in Thornbury, Ontario. The report may not be used by any other person or entity without the expressed written consent of Mr. Daniel Pasta, and G2S Consulting Inc. (G2S). Any use which a third party makes of this report, or any reliance on decisions made based on it, is the responsibility of such third parties. G2S accepts no responsibility for damages, if any suffered by any third party as a result of decisions made or actions based on this report.

The findings in this report are limited to the conditions at the Site at the time of this investigation (July/September 2020) as described herein. Conclusions presented in this report should not be construed as legal advice.

If Site conditions or applicable standards change or if any additional information becomes available at a future date, changes to the findings, conclusions and recommendations in this report may be necessary.

8. Closing Remarks

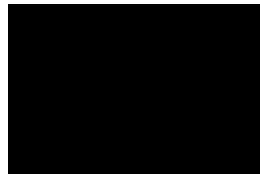
We trust this report is satisfactory for your purposes. Should you have any questions, please do not hesitate to contact this office.

Yours truly,

G2S Environmental Consulting Inc.



Rachael Lesmeister, B.A.
Environmental Technician



Jacky So, P.Eng.
Senior Engineer

Attachment 1: Drawings

Attachment 2: Analytical Results Tables

Attachment 3: Certificate of Analysis

Attachment 1:
Drawings



Scale: N.T.S.
Project No.: G2S20445B
Date: OCTOBER 2020
Drawn by: RL/JS
File name: 125ARTHUR.dwg

125 ARTHUR STREET W, 123 LOUISA STREET WEST
AND SURROUNDING VACANT LAND
SITE LOCATION PLAN

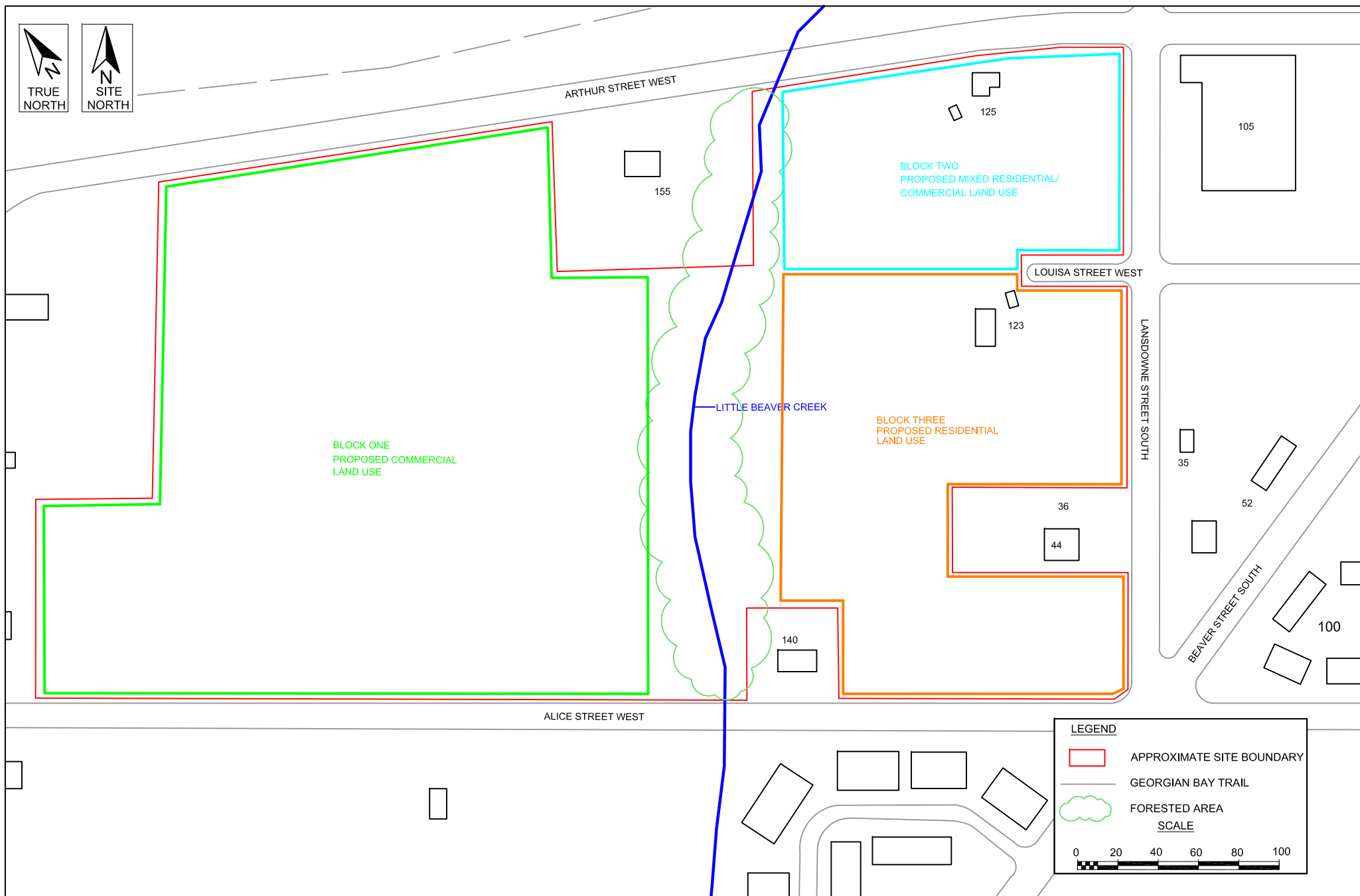
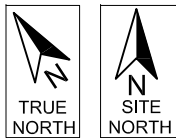
THORNBURY

ONTARIO



Drawing No.

1



Scale: AS SHOWN
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Date: OCTOBER 2020
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125 ARTHUR STREET W, 123 LOUISA STREET WEST
AND SURROUNDING VACANT LAND
BLOCK LOCATION PLAN

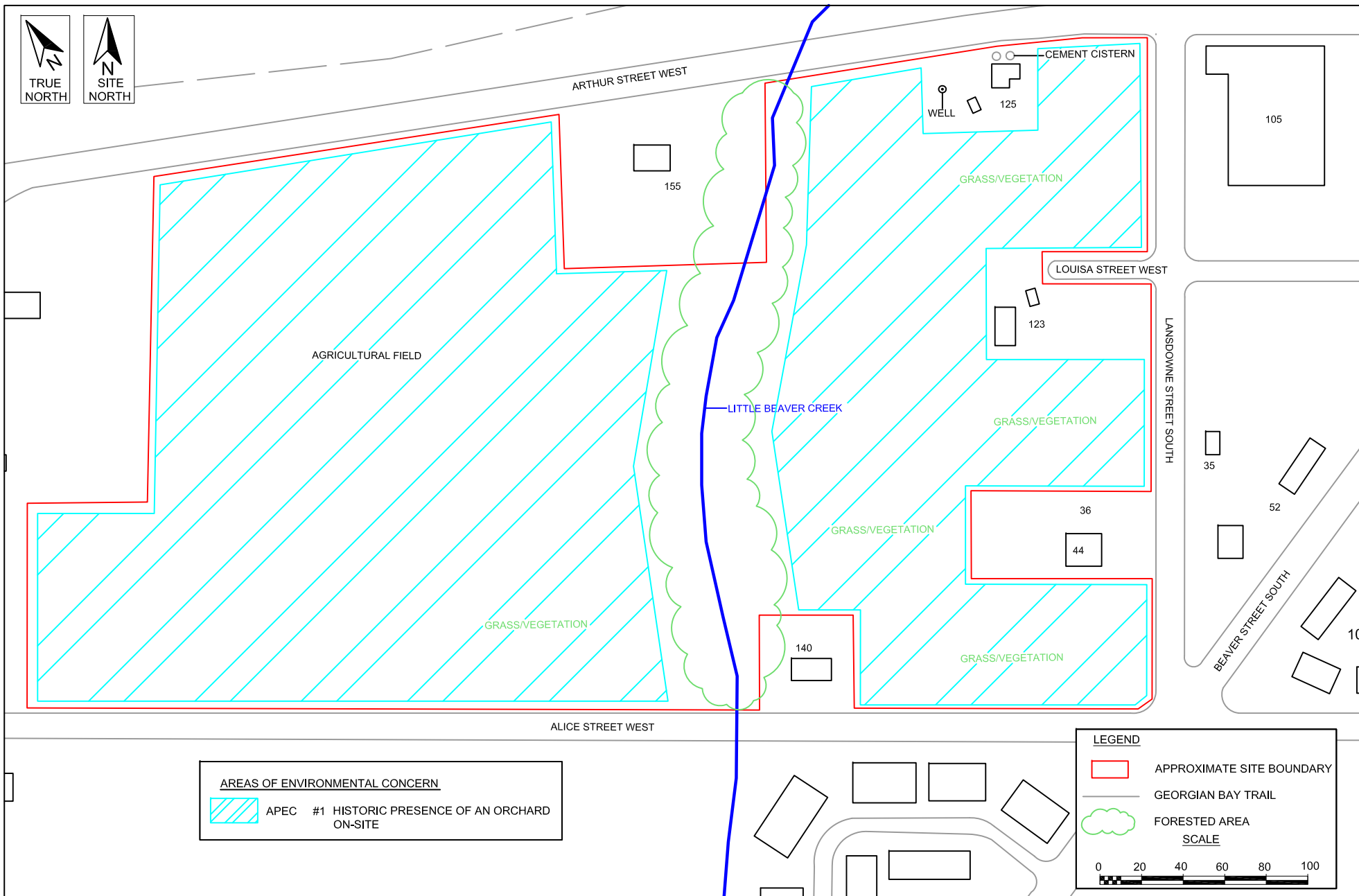
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Drawing No.

2



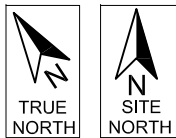
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125 ARTHUR STREET W, 123 LOUISA STREET WEST
AND SURROUNDING VACANT LAND
AREAS OF POTENTIAL ENVIRONMENTAL CONCERN



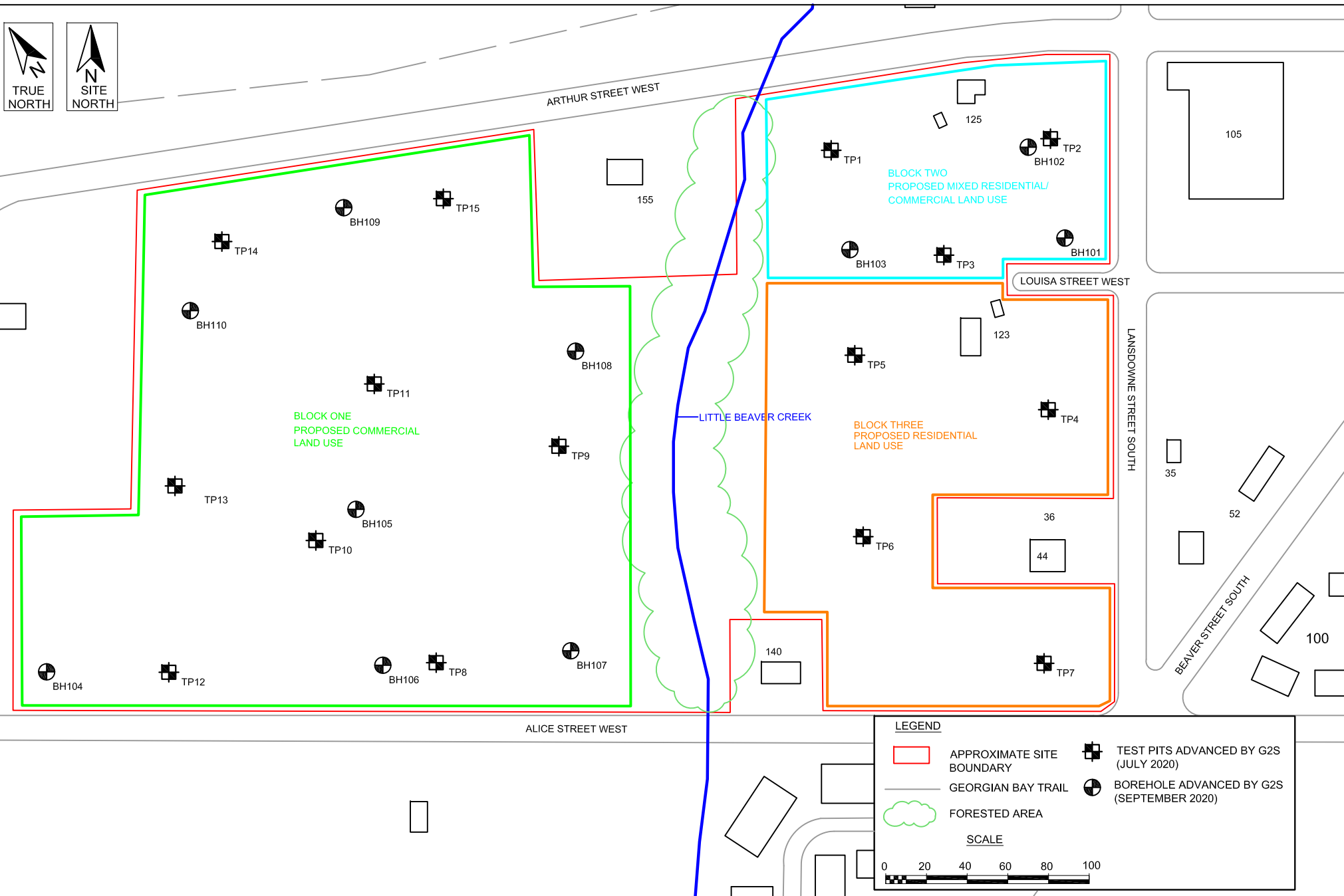
Drawing No.

3



TRUE
NORTH

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SITE
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Date: OCTOBER 2020
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125 ARTHUR STREET W, 123 LOUISA STREET WEST
AND SURROUNDING VACANT LAND
TEST PIT/BOREHOLE LOCATION PLAN
THORN BURY ONTARIO



Drawing No.

4

**Attachment 2:
Analytical Results Tables**

**Table 1: Soil Quality Results
Metals**

Parameter	Unit	Table 2 SCS Residential/ Parkland/Intititutional Property Use	Table 2 SCS Industrial/Commercial/ Community Property Use	Sample Identification							
				Block One							
				TP8-SS1	TP9-SS1	TP10-SS1	TP10-SS2	TP11-SS1	TP11-SS2	TP12-SS1	TP13-SS1
Date Sampled				24-Jul-20	24-Jul-20	24-Jul-20	24-Jul-20	24-Jul-20	24-Jul-20	24-Jul-20	24-Jul-20
Depth	m bgs			0.15	0.15	0.15	0.3	0.15	0.3	0.15	0.15
Antimony (Sb)	ug/g	7.5	50	<1.0	<1.0	<1.0	NA	<1.0	NA	<1.0	<1.0
Arsenic (As)	ug/g	18	18	10.1	8.1	24.0	16.8	23.3	6.9	10.7	13.3
Barium (Ba)	ug/g	390	670	31.4	42.8	30.6	NA	18.6	NA	18.9	55.6
Beryllium (Be)	ug/g	5	10	<0.50	0.57	<0.50	NA	<0.50	NA	<0.50	0.67
Boron (B)	ug/g	120	120	6.2	14.5	7.3	NA	<5.0	NA	<5.0	11.2
Cadmium (Cd)	ug/g	1.2	1.9	<0.50	<0.50	<0.50	NA	<0.50	NA	<0.50	<0.50
Chromium (Cr)	ug/g	160	160	13.3	17.2	16.2	NA	12.2	NA	10.8	20.6
Cobalt (Co)	ug/g	22	100	5.8	7.0	5.4	NA	3.1	NA	2.9	7.3
Copper (Cu)	ug/g	180	300	11.4	18.1	14.1	NA	11.9	NA	8.5	16.0
Lead (Pb)	ug/g	120	120	25.0	19.1	61.3	NA	64.1	NA	28.3	34.6
Molybdenum (Mo)	ug/g	6.9	40	<1.0	<1.0	<1.0	NA	<1.0	NA	<1.0	<1.0
Nickel (Ni)	ug/g	130	340	11.6	15.5	11.7	NA	7.1	NA	6.4	15.5
Selenium (Se)	ug/g	2.4	5.5	<1.0	<1.0	<1.0	NA	<1.0	NA	<1.0	<1.0
Silver (Ag)	ug/g	25	50	<0.20	<0.20	<0.20	NA	<0.20	NA	<0.20	<0.20
Thallium (Tl)	ug/g	1	3.3	<0.50	<0.50	<0.50	NA	<0.50	NA	<0.50	<0.50
Uranium (U)	ug/g	23	33	<1.0	<1.0	<1.0	NA	<1.0	NA	<1.0	<1.0
Vanadium (V)	ug/g	86	86	19.2	25.4	26.4	NA	19.5	NA	17.7	29.3
Zinc (Zn)	ug/g	340	340	49.1	50.1	56.7	NA	40.5	NA	29.7	61.2

MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, dated April 2011.

NA- Not analyzed

Shaded and bolded value exceeds MECP Table 2 SCS Residential/Parkland/Intititutional for fine grain soil

Shaded value exceeds MECP Table 2 SCS Industrial/Commercial/Community for fine grain soil

**Table 1: Soil Quality Results
Metals**

Parameter	Unit	Table 2 SCS Residential/ Parkland/Intititutional Property Use	Table 2 SCS Industrial/Commercial/ Community Property Use	Sample Identification							
				Block One							
				TP14-SS1	TP14-SS2	TP15-SS1	BH104 SS1	BH104 SS2	BH105 SS2	BH105 SS3	BH106 SS2
Date Sampled				24-Jul-20	24-Jul-20	24-Jul-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20
Depth	m bgs			0.15	0.3	0.15	0 - 0.3	0 - 0.76	0.3 - 0.61	0.76 - 1.52	0.15 - 0.76
Antimony (Sb)	ug/g	7.5	50	<1.0	NA	<1.0	NA	NA	NA	NA	NA
Arsenic (As)	ug/g	18	18	40.4	28.8	17	6.24	6.25	6.80	4.80	3.36
Barium (Ba)	ug/g	390	670	40.5	NA	19.8	NA	NA	NA	NA	NA
Beryllium (Be)	ug/g	5	10	<0.50	NA	<0.50	NA	NA	NA	NA	NA
Boron (B)	ug/g	120	120	8.1	NA	<5.0	NA	NA	NA	NA	NA
Cadmium (Cd)	ug/g	1.2	1.9	<0.50	NA	<0.50	NA	NA	NA	NA	NA
Chromium (Cr)	ug/g	160	160	16.9	NA	13.4	NA	NA	NA	NA	NA
Cobalt (Co)	ug/g	22	100	6.2	NA	3.3	NA	NA	NA	NA	NA
Copper (Cu)	ug/g	180	300	24.3	NA	11.4	NA	NA	NA	NA	NA
Lead (Pb)	ug/g	120	120	117	NA	44.8	NA	NA	NA	NA	NA
Molybdenum (Mo)	ug/g	6.9	40	<1.0	NA	<1.0	NA	NA	NA	NA	NA
Nickel (Ni)	ug/g	130	340	13.5	NA	7.5	NA	NA	NA	NA	NA
Selenium (Se)	ug/g	2.4	5.5	<1.0	NA	<1.0	NA	NA	NA	NA	NA
Silver (Ag)	ug/g	25	50	<0.20	NA	<0.20	NA	NA	NA	NA	NA
Thallium (Tl)	ug/g	1	3.3	<0.50	NA	<0.50	NA	NA	NA	NA	NA
Uranium (U)	ug/g	23	33	<1.0	NA	<1.0	NA	NA	NA	NA	NA
Vanadium (V)	ug/g	86	86	27.2	NA	22.1	NA	NA	NA	NA	NA
Zinc (Zn)	ug/g	340	340	52.2	NA	25.6	NA	NA	NA	NA	NA

MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, dated April 2011.

NA- Not analyzed

Shaded and bolded value exceeds MECP Table 2 SCS Residential/Parkland/Intititutional for fine grain soil

Shaded value exceeds MECP Table 2 SCS Industrial/Commercial/Community for fine grain soil

**Table 1: Soil Quality Results
Metals**

Parameter	Unit	Table 2 SCS Residential/ Parkland/Intititutional Property Use	Table 2 SCS Industrial/Commercial/ Community Property Use	Sample Identification								
				Block One								
				BH106 SS3	BH107 SS1	BH107 SS2	BH108 SS1	BH108 SS2	BH109 SS1	BH109 SS2	BH110 SS1	BH110 SS2
Date Sampled				14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20
Depth	m bgs			0.76 - 1.52	0 - 0.3	0.3 - 0.61	0 - 0.3	0.3 - 0.51	0 - 0.3	0.3 - 0.61	0 - 0.15	0.15 - 0.36
Antimony (Sb)	ug/g	7.5	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (As)	ug/g	18	18	3.26	4.10	3.35	8.13	4.50	15.0	29.5	5.24	4.69
Barium (Ba)	ug/g	390	670	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Be)	ug/g	5	10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Boron (B)	ug/g	120	120	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Cd)	ug/g	1.2	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium (Cr)	ug/g	160	160	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Co)	ug/g	22	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Cu)	ug/g	180	300	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Pb)	ug/g	120	120	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum (Mo)	ug/g	6.9	40	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Ni)	ug/g	130	340	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Se)	ug/g	2.4	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Ag)	ug/g	25	50	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Tl)	ug/g	1	3.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Uranium (U)	ug/g	23	33	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (V)	ug/g	86	86	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Zn)	ug/g	340	340	NA	NA	NA	NA	NA	NA	NA	NA	NA

MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, dated April 2011.

NA- Not analyzed

Shaded and bolded value exceeds MECP Table 2 SCS Residential/Parkland/Intititutional for fine grain soil

Shaded value exceeds MECP Table 2 SCS Industrial/Commercial/Community for fine grain soil

**Table 1: Soil Quality Results
Metals**

Parameter	Unit	Table 2 SCS Residential/ Parkland/Intitutional Property Use	Table 2 SCS Industrial/Commercial/ Community Property Use	Sample Identification							
				Block Two							
				TP1-SS1	TP2-SS1	TP3-SS1	BH101 SS1	BH101 SS2	BH102 SS3	BH103 SS1	BH103 SS2
Date Sampled				24-Jul-20	24-Jul-20	24-Jul-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20
Depth	m bgs			0.15	0.15	0.15	0 - 0.15	0.15 - 0.46	0.91 - 1.52	0 - 0.3	0.3 - 0.61
Antimony (Sb)	ug/g	7.5	50	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA
Arsenic (As)	ug/g	18	18	11.9	10.5	6.8	6.21	4.21	4.84	8.89	2.84
Barium (Ba)	ug/g	390	670	18.1	32.6	51.1	NA	NA	NA	NA	NA
Beryllium (Be)	ug/g	5	10	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA
Boron (B)	ug/g	120	120	<5.0	9.8	10.0	NA	NA	NA	NA	NA
Cadmium (Cd)	ug/g	1.2	1.9	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA
Chromium (Cr)	ug/g	160	160	10.2	16.9	14.5	NA	NA	NA	NA	NA
Cobalt (Co)	ug/g	22	100	2.5	7.0	4.6	NA	NA	NA	NA	NA
Copper (Cu)	ug/g	180	300	10.0	18.2	18.6	NA	NA	NA	NA	NA
Lead (Pb)	ug/g	120	120	31.5	25.7	29.2	NA	NA	NA	NA	NA
Molybdenum (Mo)	ug/g	6.9	40	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA
Nickel (Ni)	ug/g	130	340	6.1	15.6	9.7	NA	NA	NA	NA	NA
Selenium (Se)	ug/g	2.4	5.5	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA
Silver (Ag)	ug/g	25	50	<0.20	<0.20	<0.20	NA	NA	NA	NA	NA
Thallium (Tl)	ug/g	1	3.3	<0.50	<0.50	<0.50	NA	NA	NA	NA	NA
Uranium (U)	ug/g	23	33	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA
Vanadium (V)	ug/g	86	86	16.9	25.1	24.5	NA	NA	NA	NA	NA
Zinc (Zn)	ug/g	340	340	38.9	52.2	61.9	NA	NA	NA	NA	NA

MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, dated April 2011.

NA- Not analyzed

Shaded and bolded value exceeds MECP Table 2 SCS Residential/Parkland/Intitutional for fine grain soil

Shaded value exceeds MECP Table 2 SCS Industrial/Commercial/Community for fine grain soil

**Table 1: Soil Quality Results
Metals**

Parameter	Unit	Table 2 SCS Residential/ Parkland/Institutional Property Use	Table 2 SCS Industrial/Commercial/ Community Property Use	Sample Identification			
				Block Three			
				TP4-SS1	TP5-SS1	TP6-SS1	TP7-SS1
Date Sampled				24-Jul-20	24-Jul-20	24-Jul-20	24-Jul-20
Depth	m bgs			0.15	0.15	0.15	0.15
Antimony (Sb)	ug/g	7.5	50	<1.0	<1.0	<1.0	<1.0
Arsenic (As)	ug/g	18	18	9.5	6.2	9.9	14.9
Barium (Ba)	ug/g	390	670	75.1	31.8	23.7	25.7
Beryllium (Be)	ug/g	5	10	<0.50	<0.50	<0.50	<0.50
Boron (B)	ug/g	120	120	7.4	<5.0	5.1	5.7
Cadmium (Cd)	ug/g	1.2	1.9	<0.50	<0.50	<0.50	<0.50
Chromium (Cr)	ug/g	160	160	14.3	13.0	13.3	13.7
Cobalt (Co)	ug/g	22	100	3.7	3.7	3.5	3.8
Copper (Cu)	ug/g	180	300	18.6	10.5	14.1	18.5
Lead (Pb)	ug/g	120	120	79.1	9.9	25.7	50.0
Molybdenum (Mo)	ug/g	6.9	40	<1.0	<1.0	<1.0	<1.0
Nickel (Ni)	ug/g	130	340	8.4	7.5	7.8	8.6
Selenium (Se)	ug/g	2.4	5.5	<1.0	<1.0	<1.0	<1.0
Silver (Ag)	ug/g	25	50	<0.20	<0.20	<0.20	<0.20
Thallium (Tl)	ug/g	1	3.3	<0.50	<0.50	<0.50	<0.50
Uranium (U)	ug/g	23	33	<1.0	<1.0	<1.0	<1.0
Vanadium (V)	ug/g	86	86	22.0	21.6	21.8	21.6
Zinc (Zn)	ug/g	340	340	76.2	23.9	42.7	46.5

MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, dated April 2011.

NA- Not analyzed

Shaded and bolded value exceeds MECP Table 2 SCS Residential/Parkland/Institutional for fine grain soil

Shaded value exceeds MECP Table 2 SCS Industrial/Commercial/Community for fine grain soil

**Table 2: Soil Quality Results
Pesticides**

Parameter	Unit	Table 2 SCS Residential/ Parkland/Institutional Property Use	Table 2 SCS Industrial/Commercial/ Community Property Use	Sample Identification						
				Block One						
				TP8-SS1	TP8-SS2	TP9-SS1	TP9-SS2	TP10-SS1	TP10-SS2	TP12-SS1
Date Sampled				24-Jul-20	24-Jul-20	24-Jul-20	24-Jul-20	24-Jul-20	24-Jul-20	24-Jul-20
Depth	m bgs			0.15	0.3	0.15	0.3	0.15	0.3	0.15
Aldrin	ug/g	0.05	0.11	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chlordane	ug/g	0.05	0.05	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
DDD	ug/g	3.3	4.6	0.08	0.055	<0.028	<0.028	0.066	0.05	0.035
DDE	ug/g	0.33	0.65	1.56	1.33	0.265	0.279	1.74	1.67	1.15
DDT	ug/g	1.4	1.4	0.497	0.369	0.038	0.041	0.156	0.132	0.072
Dieldrin	ug/g	0.05	0.11	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Endosulfan	ug/g	0.04	0.38	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Endrin	ug/g	0.04	0.04	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Heptachlor	ug/g	0.15	0.19	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Heptachlor Epoxide	ug/g	0.05	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Hexachlorobenzene	ug/g	0.52	0.66	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachlorobutadiene	ug/g	0.014	0.095	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachlorocyclohexane, gamma-	ug/g	0.063	0.063	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachloroethane	ug/g	0.071	0.43	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Methoxychlor	ug/g	0.13	1.6	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020

MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, dated April 2011.

Shaded and Bolded value exceeds MECP Table 2 SCS Residential/Parkland/Institutional for fine grain soil

Shaded value exceeds MECP Table 2 SCS Industrial/Commercial/Community for fine grain soil

**Table 2: Soil Quality Results
Pesticides**

Parameter	Unit	Table 2 SCS Residential/ Parkland/Institutional Property Use	Table 2 SCS Industrial/Commercial/ Community Property Use	Sample Identification						
				Block One						
				TP12-SS2	TP14-SS1	TP14-SS2	BH104 SS1	BH104 SS2	BH105 SS2	BH105 SS3
Date Sampled				24-Jul-20	24-Jul-20	24-Jul-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20
Depth	m bgs			0.3	0.15	0.3	0 - 0.3	0.3 - 0.76	0.3 - 0.61	0.76 - 1.52
Aldrin	ug/g	0.05	0.11	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chlordane	ug/g	0.05	0.05	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
DDD	ug/g	3.3	4.6	<0.028	0.187	0.128	<0.028	<0.028	<0.028	<0.028
DDE	ug/g	0.33	0.65	0.398	6.78	4.56	0.089	<0.028	0.155	<0.028
DDT	ug/g	1.4	1.4	<0.028	0.581	0.375	<0.028	<0.028	<0.028	<0.028
Dieldrin	ug/g	0.05	0.11	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Endosulfan	ug/g	0.04	0.38	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Endrin	ug/g	0.04	0.04	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Heptachlor	ug/g	0.15	0.19	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Heptachlor Epoxide	ug/g	0.05	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Hexachlorobenzene	ug/g	0.52	0.66	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachlorobutadiene	ug/g	0.014	0.095	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachlorocyclohexane, gamma-	ug/g	0.063	0.063	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachloroethane	ug/g	0.071	0.43	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Methoxychlor	ug/g	0.13	1.6	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020

MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, dated April 2011.

Shaded and Bolded value exceeds MECP Table 2 SCS Residential/Parkland/Institutional for fine grain soil

Shaded value exceeds MECP Table 2 SCS Industrial/Commercial/Community for fine grain soil

**Table 2: Soil Quality Results
Pesticides**

Parameter	Unit	Table 2 SCS Residential/ Parkland/Institutional Property Use	Table 2 SCS Industrial/Commercial/ Community Property Use	Sample Identification						
				Block One						
				BH106 SS2	BH106 SS3	BH107 SS1	BH107 SS2	BH108 SS1	BH108 SS2	BH109 SS1
Date Sampled				14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20
Depth	m bgs			0.15 - 0.76	0.76 - 1.52	0 - 0.3	0.3 - 0.61	0 - 0.3	0.3 - 0.51	0 - 0.3
Aldrin	ug/g	0.05	0.11	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chlordane	ug/g	0.05	0.05	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
DDD	ug/g	3.3	4.6	<0.028	<0.028	<0.028	<0.028	0.112	<0.028	<0.028
DDE	ug/g	0.33	0.65	<0.028	<0.028	0.061	<0.028	5.43	0.045	0.865
DDT	ug/g	1.4	1.4	<0.028	<0.028	<0.028	<0.028	0.807	<0.028	0.085
Dieldrin	ug/g	0.05	0.11	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Endosulfan	ug/g	0.04	0.38	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Endrin	ug/g	0.04	0.04	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Heptachlor	ug/g	0.15	0.19	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Heptachlor Epoxide	ug/g	0.05	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Hexachlorobenzene	ug/g	0.52	0.66	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachlorobutadiene	ug/g	0.014	0.095	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachlorocyclohexane, gamma-	ug/g	0.063	0.063	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachloroethane	ug/g	0.071	0.43	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Methoxychlor	ug/g	0.13	1.6	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020

MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, dated April 2011.

Shaded and Bolded value exceeds MECP Table 2 SCS Residential/Parkland/Institutional for fine grain soil

Shaded value exceeds MECP Table 2 SCS Industrial/Commercial/Community for fine grain soil

**Table 2: Soil Quality Results
Pesticides**

Parameter	Unit	Table 2 SCS Residential/ Parkland/Institutional Property Use	Table 2 SCS Industrial/Commercial/ Community Property Use	Sample Identification							
				Block One			Block Two				
				BH109 SS2	BH110 SS1	BH110 SS2	TP1-SS1	TP1-SS2	TP2-SS1	TP2-SS2	
Date Sampled				14-Sep-20	14-Sep-20	14-Sep-20	24-Jul-20	24-Jul-20	24-Jul-20	24-Jul-20	
Depth	m bgs			0.3 - 0.61	0 - 0.15	0.15 - 0.36	0.15	0.3	0.15	0.3	
Aldrin	ug/g	0.05	0.11	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Chlordane	ug/g	0.05	0.05	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	
DDD	ug/g	3.3	4.6	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	
DDE	ug/g	0.33	0.65	<0.028	0.031	<0.028	0.345	0.231	0.698	0.697	
DDT	ug/g	1.4	1.4	<0.028	<0.028	<0.028	0.072	0.041	0.158	0.119	
Dieldrin	ug/g	0.05	0.11	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Endosulfan	ug/g	0.04	0.38	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	
Endrin	ug/g	0.04	0.04	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Heptachlor	ug/g	0.15	0.19	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Heptachlor Epoxide	ug/g	0.05	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Hexachlorobenzene	ug/g	0.52	0.66	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Hexachlorobutadiene	ug/g	0.014	0.095	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Hexachlorocyclohexane, gamma-	ug/g	0.063	0.063	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Hexachloroethane	ug/g	0.071	0.43	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Methoxychlor	ug/g	0.13	1.6	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	

MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, dated April 2011.

Shaded and Bolded value exceeds MECP Table 2 SCS Residential/Parkland/Institutional for fine grain soil

Shaded value exceeds MECP Table 2 SCS Industrial/Commercial/Community for fine grain soil

**Table 2: Soil Quality Results
Pesticides**

Parameter	Unit	Table 2 SCS Residential/ Parkland/Institutional Property Use	Table 2 SCS Industrial/Commercial/ Community Property Use	Sample Identification							
				Block Two					Block Three		
				BH101 SS1	BH101 SS2	BH102 SS3	BH103 SS1	BH103 SS2	TP4-SS1	TP5-SS1	TP7-SS1
Date Sampled				14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	14-Sep-20	24-Jul-20	24-Jul-20	24-Jul-20
Depth	m bgs			0 - 0.15	0.15 - 0.46	0.91 - 1.52	0 - 0.3	0.3 - 0.61	0.15	0.15	0.15
Aldrin	ug/g	0.05	0.11	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chlordane	ug/g	0.05	0.05	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
DDD	ug/g	3.3	4.6	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
DDE	ug/g	0.33	0.65	<0.028	<0.028	<0.028	0.174	<0.028	0.069	<0.028	0.059
DDT	ug/g	1.4	1.4	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Dieldrin	ug/g	0.05	0.11	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Endosulfan	ug/g	0.04	0.38	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Endrin	ug/g	0.04	0.04	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Heptachlor	ug/g	0.15	0.19	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Heptachlor Epoxide	ug/g	0.05	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Hexachlorobenzene	ug/g	0.52	0.66	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachlorobutadiene	ug/g	0.014	0.095	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachlorocyclohexane, gamma-	ug/g	0.063	0.063	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachloroethane	ug/g	0.071	0.43	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Methoxychlor	ug/g	0.13	1.6	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020

MECP Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, dated April 2011.

Shaded and Bolded value exceeds MECP Table 2 SCS Residential/Parkland/Institutional for fine grain soil

Shaded value exceeds MECP Table 2 SCS Industrial/Commercial/Community for fine grain soil

**Attachment 3:
Certificate of Analysis**



G2S ENVIRONMENTAL CONSULTING, INC.
ATTN: Rachael Lesmeister
37 Sandiford Dr
Suite 511
Stouffville ON L4A 3Z2

Date Received: 27-JUL-20
Report Date: 05-AUG-20 13:36 (MT)
Version: FINAL

Client Phone: 905-766-4054

Certificate of Analysis

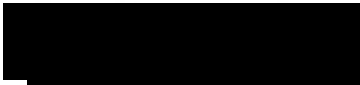
Lab Work Order #: L2480011

Project P.O. #: 123 LAURA ST. W. 125 ARTHUR STREET W. &
VACANT LAND

Job Reference: G2S20445B

C of C Numbers: 17-796701, 17-796703

Legal Site Desc:


Amanda Overholster
Account Manager

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ANALYTICAL REPORT



Summary of Guideline Exceedances

Guideline		Grouping	Analyte	Result	Guideline Limit	Unit
ALS ID	Client ID					
Ontario Regulation 153/04 - April 15, 2011 Standards - T2-Soil-Res/Park/Inst. Property Use (Coarse)						
L2480011-1	TP1-SS1	Organochlorine Pesticides	Total DDE	0.345	0.26	ug/g
L2480011-2	TP2-SS1	Organochlorine Pesticides	Total DDE	0.698	0.26	ug/g
L2480011-8	TP8-SS1	Organochlorine Pesticides	Total DDE	1.56	0.26	ug/g
L2480011-9	TP9-SS1	Organochlorine Pesticides	Total DDE	0.265	0.26	ug/g
L2480011-10	TP10-SS1	Metals	Arsenic (As)	24.0	18	ug/g
		Organochlorine Pesticides	Total DDE	1.74	0.26	ug/g
L2480011-11	TP11-SS1	Metals	Arsenic (As)	23.3	18	ug/g
L2480011-12	TP12-SS1	Organochlorine Pesticides	Total DDE	1.15	0.26	ug/g
L2480011-14	TP14-SS1	Metals	Arsenic (As)	40.4	18	ug/g
		Organochlorine Pesticides	Total DDE	6.78	0.26	ug/g
Ontario Regulation 153/04 - April 15, 2011 Standards - T2-Soil-Res/Park/Inst. Property Use (Fine)						
L2480011-1	TP1-SS1	Organochlorine Pesticides	Total DDE	0.345	0.33	ug/g
L2480011-2	TP2-SS1	Organochlorine Pesticides	Total DDE	0.698	0.33	ug/g
L2480011-8	TP8-SS1	Organochlorine Pesticides	Total DDE	1.56	0.33	ug/g
L2480011-10	TP10-SS1	Metals	Arsenic (As)	24.0	18	ug/g
		Organochlorine Pesticides	Total DDE	1.74	0.33	ug/g
L2480011-11	TP11-SS1	Metals	Arsenic (As)	23.3	18	ug/g
L2480011-12	TP12-SS1	Organochlorine Pesticides	Total DDE	1.15	0.33	ug/g
L2480011-14	TP14-SS1	Metals	Arsenic (As)	40.4	18	ug/g
		Organochlorine Pesticides	Total DDE	6.78	0.33	ug/g



ANALYTICAL REPORT

Physical Tests - SOIL

		Lab ID	L2480011-1	L2480011-2	L2480011-4	L2480011-5	L2480011-7	L2480011-8	L2480011-9	L2480011-10	L2480011-12	
		Sample Date	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	
		Sample ID	TP1-SS1	TP2-SS1	TP4-SS1	TP5-SS1	TP7-SS1	TP8-SS1	TP9-SS1	TP10-SS1	TP12-SS1	
Analyte	Unit	Guide Limits										
		#1	#2									
% Moisture	%	-	-	23.9	19.1	21.5	27.1	17.3	16.1	25.8	18.6	11.8
pH	pH units	-	-									

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)
Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)

 Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

Physical Tests - SOIL

		Lab ID			L2480011-14	L2480011-16	L2480011-17
		Sample Date			24-JUL-20	24-JUL-20	24-JUL-20
		Sample ID			TP14-SS1	TP3-SS2	TP10-SS2
Analyte	Unit	Guide Limits					
		#1	#2				
% Moisture	%	-	-	15.7			
pH	pH units	-	-		7.24	7.31	

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

Particle Size - SOIL

		Lab ID	L2480011-16	L2480011-17
		Sample Date	24-JUL-20	24-JUL-20
		Sample ID	TP3-SS2	TP10-SS2
		Guide Limits		
Analyte	Unit	#1	#2	
% >75um	%	-	-	53.8 43.8

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)

 Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

ANALYTICAL REPORT

Metals - SOIL

Analyte	Unit	Lab ID	Sample Date	Sample ID	L2480011-1	L2480011-2	L2480011-3	L2480011-4	L2480011-5	L2480011-6	L2480011-7	L2480011-8	L2480011-9	
					24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20
					TP1-SS1	TP2-SS1	TP3-SS1	TP4-SS1	TP5-SS1	TP6-SS1	TP7-SS1	TP8-SS1	TP9-SS1	
Guide Limits		#1	#2											
Antimony (Sb)	ug/g	7.5	7.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Arsenic (As)	ug/g	18	18	11.9	10.5	6.8	9.5	6.2	9.9	14.9	10.1	8.1		
Barium (Ba)	ug/g	390	390	18.1	32.6	51.1	75.1	31.8	23.7	25.7	31.4	42.8		
Beryllium (Be)	ug/g	4	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.57		
Boron (B)	ug/g	120	120	<5.0	9.8	10.0	7.4	<5.0	5.1	5.7	6.2	14.5		
Cadmium (Cd)	ug/g	1.2	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
Chromium (Cr)	ug/g	160	160	10.2	16.9	14.5	14.3	13.0	13.3	13.7	13.3	17.2		
Cobalt (Co)	ug/g	22	22	2.5	7.0	4.6	3.7	3.7	3.5	3.8	5.8	7.0		
Copper (Cu)	ug/g	140	180	10.0	18.2	18.6	18.6	10.5	14.1	18.5	11.4	18.1		
Lead (Pb)	ug/g	120	120	31.5	25.7	29.2	79.1	9.9	25.7	50.0	25.0	19.1		
Molybdenum (Mo)	ug/g	6.9	6.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Nickel (Ni)	ug/g	100	130	6.1	15.6	9.7	8.4	7.5	7.8	8.6	11.6	15.5		
Selenium (Se)	ug/g	2.4	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Silver (Ag)	ug/g	20	25	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		
Thallium (Tl)	ug/g	1	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50		
Uranium (U)	ug/g	23	23	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Vanadium (V)	ug/g	86	86	16.9	25.1	24.5	22.0	21.6	21.8	21.6	19.2	25.4		
Zinc (Zn)	ug/g	340	340	38.9	52.2	61.9	76.2	23.9	42.7	46.5	49.1	50.1		

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

Metals - SOIL

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	L2480011-10	L2480011-11	L2480011-12	L2480011-13	L2480011-14	L2480011-15
		#1	#2				TP10-SS1	TP11-SS1	TP12-SS1	TP13-SS1	TP14-SS1	TP15-SS1
Antimony (Sb)	ug/g	7.5	7.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic (As)	ug/g	18	18	24.0	23.3	10.7	13.3	40.4	17.0			
Barium (Ba)	ug/g	390	390	30.6	18.6	18.9	55.6	40.5	19.8			
Beryllium (Be)	ug/g	4	5	<0.50	<0.50	<0.50	0.67	<0.50	<0.50			
Boron (B)	ug/g	120	120	7.3	<5.0	<5.0	11.2	8.1	<5.0			
Cadmium (Cd)	ug/g	1.2	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
Chromium (Cr)	ug/g	160	160	16.2	12.2	10.8	20.6	16.9	13.4			
Cobalt (Co)	ug/g	22	22	5.4	3.1	2.9	7.3	6.2	3.3			
Copper (Cu)	ug/g	140	180	14.1	11.9	8.5	16.0	24.3	11.4			
Lead (Pb)	ug/g	120	120	61.3	64.1	28.3	34.6	117	44.8			
Molybdenum (Mo)	ug/g	6.9	6.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Nickel (Ni)	ug/g	100	130	11.7	7.1	6.4	15.5	13.5	7.5			
Selenium (Se)	ug/g	2.4	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Silver (Ag)	ug/g	20	25	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20			
Thallium (Tl)	ug/g	1	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50			
Uranium (U)	ug/g	23	23	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			
Vanadium (V)	ug/g	86	86	26.4	19.5	17.7	29.3	27.2	22.1			
Zinc (Zn)	ug/g	340	340	56.7	40.5	29.7	61.2	52.2	25.6			

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)

 Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

Organochlorine Pesticides - SOIL

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	L2480011-1	L2480011-2	L2480011-4	L2480011-5	L2480011-7	L2480011-8	L2480011-9	L2480011-10	L2480011-12
		#1	#2				24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20
							TP1-SS1	TP2-SS1	TP4-SS1	TP5-SS1	TP7-SS1	TP8-SS1	TP9-SS1	TP10-SS1	TP12-SS1
Aldrin	ug/g	0.05	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
gamma-hexachlorocyclohexane	ug/g	0.056	0.063	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
a-chlordane	ug/g	-	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chlordane (Total)	ug/g	0.05	0.05	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
g-chlordane	ug/g	-	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
op-DDD	ug/g	-	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
pp-DDD	ug/g	-	-	<0.020	0.021	<0.020	<0.020	<0.020	<0.020	<0.020	0.080	<0.020	0.066	0.035	0.035
Total DDD	ug/g	3.3	3.3	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	0.080	<0.028	0.066	0.035	0.035
o,p-DDE	ug/g	-	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
pp-DDE	ug/g	-	-	0.345	0.698	0.069	<0.020	0.059	1.56	0.265	1.74	1.15	1.15	1.15	1.15
Total DDE	ug/g	0.26	0.33	0.345	0.698	0.069	<0.028	0.059	1.56	0.265	1.74	1.15	1.15	1.15	1.15
op-DDT	ug/g	-	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.040	<0.020	<0.020	<0.020	<0.020
pp-DDT	ug/g	-	-	0.072	0.158	<0.020	<0.020	<0.020	<0.020	<0.020	0.457	0.038	0.156	0.072	0.072
Total DDT	ug/g	1.4	1.4	0.072	0.158	<0.028	<0.028	<0.028	<0.028	<0.028	0.497	0.038	0.156	0.072	0.072
Dieldrin	ug/g	0.05	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Endosulfan I	ug/g	-	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Endosulfan II	ug/g	-	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Endosulfan (Total)	ug/g	0.04	0.04	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Endrin	ug/g	0.04	0.04	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Heptachlor	ug/g	0.15	0.15	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Heptachlor Epoxide	ug/g	0.05	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Hexachlorobenzene	ug/g	0.52	0.52	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachlorobutadiene	ug/g	0.012	0.014	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachloroethane	ug/g	0.089	0.07	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Methoxychlor	ug/g	0.13	0.13	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Surrogate: 2-Fluorobiphenyl	%	-	-	82.4	79.3	95.0	77.7	80.1	75.2	79.6	79.7	88.6	88.6	88.6	88.6
Surrogate: d14-Terphenyl	%	-	-	119.3	90.7	126.7	89.5	88.2	81.8	96.4	90.2	94.5	94.5	94.5	94.5

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)

 Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

Organochlorine Pesticides - SOIL

		Lab ID	L2480011-14		
		Sample Date	24-JUL-20		
		Sample ID	TP14-SS1		
Analyte	Unit	Guide Limits			
		#1	#2		
Aldrin	ug/g	0.05	0.05	<0.020	
gamma-hexachlorocyclohexane	ug/g	0.056	0.063	<0.010	
a-chlordane	ug/g	-	-	<0.020	
Chlordane (Total)	ug/g	0.05	0.05	<0.028	
g-chlordane	ug/g	-	-	<0.020	
op-DDD	ug/g	-	-	<0.020	
pp-DDD	ug/g	-	-	0.187	
Total DDD	ug/g	3.3	3.3	0.187	
o,p-DDE	ug/g	-	-	<0.020	
pp-DDE	ug/g	-	-	6.78	
Total DDE	ug/g	0.26	0.33	6.78	
op-DDT	ug/g	-	-	0.048	
pp-DDT	ug/g	-	-	0.533	
Total DDT	ug/g	1.4	1.4	0.581	
Dieldrin	ug/g	0.05	0.05	<0.020	
Endosulfan I	ug/g	-	-	<0.020	
Endosulfan II	ug/g	-	-	<0.020	
Endosulfan (Total)	ug/g	0.04	0.04	<0.028	
Endrin	ug/g	0.04	0.04	<0.020	
Heptachlor	ug/g	0.15	0.15	<0.020	
Heptachlor Epoxide	ug/g	0.05	0.05	<0.020	
Hexachlorobenzene	ug/g	0.52	0.52	<0.010	
Hexachlorobutadiene	ug/g	0.012	0.014	<0.010	
Hexachloroethane	ug/g	0.089	0.07	<0.010	
Methoxychlor	ug/g	0.13	0.13	<0.020	
Surrogate: 2-Fluorobiphenyl	%	-	-	88.2	
Surrogate: d14-Terphenyl	%	-	-	99.2	

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)

 Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

Reference Information

L2480011 CONT'D....
Job Reference: G2S20445B
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Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
CHLORDANE-T-CALC-WT	Soil	Chlordane Total sums	CALCULATION
Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.			
DDD-DDE-DDT-CALC-WT	Soil	DDD, DDE, DDT sums	CALCULATION
Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.			
ENDOSULFAN-T-CALC-WT	Soil	Endosulfan Total sums	CALCULATION
Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.			
MET-200.2-CCMS-WT	Soil	Metals in Soil by CRC ICPMS	EPA 200.2/6020B (mod)
Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.			
Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H ₂ S) may be excluded if lost during sampling, storage, or digestion.			
Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).			
MOISTURE-WT	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)
PEST-OC-511-WT	Soil	OC Pesticides-O.Reg 153/04 (July 2011)	SW846 8270 (511)
Soil sample is extracted in a solvent, after extraction a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.			
Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).			
PH-WT	Soil	pH	MOEE E3137A
A minimum 10g portion of the sample is extracted with 20mL of 0.01M calcium chloride solution by shaking for at least 30 minutes. The aqueous layer is separated from the soil and then analyzed using a pH meter and electrode.			
Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011).			
PSA-75UM-SIEVE-WT	Soil	% Particles>75um (Coarse/Fine)	CARTER CSSS 55.4 (modified)
An air-dried sample is reduced to < 2 mm size and mixed with a dispersing agent (sodium metaphosphate). The sample is washed through a 200 mesh (75 µm) sieve. The retained mass of sample is used to determine % sand fraction. If the percentage of sand is >50%, the soil is considered to be coarse textured soil. If the percentage of sand is <50%, the soil is considered to be fine textured.			

**ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody Numbers:

17-796701 17-796703

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code Laboratory Location

Reference Information

L2480011 CONT'D....
Job Reference: G2S20445B
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WT

ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.



Quality Control Report

Workorder: L2480011

Report Date: 05-AUG-20

Page 1 of 12

Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT		Soil						
Batch	R5172192							
WG3373261-2	CRM	WT-SS-1						
Antimony (Sb)			106.9		%		70-130	30-JUL-20
Arsenic (As)			115.2		%		70-130	30-JUL-20
Beryllium (Be)			105.0		%		70-130	30-JUL-20
Boron (B)			101.9		%		70-130	30-JUL-20
Cadmium (Cd)			97.5		%		70-130	30-JUL-20
Chromium (Cr)			106.0		%		70-130	30-JUL-20
Cobalt (Co)			100.4		%		70-130	30-JUL-20
Copper (Cu)			101.0		%		70-130	30-JUL-20
Lead (Pb)			100.4		%		70-130	30-JUL-20
Molybdenum (Mo)			94.5		%		70-130	30-JUL-20
Nickel (Ni)			104.3		%		70-130	30-JUL-20
Selenium (Se)			92.1		%		70-130	30-JUL-20
Silver (Ag)			91.6		%		70-130	30-JUL-20
Thallium (Tl)			82.6		%		70-130	30-JUL-20
Vanadium (V)			112.7		%		70-130	30-JUL-20
Zinc (Zn)			106.3		%		70-130	30-JUL-20
WG3373261-4	DUP	L2479614-9						
Antimony (Sb)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	30-JUL-20
Arsenic (As)		2.6	2.5		ug/g	4.0	30	30-JUL-20
Barium (Ba)		59.2	57.0		ug/g	3.7	40	30-JUL-20
Beryllium (Be)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	30-JUL-20
Boron (B)		6.7	6.2		ug/g	7.5	30	30-JUL-20
Cadmium (Cd)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	30-JUL-20
Chromium (Cr)		17.7	17.1		ug/g	3.5	30	30-JUL-20
Cobalt (Co)		6.6	6.4		ug/g	3.0	30	30-JUL-20
Copper (Cu)		14.7	14.2		ug/g	3.1	30	30-JUL-20
Lead (Pb)		7.3	7.1		ug/g	3.0	40	30-JUL-20
Molybdenum (Mo)		<1.0	<1.0	RPD-NA	ug/g	N/A	40	30-JUL-20
Nickel (Ni)		15.6	15.0		ug/g	4.0	30	30-JUL-20
Selenium (Se)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	30-JUL-20
Silver (Ag)		<0.20	<0.20	RPD-NA	ug/g	N/A	40	30-JUL-20
Thallium (Tl)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	30-JUL-20
Uranium (U)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	30-JUL-20



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Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT		Soil						
Batch	R5172192							
WG3373261-4	DUP	L2479614-9						
Vanadium (V)		27.3	26.1		ug/g	4.6	30	30-JUL-20
Zinc (Zn)		36.2	35.2		ug/g	2.7	30	30-JUL-20
WG3373261-3	LCS							
Antimony (Sb)			99.4		%		80-120	30-JUL-20
Arsenic (As)			99.1		%		80-120	30-JUL-20
Barium (Ba)			97.1		%		80-120	30-JUL-20
Beryllium (Be)			95.0		%		80-120	30-JUL-20
Boron (B)			97.5		%		80-120	30-JUL-20
Cadmium (Cd)			94.4		%		80-120	30-JUL-20
Chromium (Cr)			98.5		%		80-120	30-JUL-20
Cobalt (Co)			94.9		%		80-120	30-JUL-20
Copper (Cu)			94.0		%		80-120	30-JUL-20
Lead (Pb)			95.7		%		80-120	30-JUL-20
Molybdenum (Mo)			95.7		%		80-120	30-JUL-20
Nickel (Ni)			94.2		%		80-120	30-JUL-20
Selenium (Se)			98.4		%		80-120	30-JUL-20
Silver (Ag)			93.6		%		80-120	30-JUL-20
Thallium (Tl)			95.8		%		80-120	30-JUL-20
Uranium (U)			82.7		%		80-120	30-JUL-20
Vanadium (V)			99.8		%		80-120	30-JUL-20
Zinc (Zn)			93.3		%		80-120	30-JUL-20
WG3373261-1	MB							
Antimony (Sb)			<0.10		mg/kg		0.1	30-JUL-20
Arsenic (As)			<0.10		mg/kg		0.1	30-JUL-20
Barium (Ba)			<0.50		mg/kg		0.5	30-JUL-20
Beryllium (Be)			<0.10		mg/kg		0.1	30-JUL-20
Boron (B)			<5.0		mg/kg		5	30-JUL-20
Cadmium (Cd)			<0.020		mg/kg		0.02	30-JUL-20
Chromium (Cr)			<0.50		mg/kg		0.5	30-JUL-20
Cobalt (Co)			<0.10		mg/kg		0.1	30-JUL-20
Copper (Cu)			<0.50		mg/kg		0.5	30-JUL-20
Lead (Pb)			<0.50		mg/kg		0.5	30-JUL-20
Molybdenum (Mo)			<0.10		mg/kg		0.1	30-JUL-20
Nickel (Ni)			<0.50		mg/kg		0.5	30-JUL-20



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Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT		Soil						
Batch R5172192								
WG3373261-1	MB							
Selenium (Se)			<0.20		mg/kg		0.2	30-JUL-20
Silver (Ag)			<0.10		mg/kg		0.1	30-JUL-20
Thallium (Tl)			<0.050		mg/kg		0.05	30-JUL-20
Uranium (U)			<0.050		mg/kg		0.05	30-JUL-20
Vanadium (V)			<0.20		mg/kg		0.2	30-JUL-20
Zinc (Zn)			<2.0		mg/kg		2	30-JUL-20
Batch R5172788								
WG3374183-2	CRM	WT-SS-1						
Antimony (Sb)			116.8		%		70-130	31-JUL-20
Arsenic (As)			107.0		%		70-130	31-JUL-20
Beryllium (Be)			101.8		%		70-130	31-JUL-20
Boron (B)			98.1		%		70-130	31-JUL-20
Cadmium (Cd)			95.0		%		70-130	31-JUL-20
Chromium (Cr)			97.0		%		70-130	31-JUL-20
Cobalt (Co)			94.0		%		70-130	31-JUL-20
Copper (Cu)			90.9		%		70-130	31-JUL-20
Lead (Pb)			97.6		%		70-130	31-JUL-20
Molybdenum (Mo)			100.5		%		70-130	31-JUL-20
Nickel (Ni)			97.5		%		70-130	31-JUL-20
Selenium (Se)			86.7		%		70-130	31-JUL-20
Silver (Ag)			99.9		%		70-130	31-JUL-20
Thallium (Tl)			90.1		%		70-130	31-JUL-20
Vanadium (V)			105.0		%		70-130	31-JUL-20
Zinc (Zn)			94.5		%		70-130	31-JUL-20
WG3374183-4	DUP	L2480016-2						
Antimony (Sb)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	31-JUL-20
Arsenic (As)		2.5	2.5		ug/g	1.7	30	31-JUL-20
Barium (Ba)		27.3	27.2		ug/g	0.6	40	31-JUL-20
Beryllium (Be)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	31-JUL-20
Boron (B)		5.2	<5.0	RPD-NA	ug/g	N/A	30	31-JUL-20
Cadmium (Cd)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	31-JUL-20
Chromium (Cr)		9.1	8.6		ug/g	5.2	30	31-JUL-20
Cobalt (Co)		3.2	3.1		ug/g	0.6	30	31-JUL-20
Copper (Cu)		30.4	26.3		ug/g	15	30	31-JUL-20



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Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT		Soil						
Batch	R5172788							
WG3374183-4	DUP	L2480016-2						
Lead (Pb)		14.1	14.7		ug/g	4.3	40	31-JUL-20
Molybdenum (Mo)		<1.0	<1.0	RPD-NA	ug/g	N/A	40	31-JUL-20
Nickel (Ni)		6.9	6.6		ug/g	3.4	30	31-JUL-20
Selenium (Se)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	31-JUL-20
Silver (Ag)		<0.20	<0.20	RPD-NA	ug/g	N/A	40	31-JUL-20
Thallium (Tl)		<0.50	<0.50	RPD-NA	ug/g	N/A	30	31-JUL-20
Uranium (U)		<1.0	<1.0	RPD-NA	ug/g	N/A	30	31-JUL-20
Vanadium (V)		16.4	16.0		ug/g	2.9	30	31-JUL-20
Zinc (Zn)		46.9	46.0		ug/g	2.0	30	31-JUL-20
WG3374183-3	LCS							
Antimony (Sb)			106.8		%		80-120	31-JUL-20
Arsenic (As)			106.3		%		80-120	31-JUL-20
Barium (Ba)			109.1		%		80-120	31-JUL-20
Beryllium (Be)			102.5		%		80-120	31-JUL-20
Boron (B)			103.8		%		80-120	31-JUL-20
Cadmium (Cd)			104.9		%		80-120	31-JUL-20
Chromium (Cr)			104.9		%		80-120	31-JUL-20
Cobalt (Co)			103.2		%		80-120	31-JUL-20
Copper (Cu)			102.6		%		80-120	31-JUL-20
Lead (Pb)			108.3		%		80-120	31-JUL-20
Molybdenum (Mo)			106.4		%		80-120	31-JUL-20
Nickel (Ni)			102.5		%		80-120	31-JUL-20
Selenium (Se)			105.5		%		80-120	31-JUL-20
Silver (Ag)			107.2		%		80-120	31-JUL-20
Thallium (Tl)			106.0		%		80-120	31-JUL-20
Uranium (U)			103.7		%		80-120	31-JUL-20
Vanadium (V)			106.7		%		80-120	31-JUL-20
Zinc (Zn)			101.9		%		80-120	31-JUL-20
WG3374183-1	MB							
Antimony (Sb)			<0.10		mg/kg		0.1	31-JUL-20
Arsenic (As)			<0.10		mg/kg		0.1	31-JUL-20
Barium (Ba)			<0.50		mg/kg		0.5	31-JUL-20
Beryllium (Be)			<0.10		mg/kg		0.1	31-JUL-20
Boron (B)			<5.0		mg/kg		5	31-JUL-20



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Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT		Soil						
Batch	R5172788							
WG3374183-1	MB							
Cadmium (Cd)			<0.020		mg/kg		0.02	31-JUL-20
Chromium (Cr)			<0.50		mg/kg		0.5	31-JUL-20
Cobalt (Co)			<0.10		mg/kg		0.1	31-JUL-20
Copper (Cu)			<0.50		mg/kg		0.5	31-JUL-20
Lead (Pb)			<0.50		mg/kg		0.5	31-JUL-20
Molybdenum (Mo)			<0.10		mg/kg		0.1	31-JUL-20
Nickel (Ni)			<0.50		mg/kg		0.5	31-JUL-20
Selenium (Se)			<0.20		mg/kg		0.2	31-JUL-20
Silver (Ag)			<0.10		mg/kg		0.1	31-JUL-20
Thallium (Tl)			<0.050		mg/kg		0.05	31-JUL-20
Uranium (U)			<0.050		mg/kg		0.05	31-JUL-20
Vanadium (V)			<0.20		mg/kg		0.2	31-JUL-20
Zinc (Zn)			<2.0		mg/kg		2	31-JUL-20
MOISTURE-WT		Soil						
Batch	R5171685							
WG3372758-6	DUP	L2480220-6						
% Moisture		14.6	14.0		%	4.6	20	31-JUL-20
WG3372758-5	LCS							
% Moisture			100.2		%		90-110	31-JUL-20
WG3372758-4	MB							
% Moisture			<0.25		%		0.25	31-JUL-20
Batch	R5171821							
WG3373029-3	DUP	L2480011-12						
% Moisture		11.8	11.8		%	0.2	20	30-JUL-20
WG3373029-2	LCS							
% Moisture			103.7		%		90-110	30-JUL-20
WG3373029-1	MB							
% Moisture			<0.25		%		0.25	30-JUL-20
PEST-OC-511-WT		Soil						
Batch	R5172882							
WG3372282-3	DUP	WG3372282-5						
Aldrin		<0.020	<0.020	RPD-NA	ug/g	N/A	40	31-JUL-20
a-chlordane		<0.020	<0.020	RPD-NA	ug/g	N/A	40	31-JUL-20
g-chlordane		<0.020	<0.020	RPD-NA	ug/g	N/A	40	31-JUL-20
op-DDD		<0.020	<0.020	RPD-NA	ug/g	N/A	40	31-JUL-20



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Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT		Soil						
Batch	R5172882							
WG3372282-3	DUP	WG3372282-5						
pp-DDD		<0.020	<0.020	RPD-NA	ug/g	N/A	40	31-JUL-20
o,p-DDE		<0.020	<0.020	RPD-NA	ug/g	N/A	40	31-JUL-20
pp-DDE		<0.020	<0.020	RPD-NA	ug/g	N/A	40	31-JUL-20
op-DDT		<0.020	<0.020	RPD-NA	ug/g	N/A	40	31-JUL-20
pp-DDT		<0.020	<0.020	RPD-NA	ug/g	N/A	40	31-JUL-20
Dieldrin		<0.020	<0.020	RPD-NA	ug/g	N/A	40	31-JUL-20
Endosulfan I		<0.020	<0.020	RPD-NA	ug/g	N/A	40	31-JUL-20
Endosulfan II		<0.020	<0.020	RPD-NA	ug/g	N/A	40	31-JUL-20
Endrin		<0.020	<0.020	RPD-NA	ug/g	N/A	40	31-JUL-20
gamma-hexachlorocyclohexane		<0.010	<0.010	RPD-NA	ug/g	N/A	40	31-JUL-20
Heptachlor		<0.020	<0.020	RPD-NA	ug/g	N/A	40	31-JUL-20
Heptachlor Epoxide		<0.020	<0.020	RPD-NA	ug/g	N/A	40	31-JUL-20
Hexachlorobenzene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	31-JUL-20
Hexachlorobutadiene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	31-JUL-20
Hexachloroethane		<0.010	<0.010	RPD-NA	ug/g	N/A	40	31-JUL-20
Methoxychlor		<0.020	<0.020	RPD-NA	ug/g	N/A	40	31-JUL-20
WG3372282-2	LCS							
Aldrin			112.3		%		50-140	31-JUL-20
a-chlordane			80.0		%		50-140	31-JUL-20
g-chlordane			67.4		%		50-140	31-JUL-20
op-DDD			85.7		%		50-140	31-JUL-20
pp-DDD			83.2		%		50-140	31-JUL-20
o,p-DDE			68.6		%		50-140	31-JUL-20
pp-DDE			66.8		%		50-140	31-JUL-20
op-DDT			87.8		%		50-140	31-JUL-20
pp-DDT			81.7		%		50-140	31-JUL-20
Dieldrin			69.9		%		50-140	31-JUL-20
Endosulfan I			69.4		%		50-140	31-JUL-20
Endosulfan II			79.8		%		50-140	31-JUL-20
Endrin			94.4		%		50-140	31-JUL-20
gamma-hexachlorocyclohexane			84.7		%		50-140	31-JUL-20
Heptachlor			99.7		%		50-140	31-JUL-20
Heptachlor Epoxide			76.3		%		50-140	31-JUL-20



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Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT		Soil						
Batch	R5172882							
WG3372282-2	LCS							
Hexachlorobenzene			90.3		%		50-140	31-JUL-20
Hexachlorobutadiene			87.2		%		50-140	31-JUL-20
Hexachloroethane			91.4		%		50-140	31-JUL-20
Methoxychlor			114.5		%		50-140	31-JUL-20
WG3372282-1	MB							
Aldrin			<0.020		ug/g		0.02	31-JUL-20
a-chlordane			<0.020		ug/g		0.02	31-JUL-20
g-chlordane			<0.020		ug/g		0.02	31-JUL-20
op-DDD			<0.020		ug/g		0.02	31-JUL-20
pp-DDD			<0.020		ug/g		0.02	31-JUL-20
o,p-DDE			<0.020		ug/g		0.02	31-JUL-20
pp-DDE			<0.020		ug/g		0.02	31-JUL-20
op-DDT			<0.020		ug/g		0.02	31-JUL-20
pp-DDT			<0.020		ug/g		0.02	31-JUL-20
Dieldrin			<0.020		ug/g		0.02	31-JUL-20
Endosulfan I			<0.020		ug/g		0.02	31-JUL-20
Endosulfan II			<0.020		ug/g		0.02	31-JUL-20
Endrin			<0.020		ug/g		0.02	31-JUL-20
gamma-hexachlorocyclohexane			<0.010		ug/g		0.01	31-JUL-20
Heptachlor			<0.020		ug/g		0.02	31-JUL-20
Heptachlor Epoxide			<0.020		ug/g		0.02	31-JUL-20
Hexachlorobenzene			<0.010		ug/g		0.01	31-JUL-20
Hexachlorobutadiene			<0.010		ug/g		0.01	31-JUL-20
Hexachloroethane			<0.010		ug/g		0.01	31-JUL-20
Methoxychlor			<0.020		ug/g		0.02	31-JUL-20
Surrogate: 2-Fluorobiphenyl			80.6		%		50-140	31-JUL-20
Surrogate: d14-Terphenyl			68.0		%		50-140	31-JUL-20
WG3372282-4	MS	WG3372282-5						
Aldrin			114.4		%		50-140	31-JUL-20
a-chlordane			79.5		%		50-140	31-JUL-20
g-chlordane			66.4		%		50-140	31-JUL-20
op-DDD			86.3		%		50-140	31-JUL-20
pp-DDD			87.8		%		50-140	31-JUL-20
o,p-DDE			66.9		%		50-140	31-JUL-20



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Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT		Soil						
Batch	R5172882							
WG3372282-4	MS	WG3372282-5						
pp-DDE			66.2		%		50-140	31-JUL-20
op-DDT			89.0		%		50-140	31-JUL-20
pp-DDT			80.8		%		50-140	31-JUL-20
Dieldrin			68.8		%		50-140	31-JUL-20
Endosulfan I			69.9		%		50-140	31-JUL-20
Endosulfan II			84.7		%		50-140	31-JUL-20
Endrin			100.1		%		50-140	31-JUL-20
gamma-hexachlorocyclohexane			84.5		%		50-140	31-JUL-20
Heptachlor			102.3		%		50-140	31-JUL-20
Heptachlor Epoxide			74.3		%		50-140	31-JUL-20
Hexachlorobenzene			88.2		%		50-140	31-JUL-20
Hexachlorobutadiene			84.0		%		50-140	31-JUL-20
Hexachloroethane			89.0		%		50-140	31-JUL-20
Methoxychlor			117.8		%		50-140	31-JUL-20
Batch	R5173863							
WG3373385-3	DUP	WG3373385-5						
Aldrin		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-AUG-20
a-chlordane		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-AUG-20
g-chlordane		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-AUG-20
op-DDD		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-AUG-20
pp-DDD		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-AUG-20
o,p-DDE		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-AUG-20
pp-DDE		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-AUG-20
op-DDT		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-AUG-20
pp-DDT		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-AUG-20
Dieldrin		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-AUG-20
Endosulfan I		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-AUG-20
Endosulfan II		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-AUG-20
Endrin		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-AUG-20
gamma-hexachlorocyclohexane		<0.010	<0.010	RPD-NA	ug/g	N/A	40	04-AUG-20
Heptachlor		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-AUG-20
Heptachlor Epoxide		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-AUG-20
Hexachlorobenzene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	04-AUG-20



Quality Control Report

Workorder: L2480011

Report Date: 05-AUG-20

Page 9 of 12

Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT		Soil						
Batch	R5173863							
WG3373385-3	DUP	WG3373385-5						
Hexachlorobutadiene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	04-AUG-20
Hexachloroethane		<0.010	<0.010	RPD-NA	ug/g	N/A	40	04-AUG-20
Methoxychlor		<0.020	<0.020	RPD-NA	ug/g	N/A	40	04-AUG-20
WG3373385-2	LCS							
Aldrin			117.8		%		50-140	04-AUG-20
a-chlordane			122.6		%		50-140	04-AUG-20
g-chlordane			105.2		%		50-140	04-AUG-20
op-DDD			127.9		%		50-140	04-AUG-20
pp-DDD			119.4		%		50-140	04-AUG-20
o,p-DDE			101.8		%		50-140	04-AUG-20
pp-DDE			96.7		%		50-140	04-AUG-20
op-DDT			104.7		%		50-140	04-AUG-20
pp-DDT			82.1		%		50-140	04-AUG-20
Dieldrin			105.4		%		50-140	04-AUG-20
Endosulfan I			105.9		%		50-140	04-AUG-20
Endosulfan II			117.1		%		50-140	04-AUG-20
Endrin			129.1		%		50-140	04-AUG-20
gamma-hexachlorocyclohexane			87.2		%		50-140	04-AUG-20
Heptachlor			99.0		%		50-140	04-AUG-20
Heptachlor Epoxide			118.5		%		50-140	04-AUG-20
Hexachlorobenzene			92.7		%		50-140	04-AUG-20
Hexachlorobutadiene			90.3		%		50-140	04-AUG-20
Hexachloroethane			94.6		%		50-140	04-AUG-20
Methoxychlor			110.7		%		50-140	04-AUG-20
WG3373385-1	MB							
Aldrin			<0.020		ug/g		0.02	04-AUG-20
a-chlordane			<0.020		ug/g		0.02	04-AUG-20
g-chlordane			<0.020		ug/g		0.02	04-AUG-20
op-DDD			<0.020		ug/g		0.02	04-AUG-20
pp-DDD			<0.020		ug/g		0.02	04-AUG-20
o,p-DDE			<0.020		ug/g		0.02	04-AUG-20
pp-DDE			<0.020		ug/g		0.02	04-AUG-20
op-DDT			<0.020		ug/g		0.02	04-AUG-20
pp-DDT			<0.020		ug/g		0.02	04-AUG-20



Quality Control Report

Workorder: L2480011

Report Date: 05-AUG-20

Page 10 of 12

Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT		Soil						
Batch	R5173863							
WG3373385-1	MB							
Dieldrin			<0.020		ug/g		0.02	04-AUG-20
Endosulfan I			<0.020		ug/g		0.02	04-AUG-20
Endosulfan II			<0.020		ug/g		0.02	04-AUG-20
Endrin			<0.020		ug/g		0.02	04-AUG-20
gamma-hexachlorocyclohexane			<0.010		ug/g		0.01	04-AUG-20
Heptachlor			<0.020		ug/g		0.02	04-AUG-20
Heptachlor Epoxide			<0.020		ug/g		0.02	04-AUG-20
Hexachlorobenzene			<0.010		ug/g		0.01	04-AUG-20
Hexachlorobutadiene			<0.010		ug/g		0.01	04-AUG-20
Hexachloroethane			<0.010		ug/g		0.01	04-AUG-20
Methoxychlor			<0.020		ug/g		0.02	04-AUG-20
Surrogate: 2-Fluorobiphenyl			90.7		%		50-140	04-AUG-20
Surrogate: d14-Terphenyl			102.8		%		50-140	04-AUG-20
WG3373385-4	MS	WG3373385-5						
Aldrin			111.1		%		50-140	04-AUG-20
a-chlordane			73.7		%		50-140	04-AUG-20
g-chlordane			61.7		%		50-140	04-AUG-20
op-DDD			82.2		%		50-140	04-AUG-20
pp-DDD			86.7		%		50-140	04-AUG-20
o,p-DDE			60.3		%		50-140	04-AUG-20
pp-DDE			61.2		%		50-140	04-AUG-20
op-DDT			77.8		%		50-140	04-AUG-20
pp-DDT			68.0		%		50-140	04-AUG-20
Dieldrin			64.0		%		50-140	04-AUG-20
Endosulfan I			63.5		%		50-140	04-AUG-20
Endosulfan II			79.9		%		50-140	04-AUG-20
Endrin			96.7		%		50-140	04-AUG-20
gamma-hexachlorocyclohexane			79.5		%		50-140	04-AUG-20
Heptachlor			96.4		%		50-140	04-AUG-20
Heptachlor Epoxide			69.1		%		50-140	04-AUG-20
Hexachlorobenzene			83.9		%		50-140	04-AUG-20
Hexachlorobutadiene			79.1		%		50-140	04-AUG-20
Hexachloroethane			82.4		%		50-140	04-AUG-20
Methoxychlor			112.1		%		50-140	04-AUG-20



Quality Control Report

Workorder: L2480011 Report Date: 05-AUG-20 Page 11 of 12

Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2
Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PH-WT	Soil							
Batch	R5173196							
WG3372993-1	DUP	L2480005-8						
pH		7.40	7.42	J	pH units	0.02	0.3	31-JUL-20
WG3374573-1	LCS							
pH			6.94		pH units		6.9-7.1	31-JUL-20
PSA-75UM-SIEVE-WT	Soil							
Batch	R5169156							
WG3371906-2	DUP	L2480011-16						
% >75um		53.8	55.1	J	%	1.3	5	28-JUL-20
WG3371906-1	IRM	PSA_IRM						
% >75um			95.7		%		70-130	28-JUL-20

Quality Control Report

Workorder: L2480011

Report Date: 05-AUG-20

Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2
Contact: Rachael Lesmeister

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Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
J	Duplicate results and limits are expressed in terms of absolute difference.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

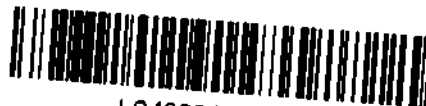
Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Chain of Custody (COC) / Analytical
Request Form

Canada Toll Free: 1 800 668 9878

www.alsglobal.com



L2480011-COFC

COC Number: 17 - 796701

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Report To		Report Format / Distribution		Select Service Level below - Contact your AM to confirm all E&P TATs (surcharges may apply)		
Company:	G2S Environmental Consulting	Select Report Format:	☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)	Regular [R] ☒ Standard TAT if received by 3 pm - business days - no surcharges apply		
Contact:	Rachael Lesmeister	Quality Control (QC) Report with Report	☒ YES ☐ NO	4 day (P4-20%) ☐ 1 Business day [E - 100%] ☐		
Phone:	416-275-3954	☒ Compare Results to Criteria on Report - provide details below if box checked		3 day (P3-25%) ☐ Same Day, Weekend or Statutory holiday (E2 -200% (Laboratory opening fees may apply)) ☐		
Company address below will appear on the final report		Select Distribution:	☒ EMAIL ☐ MAIL ☐ FAX	2 day (P2-50%) ☐		
Street:	37 Sandford Dr. Suite 411	Email 1 or Fax:	rachael@gsenvironmental.com	Date and Time Required for all E&P TATs: dd-mm-yy hh:mm		
City/Province:	Stouffville, ON	Email 2:	danh@gsenvironmental.com	For tests that cannot be performed according to the service level selected, you will be contacted.		
Postal Code:	L4A 3Z2	Email 3:	rick@gsenvironmental.com	Analysis Request		
Invoice To:	Same as Report To ☒ YES ☐ NO	Invoice Distribution		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below		
	Copy of Invoice with Report ☒ YES ☐ NO	Select Invoice Distribution:	☐ EMAIL ☐ MAIL ☐ FAX			
Company:		Email 1 or Fax:				
Contact:		Email 2:				
Project Information		Oil and Gas Required Fields (client use)		NUMBER OF CONTAINERS		
ALS Account # / Quote #:	Q 78169	AFE/Cost Center:	PO#			
Job #:	G2S204458	Major/Minor Code:	Routing Code:			
PO / AFE:	123 Louisa St. W. 125 Arthur St. W. & Vancian Lane	Requisitioner:				
LSD:		Location:		SAMPLES ON HOLD		
ALS Lab Work Order # (lab use only): L2480011		ALS Contact:	Amanda F.			
		Sampler:	Rachael			
ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	SUSPECTED HAZARD (see Special Instructions)	
	TP1-SSI	24-Jul-20	10:00	SOIL		
	TP2-SSI		10:15			
	TP3-SSI		10:45			
	TP4-SSI		11:00			
	TP5-SSI		11:20			
	TP6-SSI		11:25			
	TP7-SSI		11:45			
	TP8-SSI		12:00			
	TP9-SSI		12:20			
	TP10-SSI		12:40			
	TP11-SSI		12:50			
	TP12-SSI		1:05			
Drinking Water (DW) Samples (client use)		Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)		SAMPLE CONDITION AS RECEIVED (lab use only)		
Are samples taken from a Regulated DW System?		Please compare to Table 2 Residential. Thanks.		Frozen ☐ SIF Observations Yes ☐ No ☐		
Are samples for human consumption/ use?				Ice Packs ☐ Ice Cubes ☒ Custody seal intact Yes ☐ No ☐		
				Cooling Initiated ☐		
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)		FINAL SHIPMENT RECEPTION (lab use only)		
Date:	July 27/20	Time:	9:39	Date:	07/27/20	
Received by:		Date:		Received by:	DB	
		Time:		Date:	07/27/20	
				Time:	14:35	

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JUNE 2018 FRONT



Chain of Custody (COC) / Analytical Request Form

Canada Toll Free: 1 800 668 9878

www.alsglobal.com



COC Number: 17 - 796703

Page 2 of 2

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Report To		Report Format / I		Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)											
Company: <u>G2S Environmental Consulting</u>		Select Report Format: ☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)		Regular [R] ☒ Standard TAT if received by 3 pm - business days - no surcharges apply											
Contact: <u>Rachael Lesmeister</u>		Quality Control (QC) Report with Report ☒ YES ☐ NO		4 day [P4-20%] ☐ 1 Business day [E - 100%] ☐											
Phone: <u>416-275-3954</u>		☐ Compare Results to Criteria on Report - provide details below if box checked		3 day [P3-25%] ☐ Same Day, Weekend or Statutory holiday [E2 - 200% (Laboratory opening fees may apply)] ☐											
Company address below will appear on the final report		Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		2 day [P2-50%] ☐											
Street: <u>37 Sandilfor Dr. Suite 411</u>		Email 1 or Fax: <u>jacksy@g2senviro.com</u>		Data and Time Required for all E&P TATs: dd-mmm-yy hh:mm											
City/Province: <u>Stouffville, ON</u>		Email 2: <u>amanda</u>		For tests that can not be performed according to the service level selected, you will be contacted.											
Postal Code: <u>L4A 3Z2</u>		Email 3: <u>rachaela</u>		Analysis Request											
Invoice To: Same as Report To ☒ YES ☐ NO		Invoice Distribution		NUMBER OF CONTAINERS		SAMPLES ON HOLD		SUSPECTED HAZARD (see Special Instructions)							
Copy of Invoice with Report ☒ YES ☐ NO		Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX													
Company:		Email 1 or Fax:													
Contact:		Email 2:													
Project Information		Oil and Gas Required Fields (client use)		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below		Metals		OC Pesticides		Grain Size (PSA+/-) - Bulk		pH			
ALS Account # / Quote #: <u>Q 78169</u>		AFE/Cost Center: PO#													
Job #: <u>G2S204458</u>		Major/Minor Code: Routing Code:													
PO / AFE: <u>123 Louisa St W, 125 Arthur St W + Vancourtlands</u>		Requisitioner:													
LSD:		Location:													
ALS Lab Work Order # (lab use only): <u>L2480011</u>		ALS Contact: <u>Amanda F.</u>		Sampler: <u>Rachael</u>											
ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type											
	TP13-SSI	24 Jul-20	1:20	SOIL	1	X									
	TP14-SSI	↓	1:35	↓	1	X	X								
	TP15-SSI	↓	1:45	↓	1	X									
	TP3-SS2	↓	10:45	↓	1		X	X							
	TP10-SS2	↓	12:40	↓	1		X	X							
Drinking Water (DW) Samples ¹ (client use)		Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)		SAMPLE CONDITION AS RECEIVED (lab use only)		Frozen ☐ SIF Observations Yes ☐ No ☐		Ice Packs ☐ Ice Cubes ☒ Custody seal intact Yes ☐ No ☐		Cooling Initiated ☐		INITIAL COOLER TEMPERATURES °C		FINAL COOLER TEMPERATURES °C	
Are samples taken from a Regulated DW System? ☐ YES ☐ NO		Please compare to Table 2 Residential Thanks.										2.1			
Are samples for human consumption/ use? ☐ YES ☐ NO															
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)		FINAL SHIPMENT RECEPTION (lab use only)											
Date: <u>July 27/20</u> Time: <u>9:39</u>		Received by: <u>DB</u> Date: <u>07/27/20</u> Time: <u>14:35</u>		Received by: <u>DB</u> Date: <u>07/27/20</u> Time: <u>14:35</u>											

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

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JUNE 2018 PRINT

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.



G2S ENVIRONMENTAL CONSULTING, INC.
ATTN: Rachael Lesmeister
37 Sandiford Dr
Suite 511
Stouffville ON L4A 3Z2

Date Received: 13-AUG-20
Report Date: 21-AUG-20 09:53 (MT)
Version: FINAL

Client Phone: 905-766-4054

Certificate of Analysis

Lab Work Order #: L2488574

Project P.O. #: 123 LOUISA ST. W, 125 ARTHUR STREET W, &
VACANT LANDS

Job Reference: G2S20445B

C of C Numbers: 17-731962

Legal Site Desc:


Amanda Overholster
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ADDRESS: 95 West Beaver Creek Road, Unit 1, Richmond Hill, ON L4B 1H2 Canada | Phone: +1 905 881 9887 | Fax: +1 905 881 8062
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ANALYTICAL REPORT

Summary of Guideline Exceedances

Guideline		Grouping	Analyte	Result	Guideline Limit	Unit
ALS ID	Client ID					
Ontario Regulation 153/04 - April 15, 2011 Standards - T2-Soil-Res/Park/Inst. Property Use (Coarse)						
L2488574-2	TP2-SS2	Organochlorine Pesticides	Total DDE	0.697	0.26	ug/g
L2488574-3	TP8-SS2	Organochlorine Pesticides	Total DDE	1.33	0.26	ug/g
L2488574-4	TP9-SS2	Organochlorine Pesticides	Total DDE	0.279	0.26	ug/g
L2488574-5	TP10-SS2	Organochlorine Pesticides	Total DDE	1.67	0.26	ug/g
L2488574-7	TP12-SS2	Organochlorine Pesticides	Total DDE	0.398	0.26	ug/g
L2488574-8	TP14-SS2	Metals	Arsenic (As)	28.8	18	ug/g
		Organochlorine Pesticides	Total DDE	4.56	0.26	ug/g
Ontario Regulation 153/04 - April 15, 2011 Standards - T2-Soil-Res/Park/Inst. Property Use (Fine)						
L2488574-2	TP2-SS2	Organochlorine Pesticides	Total DDE	0.697	0.33	ug/g
L2488574-3	TP8-SS2	Organochlorine Pesticides	Total DDE	1.33	0.33	ug/g
L2488574-5	TP10-SS2	Organochlorine Pesticides	Total DDE	1.67	0.33	ug/g
L2488574-7	TP12-SS2	Organochlorine Pesticides	Total DDE	0.398	0.33	ug/g
L2488574-8	TP14-SS2	Metals	Arsenic (As)	28.8	18	ug/g
		Organochlorine Pesticides	Total DDE	4.56	0.33	ug/g



ANALYTICAL REPORT

Physical Tests - SOIL

Hydrocarbon Tests - SS12											
Analyte	Unit	Lab ID	L2488574-1	L2488574-2	L2488574-3	L2488574-4	L2488574-5	L2488574-7	L2488574-8		
		Sample Date	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	
		Sample ID	TP1-SS2	TP2-SS2	TP8-SS2	TP9-SS2	TP10-SS2	TP12-SS2	TP14-SS2		
		Guide Limits									
		#1	#2								
% Moisture	%	-	-	20.8	16.6	14.6	22.4	17.8	9.86	15.4	

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)

 Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

Metals - SOIL

Metadata - CONT						
Analyte	Unit	Guide Limits				
		Lab ID	L2488574-5	L2488574-6	L2488574-8	
		Sample Date	24-JUL-20	24-JUL-20	24-JUL-20	
		Sample ID	TP10-SS2	TP11-SS2	TP14-SS2	

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)

 Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

Organochlorine Pesticides - SOIL

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	L2488574-1	L2488574-2	L2488574-3	L2488574-4	L2488574-5	L2488574-7	L2488574-8
		#1	#2				24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20	24-JUL-20
							TP1-SS2	TP2-SS2	TP8-SS2	TP9-SS2	TP10-SS2	TP12-SS2	TP14-SS2
Aldrin	ug/g	0.05	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
gamma-hexachlorocyclohexane	ug/g	0.056	0.063	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
a-chlordane	ug/g	-	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chlordane (Total)	ug/g	0.05	0.05	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
g-chlordane	ug/g	-	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
op-DDD	ug/g	-	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
pp-DDD	ug/g	-	-	<0.020	<0.020	0.055	<0.020	0.050	<0.020	0.128			
Total DDD	ug/g	3.3	3.3	<0.028	<0.028	0.055	<0.028	0.050	<0.028	0.128			
o,p-DDE	ug/g	-	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
pp-DDE	ug/g	-	-	0.231	0.697	1.33	0.279	1.67	0.398	4.56			
Total DDE	ug/g	0.26	0.33	0.231	0.697	1.33	0.279	1.67	0.398	4.56			
op-DDT	ug/g	-	-	<0.020	<0.020	0.030	<0.020	<0.020	<0.020	0.032			
pp-DDT	ug/g	-	-	0.041	0.119	0.339	0.041	0.132	0.023	0.343			
Total DDT	ug/g	1.4	1.4	0.041	0.119	0.369	0.041	0.132	<0.028	0.375			
Dieldrin	ug/g	0.05	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Endosulfan I	ug/g	-	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Endosulfan II	ug/g	-	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Endosulfan (Total)	ug/g	0.04	0.04	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Endrin	ug/g	0.04	0.04	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Heptachlor	ug/g	0.15	0.15	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Heptachlor Epoxide	ug/g	0.05	0.05	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Hexachlorobenzene	ug/g	0.52	0.52	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachlorobutadiene	ug/g	0.012	0.014	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachloroethane	ug/g	0.089	0.07	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Methoxychlor	ug/g	0.13	0.13	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Surrogate: 2-Fluorobiphenyl	%	-	-	90.5	81.8	85.2	80.5	79.2	79.2	92.0			
Surrogate: d14-Terphenyl	%	-	-	92.6	96.6	90.0	82.0	101.0	84.8	110.5			

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

Reference Information

L2488574 CONT'D....
 Job Reference: G2S20445B
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Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
CHLORDANE-T-CALC-WT	Soil	Chlordane Total sums	CALCULATION
Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.			
DDD-DDE-DDT-CALC-WT	Soil	DDD, DDE, DDT sums	CALCULATION
Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.			
ENDOSULFAN-T-CALC-WT	Soil	Endosulfan Total sums	CALCULATION
Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.			
MET-200.2-CCMS-WT	Soil	Metals in Soil by CRC ICPMS	EPA 200.2/6020B (mod)
Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.			
Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H ₂ S) may be excluded if lost during sampling, storage, or digestion.			
Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).			
MOISTURE-WT	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)
PEST-OC-511-WT	Soil	OC Pesticides-O.Reg 153/04 (July 2011)	SW846 8270 (511)
Soil sample is extracted in a solvent, after extraction a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.			
Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).			

**ALS test methods may incorporate modifications from specified reference methods to improve performance.

Chain of Custody Numbers:

17-731962

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Reference Information

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GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg ww - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.



Quality Control Report

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Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT		Soil						
Batch	R5191695							
WG3386255-2	CRM	WT-SS-2						
Arsenic (As)			96.7		%		70-130	19-AUG-20
WG3386255-4	DUP	L2489189-4						
Arsenic (As)		2.3	2.4		ug/g	3.5	30	19-AUG-20
WG3386255-3	LCS							
Arsenic (As)			99.2		%		80-120	19-AUG-20
WG3386255-1	MB							
Arsenic (As)			<0.10		mg/kg		0.1	19-AUG-20
Batch	R5192221							
WG3386250-2	CRM	WT-SS-2						
Arsenic (As)			95.7		%		70-130	19-AUG-20
WG3386250-4	DUP	L2488404-5						
Arsenic (As)		5.84	6.08		ug/g	4.1	30	19-AUG-20
WG3386250-3	LCS							
Arsenic (As)			97.1		%		80-120	19-AUG-20
WG3386250-1	MB							
Arsenic (As)			<0.10		mg/kg		0.1	19-AUG-20
MOISTURE-WT		Soil						
Batch	R5190468							
WG3384635-3	DUP	L2488404-1						
% Moisture		24.2	23.7		%	2.1	20	17-AUG-20
WG3384635-2	LCS							
% Moisture			103.0		%		90-110	17-AUG-20
WG3384635-1	MB							
% Moisture			<0.25		%		0.25	17-AUG-20
Batch	R5191311							
WG3386105-3	DUP	L2489453-14						
% Moisture		5.41	5.61		%	3.6	20	19-AUG-20
WG3386105-2	LCS							
% Moisture			101.1		%		90-110	19-AUG-20
WG3386105-1	MB							
% Moisture			<0.25		%		0.25	19-AUG-20
PEST-OC-511-WT		Soil						
Batch	R5191728							
WG3383780-3	DUP	WG3383780-5						
Aldrin		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-AUG-20
a-chlordane		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-AUG-20



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Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT		Soil						
Batch	R5191728							
WG3383780-3	DUP	WG3383780-5						
g-chlordane		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-AUG-20
op-DDD		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-AUG-20
pp-DDD		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-AUG-20
o,p-DDE		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-AUG-20
pp-DDE		0.398	0.409		ug/g	2.8	40	19-AUG-20
op-DDT		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-AUG-20
pp-DDT		0.023	0.024		ug/g	4.6	40	19-AUG-20
Dieldrin		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-AUG-20
Endosulfan I		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-AUG-20
Endosulfan II		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-AUG-20
Endrin		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-AUG-20
gamma-hexachlorocyclohexane		<0.010	<0.010	RPD-NA	ug/g	N/A	40	19-AUG-20
Heptachlor		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-AUG-20
Heptachlor Epoxide		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-AUG-20
Hexachlorobenzene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	19-AUG-20
Hexachlorobutadiene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	19-AUG-20
Hexachloroethane		<0.010	<0.010	RPD-NA	ug/g	N/A	40	19-AUG-20
Methoxychlor		<0.020	<0.020	RPD-NA	ug/g	N/A	40	19-AUG-20
WG3383780-2	LCS							
Aldrin			90.0		%		50-140	19-AUG-20
a-chlordane			112.6		%		50-140	19-AUG-20
g-chlordane			115.1		%		50-140	19-AUG-20
op-DDD			99.5		%		50-140	19-AUG-20
pp-DDD			90.2		%		50-140	19-AUG-20
o,p-DDE			108.7		%		50-140	19-AUG-20
pp-DDE			99.6		%		50-140	19-AUG-20
op-DDT			90.9		%		50-140	19-AUG-20
pp-DDT			81.3		%		50-140	19-AUG-20
Dieldrin			108.9		%		50-140	19-AUG-20
Endosulfan I			104.9		%		50-140	19-AUG-20
Endosulfan II			91.4		%		50-140	19-AUG-20
Endrin			116.3		%		50-140	19-AUG-20
gamma-hexachlorocyclohexane			78.9		%		50-140	19-AUG-20



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Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT		Soil						
Batch	R5191728							
WG3383780-2	LCS							
Heptachlor			77.2		%		50-140	19-AUG-20
Heptachlor Epoxide			114.9		%		50-140	19-AUG-20
Hexachlorobenzene			83.0		%		50-140	19-AUG-20
Hexachlorobutadiene			85.5		%		50-140	19-AUG-20
Hexachloroethane			95.5		%		50-140	19-AUG-20
Methoxychlor			79.7		%		50-140	19-AUG-20
WG3383780-1	MB							
Aldrin			<0.020		ug/g		0.02	19-AUG-20
a-chlordane			<0.020		ug/g		0.02	19-AUG-20
g-chlordane			<0.020		ug/g		0.02	19-AUG-20
op-DDD			<0.020		ug/g		0.02	19-AUG-20
pp-DDD			<0.020		ug/g		0.02	19-AUG-20
o,p-DDE			<0.020		ug/g		0.02	19-AUG-20
pp-DDE			<0.020		ug/g		0.02	19-AUG-20
op-DDT			<0.020		ug/g		0.02	19-AUG-20
pp-DDT			<0.020		ug/g		0.02	19-AUG-20
Dieldrin			<0.020		ug/g		0.02	19-AUG-20
Endosulfan I			<0.020		ug/g		0.02	19-AUG-20
Endosulfan II			<0.020		ug/g		0.02	19-AUG-20
Endrin			<0.020		ug/g		0.02	19-AUG-20
gamma-hexachlorocyclohexane			<0.010		ug/g		0.01	19-AUG-20
Heptachlor			<0.020		ug/g		0.02	19-AUG-20
Heptachlor Epoxide			<0.020		ug/g		0.02	19-AUG-20
Hexachlorobenzene			<0.010		ug/g		0.01	19-AUG-20
Hexachlorobutadiene			<0.010		ug/g		0.01	19-AUG-20
Hexachloroethane			<0.010		ug/g		0.01	19-AUG-20
Methoxychlor			<0.020		ug/g		0.02	19-AUG-20
Surrogate: 2-Fluorobiphenyl			94.1		%		50-140	19-AUG-20
Surrogate: d14-Terphenyl			96.5		%		50-140	19-AUG-20
WG3383780-4	MS	WG3383780-5						
Aldrin			109.1		%		50-140	19-AUG-20
a-chlordane			103.4		%		50-140	19-AUG-20
g-chlordane			106.0		%		50-140	19-AUG-20
op-DDD			93.1		%		50-140	19-AUG-20



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Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT		Soil						
Batch	R5191728							
WG3383780-4	MS	WG3383780-5						
pp-DDD			90.3		%		50-140	19-AUG-20
o,p-DDE			102.4		%		50-140	19-AUG-20
pp-DDE			N/A	MS-B	%		-	19-AUG-20
op-DDT			98.6		%		50-140	19-AUG-20
pp-DDT			100.5		%		50-140	19-AUG-20
Dieldrin			99.7		%		50-140	19-AUG-20
Endosulfan I			97.2		%		50-140	19-AUG-20
Endosulfan II			92.7		%		50-140	19-AUG-20
Endrin			125.2		%		50-140	19-AUG-20
gamma-hexachlorocyclohexane			90.5		%		50-140	19-AUG-20
Heptachlor			98.2		%		50-140	19-AUG-20
Heptachlor Epoxide			106.2		%		50-140	19-AUG-20
Hexachlorobenzene			95.3		%		50-140	19-AUG-20
Hexachlorobutadiene			97.3		%		50-140	19-AUG-20
Hexachloroethane			110.7		%		50-140	19-AUG-20
Methoxychlor			99.5		%		50-140	19-AUG-20
Batch	R5193059							
WG3385943-3	DUP	WG3385943-5						
Aldrin		<0.20	<0.20	RPD-NA	ug/g	N/A	40	20-AUG-20
a-chlordane		<0.20	<0.20	RPD-NA	ug/g	N/A	40	20-AUG-20
g-chlordane		<0.20	<0.20	RPD-NA	ug/g	N/A	40	20-AUG-20
op-DDD		<0.20	<0.20	RPD-NA	ug/g	N/A	40	20-AUG-20
pp-DDD		<0.20	<0.20	RPD-NA	ug/g	N/A	40	20-AUG-20
o,p-DDE		<0.20	<0.20	RPD-NA	ug/g	N/A	40	20-AUG-20
pp-DDE		<0.20	<0.20	RPD-NA	ug/g	N/A	40	20-AUG-20
op-DDT		<0.20	<0.20	RPD-NA	ug/g	N/A	40	20-AUG-20
pp-DDT		<0.20	<0.20	RPD-NA	ug/g	N/A	40	20-AUG-20
Dieldrin		<0.20	<0.20	RPD-NA	ug/g	N/A	40	20-AUG-20
Endosulfan I		<0.20	<0.20	RPD-NA	ug/g	N/A	40	20-AUG-20
Endosulfan II		<0.20	<0.20	RPD-NA	ug/g	N/A	40	20-AUG-20
Endrin		<0.20	<0.20	RPD-NA	ug/g	N/A	40	20-AUG-20
gamma-hexachlorocyclohexane		<0.10	<0.10	RPD-NA	ug/g	N/A	40	20-AUG-20
Heptachlor		<0.20	<0.20	RPD-NA	ug/g	N/A	40	20-AUG-20



Quality Control Report

Workorder: L2488574

Report Date: 21-AUG-20

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Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT		Soil						
Batch	R5193059							
WG3385943-3	DUP	WG3385943-5						
Heptachlor Epoxide		<0.20	<0.20	RPD-NA	ug/g	N/A	40	20-AUG-20
Hexachlorobenzene		<0.10	<0.10	RPD-NA	ug/g	N/A	40	20-AUG-20
Hexachlorobutadiene		<0.10	<0.10	RPD-NA	ug/g	N/A	40	20-AUG-20
Hexachloroethane		<0.10	<0.10	RPD-NA	ug/g	N/A	40	20-AUG-20
Methoxychlor		<0.20	<0.20	RPD-NA	ug/g	N/A	40	20-AUG-20
WG3385943-2	LCS							
Aldrin			110.0		%		50-140	20-AUG-20
a-chlordane			84.3		%		50-140	20-AUG-20
g-chlordane			85.5		%		50-140	20-AUG-20
op-DDD			86.1		%		50-140	20-AUG-20
pp-DDD			96.4		%		50-140	20-AUG-20
o,p-DDE			78.2		%		50-140	20-AUG-20
pp-DDE			72.9		%		50-140	20-AUG-20
op-DDT			103.1		%		50-140	20-AUG-20
pp-DDT			97.4		%		50-140	20-AUG-20
Dieldrin			126.2		%		50-140	20-AUG-20
Endosulfan I			85.0		%		50-140	20-AUG-20
Endosulfan II			80.1		%		50-140	20-AUG-20
Endrin			171.8	LCS-H	%		50-140	20-AUG-20
gamma-hexachlorocyclohexane			79.1		%		50-140	20-AUG-20
Heptachlor			107.6		%		50-140	20-AUG-20
Heptachlor Epoxide			95.0		%		50-140	20-AUG-20
Hexachlorobenzene			86.0		%		50-140	20-AUG-20
Hexachlorobutadiene			87.0		%		50-140	20-AUG-20
Hexachloroethane			94.1		%		50-140	20-AUG-20
Methoxychlor			154.6	LCS-H	%		50-140	20-AUG-20
WG3385943-1	MB							
Aldrin			<0.020		ug/g		0.02	20-AUG-20
a-chlordane			<0.020		ug/g		0.02	20-AUG-20
g-chlordane			<0.020		ug/g		0.02	20-AUG-20
op-DDD			<0.020		ug/g		0.02	20-AUG-20
pp-DDD			<0.020		ug/g		0.02	20-AUG-20
o,p-DDE			<0.020		ug/g		0.02	20-AUG-20
pp-DDE			<0.020		ug/g		0.02	20-AUG-20



Quality Control Report

Workorder: L2488574

Report Date: 21-AUG-20

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Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT		Soil						
Batch	R5193059							
WG3385943-1	MB							
op-DDT			<0.020		ug/g		0.02	20-AUG-20
pp-DDT			<0.020		ug/g		0.02	20-AUG-20
Dieldrin			<0.020		ug/g		0.02	20-AUG-20
Endosulfan I			<0.020		ug/g		0.02	20-AUG-20
Endosulfan II			<0.020		ug/g		0.02	20-AUG-20
Endrin			<0.020		ug/g		0.02	20-AUG-20
gamma-hexachlorocyclohexane			<0.010		ug/g		0.01	20-AUG-20
Heptachlor			<0.020		ug/g		0.02	20-AUG-20
Heptachlor Epoxide			<0.020		ug/g		0.02	20-AUG-20
Hexachlorobenzene			<0.010		ug/g		0.01	20-AUG-20
Hexachlorobutadiene			<0.010		ug/g		0.01	20-AUG-20
Hexachloroethane			<0.010		ug/g		0.01	20-AUG-20
Methoxychlor			<0.020		ug/g		0.02	20-AUG-20
Surrogate: 2-Fluorobiphenyl			84.9		%		50-140	20-AUG-20
Surrogate: d14-Terphenyl			91.1		%		50-140	20-AUG-20
WG3385943-4	MS	WG3385943-5						
Aldrin			83.3		%		50-140	20-AUG-20
a-chlordane			91.9		%		50-140	20-AUG-20
g-chlordane			99.0		%		50-140	20-AUG-20
op-DDD			94.0		%		50-140	20-AUG-20
pp-DDD			93.3		%		50-140	20-AUG-20
o,p-DDE			93.3		%		50-140	20-AUG-20
pp-DDE			84.9		%		50-140	20-AUG-20
op-DDT			69.0		%		50-140	20-AUG-20
pp-DDT			61.8		%		50-140	20-AUG-20
Dieldrin			82.0		%		50-140	20-AUG-20
Endosulfan I			55.4		%		50-140	20-AUG-20
Endosulfan II			60.5		%		50-140	20-AUG-20
Endrin			103.5		%		50-140	20-AUG-20
gamma-hexachlorocyclohexane			92.2		%		50-140	20-AUG-20
Heptachlor			80.3		%		50-140	20-AUG-20
Heptachlor Epoxide			97.7		%		50-140	20-AUG-20
Hexachlorobenzene			88.9		%		50-140	20-AUG-20
Hexachlorobutadiene			84.4		%		50-140	20-AUG-20



Quality Control Report

Workorder: L2488574

Report Date: 21-AUG-20

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Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT	Soil							
Batch	R5193059							
WG3385943-4	MS	WG3385943-5						
Hexachloroethane			91.9		%		50-140	20-AUG-20
Methoxychlor			70.2		%		50-140	20-AUG-20

Quality Control Report

Workorder: L2488574

Report Date: 21-AUG-20

Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Page 8 of 9

Contact: Rachael Lesmeister

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
LCS-H	Lab Control Sample recovery was above ALS DQO. Non-detected sample results are considered reliable. Other results, if reported, have been qualified.
MS-B	Matrix Spike recovery could not be accurately calculated due to high analyte background in sample.
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Quality Control Report

Workorder: L2488574

Report Date: 21-AUG-20

Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Page 9 of 9

Contact: Rachael Lesmeister

Hold Time Exceedances:

ALS Product Description	Sample ID	Sampling Date	Date Processed	Rec. HT	Actual HT	Units	Qualifier
Physical Tests							
% Moisture	1	24-JUL-20 10:00	17-AUG-20 08:17	14	24	days	EHTR
	2	24-JUL-20 10:15	17-AUG-20 08:18	14	24	days	EHTR
	3	24-JUL-20 12:00	19-AUG-20 20:58	14	26	days	EHTR
	4	24-JUL-20 12:20	17-AUG-20 08:19	14	24	days	EHTR
	5	24-JUL-20 12:40	17-AUG-20 08:20	14	24	days	EHTR
	7	24-JUL-20 13:05	17-AUG-20 08:21	14	24	days	EHTR
	8	24-JUL-20 13:35	17-AUG-20 08:22	14	24	days	EHTR

Legend & Qualifier Definitions:

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended.
EHTR: Exceeded ALS recommended hold time prior to sample receipt.
EHTL: Exceeded ALS recommended hold time prior to analysis. Sample was received less than 24 hours prior to expiry.
EHT: Exceeded ALS recommended hold time prior to analysis.
Rec. HT: ALS recommended hold time (see units).

Notes*:
Where actual sampling date is not provided to ALS, the date (& time) of receipt is used for calculation purposes.
Where actual sampling time is not provided to ALS, the earlier of 12 noon on the sampling date or the time (& date) of receipt is used for calculation purposes. Samples for L2488574 were received on 13-AUG-20 17:10.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.

Report To Company: <u>G2S Consulting Inc.</u> Contact: <u>Rachael Tesmeister</u> Phone: <u>416-275-3954</u> Street: <u>37 Sandford Dr. Suite 411</u> City/Province: <u>Stouffville ON</u> Postal Code: <u>L4A 3Z2</u> Invoice To: Same as Report To ☒ YES ☐ NO Copy of Invoice with Report ☒ YES ☐ NO Company: Contact: Project Information ALS Account # / Quote #: <u>Q 78169</u> Job #: <u>G2S204458</u> PO / AFE: <u>12360 W. 135A Arthur J. W. + Varant Lands</u> LSD: Lab Work Order # (lab use only): <u>LD488574 Aug 30</u>		Report Format / Distribution Select Report Format: ☒ PDF ☒ EXCEL ☐ EDD (DIGITAL) Quality Control (QC) Report with Report ☒ YES ☐ NO ☒ Compare Results to Criteria on Report - provide details below if box checked Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX Email 1 or Fax: <u>racys@g2sconsulting.com</u> Email 2: <u>rachaella@</u> Email 3: <u>dongha@</u> Invoice Distribution Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX Email 1 or Fax: Email 2: AFE/Cost Center: Major/Minor Code: Requisitioner: Location: ALS Contact: <u>Amanda F.</u> Sampler: <u>Rachael L.</u>		Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply) Regular (R) ☒ Standard TAT if received by 3 pm - business days - no surcharges apply Priority (Business Days) 4 day (P4-20%) ☐ 3 day (P3-25%) ☐ 2 day (P2-50%) ☐ Emergency 1 Business day (E-100%) Same Day, Weekend or Statutory holiday (E2-200% (Laboratory opening fees may apply)) ☐ Date and Time Required for all E&P TATs: For tests that cannot be performed according to the service level selected, you will be contacted. Analysis Request Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below SAMPLES ON HOLD Sample is hazardous (please provide further details) NUMBER OF CONTAINERS	
Drinking Water (DW) Samples (client use) Are samples taken from a Regulated DW System? ☐ YES ☐ NO Are samples for human consumption/ use? ☐ YES ☐ NO		Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only) <u>Please compare to Table 2 Residential</u> <u>Thanks!</u>		SAMPLE CONDITION AS RECEIVED (lab use only) Frozen ☐ SIF Observations Yes ☐ No ☐ Ice Packs ☐ Ice Cubes ☒ Custody seal intact Yes ☐ No ☐ Cooling Initiated ☐ INITIAL COOLER TEMPERATURES °C FINAL COOLER TEMPERATURES °C <u>4.6°</u>	
SHIPMENT RELEASE (client use) Date: <u>Aug 13/20</u> Time: <u>2:06</u>		INITIAL SHIPMENT RECEPTION (lab use only) Received by: _____ Date: _____		FINAL SHIPMENT RECEPTION (lab use only) Received by: <u>[Signature]</u> Date: <u>Aug 13</u> Time: <u>17:10</u>	

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JULY 2017 1809

SIF



G2S ENVIRONMENTAL CONSULTING, INC.
ATTN: Rachael Lesmeister
37 Sandiford Dr
Suite 511
Stouffville ON L4A 3Z2

Date Received: 15-SEP-20
Report Date: 23-SEP-20 14:31 (MT)
Version: FINAL

Client Phone: 905-766-4054

Certificate of Analysis

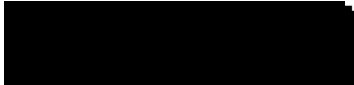
Lab Work Order #: L2503013

Project P.O. #: 123 LOUISA ST. W, 125 ARTHUR ST. W+ VANCANT
LANDS

Job Reference: G2S20445B

C of C Numbers: 17-797274, 17-797282

Legal Site Desc:


Amanda Overholster
Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

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ANALYTICAL REPORT

Summary of Guideline Exceedances

Guideline		Client ID	Grouping	Analyte	Result	Guideline Limit	Unit
ALS ID							
Ontario Regulation 153/04 - April 15, 2011 Standards - T2-Soil-Res/Park/Inst. Property Use (Coarse)							
L2503013-14	BH108 SS1		Organochlorine Pesticides	Total DDE	5.43	0.26	ug/g
L2503013-16	BH109 SS1		Organochlorine Pesticides	Total DDE	0.865	0.26	ug/g
L2503013-17	BH109 SS2		Metals	Arsenic (As)	29.5	18	ug/g
Ontario Regulation 153/04 - April 15, 2011 Standards - T2-Soil-Res/Park/Inst. Property Use (Fine)							
L2503013-14	BH108 SS1		Organochlorine Pesticides	Total DDE	5.43	0.33	ug/g
L2503013-16	BH109 SS1		Organochlorine Pesticides	Total DDE	0.865	0.33	ug/g
L2503013-17	BH109 SS2		Metals	Arsenic (As)	29.5	18	ug/g



ANALYTICAL REPORT

Physical Tests - SOIL

		Lab ID	L2503013-1	L2503013-2	L2503013-3	L2503013-4	L2503013-5	L2503013-6	L2503013-7	L2503013-8	L2503013-9	
		Sample Date	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	
		Sample ID	BH101 SS1	BH101 SS2	BH102 SS3	BH103 SS1	BH103 SS2	BH104 SS1	BH104 SS2	BH105 SS2	BH105 SS3	
Analyte	Unit	Guide Limits										
		#1	#2									
% Moisture	%	-	-	17.4	16.4	13.5	38.0	15.5	17.9	16.3	12.0	16.8

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)
Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

Physical Tests - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2503013-10	L2503013-11	L2503013-12	L2503013-13	L2503013-14	L2503013-15	L2503013-16	L2503013-17	L2503013-18
		#1	#2	Sample Date	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20
				Sample ID	BH106 SS2	BH106 SS3	BH107 SS1	BH107 SS2	BH108 SS1	BH108 SS2	BH109 SS1	BH109 SS2	BH110 SS1
% Moisture	%	-	-		14.4	11.2	21.8	15.3	22.0	17.3	15.2	16.6	24.4

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)
Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

Physical Tests - SOIL

Lab ID L2503013-19
Sample Date 14-SEP-20
Sample ID BH110 SS2

Guide Limits
Unit **#1** **#2**

Analyte

Analyte	Unit	#1	#2	
% Moisture	%	-	-	13.1

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)

 Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

Metals - SOIL

Metal Data															
Analyte	Unit	Lab ID	Sample Date	Sample ID	L2503013-1	L2503013-2	L2503013-3	L2503013-4	L2503013-5	L2503013-6	L2503013-7	L2503013-8	L2503013-9		
					14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20
					BH101 SS1	BH101 SS2	BH102 SS3	BH103 SS1	BH103 SS2	BH104 SS1	BH104 SS2	BH105 SS2	BH105 SS3		
Guide Limits		#1	#2												
Arsenic (As)	ug/g	18	18	6.21	4.21	4.84	8.89	2.84	6.24	6.25	6.80	4.80			

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)

Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

Metals - SOIL

Analyte	Unit	Guide Limits		Lab ID								
		#1	#2	Sample Date								
				Sample ID								
Arsenic (As)	ug/g	18	18	3.36	3.26	4.10	3.35	8.13	4.50	15.0	29.5	5.24

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)
Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)
Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.
Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

Metals - SOIL

Lab ID L2503013-19
Sample Date 14-SEP-20
Sample ID BH110 SS2

Guide Limits
#1 #2

Analyte

Unit

Analyte	Unit	#1	#2	
Arsenic (As)	ug/g	18	18	4.69

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)

 Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

Organochlorine Pesticides - SOIL

Analyte	Unit	Guide Limits		Lab ID	L2503013-1	L2503013-2	L2503013-3	L2503013-4	L2503013-5	L2503013-6	L2503013-7	L2503013-8	L2503013-9
		#1	#2	Sample Date	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20
				Sample ID	BH101 SS1	BH101 SS2	BH102 SS3	BH103 SS1	BH103 SS2	BH104 SS1	BH104 SS2	BH105 SS2	BH105 SS3
Aldrin	ug/g	0.05	0.05		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
gamma-hexachlorocyclohexane	ug/g	0.056	0.063		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
a-chlordane	ug/g	-	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chlordane (Total)	ug/g	0.05	0.05		<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
g-chlordane	ug/g	-	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
op-DDD	ug/g	-	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
pp-DDD	ug/g	-	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Total DDD	ug/g	3.3	3.3		<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
o,p-DDE	ug/g	-	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
pp-DDE	ug/g	-	-		0.026	<0.020	<0.020	0.174	<0.020	0.089	<0.020	0.155	<0.020
Total DDE	ug/g	0.26	0.33		<0.028	<0.028	<0.028	0.174	<0.028	0.089	<0.028	0.155	<0.028
op-DDT	ug/g	-	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
pp-DDT	ug/g	-	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.022	<0.020
Total DDT	ug/g	1.4	1.4		<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Dieldrin	ug/g	0.05	0.05		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Endosulfan I	ug/g	-	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Endosulfan II	ug/g	-	-		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Endosulfan (Total)	ug/g	0.04	0.04		<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Endrin	ug/g	0.04	0.04		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Heptachlor	ug/g	0.15	0.15		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Heptachlor Epoxide	ug/g	0.05	0.05		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Hexachlorobenzene	ug/g	0.52	0.52		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachlorobutadiene	ug/g	0.012	0.014		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachloroethane	ug/g	0.089	0.07		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Methoxychlor	ug/g	0.13	0.13		<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Surrogate: 2-Fluorobiphenyl	%	-	-		71.2	71.6	71.7	67.6	67.0	70.4	67.5	70.5	68.0
Surrogate: d14-Terphenyl	%	-	-		75.7	75.5	71.8	63.2	66.4	59.5	52.2	60.3	61.4

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)

 Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

Organochlorine Pesticides - SOIL

Analyte	Unit	Guide Limits		Lab ID	Sample Date	Sample ID	L2503013-10	L2503013-11	L2503013-12	L2503013-13	L2503013-14	L2503013-15	L2503013-16	L2503013-17	L2503013-18
		#1	#2				14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20	14-SEP-20
				BH106 SS2	BH106 SS3	BH107 SS1	BH107 SS2	BH108 SS1	BH108 SS2	BH109 SS1	BH109 SS2	BH110 SS1			
Aldrin	ug/g	0.05	0.05				<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
gamma-hexachlorocyclohexane	ug/g	0.056	0.063				<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
a-chlordane	ug/g	-	-				<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Chlordane (Total)	ug/g	0.05	0.05				<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
g-chlordane	ug/g	-	-				<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
op-DDD	ug/g	-	-				<0.020	<0.020	<0.020	<0.020	0.022	<0.020	<0.020	<0.020	<0.020
pp-DDD	ug/g	-	-				<0.020	<0.020	<0.020	<0.020	0.090	<0.020	<0.020	<0.020	<0.020
Total DDD	ug/g	3.3	3.3				<0.028	<0.028	<0.028	<0.028	0.112	<0.028	<0.028	<0.028	<0.028
o,p-DDE	ug/g	-	-				<0.020	<0.020	<0.020	<0.020	0.028	<0.020	<0.020	<0.020	<0.020
pp-DDE	ug/g	-	-				<0.020	<0.020	0.061	<0.020	5.40	0.045	0.865	<0.020	0.031
Total DDE	ug/g	0.26	0.33				<0.028	<0.028	0.061	<0.028	5.43	0.045	0.865	<0.028	0.031
op-DDT	ug/g	-	-				<0.020	<0.020	<0.020	<0.020	0.142	<0.020	<0.020	<0.020	<0.020
pp-DDT	ug/g	-	-				<0.020	<0.020	<0.020	<0.020	0.666	<0.020	0.085	<0.020	<0.020
Total DDT	ug/g	1.4	1.4				<0.028	<0.028	<0.028	<0.028	0.807	<0.028	0.085	<0.028	<0.028
Dieldrin	ug/g	0.05	0.05				<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Endosulfan I	ug/g	-	-				<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Endosulfan II	ug/g	-	-				<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Endosulfan (Total)	ug/g	0.04	0.04				<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028
Endrin	ug/g	0.04	0.04				<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Heptachlor	ug/g	0.15	0.15				<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Heptachlor Epoxide	ug/g	0.05	0.05				<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Hexachlorobenzene	ug/g	0.52	0.52				<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachlorobutadiene	ug/g	0.012	0.014				<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Hexachloroethane	ug/g	0.089	0.07				<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Methoxychlor	ug/g	0.13	0.13				<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Surrogate: 2-Fluorobiphenyl	%	-	-				73.1	70.4	74.4	65.0	66.7	66.0	64.7	70.7	68.6
Surrogate: d14-Terphenyl	%	-	-				66.9	65.8	68.7	56.0	65.5	66.5	60.4	69.8	61.9

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)

 Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.



ANALYTICAL REPORT

Organochlorine Pesticides - SOIL

		Lab ID	L2503013-19	
		Sample Date	14-SEP-20	
		Sample ID	BH110 SS2	
Analyte	Unit	Guide Limits		
		#1	#2	
Aldrin	ug/g	0.05	0.05	<0.020
gamma-hexachlorocyclohexane	ug/g	0.056	0.063	<0.010
a-chlordane	ug/g	-	-	<0.020
Chlordane (Total)	ug/g	0.05	0.05	<0.028
g-chlordane	ug/g	-	-	<0.020
op-DDD	ug/g	-	-	<0.020
pp-DDD	ug/g	-	-	<0.020
Total DDD	ug/g	3.3	3.3	<0.028
o,p-DDE	ug/g	-	-	<0.020
pp-DDE	ug/g	-	-	<0.020
Total DDE	ug/g	0.26	0.33	<0.028
op-DDT	ug/g	-	-	<0.020
pp-DDT	ug/g	-	-	<0.020
Total DDT	ug/g	1.4	1.4	<0.028
Dieldrin	ug/g	0.05	0.05	<0.020
Endosulfan I	ug/g	-	-	<0.020
Endosulfan II	ug/g	-	-	<0.020
Endosulfan (Total)	ug/g	0.04	0.04	<0.028
Endrin	ug/g	0.04	0.04	<0.020
Heptachlor	ug/g	0.15	0.15	<0.020
Heptachlor Epoxide	ug/g	0.05	0.05	<0.020
Hexachlorobenzene	ug/g	0.52	0.52	<0.010
Hexachlorobutadiene	ug/g	0.012	0.014	<0.010
Hexachloroethane	ug/g	0.089	0.07	<0.010
Methoxychlor	ug/g	0.13	0.13	<0.020
Surrogate: 2-Fluorobiphenyl	%	-	-	71.0
Surrogate: d14-Terphenyl	%	-	-	73.8

Guide Limit #1: T2-Soil-Res/Park/Inst. Property Use (Coarse)

Guide Limit #2: T2-Soil-Res/Park/Inst. Property Use (Fine)

 Detection Limit for result exceeds Guideline Limit. Assessment against Guideline Limit cannot be made.

 Analytical result for this parameter exceeds Guide Limits listed. See Summary of Guideline Exceedances.

Reference Information

L2503013 CONT'D....
Job Reference: G2S20445B
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Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Method Reference**
CHLORDANE-T-CALC-WT	Soil	Chlordane Total sums	CALCULATION
Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.			
DDD-DDE-DDT-CALC-WT	Soil	DDD, DDE, DDT sums	CALCULATION
Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.			
ENDOSULFAN-T-CALC-WT	Soil	Endosulfan Total sums	CALCULATION
Aqueous sample is extracted by liquid/liquid extraction with a solvent mix. After extraction, a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.			
MET-200.2-CCMS-WT	Soil	Metals in Soil by CRC ICPMS	EPA 200.2/6020B (mod)
Soil/sediment is dried, disaggregated, and sieved (2 mm). For tests intended to support Ontario regulations, the <2mm fraction is ground to pass through a 0.355 mm sieve. Strong Acid Leachable Metals in the <2mm fraction are solubilized by heated digestion with nitric and hydrochloric acids. Instrumental analysis is by Collision / Reaction Cell ICPMS.			
Limitations: This method is intended to liberate environmentally available metals. Silicate minerals are not solubilized. Some metals may be only partially recovered (matrix dependent), including Al, Ba, Be, Cr, S, Sr, Ti, Tl, V, W, and Zr. Elemental Sulfur may be poorly recovered by this method. Volatile forms of sulfur (e.g. sulfide, H2S) may be excluded if lost during sampling, storage, or digestion.			
Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).			
MOISTURE-WT	Soil	% Moisture	CCME PHC in Soil - Tier 1 (mod)
PEST-OC-511-WT	Soil	OC Pesticides-O.Reg 153/04 (July 2011)	SW846 8270 (511)
Soil sample is extracted in a solvent, after extraction a number of clean up techniques may be applied, depending on the sample matrix and analyzed by GC/MS.			
Analysis conducted in accordance with the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act (July 1, 2011), unless a subset of the Analytical Test Group (ATG) has been requested (the Protocol states that all analytes in an ATG must be reported).			
**ALS test methods may incorporate modifications from specified reference methods to improve performance.			
Chain of Custody Numbers:			
17-797274	17-797282		
The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:			
Laboratory Definition Code	Laboratory Location		
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA		

Reference Information

L2503013 CONT'D....
Job Reference: G2S20445B
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GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg ww - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guideline limits are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.



Quality Control Report

Workorder: L2503013

Report Date: 23-SEP-20

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Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MET-200.2-CCMS-WT		Soil						
Batch	R5228823							
WG3407107-2	CRM	WT-SS-2						
Arsenic (As)			98.4		%		70-130	18-SEP-20
WG3407107-6	DUP	WG3407107-5						
Arsenic (As)		3.26	3.37		ug/g	3.2	30	18-SEP-20
WG3407107-4	LCS							
Arsenic (As)			98.0		%		80-120	18-SEP-20
WG3407107-1	MB							
Arsenic (As)			<0.10		mg/kg		0.1	18-SEP-20
Batch	R5231222							
WG3407115-2	CRM	WT-SS-2						
Arsenic (As)			102.7		%		70-130	18-SEP-20
WG3407115-4	DUP	L2503335-3						
Arsenic (As)		2.1	2.0		ug/g	4.5	30	18-SEP-20
WG3407115-3	LCS							
Arsenic (As)			102.6		%		80-120	18-SEP-20
WG3407115-1	MB							
Arsenic (As)			<0.10		mg/kg		0.1	18-SEP-20
Batch	R5231224							
WG3406688-2	CRM	WT-SS-2						
Arsenic (As)			98.1		%		70-130	18-SEP-20
WG3406688-6	DUP	WG3406688-5						
Arsenic (As)		2.01	2.01		ug/g	0.4	30	18-SEP-20
WG3406688-4	LCS							
Arsenic (As)			97.5		%		80-120	18-SEP-20
WG3406688-1	MB							
Arsenic (As)			<0.10		mg/kg		0.1	18-SEP-20
MOISTURE-WT		Soil						
Batch	R5225168							
WG3405813-3	DUP	L2495520-21						
% Moisture		2.84	2.68		%	5.7	20	17-SEP-20
WG3405813-2	LCS							
% Moisture			99.7		%		90-110	17-SEP-20
WG3405813-1	MB							
% Moisture			<0.25		%		0.25	17-SEP-20
Batch	R5225178							
WG3405996-3	DUP	L2503346-11						
% Moisture		14.7	14.8		%	0.3	20	17-SEP-20
WG3405996-2	LCS							



Quality Control Report

Workorder: L2503013

Report Date: 23-SEP-20

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Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
MOISTURE-WT		Soil						
Batch	R5225178							
WG3405996-2	LCS							
% Moisture			100.6		%		90-110	17-SEP-20
WG3405996-1	MB							
% Moisture			<0.25		%		0.25	17-SEP-20
PEST-OC-511-WT		Soil						
Batch	R5229098							
WG3405885-3	DUP	WG3405885-5						
Aldrin		<0.020	<0.020	RPD-NA	ug/g	N/A	40	18-SEP-20
a-chlordane		<0.020	<0.020	RPD-NA	ug/g	N/A	40	18-SEP-20
g-chlordane		<0.020	<0.020	RPD-NA	ug/g	N/A	40	18-SEP-20
op-DDD		<0.020	<0.020	RPD-NA	ug/g	N/A	40	18-SEP-20
pp-DDD		<0.020	<0.020	RPD-NA	ug/g	N/A	40	18-SEP-20
o,p-DDE		<0.020	<0.020	RPD-NA	ug/g	N/A	40	18-SEP-20
pp-DDE		0.061	0.064		ug/g	4.2	40	18-SEP-20
op-DDT		<0.020	<0.020	RPD-NA	ug/g	N/A	40	18-SEP-20
pp-DDT		<0.020	<0.020	RPD-NA	ug/g	N/A	40	18-SEP-20
Dieldrin		<0.020	<0.020	RPD-NA	ug/g	N/A	40	18-SEP-20
Endosulfan I		<0.020	<0.020	RPD-NA	ug/g	N/A	40	18-SEP-20
Endosulfan II		<0.020	<0.020	RPD-NA	ug/g	N/A	40	18-SEP-20
Endrin		<0.020	<0.020	RPD-NA	ug/g	N/A	40	18-SEP-20
gamma-hexachlorocyclohexane		<0.010	<0.010	RPD-NA	ug/g	N/A	40	18-SEP-20
Heptachlor		<0.020	<0.020	RPD-NA	ug/g	N/A	40	18-SEP-20
Heptachlor Epoxide		<0.020	<0.020	RPD-NA	ug/g	N/A	40	18-SEP-20
Hexachlorobenzene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	18-SEP-20
Hexachlorobutadiene		<0.010	<0.010	RPD-NA	ug/g	N/A	40	18-SEP-20
Hexachloroethane		<0.010	<0.010	RPD-NA	ug/g	N/A	40	18-SEP-20
Methoxychlor		<0.020	<0.020	RPD-NA	ug/g	N/A	40	18-SEP-20
WG3405885-2	LCS							
Aldrin			116.1		%		50-140	18-SEP-20
a-chlordane			75.1		%		50-140	18-SEP-20
g-chlordane			79.0		%		50-140	18-SEP-20
op-DDD			80.4		%		50-140	18-SEP-20
pp-DDD			81.3		%		50-140	18-SEP-20
o,p-DDE			76.8		%		50-140	18-SEP-20



Quality Control Report

Workorder: L2503013

Report Date: 23-SEP-20

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Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT		Soil						
Batch	R5229098							
WG3405885-2	LCS							
pp-DDE			71.8		%		50-140	18-SEP-20
op-DDT			74.7		%		50-140	18-SEP-20
pp-DDT			71.8		%		50-140	18-SEP-20
Dieldrin			77.5		%		50-140	18-SEP-20
Endosulfan I			74.5		%		50-140	18-SEP-20
Endosulfan II			75.7		%		50-140	18-SEP-20
Endrin			74.0		%		50-140	18-SEP-20
gamma-hexachlorocyclohexane			91.8		%		50-140	18-SEP-20
Heptachlor			87.1		%		50-140	18-SEP-20
Heptachlor Epoxide			67.1		%		50-140	18-SEP-20
Hexachlorobenzene			95.3		%		50-140	18-SEP-20
Hexachlorobutadiene			87.9		%		50-140	18-SEP-20
Hexachloroethane			101.1		%		50-140	18-SEP-20
Methoxychlor			74.2		%		50-140	18-SEP-20
WG3405885-1	MB							
Aldrin			<0.020		ug/g		0.02	18-SEP-20
a-chlordane			<0.020		ug/g		0.02	18-SEP-20
g-chlordane			<0.020		ug/g		0.02	18-SEP-20
op-DDD			<0.020		ug/g		0.02	18-SEP-20
pp-DDD			<0.020		ug/g		0.02	18-SEP-20
o,p-DDE			<0.020		ug/g		0.02	18-SEP-20
pp-DDE			<0.020		ug/g		0.02	18-SEP-20
op-DDT			<0.020		ug/g		0.02	18-SEP-20
pp-DDT			<0.020		ug/g		0.02	18-SEP-20
Dieldrin			<0.020		ug/g		0.02	18-SEP-20
Endosulfan I			<0.020		ug/g		0.02	18-SEP-20
Endosulfan II			<0.020		ug/g		0.02	18-SEP-20
Endrin			<0.020		ug/g		0.02	18-SEP-20
gamma-hexachlorocyclohexane			<0.010		ug/g		0.01	18-SEP-20
Heptachlor			<0.020		ug/g		0.02	18-SEP-20
Heptachlor Epoxide			<0.020		ug/g		0.02	18-SEP-20
Hexachlorobenzene			<0.010		ug/g		0.01	18-SEP-20
Hexachlorobutadiene			<0.010		ug/g		0.01	18-SEP-20
Hexachloroethane			<0.010		ug/g		0.01	18-SEP-20



Quality Control Report

Workorder: L2503013

Report Date: 23-SEP-20

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Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Contact: Rachael Lesmeister

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT		Soil						
Batch	R5229098							
WG3405885-1	MB							
Methoxychlor			<0.020		ug/g		0.02	18-SEP-20
Surrogate: 2-Fluorobiphenyl			70.6		%		50-140	18-SEP-20
Surrogate: d14-Terphenyl			60.6		%		50-140	18-SEP-20
WG3405885-4	MS	WG3405885-5						
Aldrin			119.2		%		50-140	18-SEP-20
a-chlordane			95.6		%		50-140	18-SEP-20
g-chlordane			100.7		%		50-140	18-SEP-20
op-DDD			99.8		%		50-140	18-SEP-20
pp-DDD			103.5		%		50-140	18-SEP-20
o,p-DDE			97.1		%		50-140	18-SEP-20
pp-DDE			97.3		%		50-140	18-SEP-20
op-DDT			87.6		%		50-140	18-SEP-20
pp-DDT			81.5		%		50-140	18-SEP-20
Dieldrin			97.2		%		50-140	18-SEP-20
Endosulfan I			93.4		%		50-140	18-SEP-20
Endosulfan II			97.1		%		50-140	18-SEP-20
Endrin			88.4		%		50-140	18-SEP-20
gamma-hexachlorocyclohexane			92.2		%		50-140	18-SEP-20
Heptachlor			84.7		%		50-140	18-SEP-20
Heptachlor Epoxide			83.6		%		50-140	18-SEP-20
Hexachlorobenzene			97.3		%		50-140	18-SEP-20
Hexachlorobutadiene			90.6		%		50-140	18-SEP-20
Hexachloroethane			98.3		%		50-140	18-SEP-20
Methoxychlor			82.6		%		50-140	18-SEP-20

Quality Control Report

Workorder: L2503013

Report Date: 23-SEP-20

Client: G2S ENVIRONMENTAL CONSULTING, INC.
37 Sandiford Dr Suite 511
Stouffville ON L4A 3Z2

Page 5 of 5

Contact: Rachael Lesmeister

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



L2503013-COFC

COC Number: 17 - 797282

Page 1 of 2

8/15

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Report To Contact and company name below will appear on the final report		Report Format / Distribution		Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)																																																																																																																													
Company: G2S Consulting Inc.		Select Report Format: ☒ PDF ☒ EXCEL ☐ EDP (DIGITAL)		Regular (R) ☒ Standard TAT if received by 3 pm - business days - no surcharges apply																																																																																																																													
Contact: Rachael Lesmeister		Quality Control (QC) Report with Report ☒ YES ☐ NO		4 day (P4-20%) ☐ 1 Business day (E - 100%) ☐																																																																																																																													
Phone: 416-275-3954		☒ Compare Results to Criteria on Report - provide details below if box checked		3 day (P3-25%) ☐ Same Day, Weekend or Statutory holiday (E2 -200% (Laboratory opening fees may apply)) ☐																																																																																																																													
Company address below will appear on the final report		Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		2 day (P2-50%) ☐																																																																																																																													
Street: 37 Sandford Dr. Suite 411		Email 1 or Fax: jacky50@g2sconsulting.com		Date and Time Required for all E&P TATs: dd-mm-yy hh:mm																																																																																																																													
City/Province: Stouffville, ON		Email 2: rachael@		For tests that can not be performed according to the service level selected, you will be contacted.																																																																																																																													
Postal Code: L4A 3Z2		Email 3: danah@		Analysis Request																																																																																																																													
Invoice To: Same as Report To ☒ YES ☐ NO		Invoice Distribution		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="12">Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F&P) below</th> </tr> <tr> <td rowspan="10" style="writing-mode: vertical-rl; transform: rotate(180deg);">NUMBER OF CONTAINERS</td> <td rowspan="10" style="writing-mode: vertical-rl; transform: rotate(180deg);">OC Pesticides</td> <td rowspan="10" style="writing-mode: vertical-rl; transform: rotate(180deg);">Aersinic</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F&P) below												NUMBER OF CONTAINERS	OC Pesticides	Aersinic																																																																																																													
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Contact:		Email 2:																																																																																																																															
Project Information		Oil and Gas Required Fields (client use)		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="12">Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F&P) below</th> </tr> <tr> <td rowspan="10" style="writing-mode: vertical-rl; transform: rotate(180deg);">NUMBER OF CONTAINERS</td> <td rowspan="10" style="writing-mode: vertical-rl; transform: rotate(180deg);">OC Pesticides</td> <td rowspan="10" style="writing-mode: vertical-rl; transform: rotate(180deg);">Aersinic</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F&P) below												NUMBER OF CONTAINERS	OC Pesticides	Aersinic																																																																																																													
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Job #: G2S204458		Major/Minor Code: Routing Code:																																																																																																																															
PO / AFE: 123 Louis St. W. 125 Arthur St. W. 125 Arthur St. W. 125 Arthur St. W.		Requisitioner:																																																																																																																															
LSD:		Location:		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="12">Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F&P) below</th> </tr> <tr> <td rowspan="10" style="writing-mode: vertical-rl; transform: rotate(180deg);">NUMBER OF CONTAINERS</td> <td rowspan="10" style="writing-mode: vertical-rl; transform: rotate(180deg);">OC Pesticides</td> <td rowspan="10" style="writing-mode: vertical-rl; transform: rotate(180deg);">Aersinic</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F&P) below												NUMBER OF CONTAINERS	OC Pesticides	Aersinic																																																																																																													
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ALS Lab Work Order # (lab use only): L2503013		ALS Contact: Amanda F. Sampler: Rachael L.																																																																																																																															
ALS Sample # (lab use only)		Sample Identification and/or Coordinates (This description will appear on the report)		Date (dd-mm-yy)																																																																																																																													
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				Sample Type																																																																																																																													
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		BH101 SS2		10:20																																																																																																																													
		BH102 SS3		10:50																																																																																																																													
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Drinking Water (DW) Samples (client use)		Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)		SAMPLE CONDITION AS RECEIVED (lab use only)																																																																																																																													
Are samples taken from a Regulated DW System? ☐ YES ☐ NO		Please compare to Table 2 residential-Thanks!		Frozen ☐ SIF Observations Yes ☐ No ☐																																																																																																																													
Are samples for human consumption/ use? ☐ YES ☐ NO				Ice Packs ☐ Ice Cubes ☐ Custody seal intact Yes ☐ No ☐																																																																																																																													
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SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)		FINAL SHIPMENT RECEPTION (lab use only)																																																																																																																													
Date: Sept 15/20 Time: 1:05		Received by: G2S Date: 3ep15/20 Time: 13:05		Received by: 888 Date: 15-Sep-20 Time: 17:45																																																																																																																													



Chain of Custody (COC) / Analytical
Request Form

Canada Toll Free: 1 800 668 9878

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L2503013-COFC

COC Number: 17 - 797274

Page 2 of 2

Report To		Report Format / Distribution		Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply)	
Contact and company name below will appear on the final report		Select Report Format: ☒ PDF ☒ EXCEL ☐ EDD (DIGITAL)		Regular [R] ☒ Standard TAT if received by 3 pm - business days - no surcharges apply	
Company:	G2S Consulting Inc.	Quality Control (QC) Report with Report ☒ YES ☐ NO		4 day [P4-20%] ☐ 1 Business day [E - 100%] ☐	
Contact:	Rachael Lesmeister	☒ Compare Results to Criteria on Report - provide details below if box checked		3 day [P3-25%] ☐ Same Day, Weekend or Statutory holiday [E2 -200%] (Laboratory opening fees may apply) ☐	
Phone:	416-275-3954	Select Distribution: ☒ EMAIL ☐ MAIL ☐ FAX		2 day [P2-50%] ☐	
Company address below will appear on the final report		Email 1 or Fax: jackys@g2sconsulting.com		Date and Time Required for all E&P TATs: dd-mm-yy hh:mm	
Street:	37 Sandford Dr. Suite 411	Email 2: rachael@		For tests that can not be performed according to the service level selected, you will be contacted.	
City/Province:	Stouffville ON	Email 3: danah@		Analysis Request	
Postal Code:	L4A 3T2			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below	
Invoice To	Same as Report To ☒ YES ☐ NO	Invoice Distribution		NUMBER OF CONTAINERS OC Pesticides Aceinic SAMPLES ON HOLD SUSPECTED HAZARD (see Special Instructions)	
Copy of Invoice with Report	☒ YES ☐ NO	Select Invoice Distribution: ☐ EMAIL ☐ MAIL ☐ FAX			
Company:		Email 1 or Fax:			
Contact:		Email 2:			
Project Information		Oil and Gas Required Fields (client use)			
ALS Account # / Quote #:	Q78169	AFE/Cost Center: PO#			
Job #:	G2S20445B	Major/Minor Code: Routing Code:			
PO / AFE:	Q3 Louisa St. W. 125 Arthur St. W. & vacant Lands	Requisitioner:			
LSD:		Location:			
ALS Lab Work Order # (lab use only): L2563013		ALS Contact: Amanda F. Sampler: Rachael L.			
ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mm-yy)	Time (hh:mm)	Sample Type	
	BH107 SS2	14-Sep-20	12:30	SOIL	2 x x
	BH108 SS1		1:00		2 x x
	BH108 SS2		1:00		2 x x
	BH109 SS1		1:30		1 x x
	BH109 SS2		1:30		2 x x
	BH110 SS1		2:00		1 x x
	BH110 SS2		2:00		2 x x
Drinking Water (DW) Samples ¹ (client use)		Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only)		SAMPLE CONDITION AS RECEIVED (lab use only)	
Are samples taken from a Regulated DW System? ☐ YES ☐ NO		Please compare to Table 2 residential Thanks!		Frozen ☐ SIF Observations Yes ☐ No ☐	
Are samples for human consumption/ use? ☐ YES ☐ NO				Ice Packs ☐ Ice Cubes ☒ Custody seal intact Yes ☐ No ☐	
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)		INITIAL COOLER TEMPERATURES °C	
Date:	Sept 15/20	Time:	1:05	Date:	35
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)		FINAL SHIPMENT RECEPTION (lab use only)	
Date:	Sept 15/20	Time:	13:05	Date:	1945

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

JUNE 2018 PRINT

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.