

September 30, 2020

Reference No. G2S20446B

Daniel Pasta
241 Applewood Crescent, Unit
9 Concord, Ontario
L4K 4E6

**Shallow Soil Investigation
Parcels of Land at the Northeast Corner of Highway 26 & 10th Line
Thornbury, Ontario**

1. Introduction and Site Description

G2S Consulting Inc. (G2S) was retained by Mr. Daniel Pasta to complete a soil investigation for the parcels of land at the northeast corner of Highway 26 and 10th Line, in Thornbury, Ontario, hereinafter referred to as the 'Site'.

The Site is currently used for agricultural purposes and includes a forested area. The Site groundcover is composed of wild grasses and a forested area on the eastern portion of the Site. The west portion of the Site is used for agricultural purposes. A grassed ditch runs along the west, south and east property line. A forested area runs along the northern property line. Entrance to the Site is accessed via 10th Line. The Site is approximately 6.88 hectares (17 acres) in size. The Site is located in an area consisting of primarily residential and agricultural land use. The Site location is illustrated on Drawing 1 in Attachment 1.

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. 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 Shallow 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.

2. Scope of Work

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

- The advancement of six test pits in the area of the historic orchard to a maximum depth of 0.3 m below ground surface using a hand shovel;

- Submission of representative soil samples to a CALA accredited laboratory for analysis. The analytical suite will include metals and pesticides, pH and grain size 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 Table 2 Site Condition Standards (SCS) for Residential Property Use and fine textured soils. 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 does not include or is not within 30 m of a 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 BH103 SS2 and BH104 SS2 had pH values of 7.46 and 7.40, 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 Shallow Soil Sampling Program

The fieldwork for this investigation was conducted on July 24, 2020. Six test pits were advanced on the Site using a steel handheld shovel. Test pits TP102 -TP106 were advanced throughout the western portion of the Site, and test pit TP101 was advanced through the central portion of the Site, in the vicinity of the historic orchard. Samples were collected from a depth of 0.15 m below ground surface (bgs) labelled as SS1, and from a completion depth of 0.3 m bgs labelled as SS2 in all test pits.

The test pit locations are shown on the Test Pit Location Plan, Drawing 2, 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

Brown, moist, topsoil, with some organic matter, was encountered in all SS1 samples. Native materials encountered beneath the topsoil included moist, light brown/brown, fine-grained sand, trace silt and organics was encountered in all SS2 samples.

5.2 Soil Field Screening

In accordance with the scope of work, chemical analyses were performed by ALS on all soil samples recovered from a depth of 0.15 m bgs in all the test pits. Selection of soil samples for laboratory analysis was based on the location of potential sources of impact as detailed in Table 5.2. The table below indicates the soil samples selected for laboratory analysis.

Table 5.2: Soil Sample Selection for Submission for Laboratory Analysis

Sample ID	Depth (m bgs)	Rationale for Submission	Analysis
TP101 SS1	0.15	Approximate historical location of the orchard	Metals & Pesticides

Sample ID	Depth (m bgs)	Rationale for Submission	Analysis
TP102 SS1	0.15	Approximate historical location of the orchard	Metals & Pesticides
TP103 SS1	0.15	Approximate historical location of the orchard	Metals
TP104 SS1	0.15	Approximate historical location of the orchard	Metals
TP105 SS1	0.15	Approximate historical location of the orchard	Metals & Pesticides
TP106 SS1	0.15	Approximate historical location of the orchard	Metals
TP103 SS2	0.3	Site characterization, surface soil (<1.5 m)	Grain Size, pH
TP104 SS2	0.3	Surface soil (<1.5 m)	pH

5.3 Soil Quality

The laboratory Certificate of Analysis for the soil samples submitted for analysis are included in Attachment 3. The laboratory reportable detection limits (RDLs) were below the MECP Table 2 SCS for all parameters analyzed.

5.3.1 Metals

Soil samples TP101 SS1, TP102 SS1, TP103 SS1, TP104 SS1, TP105 SS1 and TP106 SS1 were submitted for laboratory analysis of metals. Metal parameters were either not detected or detected below the MECP Table 2 SCS in the soil samples submitted for analysis. The results of the analysis are included in Table 1 of Attachment 2.

5.3.2 Pesticides

Soil samples TP101 SS1, TP102 SS1 and TP105 SS1 were submitted for laboratory analysis of pesticides. Pesticide parameters were either not detected or detected below the MECP Table 2 SCS in the soil samples submitted for analysis. The results of the analysis are included in Table 2 of Attachment 2.

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 six test pits samples on the property. The results of the investigation lead to the following findings:

1. Native material beneath the Site generally consists of fine-grained sand.
2. The concentrations of pesticides and metals were below the MECP Table 2 SCS in the analyzed soil samples.

Based on the soil results from the Shallow Soil Investigation, there has been no environmental impact resulting from the historic presence of an orchard on-Site. All samples tested meet the MECP Table 2 SCS. No further environmental investigation is required at this time.

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 for the parcels of land at the northeast corner of Highway 26 and 10th Line, 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 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



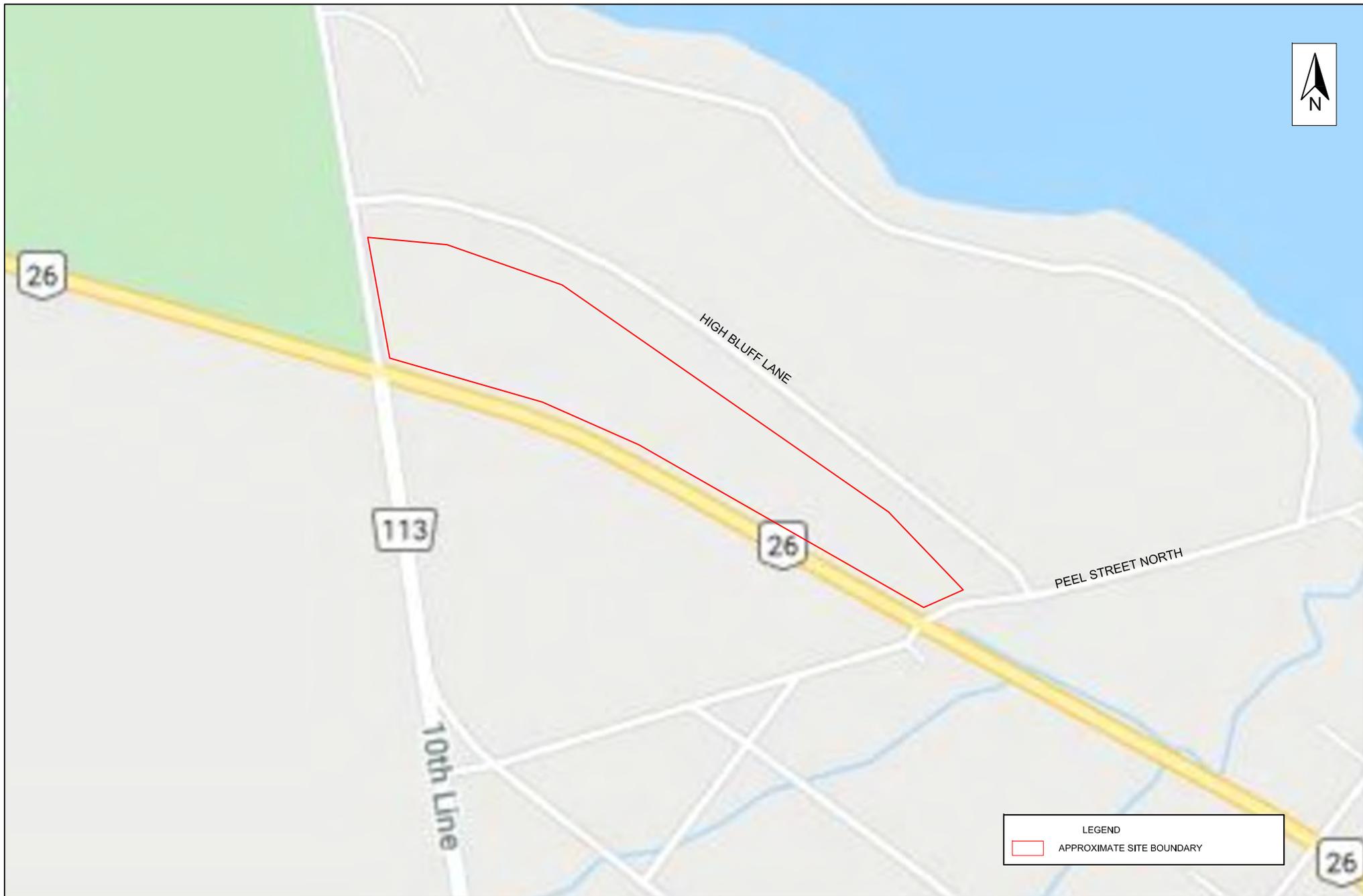
Jacky So, P.Eng.
Senior Engineer

Attachment 1: Drawings

Attachment 2: Analytical Results Tables

Attachment 3: Certificate of Analysis

**Attachment 1:
Drawings**



LEGEND
[Red Box] APPROXIMATE SITE BOUNDARY

Scale: N.T.S.
Project No.: G2S20446B
Date: SEPTEMBER 2020
Drawn by: RL/JS
File name: HWY26/10THLINE.dwg

NORTHEAST CORNER OF HIGHWAY 26 AND 10TH LINE
SITE LOCATION PLAN

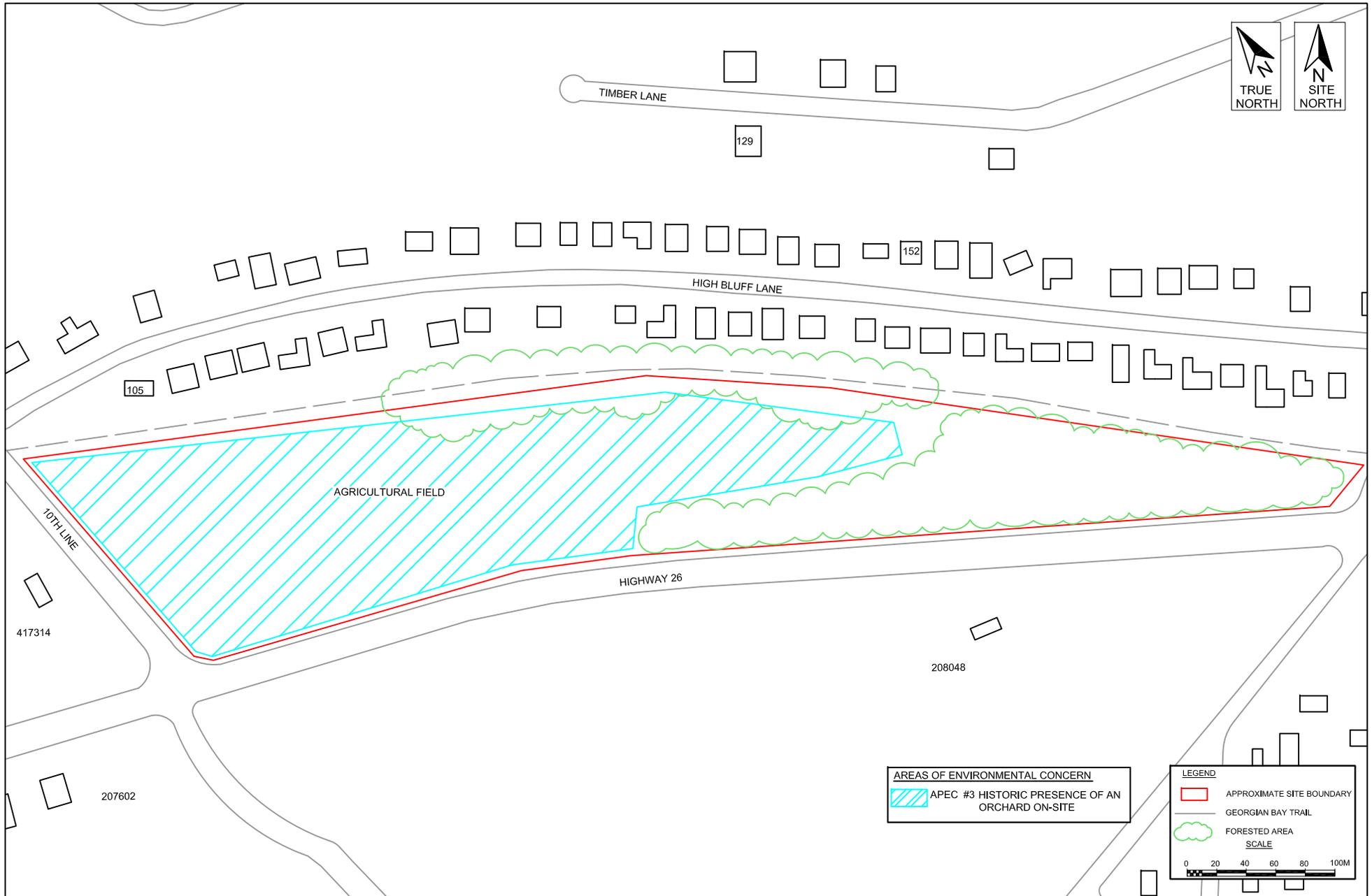
THORNBURY

ONTARIO



Drawing No.

1



Scale: AS SHOWN
 Project No.: G2S20446B
 Date: SEPTEMBER 2020
 Drawn by: RL/JS
 File name: HWY26/10THLINE.dwg

**NORTHEAST CORNER OF HIGHWAY 26 AND 10TH LINE
 AREAS OF POTENTIAL ENVIRONMENTAL CONCERN**

THORN BURY

ONTARIO



Drawing No.

2



LEGEND

-  APPROXIMATE SITE BOUNDARY
-  GEORGIAN BAY TRAIL
-  FORESTED AREA
-  TEST PITS ADVANCED BY G2S (JULY 2020)

SCALE



Scale: AS SHOWN
 Project No.: G2S20446B
 Date: SEPTEMBER 2020
 Drawn by: RL/JS
 File name: HWY26/10THLINE.dwg

NORTHEAST CORNER OF HIGHWAY 26 AND 10TH LINE
TEST PIT LOCATION PLAN

THORN BURY

ONTARIO



Drawing No.
3

**Attachment 2:
Analytical Results Tables**

**Table 1: Soil Quality Results
 Metals**

Parameter	Unit	Table 2 SCS	Sample Identification					
		Residential/ Parkland/Intititutional Property Use	TP101-SS1	TP102-SS1	TP103-SS1	TP104-SS1	TP105-SS1	TP106-SS1
Date Sampled			24-Jul-20	24-Jul-20	24-Jul-20	24-Jul-20	24-Jul-20	24-Jul-20
Antimony (Sb)	ug/g	7.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic (As)	ug/g	18	4.5	5.3	5.7	6.3	5.2	4.1
Barium (Ba)	ug/g	390	29.8	35.3	36.8	37.3	16.6	16.3
Beryllium (Be)	ug/g	5	<0.50	0.54	<0.50	0.52	<0.50	<0.50
Boron (B)	ug/g	120	7.3	5.1	11.6	8.7	<5.0	<5.0
Cadmium (Cd)	ug/g	1.2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chromium (Cr)	ug/g	160	15.2	17.9	17.5	17.6	8.6	9.0
Cobalt (Co)	ug/g	22	5.9	7.6	6.2	6.4	2.4	2.5
Copper (Cu)	ug/g	180	17.4	19.8	19.9	20.9	8.1	8.1
Lead (Pb)	ug/g	120	10.4	12.8	13.8	17.3	16.9	9.7
Molybdenum (Mo)	ug/g	6.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Nickel (Ni)	ug/g	130	13.0	15.8	14.6	15.0	5.8	5.7
Selenium (Se)	ug/g	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver (Ag)	ug/g	25	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Thallium (Tl)	ug/g	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Uranium (U)	ug/g	23	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vanadium (V)	ug/g	86	23.1	25.4	26.1	25.6	14.7	15.2
Zinc (Zn)	ug/g	340	37.8	41.7	43.7	41.3	37.2	29.9

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



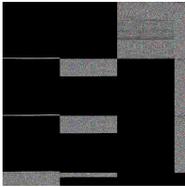
**Table 2: Soil Quality Results
 Pesticides**

Parameter	Unit	Table 2 SCS	Sample Identification		
		Residential/ Parkland/Intititutional Property Use	TP101-SS1	TP102-SS1	TP105-SS1
Date Sampled			24-Jul-20	24-Jul-20	24-Jul-20
Aldrin	ug/g	0.05	<0.020	<0.020	<0.020
Chlordane	ug/g	0.05	<0.028	<0.028	<0.028
DDD	ug/g	3.3	<0.028	<0.028	<0.028
DDE	ug/g	0.33	0.105	0.188	0.042
DDT	ug/g	1.4	0.042	0.045	<0.028
Dieldrin	ug/g	0.05	<0.020	<0.020	<0.020
Endosulfan	ug/g	0.04	<0.028	<0.028	<0.028
Endrin	ug/g	0.04	<0.020	<0.020	<0.020
Heptachlor	ug/g	0.15	<0.020	<0.020	<0.020
Heptachlor Epoxide	ug/g	0.05	<0.020	<0.020	<0.020
Hexachlorobenzene	ug/g	0.52	<0.010	<0.010	<0.010
Hexachlorobutadiene	ug/g	0.014	<0.010	<0.010	<0.010
Hexachlorocyclohexane, gamma-	ug/g	0.063	<0.010	<0.010	<0.010
Hexachloroethane	ug/g	0.071	<0.010	<0.010	<0.010
Methoxychlor	ug/g	0.13	<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.



**Attachment 3:
Certificate of Analysis**



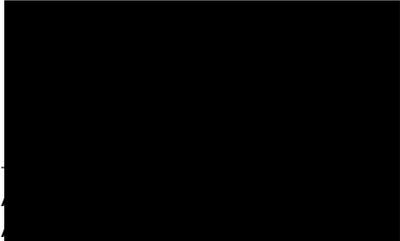
G2S ENVIRONMENTAL CONSULTING, INC.
ATTN: Geoff Bell
1646 Dundas Street West. Suite 201
Mississauga ON L5C 1E6

Date Received: 27-JUL-20
Report Date: 04-AUG-20 16:27 (MT)
Version: FINAL

Client Phone: 905-766-4054

Certificate of Analysis

Lab Work Order #: L2480005
Project P.O. #: NE CORNER OF HWY 26+10TH LINE
Job Reference: G2S204463
C of C Numbers: 17-796700
Legal Site Desc:



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ADDRESS: 5730 Coopers Avenue, Unit #26, Mississauga, ON L4Z 2E9, Canada | Phone: +1 905 507 6910 | Fax: +1 905 507 6927



ANALYTICAL GUIDELINE REPORT

L2480005 CONTD....

Page 2 of 9

04-AUG-20 16:27 (MT)

G2S204463

Sample Details	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits
L2480005-1	TP101-SS1						
Sampled By:	CLIENT on 24-JUL-20 @ 14:00						
Matrix:	SOIL						#1
Physical Tests							
% Moisture		17.4		0.25	%	31-JUL-20	
Metals							
Antimony (Sb)		<1.0		1.0	ug/g	30-JUL-20	7.5
Arsenic (As)		4.5		1.0	ug/g	30-JUL-20	18
Barium (Ba)		29.8		1.0	ug/g	30-JUL-20	390
Beryllium (Be)		<0.50		0.50	ug/g	30-JUL-20	4
Boron (B)		7.3		5.0	ug/g	30-JUL-20	120
Cadmium (Cd)		<0.50		0.50	ug/g	30-JUL-20	1.2
Chromium (Cr)		15.2		1.0	ug/g	30-JUL-20	160
Cobalt (Co)		5.9		1.0	ug/g	30-JUL-20	22
Copper (Cu)		17.4		1.0	ug/g	30-JUL-20	140
Lead (Pb)		10.4		1.0	ug/g	30-JUL-20	120
Molybdenum (Mo)		<1.0		1.0	ug/g	30-JUL-20	6.9
Nickel (Ni)		13.0		1.0	ug/g	30-JUL-20	100
Selenium (Se)		<1.0		1.0	ug/g	30-JUL-20	2.4
Silver (Ag)		<0.20		0.20	ug/g	30-JUL-20	20
Thallium (Tl)		<0.50		0.50	ug/g	30-JUL-20	1
Uranium (U)		<1.0		1.0	ug/g	30-JUL-20	23
Vanadium (V)		23.1		1.0	ug/g	30-JUL-20	86
Zinc (Zn)		37.8		5.0	ug/g	30-JUL-20	340
Organochlorine Pesticides							
Aldrin		<0.020		0.020	ug/g	04-AUG-20	0.05
gamma-hexachlorocyclohexane		<0.010		0.010	ug/g	04-AUG-20	0.056
a-chlordane		<0.020		0.020	ug/g	04-AUG-20	
Chlordane (Total)		<0.028		0.028	ug/g	04-AUG-20	0.05
g-chlordane		<0.020		0.020	ug/g	04-AUG-20	
op-DDD		<0.020		0.020	ug/g	04-AUG-20	
pp-DDD		<0.020		0.020	ug/g	04-AUG-20	
Total DDD		<0.028		0.028	ug/g	04-AUG-20	3.3
o,p-DDE		<0.020		0.020	ug/g	04-AUG-20	
pp-DDE		0.105		0.020	ug/g	04-AUG-20	
Total DDE		0.105		0.028	ug/g	04-AUG-20	0.26
op-DDT		<0.020		0.020	ug/g	04-AUG-20	
pp-DDT		0.042		0.020	ug/g	04-AUG-20	
Total DDT		0.042		0.028	ug/g	04-AUG-20	1.4
Dieldrin		<0.020		0.020	ug/g	04-AUG-20	0.05
Endosulfan I		<0.020		0.020	ug/g	04-AUG-20	
Endosulfan II		<0.020		0.020	ug/g	04-AUG-20	
Endosulfan (Total)		<0.028		0.028	ug/g	04-AUG-20	0.04
Endrin		<0.020		0.020	ug/g	04-AUG-20	0.04
Heptachlor		<0.020		0.020	ug/g	04-AUG-20	0.15
Heptachlor Epoxide		<0.020		0.020	ug/g	04-AUG-20	0.05
Hexachlorobenzene		<0.010		0.010	ug/g	04-AUG-20	0.52
Hexachlorobutadiene		<0.010		0.010	ug/g	04-AUG-20	0.012
Hexachloroethane		<0.010		0.010	ug/g	04-AUG-20	0.089
Methoxychlor		<0.020		0.020	ug/g	04-AUG-20	0.13

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

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Coarse)

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

ANALYTICAL GUIDELINE REPORT

L2480005 CONTD....

Page 3 of 9

04-AUG-20 16:27 (MT)

G2S204463

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits		
Grouping	Analyte								
L2480005-1	TP101-SS1								
Sampled By: CLIENT on 24-JUL-20 @ 14:00									
Matrix: SOIL									
Organochlorine Pesticides									
Surrogate: 2-Fluorobiphenyl		94.7		50-140	%	04-AUG-20			
Surrogate: d14-Terphenyl		86.5		50-140	%	04-AUG-20			
L2480005-2	TP102-SS1								
Sampled By: CLIENT on 24-JUL-20 @ 14:00									
Matrix: SOIL									
Physical Tests									
% Moisture		17.7		0.25	%	31-JUL-20			
Metals									
Antimony (Sb)		<1.0		1.0	ug/g	30-JUL-20	7.5		
Arsenic (As)		5.3		1.0	ug/g	30-JUL-20	18		
Barium (Ba)		35.3		1.0	ug/g	30-JUL-20	390		
Beryllium (Be)		0.54		0.50	ug/g	30-JUL-20	4		
Boron (B)		5.1		5.0	ug/g	30-JUL-20	120		
Cadmium (Cd)		<0.50		0.50	ug/g	30-JUL-20	1.2		
Chromium (Cr)		17.9		1.0	ug/g	30-JUL-20	160		
Cobalt (Co)		7.6		1.0	ug/g	30-JUL-20	22		
Copper (Cu)		19.8		1.0	ug/g	30-JUL-20	140		
Lead (Pb)		12.8		1.0	ug/g	30-JUL-20	120		
Molybdenum (Mo)		<1.0		1.0	ug/g	30-JUL-20	6.9		
Nickel (Ni)		15.8		1.0	ug/g	30-JUL-20	100		
Selenium (Se)		<1.0		1.0	ug/g	30-JUL-20	2.4		
Silver (Ag)		<0.20		0.20	ug/g	30-JUL-20	20		
Thallium (Tl)		<0.50		0.50	ug/g	30-JUL-20	1		
Uranium (U)		<1.0		1.0	ug/g	30-JUL-20	23		
Vanadium (V)		25.4		1.0	ug/g	30-JUL-20	86		
Zinc (Zn)		41.7		5.0	ug/g	30-JUL-20	340		
Organochlorine Pesticides									
Aldrin		<0.020		0.020	ug/g	04-AUG-20	0.05		
gamma-hexachlorocyclohexane		<0.010		0.010	ug/g	04-AUG-20	0.056		
a-chlordane		<0.020		0.020	ug/g	04-AUG-20			
Chlordane (Total)		<0.028		0.028	ug/g	04-AUG-20	0.05		
g-chlordane		<0.020		0.020	ug/g	04-AUG-20			
op-DDD		<0.020		0.020	ug/g	04-AUG-20			
pp-DDD		<0.020		0.020	ug/g	04-AUG-20			
Total DDD		<0.028		0.028	ug/g	04-AUG-20	3.3		
o,p-DDE		<0.020		0.020	ug/g	04-AUG-20			
pp-DDE		0.188		0.020	ug/g	04-AUG-20			
Total DDE		0.188		0.028	ug/g	04-AUG-20	0.26		
op-DDT		<0.020		0.020	ug/g	04-AUG-20			
pp-DDT		0.045		0.020	ug/g	04-AUG-20			
Total DDT		0.045		0.028	ug/g	04-AUG-20	1.4		
Dieldrin		<0.020		0.020	ug/g	04-AUG-20	0.05		
Endosulfan I		<0.020		0.020	ug/g	04-AUG-20			
Endosulfan II		<0.020		0.020	ug/g	04-AUG-20			
Endosulfan (Total)		<0.028		0.028	ug/g	04-AUG-20	0.04		

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

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Coarse)

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

ANALYTICAL GUIDELINE REPORT

L2480005 CONTD....

Page 4 of 9

04-AUG-20 16:27 (MT)

G2S204463

Sample Details		Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits							
Grouping	Analyte													
L2480005-2	TP102-SS1													
Sampled By: CLIENT on 24-JUL-20 @ 14:00														
Matrix: SOIL														
Organochlorine Pesticides														
	Endrin	<0.020		0.020	ug/g	04-AUG-20	0.04							
	Heptachlor	<0.020		0.020	ug/g	04-AUG-20	0.15							
	Heptachlor Epoxide	<0.020		0.020	ug/g	04-AUG-20	0.05							
	Hexachlorobenzene	<0.010		0.010	ug/g	04-AUG-20	0.52							
	Hexachlorobutadiene	<0.010		0.010	ug/g	04-AUG-20	0.012							
	Hexachloroethane	<0.010		0.010	ug/g	04-AUG-20	0.089							
	Methoxychlor	<0.020		0.020	ug/g	04-AUG-20	0.13							
	Surrogate: 2-Fluorobiphenyl	80.4		50-140	%	04-AUG-20								
	Surrogate: d14-Terphenyl	101.0		50-140	%	04-AUG-20								
L2480005-3	TP103-SS1													
Sampled By: CLIENT on 24-JUL-20 @ 14:00														
Matrix: SOIL														
Metals														
	Antimony (Sb)	<1.0		1.0	ug/g	30-JUL-20	7.5							
	Arsenic (As)	5.7		1.0	ug/g	30-JUL-20	18							
	Barium (Ba)	36.8		1.0	ug/g	30-JUL-20	390							
	Beryllium (Be)	<0.50		0.50	ug/g	30-JUL-20	4							
	Boron (B)	11.6		5.0	ug/g	30-JUL-20	120							
	Cadmium (Cd)	<0.50		0.50	ug/g	30-JUL-20	1.2							
	Chromium (Cr)	17.5		1.0	ug/g	30-JUL-20	160							
	Cobalt (Co)	6.2		1.0	ug/g	30-JUL-20	22							
	Copper (Cu)	19.9		1.0	ug/g	30-JUL-20	140							
	Lead (Pb)	13.8		1.0	ug/g	30-JUL-20	120							
	Molybdenum (Mo)	<1.0		1.0	ug/g	30-JUL-20	6.9							
	Nickel (Ni)	14.6		1.0	ug/g	30-JUL-20	100							
	Selenium (Se)	<1.0		1.0	ug/g	30-JUL-20	2.4							
	Silver (Ag)	<0.20		0.20	ug/g	30-JUL-20	20							
	Thallium (Tl)	<0.50		0.50	ug/g	30-JUL-20	1							
	Uranium (U)	<1.0		1.0	ug/g	30-JUL-20	23							
	Vanadium (V)	26.1		1.0	ug/g	30-JUL-20	86							
	Zinc (Zn)	43.7		5.0	ug/g	30-JUL-20	340							
L2480005-4	TP104-SS1													
Sampled By: CLIENT on 24-JUL-20 @ 14:00														
Matrix: SOIL														
Metals														
	Antimony (Sb)	<1.0		1.0	ug/g	30-JUL-20	7.5							
	Arsenic (As)	6.3		1.0	ug/g	30-JUL-20	18							
	Barium (Ba)	37.3		1.0	ug/g	30-JUL-20	390							
	Beryllium (Be)	0.52		0.50	ug/g	30-JUL-20	4							
	Boron (B)	8.7		5.0	ug/g	30-JUL-20	120							
	Cadmium (Cd)	<0.50		0.50	ug/g	30-JUL-20	1.2							
	Chromium (Cr)	17.6		1.0	ug/g	30-JUL-20	160							
	Cobalt (Co)	6.4		1.0	ug/g	30-JUL-20	22							

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

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Coarse)

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

ANALYTICAL GUIDELINE REPORT

L2480005 CONTD....

Page 5 of 9

04-AUG-20 16:27 (MT)

G2S204463

Sample Details Grouping	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits				
L2480005-4	TP104-SS1						#1				
Sampled By:	CLIENT on 24-JUL-20 @ 14:00										
Matrix:	SOIL										
Metals											
	Copper (Cu)	20.9		1.0	ug/g	30-JUL-20	140				
	Lead (Pb)	17.3		1.0	ug/g	30-JUL-20	120				
	Molybdenum (Mo)	<1.0		1.0	ug/g	30-JUL-20	6.9				
	Nickel (Ni)	15.0		1.0	ug/g	30-JUL-20	100				
	Selenium (Se)	<1.0		1.0	ug/g	30-JUL-20	2.4				
	Silver (Ag)	<0.20		0.20	ug/g	30-JUL-20	20				
	Thallium (Tl)	<0.50		0.50	ug/g	30-JUL-20	1				
	Uranium (U)	<1.0		1.0	ug/g	30-JUL-20	23				
	Vanadium (V)	25.6		1.0	ug/g	30-JUL-20	86				
	Zinc (Zn)	41.3		5.0	ug/g	30-JUL-20	340				
L2480005-5	TP105-SS1						#1				
Sampled By:	CLIENT on 24-JUL-20 @ 14:00										
Matrix:	SOIL										
Physical Tests											
	% Moisture	10.6		0.25	%	31-JUL-20					
Metals											
	Antimony (Sb)	<1.0		1.0	ug/g	30-JUL-20	7.5				
	Arsenic (As)	5.2		1.0	ug/g	30-JUL-20	18				
	Barium (Ba)	16.6		1.0	ug/g	30-JUL-20	390				
	Beryllium (Be)	<0.50		0.50	ug/g	30-JUL-20	4				
	Boron (B)	<5.0		5.0	ug/g	30-JUL-20	120				
	Cadmium (Cd)	<0.50		0.50	ug/g	30-JUL-20	1.2				
	Chromium (Cr)	8.6		1.0	ug/g	30-JUL-20	160				
	Cobalt (Co)	2.4		1.0	ug/g	30-JUL-20	22				
	Copper (Cu)	8.1		1.0	ug/g	30-JUL-20	140				
	Lead (Pb)	16.9		1.0	ug/g	30-JUL-20	120				
	Molybdenum (Mo)	<1.0		1.0	ug/g	30-JUL-20	6.9				
	Nickel (Ni)	5.8		1.0	ug/g	30-JUL-20	100				
	Selenium (Se)	<1.0		1.0	ug/g	30-JUL-20	2.4				
	Silver (Ag)	<0.20		0.20	ug/g	30-JUL-20	20				
	Thallium (Tl)	<0.50		0.50	ug/g	30-JUL-20	1				
	Uranium (U)	<1.0		1.0	ug/g	30-JUL-20	23				
	Vanadium (V)	14.7		1.0	ug/g	30-JUL-20	86				
	Zinc (Zn)	37.2		5.0	ug/g	30-JUL-20	340				
Organochlorine Pesticides											
	Aldrin	<0.020		0.020	ug/g	04-AUG-20	0.05				
	gamma-hexachlorocyclohexane	<0.010		0.010	ug/g	04-AUG-20	0.056				
	a-chlordane	<0.020		0.020	ug/g	04-AUG-20					
	Chlordane (Total)	<0.028		0.028	ug/g	04-AUG-20	0.05				
	g-chlordane	<0.020		0.020	ug/g	04-AUG-20					
	op-DDD	<0.020		0.020	ug/g	04-AUG-20					
	pp-DDD	<0.020		0.020	ug/g	04-AUG-20					
	Total DDD	<0.028		0.028	ug/g	04-AUG-20	3.3				
	o,p-DDE	<0.020		0.020	ug/g	04-AUG-20					
	pp-DDE	0.042		0.020	ug/g	04-AUG-20					

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

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Coarse)

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

ANALYTICAL GUIDELINE REPORT

L2480005 CONTD....

Page 6 of 9

04-AUG-20 16:27 (MT)

G2S204463

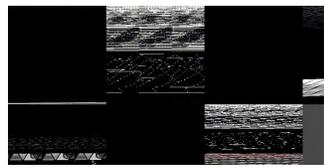
Sample Details	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits			
L2480005-5	TP105-SS1									
Sampled By: CLIENT on 24-JUL-20 @ 14:00							#1			
Matrix: SOIL										
Organochlorine Pesticides										
Total DDE		0.042		0.028	ug/g	04-AUG-20	0.26			
op-DDT		<0.020		0.020	ug/g	04-AUG-20				
pp-DDT		0.022		0.020	ug/g	04-AUG-20				
Total DDT		<0.028		0.028	ug/g	04-AUG-20	1.4			
Dieldrin		<0.020		0.020	ug/g	04-AUG-20	0.05			
Endosulfan I		<0.020		0.020	ug/g	04-AUG-20				
Endosulfan II		<0.020		0.020	ug/g	04-AUG-20				
Endosulfan (Total)		<0.028		0.028	ug/g	04-AUG-20	0.04			
Endrin		<0.020		0.020	ug/g	04-AUG-20	0.04			
Heptachlor		<0.020		0.020	ug/g	04-AUG-20	0.15			
Heptachlor Epoxide		<0.020		0.020	ug/g	04-AUG-20	0.05			
Hexachlorobenzene		<0.010		0.010	ug/g	04-AUG-20	0.52			
Hexachlorobutadiene		<0.010		0.010	ug/g	04-AUG-20	0.012			
Hexachloroethane		<0.010		0.010	ug/g	04-AUG-20	0.089			
Methoxychlor		<0.020		0.020	ug/g	04-AUG-20	0.13			
Surrogate: 2-Fluorobiphenyl		78.5		50-140	%	04-AUG-20				
Surrogate: d14-Terphenyl		86.0		50-140	%	04-AUG-20				
L2480005-6	TP106-SS1									
Sampled By: CLIENT on 24-JUL-20 @ 14:00							#1			
Matrix: SOIL										
Metals										
Antimony (Sb)		<1.0		1.0	ug/g	30-JUL-20	7.5			
Arsenic (As)		4.1		1.0	ug/g	30-JUL-20	18			
Barium (Ba)		16.3		1.0	ug/g	30-JUL-20	390			
Beryllium (Be)		<0.50		0.50	ug/g	30-JUL-20	4			
Boron (B)		<5.0		5.0	ug/g	30-JUL-20	120			
Cadmium (Cd)		<0.50		0.50	ug/g	30-JUL-20	1.2			
Chromium (Cr)		9.0		1.0	ug/g	30-JUL-20	160			
Cobalt (Co)		2.5		1.0	ug/g	30-JUL-20	22			
Copper (Cu)		8.1		1.0	ug/g	30-JUL-20	140			
Lead (Pb)		9.7		1.0	ug/g	30-JUL-20	120			
Molybdenum (Mo)		<1.0		1.0	ug/g	30-JUL-20	6.9			
Nickel (Ni)		5.7		1.0	ug/g	30-JUL-20	100			
Selenium (Se)		<1.0		1.0	ug/g	30-JUL-20	2.4			
Silver (Ag)		<0.20		0.20	ug/g	30-JUL-20	20			
Thallium (Tl)		<0.50		0.50	ug/g	30-JUL-20	1			
Uranium (U)		<1.0		1.0	ug/g	30-JUL-20	23			
Vanadium (V)		15.2		1.0	ug/g	30-JUL-20	86			
Zinc (Zn)		29.9		5.0	ug/g	30-JUL-20	340			
L2480005-7	TP103-SS2									
Sampled By: CLIENT on 24-JUL-20 @ 14:00							#1			
Matrix: SOIL										
Physical Tests										
pH		7.46		0.10	pH units	31-JUL-20				

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

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Coarse)

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



ANALYTICAL GUIDELINE REPORT

L2480005 CONTD....

Page 7 of 9

04-AUG-20 16:27 (MT)

G2S204463

Sample Details	Analyte	Result	Qualifier	D.L.	Units	Analyzed	Guideline Limits				
L2480005-7 Sampled By: CLIENT on 24-JUL-20 @ 14:00 Matrix: SOIL Particle Size % >75um	TP103-SS2	45.6		1.0	%	28-JUL-20	#1				
L2480005-8 Sampled By: CLIENT on 24-JUL-20 @ 14:00 Matrix: SOIL Physical Tests pH	TP104-SS2	7.40		0.10	pH units	31-JUL-20	#1				

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

* Analytical result for this parameter exceeds Guideline Limit listed on this report. Guideline Limits applied:

T2-Soil-Res/Park/Inst. Property Use (Coarse)

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

Reference Information

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:

17-796700

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

Reference Information

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: L2480005

Report Date: 04-AUG-20

Page 1 of 7

Client: G2S ENVIRONMENTAL CONSULTING, INC.
1646 Dundas Street West. Suite 201
Mississauga ON L5C 1E6

Contact: Geoff Bell

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

Quality Control Report

Workorder: L2480005

Report Date: 04-AUG-20

Page 2 of 7

Client: G2S ENVIRONMENTAL CONSULTING, INC.
1646 Dundas Street West. Suite 201
Mississauga ON L5C 1E6

Contact: Geoff Bell

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

Quality Control Report

Workorder: L2480005

Report Date: 04-AUG-20

Page 3 of 7

Client: G2S ENVIRONMENTAL CONSULTING, INC.
 1646 Dundas Street West. Suite 201
 Mississauga ON L5C 1E6

Contact: Geoff Bell

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
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
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
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

Quality Control Report

Workorder: L2480005

Report Date: 04-AUG-20

Page 4 of 7

Client: G2S ENVIRONMENTAL CONSULTING, INC.
1646 Dundas Street West. Suite 201
Mississauga ON L5C 1E6

Contact: Geoff Bell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT		Soil						
Batch	R5172882							
WG3372282-3	DUP	WG3372282-5						
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
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

Quality Control Report

Workorder: L2480005

Report Date: 04-AUG-20

Page 5 of 7

Client: G2S ENVIRONMENTAL CONSULTING, INC.
1646 Dundas Street West. Suite 201
Mississauga ON L5C 1E6

Contact: Geoff Bell

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
PEST-OC-511-WT								
	Soil							
Batch	R5172882							
WG3372282-1	MB							
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
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

Quality Control Report

Workorder: L2480005

Report Date: 04-AUG-20

Page 6 of 7

Client: G2S ENVIRONMENTAL CONSULTING, INC.
 1646 Dundas Street West. Suite 201
 Mississauga ON L5C 1E6

Contact: Geoff Bell

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: L2480005

Report Date: 04-AUG-20

Client: G2S ENVIRONMENTAL CONSULTING, INC.
1646 Dundas Street West. Suite 201
Mississauga ON L5C 1E6

Page 7 of 7

Contact: Geoff Bell

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.



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: <u>G2S Environmental Consulting</u>		Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)		Regular [R] <input checked="" type="checkbox"/> Standard TAT if received by 3 pm - business days - no surcharges apply																																																				
Contact: <u>Rachael Lesmeister</u>		Quality Control (QC) Report with Report <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		PRIORITY (Business Days)		EMERGENCY																																																		
Phone: <u>416-275-3954</u>		<input checked="" type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked		4 day [P4-20%] <input type="checkbox"/>		1 Business day [E - 100%] <input type="checkbox"/>																																																		
Company address below will appear on the final report		Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX		3 day [P3-25%] <input type="checkbox"/>		Same Day, Weekend or Statutory holiday [E2 -200% (Laboratory opening fees may apply)] <input type="checkbox"/>																																																		
Street: <u>37 Sandiford Dr. Suite 411</u>		Email 1 or Fax: <u>jackysa@g2senvironmental.com</u>		2 day [P2-50%] <input type="checkbox"/>		Date and Time Required for all E&P TATs: _____ dd-mmm-yy hh:mm																																																		
City/Province: <u>Stouffville ON</u>		Email 2: <u>danahod</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>rochaella</u>		Analysis Request																																																				
Invoice To: Same as Report To <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Invoice Distribution		Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below																																																				
Copy of Invoice with Report <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Select Invoice Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">NUMBER OF CONTAINERS</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Metals</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">OC Pesticides</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Grain Size (Sieve test)</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">PH</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">SAMPLES ON HOLD</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">SUSPECTED HAZARD (see Special Instructions)</td> </tr> <tr> <td>1</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr> <td>1</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> </tr> </table>				NUMBER OF CONTAINERS	Metals	OC Pesticides	Grain Size (Sieve test)	PH	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)	1	X	X					2	X	X					2	X	X					1	X						1			X	X			1				X		
NUMBER OF CONTAINERS	Metals	OC Pesticides	Grain Size (Sieve test)					PH	SAMPLES ON HOLD	SUSPECTED HAZARD (see Special Instructions)																																														
1	X	X																																																						
2	X	X																																																						
2	X	X																																																						
1	X																																																							
1			X	X																																																				
1				X																																																				
Project Information		Oil and Gas Required Fields (client use)																																																						
ALS Account # / Quote #: <u>Q 78169</u>		AFE/Cost Center: _____ PO#: _____																																																						
Job #: <u>G2S204463</u>		Major/Minor Code: _____ Routing Code: _____																																																						
PO / AFE: <u>NE corner of Hwy 26 + 10th Line</u>		Requisitioner: _____																																																						
LSD: _____		Location: _____																																																						
ALS Lab Work Order # (lab use only): <u>L2480005</u>		ALS Contact: <u>Amanda F.</u>		Sampler: <u>Rachael L.</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																																																				
	TP101-SS1	24-Jul-20	2:00	SOIL																																																				
	TP102-SS1	↓	↓	↓																																																				
	TP103-SS1																																																							
	TP104-SS1																																																							
	TP105-SS1																																																							
	TP106-SS1																																																							
	TP103-SS2					X	X																																																	
	TP104-SS2						X																																																	
Drinking Water (DW) Samples¹ (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? <input type="checkbox"/> YES <input type="checkbox"/> NO		Please compare to Table 2 Residential! + Please do Grain Size PSA +/- 75um. test Thanks!		Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>																																																				
Are samples for human consumption/ use? <input type="checkbox"/> YES <input type="checkbox"/> NO				Ice Packs <input type="checkbox"/> Ice Cubes <input checked="" type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>																																																				
				Cooling Initiated <input type="checkbox"/>																																																				
				INITIAL COOLER TEMPERATURES °C _____ FINAL COOLER TEMPERATURES °C _____																																																				
				21																																																				
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)		FINAL SHIPMENT RECEPTION (lab use only)																																																				
Released by: <u>Rachael Lesmeister</u> Date: <u>July 27/20</u> Time: <u>9:39</u>		Received by: _____ Date: _____ Time: _____		Received by: <u>DB</u> Date: <u>07/27/20</u> Time: <u>14:35</u>																																																				

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