

DS Project No. 20-128-100

July 29, 2020

Mayfield West 2 Landowners Group c/o Glen Schnarr & Associates Inc. 10 Kingsbridge Garden Circle, Suite 700 Mississauga, ON L5R 3K6

TOWN OF CALEDON PLANNING RECEIVED Nov.30,2021

Attention: Mr. Jason Afonso Via email: jasona@gsai.ca

RE: Baseline Water Well Survey – Mayfield West, Phase 2, Caledon, ON

### **1.0 INTRODUCTION**

DS Consultants Ltd. (DS) was retained by Mayfield West 2 Landowners Group to complete a baseline water well survey within 500 m of the Site. The site is located between Chinguacousy Road and Hurontario Street. This study builds on a previous well study completed in March 2019 for the Cook Property, which lies within the west limits of the current study area. DS is currently conducting monthly water level monitoring for homeowners that have authorized DS to proceed with groundwater monitoring at the Cook Property. The current study area lies on the urban fringe of the City of Brampton and is bounded by residential areas to the south and east, agricultural lands to the north and west. **Figure 1** shows the site location.

### 1.1 Scope of Work

To complete the baseline water well survey, the following work was completed:

- i. Obtained Ministry of the Environment, Conservation and Parks (MECP) water well records (WWR).
- ii. Examined MECP WWR to identify wells potentially present within the study area.
- iii. Completed a door-to-door survey to confirm the locations of wells found in the MECP
   WWR and to locate any additional wells present in the area. Introductory letters and
   water well survey forms were delivered to residents.
- iv. Requested approval from homeowners to participate in the water well monitoring program.

### 2.0 BASELINE WATER WELL INVENTORY

Peel Region requires, as a condition of draft approval and subdivision agreement, the Developer to complete a private well inventory and monitoring program before, during and after construction. This report has been prepared on that basis and establishes the baseline conditions.

### 2.1 Current Groundwater Use

Based on MECP WWR review and information available from other database searches, one hundred and fifty-two (152) water well records were identified as water supply wells, monitoring wells, test holes, municipal, domestic, irrigation, livestock etc., within 500 m of the site. **Figure 1** shows the MECP Water Well location plan. Within 500 m of the site a total of twenty-six (26) residences were identified within this study area. Private domestic water supply wells are generally drilled into the shale bedrock in varying depths along with localized discontinuous sand lenses within the till overburden.

### 2.2 Door to Door Well Survey

To verify the findings from the MECP WWR search, a door to door well survey was completed in April 2019 for the Cook Property and in June and July 2020 for the expanded Site. To begin the survey, a letter of introduction regarding the water well survey was prepared and delivered to residences in the study area. The letter explained the purpose of the study and requested the participation of the residents. A copy of the introductory letter has been attached in **Appendix A**. During the survey, DS staff visited houses within 500 m of the site and, if a resident was home, DS interviewed the resident and completed the well survey to document the current condition and use of their well(s) with homeowner's consent.

The survey included questions about the wells (e.g. type of well, location, age, depth, etc.) the quantity of water (water levels, usage) and quality of water (clarity, odour, treatment types, etc.). If no one was home, a copy of the letter and a blank survey form were left at each location and the resident was requested to complete and return the form and to arrange a site visit by DS at the resident's convenience at a later date.

Between April 2019 and July 2020, a total of twenty-six (26) properties were visited during the doorto-door survey. In April 2019, homeowners located at 12192 and 12399 Chinguacousy Road authorized DS to obtain water levels but did not authorized DS to obtain water quality samples. In March 2020, DS was contacted by the homeowners at 12157 Chinguacousy Road to complete the water well survey and obtain a water quality sample. In June 2020, a total of two (2) surveys were completed at 12685 McLaughlin Road and 12700 McLaughlin Road. In addition, three (3) monitoring wells were observed and monitored for water levels at 12461 Mclaughlin Road. It should be noted that no domestic wells were observed at 12461 McLaughlin Road and that the property is boarded up and vacant. Residents at 12068 and 12104 Hurontario Street indicated that they do not have any water wells present on their property and that they are connected to the municipal water supply. In July 2020, monitoring well BH47 installed by WSP, has been incorporated into the water level monitoring program. Additionally, in July 2020, the homeowner at 12197 Chinguacousy Road authorized DS to obtain water levels but did not allow for a water quality sample to be collected. DS is currently waiting for permission from the Peel Region to access the monitoring well observed on the Region of Peel Property located at 2596 Mayfield Road. If permission is granted, DS will obtain a water quality sample and incorporate the well into the water level monitoring program.

All surveyed property owners provided authorization for DS to incorporate their water well into a monitoring program to assess groundwater levels prior to, during and post construction. Additional residences may respond in the future to the survey and may be added to the monitoring program. Groundwater level monitoring in surveyed wells has been summarized as follows:

Location	Date	Measured Water Depth Below Grade (m)	Measured Well Depth Below Grade (m)	Notes
	13-Feb-20			No Response from
12192 Chinguacousy Road		-		Homeowner
	12-Mar-20	21.9	23.0	-
	7-Jul-20	9.54		-
	13-Feb-20	-		No Response from Homeowner
12399 Chinguacousy Road	12-Mar-20	1.52	>30.0	-
	7-Jul-20	-		No Response from Homeowner
12197 Chinguacousy Road	7-Jul-20	5.74	>30.0	Owner indicated that the well is approximately 45 m deep
	26-Mar-20	4.03		-
12157 Chinguacousy Road	7-Jul-20	-	>30.0	No Response from Homeowner
12695 Mel aughlin Road	17-Jun-20	3.02	22.0	
	7-Jul-20	3.05		-
12700 McLaughlin Road	17-Jun-20	1.97	> 30.0	-
	7-Jul-20	-	-	Owner Refused
12461 McLaughlin Road (GooPro BH2)	19-June-20	2.07	5.91	Manitaring Wall
	7-Jul-20	3.48		wonitoring wen
12461 McLaughlin Road (GeoPro BH4)	19-June-20	1.33	6.05	Monitoring Wall
	7-Jul-20	2.73		wontoning wen
12461 McLaughlin Road (no well ID)	19-June-20	1.30	6.14	Monitoring Wall
	7-Jul-20	2.66		
BH47 (WSP)	7-Jul-20	2.14	7.75	Monitoring Well

#### **Table 1: Summary of Groundwater Level Readings**

### **3.0 PRE-CONSTRUCTION BASELINE GROUNDWATER CONDITIONS**

### **3.1 Groundwater Quality**

Groundwater samples were collected directly from the water wells during the well survey from 12685 McLaughlin Road, 12700 McLaughlin Road and 12157 Chinguacousy Road (**Figure 1**).

All water samples were submitted to SGS Laboratories, a CALA-certified laboratory in Lakefield and analyzed for total coliform, Escherichia coli (E-coli) and nitrate, in accordance with Peel Region guidelines and compared against Ontario Drinking Water Standards (ODWS). The analytical results are provided in **Appendix B** and summarized below. The homeowners and the Peel Region-Public Health were notified within 24 hours of DS receiving the analytical results of the exceedances noted below.

Parameter	Unit	ODWS	12685 McLaughlin Rd.	12700 McLaughlin Rd.	12157 Chinguacousy Rd.
Total Coliforms	mg/L	ND	73	760	9
Escherichia coli (E. coli)	mg/L	ND	NDGOT	2	NDGOT
Nitrate	mg/L	10	0.051	4.17	0.097
Notes:					
ODWS – Ontario Drinking W	ater Standa	ards (June 2006)			
0.00 -Exceeds Criteria					
Non-Detectable					
NDOGT - No Data Overgrow	n with Targ	et Bacteria			

#### **Table 2: Summary of Groundwater Quality Results**

### 4.0 MONITORING

For homeowners that have authorized DS to proceed with groundwater monitoring, DS will conduct water level monitoring, which will be completed on a monthly basis throughout construction and subsequently continue on a monthly basis for a period of one (1) year after construction. Should additional homeowners request to join the well study in the future, they may be added to the monitoring program. At the completion of construction, DS will prepare an interim report submitted to the Region of Peel for their records. After one (1) year of post-construction monitoring, a summary report shall be submitted to the Region of Peel for final acceptance.

### 5.0 CONTINGENCY PLAN

Should one of the homeowners within the 500 m zone of the construction site file a complaint about their well water quantity or quality, DS will immediately investigate and ensure the homeowner has a safe supply of drinking water within 24 hours. This response may include provision of bottled water, adding water directly to the well if possible, or providing a temporary tank and potable water supply. This service shall be maintained until water levels in the affected well are restored, or it is determined a long-term solution is required. If an affected well is determined to have been permanently degraded, deepening the existing well, drilling a new well, or connection to municipal supply will be considered.

We trust that this report satisfies your needs. Should you have any questions or need more information, please do not hesitate to contact our office.

#### **DS Consultants Ltd.**

Prepared By:

Dorothy Garda, M.Sc. Junior Hydrogeologist

Reviewed By:

Marti Ce

Martin Gedeon, M.Sc., P.Geo. Senior Hydrogeologist

### Attachments

- Figure 1 Site Location and MECP Water Well Records
- Appendix A Resident Introductory Letter
- Appendix B Laboratory Certificates of Analyses



# **Figures**

C:\0Sharon\20-128-100 MW2 Well Monitoring\1-QGIS\HydroG\Figure 1 - Site Location and MECP Well Records.qgs Jul-29 12:36





# **Appendix A**



#### Project ID: 20-128-100

June 17<sup>th</sup>, 2020

Dear Resident/ Property Owner:

### RE: PRIVATE WELL INVENTORY Mayfield West, Caledon, ON HYDROGEOLOGICAL INVESTIGATION

DS Consultants Ltd. (DS) was retained by Mayfield West 2 Landowners Group., to undertake a private well inventory for properties within the vicinity of the proposed future development at the Site, located northeast of the intersection of Chinguacousy road and Mayfield road and extending to the intersection of Mayfield Road and Hurontario Street in Caledon, Ontario. The proposed well inventory is being conducted to identify private wells within the vicinity of the proposed future development.

Your property is located within the study area. If you are serviced by a private supply well, we would appreciate your assistance with this survey. However, **participation is voluntary.** 

The purpose of our visit is to conduct interviews with local residents and land owners in regard to water supply wells in operation surrounding the development project. The information we hope to obtain will include:

- The location of the well(s) and septic bed (if known);
- The depth, diameter and construction details of the well(s);
- The pump type and depth, and any water treatment system in use;
- Information regarding the past performance of the well(s);
- A water quality sample

A copy of the completed survey will be provided upon request. We anticipate that the survey can be answered in a few minutes. If there is access to your well, and with your permission, our representatives will measure the depth and water level in your well.

If you would like to participate in the survey, and there is a particular time that suits your schedule, please contact Dorothy Garda of DS at (905) 329-2735 or by e-mail at <u>dorothy.garda@dsconsultants.ca</u>, any questions you have regarding the survey can also be answered at the time. Thank you in advance for your helpful assistance

Yours Truly,

**DS Consultants Ltd.** 

brally hards

**Dorothy Garda.,M.Sc.** Junior Hydrogeologist



# **Appendix B**







### CA15372-JUN20 R1

20-128-100

Prepared for

**DS Consultants** 



#### First Page

CLIENT DETAILS	i	LABORATORY DETAIL	LS
Client	DS Consultants	Project Specialist	Jill Campbell, B.Sc.,GISAS
		Laboratory	SGS Canada Inc.
Address	6221 Highway 7 Unit 16, Vaughan	Address	185 Concession St., Lakefield ON, K0L 2H0
	Canada, L4H 0K8		
	Phone: 905-264-9393. Fax:905-264-2685		
Contact	Dorothy Garda	Telephone	2165
Telephone	905-264-9393	Facsimile	705-652-6365
Facsimile	905-264-2685	Email	jill.campbell@sgs.com
Email	dorothy.garda@dsconsultants.ca	SGS Reference	CA15372-JUN20
Project	20-128-100	Received	06/18/2020
Order Number		Approved	06/25/2020
Samples	Water (1)	Report Number	CA15372-JUN20 R1
		Date Reported	06/25/2020

COMMENTS

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

MAC - (ADVERSE) Above Maximum Acceptable Concentration

Temperature of Sample upon Receipt: 7 degrees C Cooling Agent Present:Yes Custody Seal Present:Yes

Chain of Custody Number:014070

SIGNATORIES

Jill Campbell, B.Sc., GISAS

Jill Cumpbell



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#### CA15372-JUN20 R1

Client: DS Consultants

Project: 20-128-100

Project Manager: Dorothy Garda

Samplers: Dorothy Garda

PACKAGE: Metals and Inorganic	<b>cs</b> (WATER)		Sample Nun	nber 8
			Sample Na	MR-12685
				McLaughlin Rd
L1 = ODWS_MAC / WATER / Table 1,2 and 3 -	Drinking Water - Reg O.169_03		Sample Ma	atrix Water
			Sample [	Date 17/06/2020
Parameter	Units	RL	L1	Result
Metals and Inorganics				
Nitrite (as N)	as N mg/L	0.003	1	<0.003
Nitrate (as N)	as N mg/L	0.006	10	0.051
Nitrate + Nitrite (as N)	as N mg/L	0.006		0.051
Microbiology				
E. Coli	cfu/100mL	0		0
Total Coliform	cfu/100mL	0		73



#### EXCEEDANCE SUMMARY

				ODWS_MAC /					
			WATER / Table						
		1,2 and 3 - Drinking							
	Water								
				O.169_03					
Parameter	Method	Units	Result	L1					
NR-12685 McLaughlin Rd									
Total Coliform	OMOE	cfu/100mL	73	0					
	MICROMFDC-E3407A								



#### QC SUMMARY

#### Anions by IC

#### Method: EPA300/MA300-Ions1.3 | Internal ref.: ME-CA-[ENVIIC-LAK-AN-001

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		Ma	atrix Spike / Ref.	
	Reference			Blank	RPD	AC (%)	Spike	Recover (%	y Limits 6)	Spike Recovery	Recover (%	y Limits
						(70)	(%)	Low	High	(%)	Low	High
Nitrate + Nitrite (as N)	DIO0474-JUN20	mg/L	0.006	<0.006	NA		NA			NA		
Nitrite (as N)	DIO0474-JUN20	mg/L	0.003	<0.003	ND	20	95	80	120	102	75	125
Nitrate (as N)	DIO0474-JUN20	mg/L	0.006	<0.006	1	20	99	80	120	104	75	125
Nitrate + Nitrite (as N)	DIO0475-JUN20	mg/L	0.006	<0.006	NA		NA			NA		
Nitrite (as N)	DIO0475-JUN20	mg/L	0.003	<0.003	ND	20	95	80	120	98	75	125
Nitrate (as N)	DIO0475-JUN20	mg/L	0.006	<0.006	0	20	99	80	120	93	75	125



#### QC SUMMARY

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

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

Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

RL: Reporting limit

RPD: Relative percent difference

AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL. Matrix Spike Qualifier: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

#### LEGEND

#### FOOTNOTES

NSS Insufficient sample for analysis.

- RL Reporting Limit.
- ↑ Reporting limit raised.
- ↓ Reporting limit lowered.
- $\ensuremath{\textbf{NA}}$  The sample was not analysed for this analyte
- ND Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act" published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated. This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms\_and\_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

This report must not be reproduced, except in full. This report supersedes all previous versions.

-- End of Analytical Report --

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sion #: 1.2 Note: Submission of samples to SGS	is acknowledgement th	at you have been	provided dir	ection on sample co	llection	handling	and tran	sportation	n of sam	ples. {2}	Submiss	sion of s	samples	to SGS	is consi	idered a	authoriza	tion for	completion	of work. S	Signatures	s may ap	pear on thi	s form or be retained on file in







### CA15372-JUN20 R1

20-128-100

Prepared for

**DS Consultants** 



#### First Page

CLIENT DETAILS	i	LABORATORY DETAIL	LS
Client	DS Consultants	Project Specialist	Jill Campbell, B.Sc.,GISAS
		Laboratory	SGS Canada Inc.
Address	6221 Highway 7 Unit 16, Vaughan	Address	185 Concession St., Lakefield ON, K0L 2H0
	Canada, L4H 0K8		
	Phone: 905-264-9393. Fax:905-264-2685		
Contact	Dorothy Garda	Telephone	2165
Telephone	905-264-9393	Facsimile	705-652-6365
Facsimile	905-264-2685	Email	jill.campbell@sgs.com
Email	dorothy.garda@dsconsultants.ca	SGS Reference	CA15372-JUN20
Project	20-128-100	Received	06/18/2020
Order Number		Approved	06/25/2020
Samples	Water (1)	Report Number	CA15372-JUN20 R1
		Date Reported	06/25/2020

COMMENTS

MAC - Maximum Acceptable Concentration

AO/OG - Aesthetic Objective / Operational Guideline

MDL - SGS Method Detection Limit

MAC - (ADVERSE) Above Maximum Acceptable Concentration

Temperature of Sample upon Receipt: 7 degrees C Cooling Agent Present:Yes Custody Seal Present:Yes

Chain of Custody Number:014070

SIGNATORIES

Jill Campbell, B.Sc., GISAS

Jill Cumpbell



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#### CA15372-JUN20 R1

Client: DS Consultants

Project: 20-128-100

Project Manager: Dorothy Garda

Samplers: Dorothy Garda

PACKAGE: Metals and Inorgan	nics (WATER)		Sample Nur	n <b>ber</b> 9
			Sample N	ame NR-12700
				McLaughlin Rd
L1 = ODWS_MAC / WATER / Table 1,2 and 3	- Drinking Water - Reg O.169_03		Sample M	<b>atrix</b> Water
			Sample	Date 17/06/2020
Parameter	Units	RL	L1	Result
Metals and Inorganics				
Nitrite (as N)	as N mg/L	0.003	1	<0.003
Nitrate (as N)	as N mg/L	0.006	10	4.17
Nitrate + Nitrite (as N)	as N mg/L	0.006		4.17
Microbiology				
E. Coli	cfu/100mL	0		2
Total Coliform	cfu/100mL	0		760



#### EXCEEDANCE SUMMARY

				ODWS_MAC /			
				1,2 and 3 - Drinking			
				Water - Reg			
				O.169_03			
Parameter	Method	Units	Result	L1			
NR-12700 McLaughlin Rd							
E.Coli	OMOE	cfu/100mL	2	0			
	MICROMFDC-E3407A						
Total Coliform	OMOE	cfu/100mL	760	0			
	MICROMFDC-E3407A						



#### QC SUMMARY

#### Anions by IC

#### Method: EPA300/MA300-Ions1.3 | Internal ref.: ME-CA-[ENVIIC-LAK-AN-001

Parameter	QC batch	atch Units RL Method				licate	LC	S/Spike Blank		Matrix Spike / Ref.			
	Reference			Blank	RPD	AC (%)	Spike	Recover (%	y Limits 6)	Spike Recovery	Recover (%	y Limits	
						(70)	(%)	Low	High	(%)	Low	High	
Nitrate + Nitrite (as N)	DIO0474-JUN20	mg/L	0.006	<0.006	NA		NA			NA			
Nitrite (as N)	DIO0474-JUN20	mg/L	0.003	<0.003	ND	20	95	80	120	102	75	125	
Nitrate (as N)	DIO0474-JUN20	mg/L	0.006	<0.006	1	20	99	80	120	104	75	125	
Nitrate + Nitrite (as N)	DIO0475-JUN20	mg/L	0.006	<0.006	NA		NA			NA			
Nitrite (as N)	DIO0475-JUN20	mg/L	0.003	<0.003	ND	20	95	80	120	98	75	125	
Nitrate (as N)	DIO0475-JUN20	mg/L	0.006	<0.006	0	20	99	80	120	93	75	125	



#### QC SUMMARY

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

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

Reference Material: a material or substance matrix matched to the samples that contains a known amount of the analyte of interest. A reference material may be used in place of a matrix spike.

RL: Reporting limit

RPD: Relative percent difference

AC: Acceptance criteria

Multielement Scan Qualifier: as the number of analytes in a scan increases, so does the chance of a limit exceedance by random chance as opposed to a real method problem. Thus, in multielement scans, for the LCS and matrix spike, up to 10% of the analytes may exceed the quoted limits by up to 10% absolute and the spike is considered acceptable.

Duplicate Qualifier: for duplicates as the measured result approaches the RL, the uncertainty associated with the value increases dramatically, thus duplicate acceptance limits apply only where the average of the two duplicates is greater than five times the RL. Matrix Spike Qualifier: for matrix spikes, as the concentration of the native analyte increases, the uncertainty of the matrix spike recovery increases. Thus, the matrix spike acceptance limits apply only when the concentration of the matrix spike is greater than or equal to the concentration of the native analyte.

#### LEGEND

#### FOOTNOTES

NSS Insufficient sample for analysis.

- RL Reporting Limit.
- ↑ Reporting limit raised.
- ↓ Reporting limit lowered.
- $\ensuremath{\textbf{NA}}$  The sample was not analysed for this analyte
- ND Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

Analysis conducted on samples submitted pursuant to or as part of Reg. 153/04, are in accordance to the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act" published by the Ministry and dated March 9, 2004 as amended.

SGS provides criteria information (such as regulatory or guideline limits and summary of limit exceedances) as a service. Every attempt is made to ensure the criteria information in this report is accurate and current, however, it is not guaranteed. Comparison to the most current criteria is the responsibility of the client and SGS assumes no responsibility for the accuracy of the criteria levels indicated. This document is issued, on the Client's behalf, by the Company under its General Conditions of Service available on request and accessible at http://www.sgs.com/terms\_and\_conditions.htm. The Client's attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

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-- End of Analytical Report --

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	- London: 657 Cons	sortium Court, I	ondon, ON	I, N6E 2S8 Phone	: 519-0	672-450	) Toll F	ee: 877	-848-8	060 Fax	x: 519-6	72-03	61	V				in and the second			and the second			Page of
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### CA15472-MAR20 R1

18-531-100

Prepared for

**DS Consultants** 



#### First Page

CLIENT DETAILS		LABORATORY DETAILS	
Client	DS Consultants	Project Specialist	Brad Moore Hon. B.Sc
		Laboratory	SGS Canada Inc.
Address	6221 Highway 7 Unit 16, Vaughan	Address	185 Concession St., Lakefield ON, K0L 2H0
	Canada, L4H 0K8		
	Phone: 905-264-9393. Fax:905-264-2685		
Contact	Dorothy Garda	Telephone	705-652-2143
Telephone	905-264-9393	Facsimile	705-652-6365
Facsimile	905-264-2685	Email	brad.moore@sgs.com
Email	dorothy.garda@dsconsultants.ca	SGS Reference	CA15472-MAR20
Project	18-531-100	Received	03/26/2020
Order Number		Approved	04/01/2020
Samples	Water (1)	Report Number	CA15472-MAR20 R1
		Date Reported	04/01/2020

#### COMMENTS

MAC - Maximum Acceptable Concentration AO/OG - Aesthetic Objective / Operational Guideline MDL - SGS Method Detection Limit

Temperature of Sample upon Receipt: 9 degrees C Cooling Agent Present:Yes Custody Seal Present:Yes

Chain of Custody Number:013302

Samples are non-reportable

SIGNATORIES



#### TABLE OF CONTENTS

First Page	1
Index	2
Results	3
Exceedance Summary	4
QC Summary	5-6
Legend	7
Annexes	8



#### CA15472-MAR20 R1

Client: DS Consultants

Project: 18-531-100

Project Manager: Dorothy Garda

Samplers: Dorothy Garda

	le and Inorganica		Sample Numl	ber 8
(WATED)	is and morganics		eanple Hum	·
			Sample Na	<b>ne</b> 12157
			Gampie Ha	Chinguagouov Dd
			Comple Me	
L1 = ODWS_MAC / WATER / Table 1,2 and 3 -	Drinking Water - Reg O.169_03		Sample Ma	unx vvater
			Sample Da	ate 26/03/2020
Parameter	Units	RL	L1	Result
Metals and Inorganics				
Nitrite (as N)	as N mg/L	0.003		0.003# <mdl< td=""></mdl<>
Nitrate (as N)	as N mg/L	0.006	10	0.097
Nitrate + Nitrite (as N)	as N mg/L	0.006		0.097
PACKAGE: ODWS_MAC - Micro	<b>biology</b> (WATER)		Sample Numl	ber 8
			Sample Na	me 12157
				Chinguacousy Rd
L1 = ODWS_MAC / WATER / Table 1,2 and 3 -	Drinking Water - Reg O.169_03		Sample Ma	<b>trix</b> Water
			Sample Da	ate 26/03/2020
Parameter	Units	RL	L1	Result
Microbiology				
E. Coli	cfu/100mL	-		0
Total Coliform	cfu/100mL	-		9



#### EXCEEDANCE SUMMARY

				ODWS_MAC /
				WATER / Table
				1,2 and 3 - Drinking
				Water - Reg
				O.169_03
Parameter	Method	Units	Result	L1
12157 Chinguacousy Rd				
Total Coliform	OMOE	CFU/100 ml	9	0
	MICROMFDC-E3407A			



#### QC SUMMARY

#### Anions by IC

#### Method: EPA300/MA300-Ions1.3 | Internal ref.: ME-CA-[ENVIIC-LAK-AN-001

Parameter	QC batch	Units	RL	Method	Dup	licate	LC	S/Spike Blank		Ma	atrix Spike / Ref.	
	Reference			Blank	RPD	AC	Spike	Recove (%	ry Limits 6)	Spike Recovery	Recovery Limits (%)	
						(76)	Recovery (%)	Low	High	(%)	Low	High
Nitrate + Nitrite (as N)	DIO0405-MAR20	mg/L	0.006	<0.006	NA		NA			NA		
Nitrite (as N)	DIO0405-MAR20	mg/L	0.003	<0.003	ND	20	98	80	120	104	75	125
Nitrate (as N)	DIO0405-MAR20	mg/L	0.006	<0.006	1	20	99	80	120	105	75	125
Nitrate + Nitrite (as N)	DIO0434-MAR20	mg/L	0.006	<0.006	NA		NA			NA		
Nitrite (as N)	DIO0434-MAR20	mg/L	0.003	<0.003	8	20	93	80	120	95	75	125
Nitrate (as N)	DIO0434-MAR20	mg/L	0.006	<0.006	ND	20	98	80	120	103	75	125

#### Microbiology

#### Method: OMOE MICROMFDC-E3407A | Internal ref.: ME-CA-[ENV]MIC-LAK-AN-001

Parameter	QC batch	Units	RL	Method	Dup	icate	LC	S/Spike Blank		Matrix Spike / Ref.				
	Reference			Blank	RPD	AC	Spike	Recover (%	y Limits )	Spike Recovery	Recover	y Limits		
					(%)	(%)	(%)	Low	High	(%)	Low	High		
E. Coli	BAC9407-MAR20	cfu/100mL	-	ACCEPTED	ACCEPTE									
					D									
Total Coliform	BAC9407-MAR20	cfu/100mL	-	ACCEPTED	ACCEPTE									
					D									



#### QC SUMMARY

Method Blank: a blank matrix that is carried through the entire analytical procedure. Used to assess laboratory contamination.

Duplicate: Paired analysis of a separate portion of the same sample that is carried through the entire analytical procedure. Used to evaluate measurement precision.

LCS/Spike Blank: Laboratory control sample or spike blank refer to a blank matrix to which a known amount of analyte has been added. Used to evaluate analyte recovery and laboratory accuracy without sample matrix effects.

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RPD: Relative percent difference

AC: Acceptance criteria

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#### LEGEND

#### **FOOTNOTES**

NSS Insufficient sample for analysis.

- RL Reporting Limit.
- ↑ Reporting limit raised.
- ↓ Reporting limit lowered.
- $\ensuremath{\textbf{NA}}$  The sample was not analysed for this analyte
- ND Non Detect

Samples analysed as received. Solid samples expressed on a dry weight basis. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

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-- End of Analytical Report --

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J Table 3     Agri/Other     Medium       Table     Fine		ODUS	Mu	unicipality:	3%	S AR-so	g, CrV	ïż	NU Z	1	clor	Can The					Ŧ	a	12			tior	tests	The stand and
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