



# 2020 Annual Performance & Summary Report Melrose Drinking Water System

**Date: January 7, 2021**

*Alternative Formats: If you require this document in an alternative format please contact the Municipality of Middlesex Centre at 519-666-0190 or [customerservice@middlesexcentre.on.ca](mailto:customerservice@middlesexcentre.on.ca)*

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## Introduction

The Municipality of Middlesex Centre has prepared a report summarizing system operation and water quality for every municipal drinking water system annually. The reports detail the latest water quality testing results, water quantity statistics and any adverse conditions that may have occurred for the previous year. They are available for review by the end of February on the Municipality of Middlesex Centre website at [www.middlesexcentre.on.ca/services/residents/water](http://www.middlesexcentre.on.ca/services/residents/water) or by contacting the Public Works & Engineering Department.

All efforts have been made to ensure the information presented in this report is accurate. If you have any questions or comments concerning the report, please contact the Municipality of Middlesex Centre.

**Table 1 – Plant Information**

Drinking Water System	Melrose Well Supply System
Drinking Water System Number	260002915
Drinking Water System Owner & Contact Information	Municipality of Middlesex Centre Small Municipal Residential System 10227 Ilderton Road, RR #2 Ilderton, Ontario N0M 2A0
Reporting Period	January 1, 2020 to December 31, 2020

## Section A – System Description

The Melrose Drinking Water System is owned by the Municipality of Middlesex Centre and operated by the Municipality of Middlesex Centre. The Melrose Drinking Water System is a ground water supply system serving the settlement area of Melrose that presently services 64 lots with an estimated population of 200 residents. The Melrose Drinking Water System consists of two deep-drilled groundwater production wells operating under Permit to Take Water # P-300-8072386149 that pump raw water through a sodium hypochlorite pre-disinfection system into an aerator for iron oxidation to a reservoir. From the reservoir, the water is transferred to three multimedia pressure filters for iron removal. After the water is filtered it can be chlorinated a second time, analyzed for free chlorine residual and stored in a triple-chambered underground clear well. From the clear well the water is pumped into the distribution system and can be disinfected for a third time with sodium hypochlorite. The treated water is analyzed for both turbidity and free chlorine residual using online analyzers with the values being recorded SCADA. The system operates under Municipal Drinking Water License Number 052-103 and Drinking Water Works Permit Number 052-203. The system is maintained by licensed water system operators, who

operate treatment and monitoring equipment and collect samples as specified by the Regulation. Alarms automatically notify operators in the event of failure of critical operational requirements. The water treatment chemicals used on site is a 12% sodium hypochlorite solution.

## Section B – Significant Modifications & Replacements

Modifications & Replacements	
Rebuild of a multistage vertical turbine water distribution pump	\$ 7,076.20

## Section C – Microbiological Testing

### *(I) E. coli & Total Coliform*

Bacteriological tests for E. coli and total coliforms are collected from the raw water at the facility and treated water from the distribution system. Raw water is collected once per month on each well, and the distribution water is collected on a bi-weekly schedule. Extra samples are taken after major repairs or maintenance work. Any E. coli or total coliform results above 0 in the treated distribution water must be reported to the Ministry of the Environment, Conservation and Parks (MECP) and Medical Officer of Health (MOH). Resamples and any other required actions are taken as quickly as possible. The results from the 2020 sampling program are shown on the table below. There were no adverse test results from 26 distribution water samples in this reporting period.

**Table 2 – E. Coli & Total Coliform Samples**

	Number of Samples	Range of E. coli Results Min – Max	Range of Total Coliform Results Min – Max
Raw	24	0 – 0	0 – 0
Distribution	26	0 - 0	0 - 0

### *(II) Heterotrophic Plate Count (HPC)*

HPC analyses are required from the distribution water on a bi-weekly basis. HPC should be less than 500 colonies per 1 mL. Results over 500 colonies per 1 mL may indicate a change in water quality but it is not considered an indicator of unsafe water. The 2020 results are shown in the table below.

**Table 3 – Heterotrophic Plate Count (HPC) Samples**

Parameters	Number of Samples	Range of HPC Results Min-Max
Distribution	26	<10 - <20

## Section D – Chemical Testing

The Safe Drinking Water Act requires periodic testing of the water for chemical parameters. The sampling frequency varies for different types and sizes of water systems. If the concentration of a parameter is above half of the Maximum Allowable Concentration (MAC) under the Ontario Drinking Water Quality Standards, an increased testing frequency of once every three months is required by the Regulation. Where concerns regarding a parameter exist, the MECP can also require additional sampling be undertaken.

Nitrate and nitrate samples are required every 3 months in normal operation.

**Table 4 – Quarterly Nitrate & Nitrite**

Parameter & Sample Date	Result (mg/l)	MAC (mg/l)	Exceedance
<b>Nitrate</b>			
1st Quarter	0.008	10.0	No
2nd Quarter	0.008	10.0	No
3rd Quarter	<0.006	10.0	No
4th Quarter	<0.006	10.0	No
<b>Nitrite</b>			
1st Quarter	<0.003	1.0	No
2nd Quarter	<0.003	1.0	No
3rd Quarter	<0.003	1.0	No
4th Quarter	<0.003	1.0	No

Trihalomethanes (THM) and total Haloacetic Acids (HAA) are by-products of the disinfection process. As described in Schedule 13.6 (4) a small municipal system which obtains test results from the previous 12 consecutive calendar quarters and no single test result is above 0.050 mg/l may cease sampling and testing for eight consecutive calendar quarters. Middlesex Centre is required to begin sampling for THM for eight more consecutive months as outlined in Schedule 13.6(4). Samples for Haloacetic Acid (HAA) were collected every 3 months from the distribution system.

**Table 5 – Quarterly Trihalomethane & Haloacetic Acid**

Parameter & Sample Date	Result (mg/l)	Annual Rolling Average (mg/l)	MAC (mg/l)	Exceedance
Trihalomethane				
1st Quarter	0.014	0.014	100	No
2nd Quarter	0.015	0.014	100	No
3rd Quarter	0.010	0.013	100	No
4th Quarter	0.014	0.013	100	No
Haloacetic Acid (HAA)				
1st Quarter	<0.0053	0.0053	80	No
2nd Quarter	<0.0053	0.0053	80	No
3rd Quarter	<0.0053	0.0053	80	No
4th Quarter	<0.0053	0.0053	80	No

The following Table summarizes the most recent test results for Sodium and Fluoride. Samples collect and test at least one (1) water sample every 60 months (5 years) and report upon the results.

**Table 6 – Sodium & Fluoride**

Parameter	Sample Date	Result Value (mg/L)	MAC (mg/L)
Sodium	January 2, 2017	24.4	20
Sodium	January 9, 2017	25.4*	20
Fluoride	January 2, 2017	1.02	1.5

*\*Sodium levels between 20 – 200 mg/L must be reported every 5 years. Natural levels of fluoride between 1.5 – 2.4 mg/L must be reported every 5 years. Sodium samples are scheduled to be collected in 2021.*

The following Table summarizes the most recent results for the Lead Testing Program. Lead samples are twice per year, in the winter sample period and the summer sample period as outlined below. Alkalinity and pH are monitored twice per year in the distribution system to ensure water quality is consistent and does not facilitate leaching of lead into the water.

**Table 7 – Lead Sampling**

Parameter	Result Value	MAC	Exceedance
Winter Sample (Dec. 15 – April 15)			
Lead (ug/l)	0.17	10	No
Distribution Alkalinity (mg/l)	224	*30 - 500	No
Distribution pH	8.06	-	No
Summer Sample (June 15 – Oct. 15)			
Lead (ug/l)	0.33	10	No
Distribution Alkalinity	229	*30 – 500	No
Distribution pH	7.69	-	No

*\*Distribution alkalinity is an aesthetic objective / Operational Guideline with a range between 30 mg/l to 500 mg/l*

The following Table summarizes the most recent test results for Schedules 23 and 24. Testing is required every 5 years for secure groundwater wells.

**Table 8 – Schedule 23 & 24**

Parameter	Sample Date	Treated Water Value (ug/l)	Exceedance
Antimony	01/02/2017	0.02	No
Arsenic	01/02/2017	0.3	No
Barium	01/02/2017	148	No
Boron	01/02/2017	145	No
Cadmium	01/02/2017	0.006	No
Chromium	01/02/2017	0.57	No
Mercury	01/02/2017	ND	No
Selenium	01/02/2017	ND	No
Uranium	01/02/2017	0.087	No
Alachlor	01/02/2017	ND	No
Atrazine + N-dealkylated metabolites	01/02/2017	ND	No
Atrazine	01/02/2017	ND	No
Densethyl atrazine	01/02/2017	ND	No
Azinphos-methyl	01/02/2017	ND	No
Benzene	01/02/2017	ND	No
Benzo(a)pyrene	01/02/2017	ND	No
Bromoxynil	01/02/2017	ND	No

Parameter	Sample Date	Treated Water Value (ug/l)	Exceedance
Carbaryl	01/02/2017	ND	No
Carbofuran	01/02/2017	ND	No
Carbon Tetrachloride	01/02/2017	ND	No
Chlorpyrifos	01/02/2017	ND	No
Diazinon	01/02/2017	ND	No
Dicamba	01/02/2017	ND	No
1,2-Dichlorobenzene	01/02/2017	ND	No
1,4-Dichlorobenzene	01/02/2017	ND	No
1,2-Dichloroethane	01/02/2017	ND	No
1,1-Dichloroethylene (vinylidene chloride)	01/02/2017	ND	No
Dichloromethane	01/02/2017	ND	No
2-4 Dichlorophenol	01/02/2017	ND	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	01/02/2017	ND	No
Diclofop-methyl	01/02/2017	ND	No
Dimethoate	01/02/2017	ND	No
Diquat	01/02/2017	ND	No
Diuron	01/02/2017	ND	No
Glyphosate	01/02/2017	ND	No
Malathion	01/02/2017	ND	No
2-methyl-4chlorophenoxyacetic acid (MCPA)	01/02/2017	ND	No
Metolachlor	01/02/2017	ND	No
Metribuzin	01/02/2017	ND	No
Monochlorobenzene	01/02/2017	ND	No
Paraquat	01/02/2017	ND	No
Pentachlorophenol	01/02/2017	ND	No
Phorate	01/02/2017	ND	No
Picloram	01/02/2017	ND	No
Polychlorinated Biphenyls(PCB)	01/02/2017	ND	No
Prometryne	01/02/2017	ND	No
Simazine	01/02/2017	ND	No
Terbufos	01/02/2017	ND	No
Tetrachloroethylene	01/02/2017	ND	No
2,3,4,6-Tetrachlorophenol	01/02/2017	ND	No
Triallate	01/02/2017	ND	No
Trichloroethylene	01/02/2017	ND	No

Parameter	Sample Date	Treated Water Value (ug/l)	Exceedance
2,4,6-Trichlorophenol	01/02/2017	ND	No
Trifluralin	01/02/2017	ND	No
Vinyl Chloride	01/02/2017	ND	No

ND = Non-Detect

## Section E – Operational Monitoring

### *(I) Chlorine Residual*

Free chlorine levels of the treated water are monitored continuously at the discharge point of the Water Treatment Facility. In the distribution system, free chlorine is checked twice weekly at various locations throughout the distribution system. As a target, free chlorine residual within the distribution system should be above 0.20 mg/L. A free chlorine level lower than 0.05 mg/L must be reported and corrective action taken. There were no reportable incidents in 2020. A summary of the chlorine residual readings is provided in the table below.

**Table 9 – Chlorine Residuals**

Parameter	Number of Tests or Monitoring Frequency	Range of Results (Min – Max)
Chlorine residual in distribution (mg/l)	104	0.87 – 1.39
Chlorine residual after treatment (mg/L)	Continuous	0.94 – 1.46

### *(II) Turbidity*

Turbidity of treated water is continuously monitored at the treatment facility, as a change in turbidity can indicate an operational problem. The turbidity of untreated water from the wells is checked monthly. Turbidity is measured in nephelometric turbidity units (NTU). Under Regulation 170/03 turbidity in groundwater is not reportable however, turbidity should be < 1 NTU at the treatment plant and < 5 NTU in the distribution system. A summary of the monitoring results for 2020 is provided in the table below.

**Table 10 – Turbidity**

Parameter	Number of Tests or Monitoring Frequency	Range of Results (Min – Max)
Turbidity after treatment (NTU)	Continuous	0.03 – 3.16

## Section F – Water Quantity

Continuous monitoring of flowrates from supply wells into the treatment system and from the facility into the distribution system is required by Regulation 170/03. The Municipal Drinking Water License and Permit to Take Water issued by the MECP regulate the amount of water that can be utilized over a given time period. A summary of the 2020 flows are provided below.

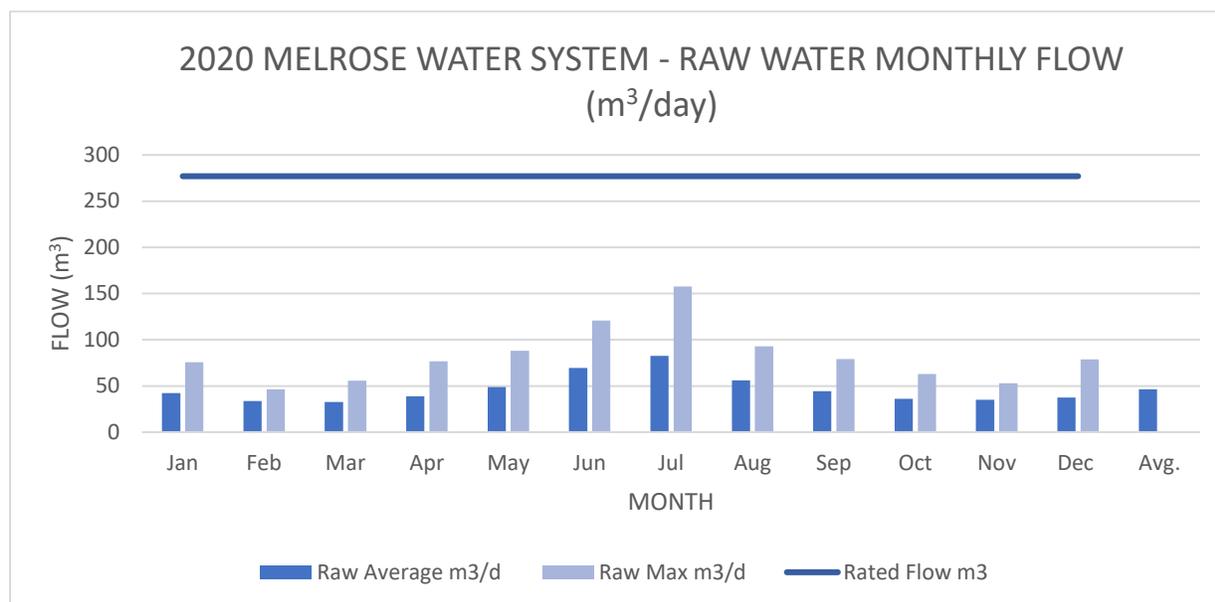
**Table 11 – Rated Capacity**

Flow Summary	Quantity
Permit to Take Water Limit	277 m <sup>3</sup> /d
Municipal Drinking Water License Limit	277 m <sup>3</sup> /d

**Table 12 – Monthly Raw Water Flows (m<sup>3</sup>/day)**

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
Rated Flow	m <sup>3</sup>	277	277	277	277	277	277	277	277	277	277	277	277	
Raw Average	m <sup>3</sup> /d	42.4	33.8	32.6	38.7	48.8	69.6	82.6	56.0	44.5	36.0	34.9	37.4	46.4
Raw Max	m <sup>3</sup> /d	75.6	46.5	55.7	76.8	88.1	120.9	157.5	93.0	79.2	63.0	52.8	78.9	

**Graph 1 – Monthly Flows (m<sup>3</sup>/day)**



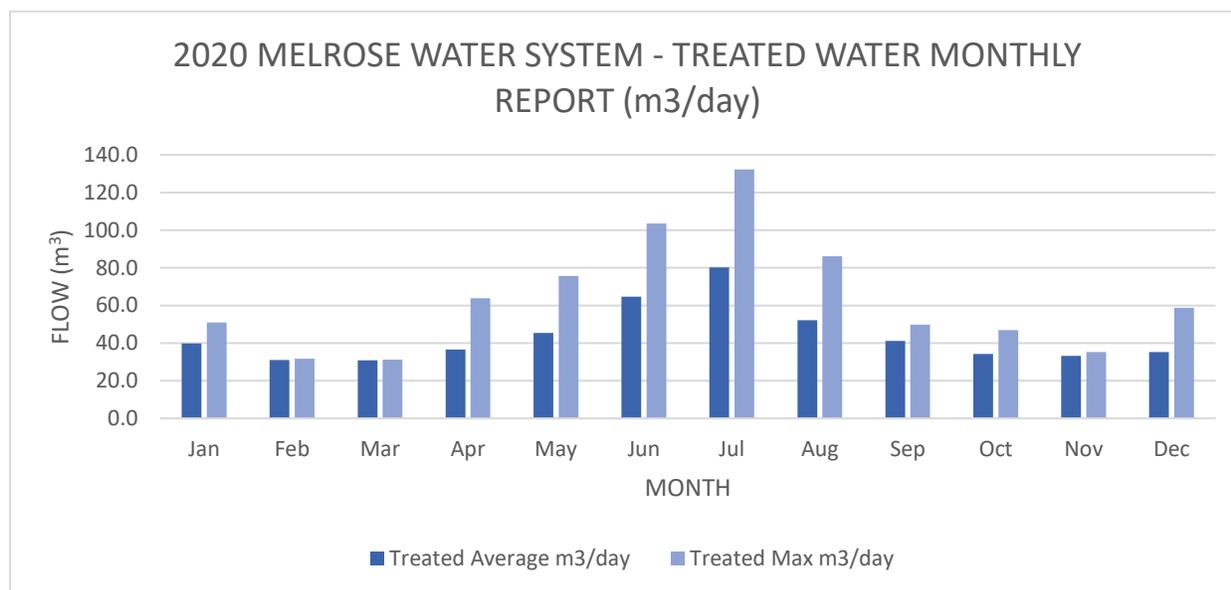
**Table 13 – Treated Water Monthly Flow Summary**

2020 Average Daily Treated Water Flow	43.7 m <sup>3</sup> /day
2020 Maximum Daily Treated Water Flow	132.31 m <sup>3</sup> /day
2020 Average Monthly Treated Water Flow	1,333 m <sup>3</sup>
2020 Total Amount of Treated Water Supplied	15,996 m <sup>3</sup>

**Table 14 – Treated Water Flow**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Avg (m <sup>3</sup> /d)	39.7	31.0	30.8	36.6	45.4	64.6	80.2	52.2	41.2	34.3	33.3	35.3
Max (m <sup>3</sup> /d)	51.0	31.7	31.3	63.8	75.6	103.6	132.3	86.2	49.8	47.0	35.2	58.8

**Graph 2 – Monthly Treated Flows (m<sup>3</sup>/day)**



***(I) Rated capacity assessment***

The table below illustrates the water supplied to the distribution system and the capacity of the system.

System Capability Assessment Comparison of Treated Water Rates: Melrose Well Supply System				
Month	Total Flow (m <sup>3</sup> )	Monthly Raw Average Flow (m <sup>3</sup> /day)	Max Raw Flow (m <sup>3</sup> /day)	Max Flow / Rated Capacity (%)
January	1,232	39.7	51.0	18%
February	869	31.0	31.7	11%
March	954	30.8	31.3	11%
April	1,099	36.6	63.8	23%
May	1,406	45.4	75.6	27%
June	1,939	64.6	103.6	37%
July	2,487	80.2	132.3	48%
August	1,618	52.2	86.2	31%
September	1,236	41.2	49.8	18%
October	1063	34.3	47.0	17%
November	998	33.3	35.2	13%
December	1095	35.3	58.8	21%
Average Flow	<b>1333</b>	<b>43.7</b>	<b>68.8</b>	<b>23%</b>
Maximum Flow	<b>2,487</b>	<b>80.2</b>	<b>132.3</b>	
Rated Capacity	<b>277 (m<sup>3</sup>/day)</b>			

## **Section G – Non-Compliance Findings & Adverse Results**

Non-compliance issues are typically identified by either the Operating Authority or the MECP Drinking Water Inspectors. All non-compliance issues are investigated, corrective actions taken and documented using the Municipalities Drinking Water Quality Management System (DWQMS) procedures. There were no non-compliance or adverse results in 2020.

### ***(I) Non-Compliance Findings***

The MECP conducted an announced routine inspection of the Melrose Drinking Water System on July 15, 2020. The MECP inspector identified one (1) non-compliance with the regulatory requirements.

1. The owner/operating authority was not in compliance with the requirement to prepare Form 2 documents as required by their Drinking Water Works Permit during the inspection period. At the time of the inspection, it was noted that there were two liquid sodium hypochlorite containers within two separate secondary containment units in the northwest and southern parts of the treatment plant that were approximately 60 litres in volumetric capacity. Schedule A, Section 1 of Drinking Water Works Permit #052-203 - Issue #2 dated 30 June 2016 currently lists two - 100 litre chemical storage tank for sodium hypochlorite. A Form 2 document and / or a Director's Notification form for the modification in size of the two sodium hypochlorite tanks were not available. There were no action items issued. Upon completion of the Site visit on July 15, 2020, the Owner / Operating Authority immediately prepared a Director's Notification Form and a Form 2 as required by Schedule B – Section 2.4 and Section 4.5 respectively of Drinking Water Works Permit #052-203 - Issue #2 dated 30 June 2016 to account for the discrepancy associated with the chemical storage on site. These forms were both dated July 15, 2020.

### ***(III) SUMMARY OR REPORTING TEST RESULTS AND OTHER PROBLEMS (SCHEDULE 16)***

There were no adverse results in 2020.

## **APPENDIX A – ANALYTICAL DATA**

**SGS Canada Inc.**  
 657 Consortium Court  
 London - Ontario - N6E 2S8  
 Phone: 519-672-4500 FAX: 519-672-0361

10-January-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

**Date Rec. :** 07 January 2020  
**LR Report:** CA20103-JAN20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

**Copy:** #1

## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Total Coliform cfu/100mL	E.Coli cfu/100mL
1: Analysis Start Date		---	07-Jan-20	07-Jan-20
2: Analysis Start Time		---	12:25	12:25
3: Analysis Completed Date		---	09-Jan-20	09-Jan-20
4: Analysis Completed Time		---	12:41	12:41
5: MAC		---	0	0
6: 1A0FC RW Well #2	06-Jan-20 10:20	3.9	0	0
7: 1A0FD RW Well #3	06-Jan-20 10:25	3.9	0	0

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

**Angela Stott, B.Sc.**  
 Branch Manager-London  
 Environment, Health & Safety

**SGS Canada Inc.**  
 657 Consortium Court  
 London - Ontario - N6E 2S8  
 Phone: 519-672-4500 FAX: 519-672-0361

17-January-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

**Date Rec. :** 14 January 2020  
**LR Report:** CA20480-JAN20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

**Copy:** #1

## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	14-Jan-20	14-Jan-20	14-Jan-20	14-Jan-20
2: Analysis Start Time		---	---	14:35	14:35	14:35	14:00
3: Analysis Completed Date		---	---	16-Jan-20	16-Jan-20	16-Jan-20	16-Jan-20
4: Analysis Completed Time		---	---	16:56	16:56	16:56	16:56
5: MAC		---	---	0	0	---	---
6: 1A106 DW Me-9	13-Jan-20 09:47	4.6	1.15	0	0	0	10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

**Angela Stott, B.Sc.**  
 Branch Manager-London  
 Environment, Health & Safety

**SGS Canada Inc.**  
 657 Consortium Court  
 London - Ontario - N6E 2S8  
 Phone: 519-672-4500 FAX: 519-672-0361

31-January-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

**Date Rec. :** 28 January 2020  
**LR Report:** CA20965-JAN20

10227 Ilderton Rd.  
 Ilderton, ON  
 N0M 2A0, Canada

**Copy:** #1

Phone: 519-666-0190 ext 255  
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## CERTIFICATE OF ANALYSIS

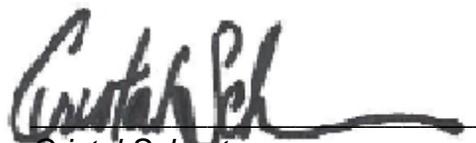
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	28-Jan-20	28-Jan-20	28-Jan-20	28-Jan-20
2: Analysis Start Time		---	---	10:25	10:25	10:25	10:15
3: Analysis Completed Date		---	---	30-Jan-20	30-Jan-20	30-Jan-20	30-Jan-20
4: Analysis Completed Time		---	---	10:31	10:31	10:31	10:31
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	27-Jan-20 12:57	6.6	1.33	0	0	0	< 10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform Background	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

  
**Cristal Schuster**  
 Project Specialist-London,  
 Environment, Health & Safety

**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.  
 Lakefield - Ontario - K0L 2H0  
 Phone: 705-652-2000 FAX: 705-652-6365

10-January-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 07 January 2020  
 LR Report: CA30034-JAN20

10227 Ilderton Rd.  
 Ilderton, ON  
 N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255  
 Fax:519-666-0271

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: MAC	8: MDL	9: 1A106 DW Sample Station	10: 1A102 TW Water Treatment Facility
Sample Date & Time							06-Jan-20 10:50	06-Jan-20 10:32
Temperature Upon Receipt [°C]	---	---	---	---	---	---	10.0	10.0
Nitrite (as N) [mg/L]	08-Jan-20	18:44	09-Jan-20	14:53	1.0	0.003	---	0.003 <MDL
Nitrate (as N) [mg/L]	08-Jan-20	18:44	09-Jan-20	14:53	10	0.006	---	0.008
Nitrate + Nitrite (as N) [mg/L]	08-Jan-20	18:44	09-Jan-20	14:53	---	0.006	---	0.008
Trihalomethanes (total) [ug/L]	09-Jan-20	16:56	10-Jan-20	12:52	100 (RAA)	0.37	14	---
Bromodichloromethane [ug/L]	09-Jan-20	16:56	10-Jan-20	12:52	--	0.26	4.6	---
Bromoform [ug/L]	09-Jan-20	16:56	10-Jan-20	12:52	--	0.34	0.34 <MDL	---
Chloroform [ug/L]	09-Jan-20	16:56	10-Jan-20	12:52	--	0.29	7.0	---
Dibromochloromethane [ug/L]	09-Jan-20	16:56	10-Jan-20	12:52	--	0.37	2.8	---
Total Haloacetic Acids (HAA5) [ug/L]	09-Jan-20	07:08	10-Jan-20	12:36	80 (RAA)	5.3	5.3 <MDL	---
Chloroacetic Acid [ug/L]	09-Jan-20	07:08	10-Jan-20	12:36	---	4.7	4.7 <MDL	---
Bromoacetic Acid [ug/L]	09-Jan-20	07:08	10-Jan-20	12:36	---	2.9	2.9 <MDL	---
Dichloroacetic Acid [ug/L]	09-Jan-20	07:08	10-Jan-20	12:36	---	2.6	2.9	---
Dibromoacetic Acid [ug/L]	09-Jan-20	07:08	10-Jan-20	12:36	---	2.0	2.0 <MDL	---
Trichloroacetic Acid [ug/L]	09-Jan-20	07:08	10-Jan-20	12:36	---	5.3	5.3 <MDL	---

MAC - Maximum Acceptable Concentration  
 MDL - SGS Method Detection Limit

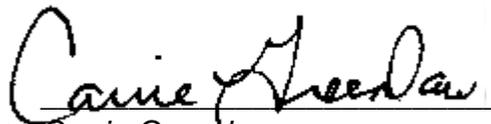
### Method Descriptions

Units	Description	SGS Method Code
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
mg/L	Nitrate by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
mg/L	Total Nitrate/Nitrite by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
mg/L	Nitrite by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004

**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - K0L 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA30034-JAN20



Carrie Greenlaw  
Project Specialist,  
Environment, Health & Safety

**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.  
 Lakefield - Ontario - K0L 2H0  
 Phone: 705-652-2000 FAX: 705-652-6365

10-January-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 07 January 2020  
 LR Report: CA30037-JAN20

10227 Ilderton Rd.  
 Ilderton, ON  
 N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255  
 Fax:519-666-0271

## CERTIFICATE OF ANALYSIS

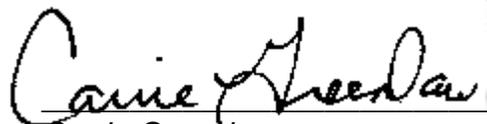
### Final Report

Analysis	1:	2:	3:	4:	5:	6:	7:	8:
	Analysis Start Date	Analysis Start Time	Analysis Completed Date	Analysis Completed Time	AO/OG	MDL	1A0FC RW Well #2	1A0FD RW Well #3
Sample Date & Time							06-Jan-20 10:20	06-Jan-20 10:25
Temperature Upon Receipt [°C]					---	---	10.0	10.0
Bicarbonate [mg/L as CaCO3]	08-Jan-20	13:45	09-Jan-20	11:01	---	2	198	246
Carbonate [mg/L as CaCO3]	08-Jan-20	13:45	09-Jan-20	11:01	---	2	< 2	< 2
Total Suspended Solids [mg/L]	08-Jan-20	09:39	09-Jan-20	13:48	---	2	2	3
Sulphide [ug/L]	08-Jan-20	13:00	08-Jan-20	15:27	50	6	6 <MDL	6 <MDL
Iron [ug/L]	09-Jan-20	08:13	09-Jan-20	16:18	300	0	583	874
Manganese [ug/L]	09-Jan-20	08:13	09-Jan-20	16:18	50	0.00	11.2	14.3

AO/OG - Aesthetic Objective / Operational Guideline  
 MDL - SGS Method Detection Limit

#### Method Descriptions

Units	Description	SGS Method Code
mg/L as CaCO3	Bicarbonate by Titration	ME-CA-[ENV]EWL-LAK-AN-006
mg/L as CaCO3	Carbonate by Titration	ME-CA-[ENV]EWL-LAK-AN-006
ug/L	Iron by ICP-MS drinking water	ME-CA-[ENV]SPE-LAK-AN-006
ug/L	Manganese by ICP-MS Drinking Water	ME-CA-[ENV]SPE-LAK-AN-006
ug/L	Sulphide by Skalar	ME-CA-[ENV]SFA-LAK-AN-008
mg/L	Total Suspended Solids	ME-CA-[ENV]EWL-LAK-AN-004

  
 Carrie Greenlaw  
 Project Specialist,  
 Environment, Health & Safety

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 London - Ontario - N6E 2S8  
 Phone: 519-672-4500 FAX: 519-672-0361

07-February-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

**Date Rec. :** 04 February 2020  
**LR Report:** CA20053-FEB20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Total Coliform cfu/100mL	E.Coli cfu/100mL
1: Analysis Start Date		---	04-Feb-20	04-Feb-20
2: Analysis Start Time		---	13:15	13:15
3: Analysis Completed Date		---	06-Feb-20	06-Feb-20
4: Analysis Completed Time		---	13:08	13:08
5: MAC		---	0	0
6: 1A0FC RW Well #2	03-Feb-20 13:02	6.3	0	0
7: 1A0FD RW Well #3	03-Feb-20 13:05	6.3	0	0

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

**Angela Stott, B.Sc.**  
 Branch Manager-London  
 Environment, Health & Safety

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14-February-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

**Date Rec. :** 11 February 2020  
**LR Report:** CA20381-FEB20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	11-Feb-20	11-Feb-20	11-Feb-20	11-Feb-20
2: Analysis Start Time		---	---	13:20	13:20	13:20	12:55
3: Analysis Completed Date		---	---	13-Feb-20	13-Feb-20	13-Feb-20	13-Feb-20
4: Analysis Completed Time		---	---	13:44	13:44	13:44	13:44
5: MAC		---	---	0	0	---	---
6: 1A106 DW am Me-9	10-Feb-20 14:17	4.1	1.01	0	0	0	< 10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

**Angela Stott, B.Sc.**  
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27-February-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

**Date Rec. :** 25 February 2020  
**LR Report:** CA20884-FEB20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	25-Feb-20	25-Feb-20	25-Feb-20	25-Feb-20
2: Analysis Start Time		---	---	11:50	11:50	11:50	10:50
3: Analysis Completed Date		---	---	27-Feb-20	27-Feb-20	27-Feb-20	27-Feb-20
4: Analysis Completed Time		---	---	13:27	13:27	13:27	13:27
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	24-Feb-20 14:03	3.4	1.21	0	0	0	< 10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

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06-March-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

**Date Rec. :** 03 March 2020  
**LR Report:** CA20039-MAR20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Total Coliform cfu/100mL	E.Coli cfu/100mL
1: Analysis Start Date		---	03-Mar-20	03-Mar-20
2: Analysis Start Time		---	10:25	10:25
3: Analysis Completed Date		---	05-Mar-20	05-Mar-20
4: Analysis Completed Time		---	11:18	11:18
5: MAC		---	0	0
6: 1A0FC RW Well #2	02-Mar-20 12:21	7.1	0	0
7: 1A0FD RW Well #3	02-Mar-20 12:24	7.1	0	0

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

*Angela Stott, B.Sc.*  
 Branch Manager-London  
 Environment, Health & Safety

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13-March-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

**Date Rec. :** 10 March 2020  
**LR Report:** CA20418-MAR20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	10-Mar-20	10-Mar-20	10-Mar-20	10-Mar-20
2: Analysis Start Time		---	---	16:30	16:30	16:30	16:00
3: Analysis Completed Date		---	---	13-Mar-20	13-Mar-20	13-Mar-20	13-Mar-20
4: Analysis Completed Time		---	---	10:36	10:36	10:36	10:36
5: MAC		---	---	0	0	---	---
6: 1A106 DW Me-9	09-Mar-20 10:36	5.0	1.33	0	0	0	< 10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

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 Branch Manager-London  
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27-March-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

**Date Rec. :** 24 March 2020  
**LR Report:** CA21001-MAR20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	24-Mar-20	24-Mar-20	24-Mar-20	24-Mar-20
2: Analysis Start Time		---	---	17:15	17:15	17:15	16:30
3: Analysis Completed Date		---	---	27-Mar-20	27-Mar-20	27-Mar-20	27-Mar-20
4: Analysis Completed Time		---	---	08:05	08:05	08:05	08:05
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	23-Mar-20 14:58	2.9	1.04	0	0	0	< 10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

**Angela Stott, B.Sc.**  
 Branch Manager-London  
 Environment, Health & Safety

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13-April-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 07 April 2020  
 LR Report: CA20197-APR20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

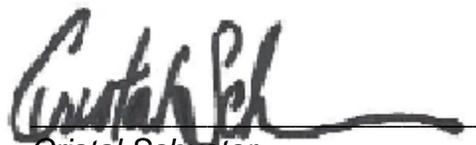
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	07-Apr-20	07-Apr-20	07-Apr-20	07-Apr-20
2: Analysis Start Time		---	---	14:45	14:45	14:45	14:00
3: Analysis Completed Date		---	---	09-Apr-20	09-Apr-20	09-Apr-20	09-Apr-20
4: Analysis Completed Time		---	---	13:56	13:56	13:56	13:56
5: MAC		---	---	0	0	---	---
6: 1A0FC RW Well #2	06-Apr-20 14:54	5.8	---	0	0	---	---
7: 1A0FD RW Well #3	06-Apr-20 14:54	5.8	---	0	0	---	---
8: 1A106 DW Sample Station	06-Apr-20 14:18	5.8	1.19	0	0	0	< 10

MAC - Maximum Acceptable Concentration

### Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform Background	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

  
**Cristal Schuster**  
 Project Specialist-London,  
 Environment, Health & Safety

**SGS Canada Inc.**  
 657 Consortium Court  
 London - Ontario - N6E 2S8  
 Phone: 519-672-4500 FAX: 519-672-0361

24-April-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 21 April 2020  
 LR Report: CA20721-APR20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	21-Apr-20	21-Apr-20	21-Apr-20	21-Apr-20
2: Analysis Start Time		---	---	13:55	13:55	13:55	12:55
3: Analysis Completed Date		---	---	23-Apr-20	23-Apr-20	23-Apr-20	23-Apr-20
4: Analysis Completed Time		---	---	14:15	14:15	14:15	14:15
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	20-Apr-20 14:16	3.9	1.30	0	0	0	< 10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

Angela Stott, B.Sc.  
 Branch Manager-London  
 Environment, Health & Safety

**SGS Canada Inc.**

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 Lakefield - Ontario - K0L 2H0  
 Phone: 705-652-2000 FAX: 705-652-6365

16-April-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 07 April 2020  
 LR Report: CA30081-APR20

10227 Ilderton Rd.  
 Ilderton, ON  
 N0M 2A0, Canada

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Phone: 519-666-0190 ext 255  
 Fax:519-666-0271

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: MAC	8: MDL	9: 1A106 DW Sample Station	10: 1A102 TW Water Treatment Facility
Sample Date & Time							06-Apr-20 14:18	06-Apr-20 14:56
Temperature Upon Receipt [°C]	---	---	---	---	---	---	15.0	15.0
Field Free Chlorine [mg/L]	---	---	---	---	---	---	1.19	---
Nitrite (as N) [mg/L]	09-Apr-20	02:04	09-Apr-20	13:34	1.0	0.003	---	0.003 <MDL
Nitrate (as N) [mg/L]	09-Apr-20	02:04	09-Apr-20	13:34	10	0.006	---	0.008
Nitrate + Nitrite (as N) [mg/L]	09-Apr-20	02:04	09-Apr-20	13:34	---	0.006	---	0.008
Trihalomethanes (total) [ug/L]	13-Apr-20	21:35	16-Apr-20	13:15	100 (RAA)	0.37	15	---
Bromodichloromethane [ug/L]	13-Apr-20	21:35	16-Apr-20	13:15	--	0.26	4.8	---
Bromoform [ug/L]	13-Apr-20	21:35	16-Apr-20	13:15	--	0.34	0.34 <MDL	---
Chloroform [ug/L]	13-Apr-20	21:35	16-Apr-20	13:15	--	0.29	7.4	---
Dibromochloromethane [ug/L]	13-Apr-20	21:35	16-Apr-20	13:15	--	0.37	2.9	---
Total Haloacetic Acids (HAA5) [ug/L]	14-Apr-20	16:18	16-Apr-20	14:19	80 (RAA)	5.3	5.3 <MDL	---
Chloroacetic Acid [ug/L]	14-Apr-20	16:18	16-Apr-20	14:19	---	4.7	4.7 <MDL	---
Bromoacetic Acid [ug/L]	14-Apr-20	16:18	16-Apr-20	14:19	---	2.9	2.9 <MDL	---
Dichloroacetic Acid [ug/L]	14-Apr-20	16:18	16-Apr-20	14:19	---	2.6	2.7	---
Dibromoacetic Acid [ug/L]	14-Apr-20	16:18	16-Apr-20	14:19	---	2.0	2.0 <MDL	---
Trichloroacetic Acid [ug/L]	14-Apr-20	16:18	16-Apr-20	14:19	---	5.3	5.3 <MDL	---

MAC - Maximum Acceptable Concentration  
 MDL - SGS Method Detection Limit

### Method Descriptions

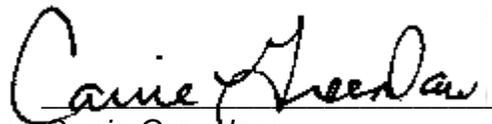
Units	Description	SGS Method Code
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
mg/L	Nitrate by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
mg/L	Total Nitrate/Nitrite by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
mg/L	Nitrite by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013

**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - KOL 2H0  
Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA30081-APR20

Units	Description	SGS Method Code
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004



Carrie Greenlaw  
Project Specialist,  
Environment, Health & Safety

**SGS Canada Inc.**  
 657 Consortium Court  
 London - Ontario - N6E 2S8  
 Phone: 519-672-4500 FAX: 519-672-0361

08-May-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 05 May 2020  
 LR Report: CA20095-MAY20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	05-May-20	05-May-20	05-May-20	05-May-20
2: Analysis Start Time		---	---	14:30	14:30	14:30	14:15
3: Analysis Completed Date		---	---	08-May-20	08-May-20	08-May-20	08-May-20
4: Analysis Completed Time		---	---	08:32	08:32	08:32	08:32
5: MAC		---	---	0	0	---	---
6: 1A0FC RW Well #2	04-May-20 12:07	5.1	---	0	0	---	---
7: 1A0FD RW Well #3	04-May-20 12:07	5.1	---	0	0	---	---
8: 1A106 DW Hydrant ME-10	04-May-20 11:48	5.1	1.09	0	0	0	< 10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

**Angela Stott, B.Sc.**  
 Branch Manager-London  
 Environment, Health & Safety

**SGS Canada Inc.**  
 657 Consortium Court  
 London - Ontario - N6E 2S8  
 Phone: 519-672-4500 FAX: 519-672-0361

22-May-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 19 May 2020  
 LR Report: CA20709-MAY20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

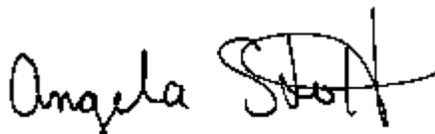
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	19-May-20	19-May-20	19-May-20	19-May-20
2: Analysis Start Time		---	---	14:50	14:50	14:50	14:25
3: Analysis Completed Date		---	---	21-May-20	21-May-20	21-May-20	21-May-20
4: Analysis Completed Time		---	---	16:44	16:44	16:44	16:44
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	18-May-20 14:40	7.0	1.19	0	0	0	< 10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



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 Branch Manager-London  
 Environment, Health & Safety

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 657 Consortium Court  
 London - Ontario - N6E 2S8  
 Phone: 519-672-4500 FAX: 519-672-0361

05-June-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

**Date Rec. :** 02 June 2020  
**LR Report:** CA20131-JUN20

10227 Ilderton Rd.  
 Ilderton, ON  
 N0M 2A0, Canada

**Copy:** #1

Phone: 519-666-0190 ext 255  
 Fax:519-666-0271

## CERTIFICATE OF ANALYSIS

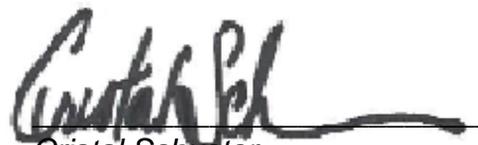
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	02-Jun-20	02-Jun-20	02-Jun-20	02-Jun-20
2: Analysis Start Time		---	---	17:30	17:30	17:30	16:20
3: Analysis Completed Date		---	---	05-Jun-20	05-Jun-20	05-Jun-20	05-Jun-20
4: Analysis Completed Time		---	---	07:55	07:55	07:55	07:55
5: MAC		---	---	0	0	---	---
6: 1A0FC RW Well #2	01-Jun-20 14:55	6.4	---	0	0	---	---
7: 1A0FD RW Well #3	01-Jun-20 15:01	6.4	---	0	0	---	---
8: 1A106 DW Me-09 (Hydrant)	01-Jun-20 14:41	6.4	1.28	0	0	0	< 10

MAC - Maximum Acceptable Concentration

### Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform Background	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

  
**Cristal Schuster**  
 Project Specialist-London,  
 Environment, Health & Safety

**SGS Canada Inc.**  
 657 Consortium Court  
 London - Ontario - N6E 2S8  
 Phone: 519-672-4500 FAX: 519-672-0361

19-June-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 16 June 2020  
 LR Report: CA20822-JUN20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	16-Jun-20	16-Jun-20	16-Jun-20	16-Jun-20
2: Analysis Start Time		---	---	16:55	16:55	16:55	16:25
3: Analysis Completed Date		---	---	19-Jun-20	19-Jun-20	19-Jun-20	19-Jun-20
4: Analysis Completed Time		---	---	10:35	10:35	10:35	10:35
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	15-Jun-20 14:13	4.5	1.27	0	0	0	20

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

Angela Stott, B.Sc.  
 Branch Manager-London  
 Environment, Health & Safety

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 657 Consortium Court  
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02-July-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 30 June 2020  
 LR Report: CA21524-JUN20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	30-Jun-20	30-Jun-20	30-Jun-20	30-Jun-20
2: Analysis Start Time		---	---	14:50	14:50	14:50	14:10
3: Analysis Completed Date		---	---	02-Jul-20	02-Jul-20	02-Jul-20	02-Jul-20
4: Analysis Completed Time		---	---	14:09	14:09	14:09	14:09
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	29-Jun-20 13:03	9.8	1.23	0	0	0	10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

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 657 Consortium Court  
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10-July-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 07 July 2020  
 LR Report: CA20232-JUL20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Total Coliform cfu/100mL	E.Coli cfu/100mL
1: Analysis Start Date		---	07-Jul-20	07-Jul-20
2: Analysis Start Time		---	14:25	14:25
3: Analysis Completed Date		---	10-Jul-20	10-Jul-20
4: Analysis Completed Time		---	10:53	10:53
5: MAC		---	0	0
6: 1A0FC RW Well #2	06-Jul-20 09:56	10.1	0	0
7: 1A0FD RW Well #3	06-Jul-20 09:58	10.1	0	0

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

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17-July-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 14 July 2020  
 LR Report: CA20690-JUL20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

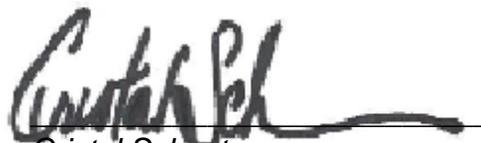
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	15-Jul-20	15-Jul-20	15-Jul-20	15-Jul-20
2: Analysis Start Time		---	---	10:55	10:55	10:55	10:50
3: Analysis Completed Date		---	---	17-Jul-20	17-Jul-20	17-Jul-20	17-Jul-20
4: Analysis Completed Time		---	---	12:15	12:15	12:15	12:15
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	13-Jul-20 12:01	11.3	1.33	0	0	0	< 10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



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 Project Specialist-London,  
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**SGS Canada Inc.**  
 657 Consortium Court  
 London - Ontario - N6E 2S8  
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30-July-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 28 July 2020  
 LR Report: CA21318-JUL20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

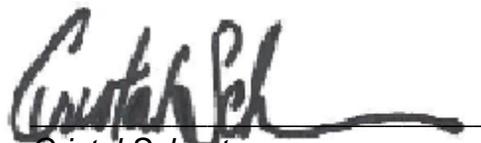
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	28-Jul-20	28-Jul-20	28-Jul-20	28-Jul-20
2: Analysis Start Time		---	---	13:35	13:35	13:35	13:10
3: Analysis Completed Date		---	---	30-Jul-20	30-Jul-20	30-Jul-20	30-Jul-20
4: Analysis Completed Time		---	---	17:00	17:00	17:00	17:00
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	27-Jul-20 08:58	6.3	1.37	0	0	0	< 10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



**Cristal Schuster**  
 Project Specialist-London,  
 Environment, Health & Safety



SGS Canada Inc.

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Lakefield - Ontario - KOL 2H0
Phone: 705-652-2000 FAX: 705-652-6365

14-July-2020

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

Date Rec. : 07 July 2020
LR Report: CA30088-JUL20

10227 Ilderton Rd.
Ilderton, ON
N0M 2A0, Canada

Copy: #1

Phone: 519-666-0190 ext 255
Fax:519-666-0271

CERTIFICATE OF ANALYSIS
Final Report

Table with 10 columns: Analysis, 1: Analysis Start Date, 2: Analysis Start Time, 3: Analysis Completed Date, 4: Analysis Completed Time, 5: MAC, 8: MDL, 9: 1A106 DW Sample Station, 10: 1A102 TW Water Treatment Facility. Rows include Sample Date & Time, Temperature Upon Receipt, Nitrite, Nitrate, and various Haloacetic Acids.

MAC - Maximum Acceptable Concentration
MDL - SGS Method Detection Limit

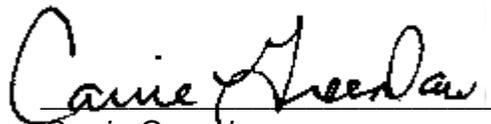
Method Descriptions

Table with 3 columns: Units, Description, SGS Method Code. Lists various analytical methods such as HAA wtr - DW, VOC wtr - THM, and Nitrate/Nitrite by Ion Chromatography.

**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.  
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LR Report : CA30088-JUL20



*Carrie Greenlaw*  
Carrie Greenlaw  
Project Specialist,  
Environment, Health & Safety

**SGS Canada Inc.**  
 657 Consortium Court  
 London - Ontario - N6E 2S8  
 Phone: 519-672-4500 FAX: 519-672-0361

07-August-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 04 August 2020  
 LR Report: CA20032-AUG20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

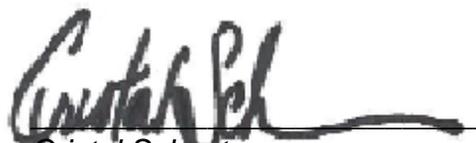
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Total Coliform cfu/100mL	E.Coli cfu/100mL
1: Analysis Start Date		---	04-Aug-20	04-Aug-20
2: Analysis Start Time		---	14:10	14:10
3: Analysis Completed Date		---	07-Aug-20	07-Aug-20
4: Analysis Completed Time		---	08:54	08:54
5: MAC		---	0	0
6: 1A0FC RW Well #2	03-Aug-20 10:48	8.4	0	0
7: 1A0FD RW Well #3	03-Aug-20 10:48	8.4	0	0

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



**Cristal Schuster**  
 Project Specialist-London,  
 Environment, Health & Safety

**SGS Canada Inc.**  
 657 Consortium Court  
 London - Ontario - N6E 2S8  
 Phone: 519-672-4500 FAX: 519-672-0361

14-August-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 11 August 2020  
 LR Report: CA20454-AUG20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	11-Aug-20	11-Aug-20	11-Aug-20	11-Aug-20
2: Analysis Start Time		---	---	15:10	15:10	15:10	14:40
3: Analysis Completed Date		---	---	13-Aug-20	13-Aug-20	13-Aug-20	13-Aug-20
4: Analysis Completed Time		---	---	17:22	17:22	17:22	17:22
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	10-Aug-20 09:29	5.9	1.24	0	0	0	< 10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

Angela Stott, B.Sc.  
 Branch Manager-London  
 Environment, Health & Safety

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 657 Consortium Court  
 London - Ontario - N6E 2S8  
 Phone: 519-672-4500 FAX: 519-672-0361

28-August-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 25 August 2020  
 LR Report: CA21194-AUG20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	25-Aug-20	25-Aug-20	25-Aug-20	25-Aug-20
2: Analysis Start Time		---	---	12:40	12:40	12:40	12:05
3: Analysis Completed Date		---	---	28-Aug-20	28-Aug-20	28-Aug-20	28-Aug-20
4: Analysis Completed Time		---	---	10:23	10:23	10:23	10:23
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	24-Aug-20 10:12	7.5	1.20	0	0	0	< 10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

**Cristal Schuster**  
 Project Specialist-London,  
 Environment, Health & Safety

**SGS Canada Inc.**  
 657 Consortium Court  
 London - Ontario - N6E 2S8  
 Phone: 519-672-4500 FAX: 519-672-0361

11-September-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 08 September 2020  
 LR Report: CA20338-SEP20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	08-Sep-20	08-Sep-20	08-Sep-20	08-Sep-20
2: Analysis Start Time		---	---	13:00	13:00	13:00	12:40
3: Analysis Completed Date		---	---	10-Sep-20	10-Sep-20	10-Sep-20	10-Sep-20
4: Analysis Completed Time		---	---	16:09	16:09	16:09	16:09
5: MAC		---	---	0	0	---	---
6: 1A0FC RW Well #2	07-Sep-20 10:07	7.8	---	0	0	---	---
7: 1A0FD RW Well #3	07-Sep-20 10:09	7.8	---	0	0	---	---
8: 1A106 DW Sample Station	07-Sep-20 10:38	7.8	1.39	0	0	0	10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

Angela Stott, B.Sc.  
 Branch Manager-London  
 Environment, Health & Safety

**SGS Canada Inc.**  
 657 Consortium Court  
 London - Ontario - N6E 2S8  
 Phone: 519-672-4500 FAX: 519-672-0361

25-September-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

**Date Rec. :** 22 September 2020  
**LR Report:** CA21068-SEP20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

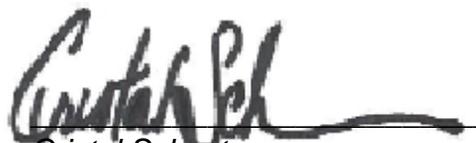
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	22-Sep-20	22-Sep-20	22-Sep-20	22-Sep-20
2: Analysis Start Time		---	---	11:00	11:00	11:00	10:10
3: Analysis Completed Date		---	---	24-Sep-20	24-Sep-20	24-Sep-20	24-Sep-20
4: Analysis Completed Time		---	---	11:33	11:33	11:33	11:33
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	21-Sep-20 13:07	7.2	1.25	0	0	0	< 10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform Background	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

  
**Cristal Schuster**  
 Project Specialist-London,  
 Environment, Health & Safety

**SGS Canada Inc.**  
 657 Consortium Court  
 London - Ontario - N6E 2S8  
 Phone: 519-672-4500 FAX: 519-672-0361

09-October-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 06 October 2020  
 LR Report: CA20158-OCT20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

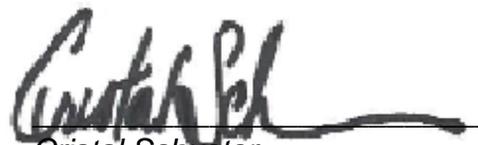
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	06-Oct-20	06-Oct-20	06-Oct-20	06-Oct-20
2: Analysis Start Time		---	---	14:55	14:55	14:55	14:30
3: Analysis Completed Date		---	---	08-Oct-20	08-Oct-20	08-Oct-20	08-Oct-20
4: Analysis Completed Time		---	---	14:03	14:03	14:03	14:03
5: MAC		---	---	0	0	---	---
6: 1A0FC RW Well #2	05-Oct-20 14:07	12.9	---	0	0	---	---
7: 1A0FD RW Well #3	05-Oct-20 14:09	12.9	---	0	0	---	---
8: 1A106 DW Sample Station	05-Oct-20 13:41	12.9	1.24	0	0	0	< 10

MAC - Maximum Acceptable Concentration

### Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform Background	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

  
**Cristal Schuster**  
 Project Specialist-London,  
 Environment, Health & Safety

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 657 Consortium Court  
 London - Ontario - N6E 2S8  
 Phone: 519-672-4500 FAX: 519-672-0361

26-October-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

**Date Rec. :** 20 October 2020  
**LR Report:** CA20831-OCT20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	20-Oct-20	20-Oct-20	20-Oct-20	20-Oct-20
2: Analysis Start Time		---	---	15:35	15:35	15:35	15:10
3: Analysis Completed Date		---	---	22-Oct-20	22-Oct-20	22-Oct-20	22-Oct-20
4: Analysis Completed Time		---	---	17:11	17:11	17:11	17:11
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	19-Oct-20 13:45	4.3	1.31	0	0	0	< 10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform Background	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

**Angela Stott, B.Sc.**  
 Branch Manager-London  
 Environment, Health & Safety

**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.  
 Lakefield - Ontario - KOL 2H0  
 Phone: 705-652-2000 FAX: 705-652-6365

15-October-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 06 October 2020  
 LR Report: CA30048-OCT20

10227 Ilderton Rd.  
 Ilderton, ON  
 N0M 2A0, Canada

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Phone: 519-666-0190 ext 255  
 Fax:519-666-0271

# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: MAC	8: MDL	9: 1A106 DW Sample Station	10: 1A102 TW Water Treatment Facility
Sample Date & Time							05-Oct-20 13:41	05-Oct-20 14:05
Temperature Upon Receipt [°C]	---	---	---	---	---	---	8.0	8.0
Field Free Chlorine [mg/L]	---	---	---	---	---	---	1.24	---
Nitrite (as N) [mg/L]	08-Oct-20	17:11	09-Oct-20	10:14	1.0	0.003	---	0.003 <MDL
Nitrate (as N) [mg/L]	08-Oct-20	17:11	09-Oct-20	10:14	10	0.006	---	0.006 <MDL
Nitrate + Nitrite (as N) [mg/L]	08-Oct-20	17:11	09-Oct-20	10:14	---	0.006	---	0.006 <MDL
Trihalomethanes (total) [ug/L]	07-Oct-20	15:46	08-Oct-20	13:13	100 (RAA)	0.37	17	---
Bromodichloromethane [ug/L]	07-Oct-20	15:46	08-Oct-20	13:13	--	0.26	5.6	---
Bromoform [ug/L]	07-Oct-20	15:46	08-Oct-20	13:13	--	0.34	0.34 <MDL	---
Chloroform [ug/L]	07-Oct-20	15:46	08-Oct-20	13:13	--	0.29	8.4	---
Dibromochloromethane [ug/L]	07-Oct-20	15:46	08-Oct-20	13:13	--	0.37	3.4	---
Total Haloacetic Acids (HAA5) [ug/L]	09-Oct-20	16:07	15-Oct-20	11:09	80 (RAA)	5.3	5.3 <MDL	---
Chloroacetic Acid [ug/L]	09-Oct-20	16:07	15-Oct-20	11:09	---	4.7	4.7 <MDL	---
Bromoacetic Acid [ug/L]	09-Oct-20	16:07	15-Oct-20	11:09	---	2.9	2.9 <MDL	---
Dichloroacetic Acid [ug/L]	09-Oct-20	16:07	15-Oct-20	11:09	---	2.6	2.6 <MDL	---
Dibromoacetic Acid [ug/L]	09-Oct-20	16:07	15-Oct-20	11:09	---	2.0	2.0 <MDL	---
Trichloroacetic Acid [ug/L]	09-Oct-20	16:07	15-Oct-20	11:09	---	5.3	5.3 <MDL	---

MAC - Maximum Acceptable Concentration  
 MDL - SGS Method Detection Limit

### Method Descriptions

Units	Description	SGS Method Code
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
mg/L	Nitrate by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
mg/L	Total Nitrate/Nitrite by Ion Chromatograph	ME-CA-[ENV]IC-LAK-AN-001
mg/L	Nitrite by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013

**SGS Canada Inc.**

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LR Report : CA30048-OCT20

Units	Description	SGS Method Code
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004

Carrie Greenlaw  
Project Specialist,  
Environment, Health & Safety

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 657 Consortium Court  
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04-December-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 01 December 2020  
 LR Report: CA20065-DEC20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	01-Dec-20	01-Dec-20	01-Dec-20	01-Dec-20
2: Analysis Start Time		---	---	16:15	16:15	16:15	15:40
3: Analysis Completed Date		---	---	03-Dec-20	03-Dec-20	03-Dec-20	03-Dec-20
4: Analysis Completed Time		---	---	15:08	15:08	15:08	15:08
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	30-Nov-20 14:07	4.1	1.29	0	0	0	< 10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform Background	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

Angela Stott, B.Sc.  
 Branch Manager-London  
 Environment, Health & Safety

**SGS Canada Inc.**  
 657 Consortium Court  
 London - Ontario - N6E 2S8  
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06-November-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

**Date Rec. :** 03 November 2020  
**LR Report:** CA20104-NOV20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	03-Nov-20	03-Nov-20	03-Nov-20	03-Nov-20
2: Analysis Start Time		---	---	17:10	17:10	17:10	16:25
3: Analysis Completed Date		---	---	06-Nov-20	06-Nov-20	06-Nov-20	06-Nov-20
4: Analysis Completed Time		---	---	08:31	08:31	08:31	08:31
5: MAC		---	---	0	0	---	---
6: 1A0FC RW Well #2	02-Nov-20 14:14	6.6	---	0	0	---	---
7: 1A0FD RW Well #3	02-Nov-20 14:12	6.6	---	0	0	---	---
8: 1A106 DW Sample Station	02-Nov-20 14:52	6.6	1.20	0	0	0	< 10

MAC - Maximum Acceptable Concentration

### Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform Background	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

**Angela Stott, B.Sc.**  
 Branch Manager-London  
 Environment, Health & Safety

**SGS Canada Inc.**  
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19-November-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

Date Rec. : 17 November 2020  
 LR Report: CA20680-NOV20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	17-Nov-20	17-Nov-20	17-Nov-20	17-Nov-20
2: Analysis Start Time		---	---	15:25	15:25	15:25	14:55
3: Analysis Completed Date		---	---	19-Nov-20	19-Nov-20	19-Nov-20	19-Nov-20
4: Analysis Completed Time		---	---	15:27	15:27	15:27	15:27
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	16-Nov-20 13:49	2.5	1.15	0	0	0	10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Units	Description	SGS Method Code
cfu/100mL	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/1mL	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
cfu/100mL	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



**Cristal Schuster**  
 Project Specialist-London,  
 Environment, Health & Safety

**SGS Canada Inc.**  
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 London - Ontario - N6E 2S8  
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10-December-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

**Date Rec. :** 08 December 2020  
**LR Report:** CA20317-DEC20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

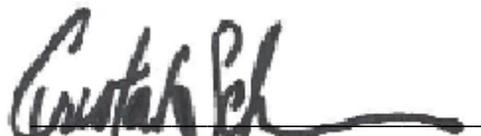
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL
1: Analysis Start Date		---	---	08-Dec-20	08-Dec-20
2: Analysis Start Time		---	---	14:15	14:15
3: Analysis Completed Date		---	---	10-Dec-20	10-Dec-20
4: Analysis Completed Time		---	---	14:24	14:24
5: MAC		---	---	0	0
6: 1A0FC RW Well #2	07-Dec-20 13:47	7.3	0.04	0	0
7: 1A0FD RW Well #3	07-Dec-20 13:43	7.3	0.06	0	0

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

  
**Cristal Schuster**  
 Project Specialist-London,  
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 London - Ontario - N6E 2S8  
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18-December-2020

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

**Date Rec. :** 15 December 2020  
**LR Report:** CA20637-DEC20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

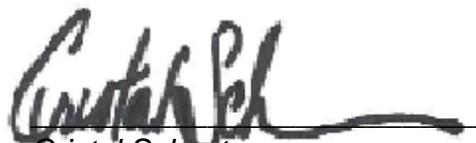
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	15-Dec-20	15-Dec-20	15-Dec-20	15-Dec-20
2: Analysis Start Time		---	---	14:25	14:25	14:25	13:55
3: Analysis Completed Date		---	---	17-Dec-20	17-Dec-20	17-Dec-20	17-Dec-20
4: Analysis Completed Time		---	---	15:03	15:03	15:03	15:03
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	14-Dec-20 14:53	5.5	1.20	0	0	0	< 10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform Background	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

  
**Cristal Schuster**  
 Project Specialist-London,  
 Environment, Health & Safety

**SGS Canada Inc.**  
 657 Consortium Court  
 London - Ontario - N6E 2S8  
 Phone: 519-672-4500 FAX: 519-672-0361

04-January-2021

**Mun of Middlesex Centre (Melrose)**

Attn : Brian Watson

**Date Rec. :** 29 December 2020  
**LR Report:** CA21108-DEC20

10227 Ilderton Rd., Ilderton  
 Canada, N0M 2A0  
 Phone: 519-666-0190 ext 255, Fax:519-666-0271

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## CERTIFICATE OF ANALYSIS

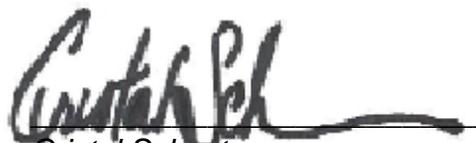
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	29-Dec-20	29-Dec-20	29-Dec-20	29-Dec-20
2: Analysis Start Time		---	---	12:05	12:05	12:05	11:40
3: Analysis Completed Date		---	---	31-Dec-20	31-Dec-20	31-Dec-20	31-Dec-20
4: Analysis Completed Time		---	---	09:34	09:34	09:34	09:34
5: MAC		---	---	0	0	---	---
6: 1A106 DW Sample Station	28-Dec-20 10:50	7.8	1.32	0	0	0	< 10

MAC - Maximum Acceptable Concentration

#### Method Descriptions

Parameter	Description	SGS Method Code
E.Coli	E.Coli by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Heterotrophic Plate Count (HPC)	Heterotrophic Plate Count (HPC) by SP (using SPCA)	ME-CA-[ENV]MIC-LAK-AN-002
Total Coliform	Total Coliform by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001
Total Coliform Background	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001



**Cristal Schuster**  
 Project Specialist-London,  
 Environment, Health & Safety