



# 2020 Annual Performance & Summary Report Birr Drinking Water System

**Date: January 5, 2020**

*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 is preparing 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	Birr Well Supply System
Drinking Water System Number	220005492
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 Birr Drinking Water System is owned by the Municipality of Middlesex Centre and operated by the Municipality of Middlesex Centre. The Birr Drinking Water System is a ground water supply system serving the Village of Birr that presently services 18 lots on Gwendolyn St with an estimated population of 53 residents. This system consists of one (1) drilled well, rated at 88m<sup>3</sup>/day operating under the Permit to Take Water # 3415-A3JHTY. Raw well water is pumped from the well into a concrete reservoir. The water is disinfected using a sodium hypochlorite disinfection system, consisting of one storage tank and two chemical metering pumps (one duty and one standby) with a feed line discharging into the underground reservoir. Two submersible high lift pumps, then pump the water through a 150mm water main to the distribution system. The system operates under Municipal Drinking Water License Number 052-104 and Drinking Water Works Permit Number 052-204.

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 6% sodium hypochlorite solution.

## Section B – Significant Modifications & Replacements

Modifications & Replacements	
No major upgraded were completed in 2020. There was one (1) Form 2 Record of Minor Modifications or Replacements to the Drinking Water System. The raw water pressure gauge piping from the upstream flange to the downstream ball valve was replaced.	\$1,038

## 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 monthly 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 30 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	12	0	0
Distribution	27	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	27	<10 - 10

## 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
Nitrate			
1st Quarter	0.017	10.0	No
2nd Quarter	0.014	10.0	No
3rd Quarter	0.014	10.0	No
4th Quarter	0.009	10.0	No
Nitrite			
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. The samples are required 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	0.050	0.050	0.100	No

Parameter & Sample Date	Result (mg/l)	Annual Rolling Average (mg/l)	MAC (mg/l)	Exceedance
2nd Quarter	0.053	0.051	0.100	No
3rd Quarter	0.063	0.056	0.100	No
4th Quarter	0.066	0.058	0.100	No
Haloacetic Acid (HAA)				
1st Quarter	0.040	0.035	0.08	No
2nd Quarter	0.035	0.035	0.08	No
3rd Quarter	0.051	0.040	0.08	No
4th Quarter	0.049	0.044	0.08	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	39.2*	20
Sodium	January 9, 2017	43.1*	20
Fluoride	January 2, 2017	1.34**	1.5

*\*Sodium levels between 20 – 200 mg/L must be reported every 5 years. The next samples are scheduled for collection in 2022.*

*\*\*Natural levels of fluoride between 1.5 – 2.4 mg/L must be reported every 5 years. The next samples for collection in 2022.*

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)	0.05	10	No
Distribution Alkalinity (mg/l)	201	*30 - 500	No
Distribution pH	6.91	-	No
Summer Sample (June 15 – Oct. 15)			
Lead (ug/l)	0.34	10	No
Distribution Alkalinity	199	*30 – 500	No
Distribution pH	7.28	-	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	ND	No
Arsenic	01/02/2017	ND	No
Barium	01/02/2017	502	No
Barium	01/27/2017	489	No
Barium	10/02/2017	484	No
Boron	01/02/2017	201	No
Cadmium	01/02/2017	0.012	No
Chromium	01/02/2017	0.58	No
Mercury	01/02/2017	ND	No
Selenium	01/02/2017	ND	No
Uranium	01/02/2017	0.023	No
Alachlor	01/02/2017	ND	No
Atrazine + N-dealkylated metabolites	01/02/2017	ND	No
Atrazine	01/02/2017	ND	No

Parameter	Sample Date	Treated Water Value (ug/l)	Exceedance
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
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
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

Parameter	Sample Date	Treated Water Value (ug/l)	Exceedance
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

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	0.51 – 1.74
Chlorine residual after treatment (mg/L)	Continuous	0.24 – 2.30

### *(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	0.06 – 1.42

## 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.

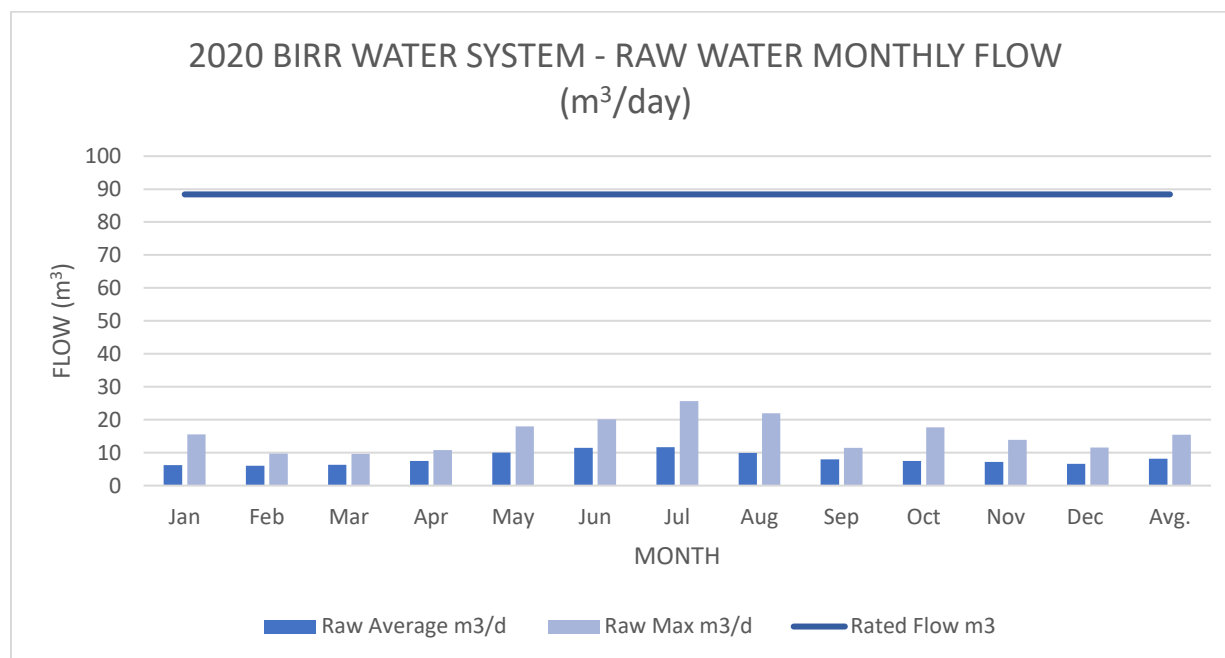
**Table 11 – Rated Capacity**

Flow Summary	Rated Capacity
Permit to Take Water Limit	82 m <sup>3</sup> /d
Municipal Drinking Water License Limit	88.4 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>	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
Raw Average	m <sup>3</sup> /d	6.22	6.0	6.3	7.5	10.0	11.5	11.7	9.9	8.0	7.5	7.2	6.6	8.2
Raw Max	m <sup>3</sup> /d	15.6	9.7	9.6	10.8	18.0	20.1	25.7	22.0	11.5	17.7	13.9	11.6	15.5

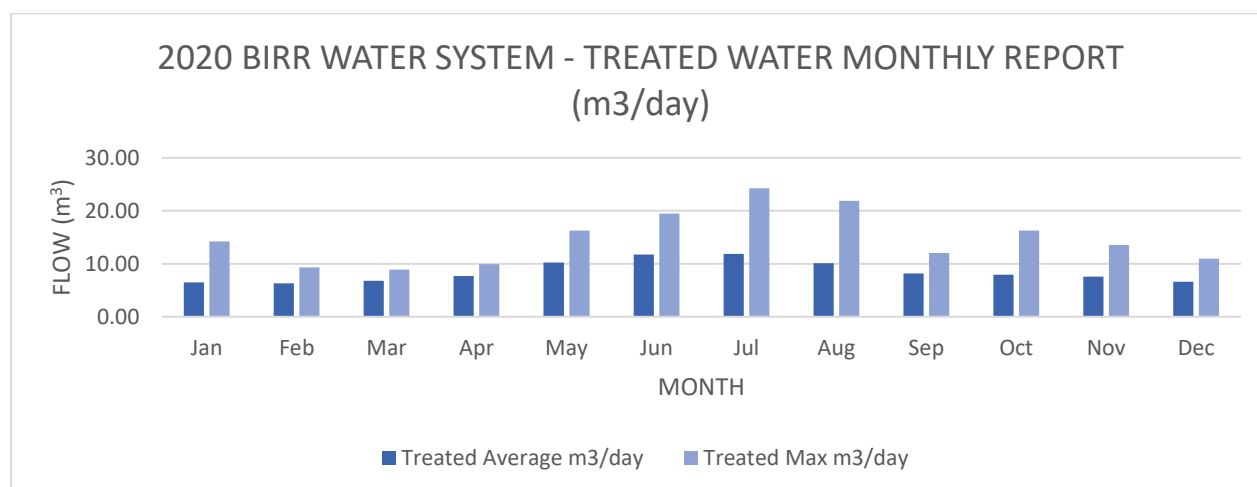
**Graph 1 – Monthly Flows (m<sup>3</sup>/day)**



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

	Flow Summary
2020 Average Daily Treated Water Flow	8.5 m <sup>3</sup> /d
2020 Maximum Daily Treated Water Flow	14.8 m <sup>3</sup> /d
2020 Average Monthly Treated Water Flow	257.9 m <sup>3</sup>
2020 Total Amount of Treated Water Supplied	3,095 m <sup>3</sup>

**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: Birr 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	192.7	6.2	14.2	16%
February	167.9	6.0	9.35	11%
March	195.5	6.3	8.92	10%
April	224.7	7.5	9.95	11%
May	309.8	10.0	16.3	18%
June	345.9	11.5	19.4	22%
July	363.2	11.7	24.2	27%
August	307.9	9.9	21.9	25%
September	239.4	8.0	12.0	14%
October	232.7	7.5	16.3	18%
November	216.7	7.2	13.5	15%
December	204.6	6.6	10.9	12%
Average Flow	<b>250.1</b>	<b>8.2</b>	<b>14.8</b>	<b>17%</b>
Maximum Flow	<b>363.2</b>	<b>11.7</b>	<b>24.2</b>	
Rated Capacity	<b>88.4 (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.

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

The MECP conducted an announced routine inspection of the Birr Drinking Water System on August 12, 2020. The MECP inspector identified two (2) non-compliances with the regulatory requirements.

1. The secondary disinfectant residual was not measured as required for the distribution system. According to the documentation provided for review, the Operating Authority typically collects at least two samples per week for free chlorine residual testing. Generally stated, these samples are collected according to the requirements prescribed by Ontario Regulation 170/03 – Schedule 7-2 (5)

where one sample is collected on one day in a week and another sample is collected later in the same week, at least 48 hours from when the first sample was collected. It should be noted however, that during the week from June 30, 2019 to July 6, 2019, only one free chlorine residual reading was taken from the distribution system instead of the prescribed two samples as noted above. The Action(s) Required from herein, the Owner / Operating Authority shall ensure that free chlorine residual testing from the distribution system is completed as prescribed by the minimum requirements of Ontario Regulation 170/03 – Schedule 7-2 (5) where one sample is collected on one day in a week and another sample is collected later in the same week, at least 48 hours from when the first sample was collected. Compliance with this requirement will be assessed during the next inspection of the water system.

2. All microbiological water quality monitoring requirements for distribution samples prescribed by legislation were not being met. Ontario Regulation 170/03 – Schedule 11-2 stipulates that distribution water samples are required to be collected for testing every two weeks within the frequency prescribed by Ontario Regulation 170/03 – Schedule 6 1.1 (2). Testing of the samples collected from the distribution system must include E. coli, total coliforms and general bacteria population expressed as colony counts on a heterotrophic plate count. Over the course of the inspection period, distribution samples for microbiological testing were generally collected for testing every two weeks which meets with the requirements of Ontario Regulation 170/03 – Schedule 11-2. However, it should be noted that the distribution sample collected on December 30, 2019 did not include the general bacteria population expressed as colony counts on a heterotrophic plate count test (i.e. HPC test). Action(s) Required from herein, the Owner / Operating Authority shall ensure that microbiological samples collected from the distribution system include E. coli, total coliforms and, if section 1-5 of Schedule 1 or subsection 2-5 (1) of Schedule 2 applies to the system, general bacteria population expressed as colony counts on a heterotrophic plate count, as prescribed by Ontario Regulation 170/03 - Schedule 11-2. Compliance with this requirement shall be assessed during the next inspection of the water system.

## ***(II) Summary or Reporting Test Results and Other Problems (Schedule 16)***

There were no reportable Adverse Water Quality Indicator (AWQI) during the 2020 reporting period.

## **APPENDIX A – ANALYTICAL DATA**

**SGS Canada Inc.**

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

06-January-2020

**Mun of Middlesex Centre (Birr)**
**Attn :** Brian Watson

**Date Rec. :** 02 January 2020

**LR Report:** CA20032-JAN20

10227 Ilderton Rd., Ilderton

Canada, N0M 2A0

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

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## CERTIFICATE OF ANALYSIS

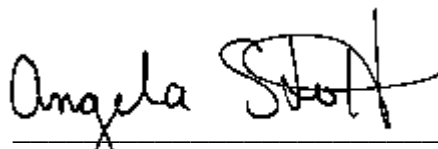
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	02-Jan-20	02-Jan-20	02-Jan-20
2: Analysis Start Time		---	---	15:40	15:40	15:15
3: Analysis Completed Date		---	---	06-Jan-20	06-Jan-20	06-Jan-20
4: Analysis Completed Time		---	---	11:30	11:30	11:30
5: MAC		---	---	0	0	---
6: 1A0E6 DW 1A0E6 Sample Station	02-Jan-20 13:50	9.3	0.96	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



**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

10-January-2020

**Mun of Middlesex Centre (Birr)**

Attn : Brian Watson

**Date Rec. :** 07 January 2020  
**LR Report:** CA20105-JAN20

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

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## CERTIFICATE OF ANALYSIS

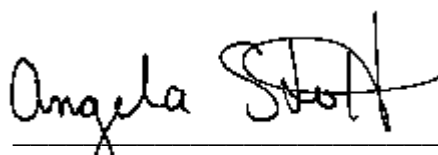
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Total Coliform cfu/100mL	E.Coli cfu/100mL
1: Analysis Start Date		---	07-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		---	12:44	12:44
5: MAC		---	0	0
6: 35E33 RW 35E33 Well #2	06-Jan-20 11:10	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  
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**SGS Canada Inc.**

657 Consortium Court  
London - Ontario - N6E 2S8  
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17-January-2020

**Mun of Middlesex Centre (Birr)**

Attn : Brian Watson

Date Rec. : 14 January 2020  
LR Report: CA20483-JAN20

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Canada, N0M 2A0  
Phone: 519-666-0190 ext 255, Fax:519-666-0271

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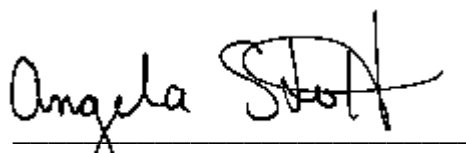
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	14-Jan-20	14-Jan-20	14-Jan-20
2: Analysis Start Time		---	---	14:35	14:35	14:00
3: Analysis Completed Date		---	---	16-Jan-20	16-Jan-20	16-Jan-20
4: Analysis Completed Time		---	---	16:57	16:57	16:57
5: MAC		---	---	0	0	---
6: 1A0E6 DW 1A0E6 Sample Station	13-Jan-20 11:25	6.3	1.43	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

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

**SGS Canada Inc.**

657 Consortium Court  
London - Ontario - N6E 2S8  
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31-January-2020

**Mun of Middlesex Centre (Birr)**

Attn : Brian Watson

Date Rec. : 28 January 2020  
LR Report: CA20966-JAN20

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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	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	28-Jan-20	28-Jan-20	28-Jan-20
2: Analysis Start Time		---	---	10:25	10:25	10:15
3: Analysis Completed Date		---	---	30-Jan-20	30-Jan-20	30-Jan-20
4: Analysis Completed Time		---	---	10:31	10:31	10:31
5: MAC		---	---	0	0	---
6: 1A0E6 DW Sample Station	27-Jan-20 11:24	6.6	1.23	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

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



Works #: 220005492

**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.  
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Phone: 705-652-2000 FAX: 705-652-6365

13-January-2020

**Mun of Middlesex Centre (Birr)**

Attn : Brian Watson

Date Rec. : 07 January 2020

LR Report: CA30036-JAN20

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: 1A0E6 DW 1A0E6 Sample Station
Sample Date & Time							06-Jan-20 11:20
Temperature Upon Receipt [°C]	---	---	---	---	---	---	10.0
Trihalomethanes (total) [ug/L]	09-Jan-20	16:56	10-Jan-20	12:53	100 (RAA)	0.37	50
Bromodichloromethane [ug/L]	09-Jan-20	16:56	10-Jan-20	12:53	--	0.26	6.3
Bromoform [ug/L]	09-Jan-20	16:56	10-Jan-20	12:53	--	0.34	0.34 <MDL
Chloroform [ug/L]	09-Jan-20	16:56	10-Jan-20	12:53	--	0.29	43
Dibromochloromethane [ug/L]	09-Jan-20	16:56	10-Jan-20	12:53	--	0.37	0.77
Total Haloacetic Acids (HAA5) [ug/L]	09-Jan-20	07:08	10-Jan-20	12:44	80 (RAA)	5.3	39.8
Chloroacetic Acid [ug/L]	09-Jan-20	07:08	10-Jan-20	12:44	---	4.7	4.7 <MDL
Bromoacetic Acid [ug/L]	09-Jan-20	07:08	10-Jan-20	12:44	---	2.9	2.9 <MDL
Dichloroacetic Acid [ug/L]	09-Jan-20	07:08	10-Jan-20	12:44	---	2.6	17.2
Dibromoacetic Acid [ug/L]	09-Jan-20	07:08	10-Jan-20	12:44	---	2.0	2.0 <MDL
Trichloroacetic Acid [ug/L]	09-Jan-20	07:08	10-Jan-20	12:44	---	5.3	22.6

MAC - Maximum Acceptable Concentration

MDL - SGS Method Detection Limit

\*Nitrite, Nitrate and Nitrates bottle was inadvertently preserved at the Laboratory for the Treated Water sample. Client was notified.

## 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
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013
ug/L	HAA wtr - DW	ME-CA-[ENV]GC-LAK-AN-013



Works #: 220005492

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LR Report : CA30036-JAN20

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

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10-January-2020

**Mun of Middlesex Centre (Birr)**

Attn : Brian Watson

Date Rec. : 07 January 2020  
LR Report: CA30038-JAN20

10227 Ilderton Rd.  
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N0M 2A0, Canada

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# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: AO/OG	6: MDL	7: RW 35E33 Well #2
Sample Date & Time							06-Jan-20 11:10
Temperature Upon Receipt [°C]					---	---	10.0
Bicarbonate [mg/L as CaCO <sub>3</sub> ]	08-Jan-20	13:45	09-Jan-20	11:01	---	2	198
Carbonate [mg/L as CaCO <sub>3</sub> ]	08-Jan-20	13:45	09-Jan-20	11:01	---	2	< 2
Total Suspended Solids [mg/L]	08-Jan-20	09:39	09-Jan-20	13:48	---	2	4
Sulphide [ug/L]	08-Jan-20	13:00	08-Jan-20	15:27	50	6	6 <MDL
Iron [ug/L]	09-Jan-20	08:13	09-Jan-20	16:18	300	0	1240
Manganese [ug/L]	09-Jan-20	08:13	09-Jan-20	16:18	50	0.00	25.1

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

### Method Descriptions

Units	Description	SGS Method Code
mg/L as CaCO <sub>3</sub>	Bicarbonate by Titration	ME-CA-[ENV]EWL-LAK-AN-006
mg/L as CaCO <sub>3</sub>	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



Works #: 220005492

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16-January-2020

**Mun of Middlesex Centre (Birr)**

Attn : Brian Watson

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

Date Rec. : 14 January 2020  
LR Report: CA30176-JAN20

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

## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Sample Date & Time	Temperature upon Delivery @ London Lab °C	Nitrite (as N) mg/L	Nitrate (as N) mg/L	Nitrate + Nitrite (as N) mg/L
1: Analysis Start Date		---	15-Jan-20	15-Jan-20	15-Jan-20
2: Analysis Start Time		---	16:37	16:37	16:37
3: Analysis Completed Date		---	16-Jan-20	16-Jan-20	16-Jan-20
4: Analysis Completed Time		---	10:57	10:57	10:57
5: MAC		---	1	10	---
6: MDL		---	0.003	0.006	0.006
7: 35E35 TW 35E35 Water Treatment Facility	13-Jan-20 11:45	6.3	0.003 <MDL	0.017	0.017

MAC - Maximum Acceptable Concentration  
MDL - SGS Method Detection Limit

### Method Descriptions

Units	Description	SGS Method Code
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

  
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Project Specialist,  
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**SGS Canada Inc.**

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Phone: 519-672-4500 FAX: 519-672-0361

07-February-2020

**Mun of Middlesex Centre (Birr)**
**Attn :** Brian Watson

**Date Rec. :** 04 February 2020  
**LR Report:** CA20050-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

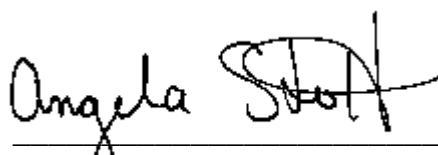
### Final Report

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: 35E33 RW 35E33 Well #2	03-Feb-20 10:40	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



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Branch Manager-London  
Environment, Health & Safety

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657 Consortium Court  
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14-February-2020

**Mun of Middlesex Centre (Birr)**
**Attn :** Brian Watson

**Date Rec. :** 11 February 2020  
**LR Report:** CA20382-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

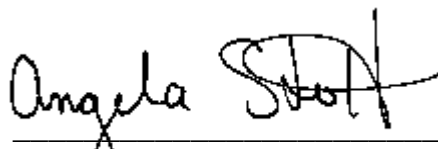
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	11-Feb-20	11-Feb-20	11-Feb-20
2: Analysis Start Time		---	---	13:20	13:20	12:55
3: Analysis Completed Date		---	---	13-Feb-20	13-Feb-20	13-Feb-20
4: Analysis Completed Time		---	---	13:44	13:44	13:44
5: MAC		---	---	0	0	---
6: 1A0E6 DW 1A0E6 Sample Station	10-Feb-20 08:46	4.1	0.80	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



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**Branch Manager-London**  
**Environment, Health & Safety**

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657 Consortium Court  
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27-February-2020

**Mun of Middlesex Centre (Birr)**

Attn : Brian Watson

**Date Rec. :** 25 February 2020  
**LR Report:** CA20882-FEB20

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Canada, N0M 2A0  
Phone: 519-666-0190 ext 255, Fax:519-666-0271

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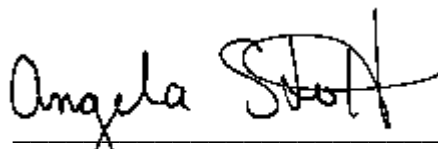
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	25-Feb-20	25-Feb-20	25-Feb-20
2: Analysis Start Time		---	---	11:50	11:50	10:50
3: Analysis Completed Date		---	---	27-Feb-20	27-Feb-20	27-Feb-20
4: Analysis Completed Time		---	---	13:27	13:27	13:27
5: MAC		---	---	0	0	---
6: 1A0E6 DW 1A0E6 Sample Station	24-Feb-20 10:38	3.4	0.87	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



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



Works #: 220005492

**SGS Canada Inc.**

657 Consortium Court  
London - Ontario - N6E 2S8  
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06-March-2020

**Mun of Middlesex Centre (Birr)**

Attn : Brian Watson

Date Rec. : 03 March 2020  
LR Report: CA20040-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	E.Coli cfu/100mL	Total Coliform 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: 35E33 RW Well #2	02-Mar-20 11:04	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

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13-March-2020

**Mun of Middlesex Centre (Birr)**
**Attn :** Brian Watson

**Date Rec. :** 10 March 2020  
**LR Report:** CA20415-MAR20

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

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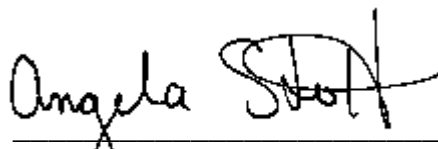
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	10-Mar-20	10-Mar-20	10-Mar-20
2: Analysis Start Time		---	---	16:30	16:30	16:00
3: Analysis Completed Date		---	---	13-Mar-20	13-Mar-20	13-Mar-20
4: Analysis Completed Time		---	---	10:35	10:35	10:35
5: MAC		---	---	0	0	---
6: 1A0E6 DW 1A0E6 Sample Station	09-Mar-20 10:39	5.0	1.08	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



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Environment, Health & Safety

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27-March-2020

**Mun of Middlesex Centre (Birr)**
**Attn :** Brian Watson

**Date Rec. :** 24 March 2020  
**LR Report:** CA21003-MAR20

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Ilderton, ON  
N0M 2A0, Canada

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

## CERTIFICATE OF ANALYSIS

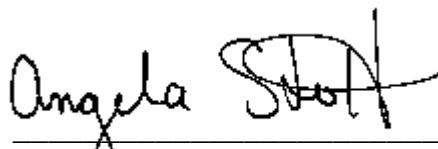
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	24-Mar-20	24-Mar-20	24-Mar-20
2: Analysis Start Time		---	---	17:15	17:15	16:30
3: Analysis Completed Date		---	---	27-Mar-20	27-Mar-20	27-Mar-20
4: Analysis Completed Time		---	---	08:05	08:05	08:05
5: MAC		---	---	0	0	---
6: 1A0E6 DW Sample Station	23-Mar-20 11:34	2.9	1.17	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



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13-April-2020

## Mun of Middlesex Centre (Birr)

Attn : Brian Watson

**Date Rec. :** 07 April 2020  
**LR Report:** CA20196-APR20

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Canada, N0M 2A0  
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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	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	07-Apr-20	07-Apr-20	07-Apr-20
2: Analysis Start Time		---	14:45	14:45	14:00
3: Analysis Completed Date		---	09-Apr-20	09-Apr-20	09-Apr-20
4: Analysis Completed Time		---	13:56	13:56	13:56
5: MAC		---	0	0	---
6: 35E33 RW 35E33 Well #2	06-Apr-20 10:36	5.8	0	0	---
7: 1A0E6 DW 1A0E6 Sample Station	06-Apr-20 10:50	5.8	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

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

**SGS Canada Inc.**

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24-April-2020

**Mun of Middlesex Centre (Birr)**
**Attn :** Brian Watson

**Date Rec. :** 21 April 2020

**LR Report:** CA20694-APR20

10227 Ilderton Rd., Ilderton

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## CERTIFICATE OF ANALYSIS

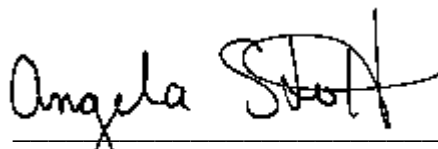
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	21-Apr-20	21-Apr-20	21-Apr-20
2: Analysis Start Time		---	---	13:15	13:15	12:35
3: Analysis Completed Date		---	---	23-Apr-20	23-Apr-20	23-Apr-20
4: Analysis Completed Time		---	---	14:00	14:00	14:00
5: MAC		---	---	0	0	---
6: 1A0E6 DW 1A0E6 Sample Station	20-Apr-20 11:23	3.9	0.91	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



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Branch Manager-London  
Environment, Health & Safety



Works #: 220005492

**SGS Canada Inc.**

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16-April-2020

**Mun of Middlesex Centre (Birr)**

Attn : Brian Watson

Date Rec. : 07 April 2020

LR Report: CA30079-APR20

10227 Ilderton Rd.  
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N0M 2A0, Canada

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# 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: 1A0E6 DW 1A0E6 Sample Station	10: 35E35 TW 35E35 Water Treatment Facility (Tap)
Sample Date & Time							06-Apr-20 10:50	06-Apr-20 10:37
Temperature Upon Receipt [°C]	---	---	---	---	---	---	15.0	15.0
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	---	0.014
Nitrate + Nitrite (as N) [mg/L]	09-Apr-20	02:04	09-Apr-20	13:34	---	0.006	---	0.014
Trihalomethanes (total) [ug/L]	13-Apr-20	21:35	16-Apr-20	13:14	100 (RAA)	0.37	53	---
Bromodichloromethane [ug/L]	13-Apr-20	21:35	16-Apr-20	13:14	--	0.26	6.6	---
Bromoform [ug/L]	13-Apr-20	21:35	16-Apr-20	13:14	--	0.34	0.34 <MDL	---
Chloroform [ug/L]	13-Apr-20	21:35	16-Apr-20	13:14	--	0.29	46	---
Dibromochloromethane [ug/L]	13-Apr-20	21:35	16-Apr-20	13:14	--	0.37	0.85	---
Total Haloacetic Acids (HAA5) [ug/L]	09-Apr-20	07:49	15-Apr-20	12:06	80 (RAA)	5.3	35.4	---
Chloroacetic Acid [ug/L]	09-Apr-20	07:49	15-Apr-20	12:06	---	4.7	4.7 <MDL	---
Bromoacetic Acid [ug/L]	09-Apr-20	07:49	15-Apr-20	12:06	---	2.9	2.9 <MDL	---
Dichloroacetic Acid [ug/L]	09-Apr-20	07:49	15-Apr-20	12:06	---	2.6	15.0	---
Dibromoacetic Acid [ug/L]	09-Apr-20	07:49	15-Apr-20	12:06	---	2.0	2.0 <MDL	---
Trichloroacetic Acid [ug/L]	09-Apr-20	07:49	15-Apr-20	12:06	---	5.3	20.4	---

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



Works #: 220005492

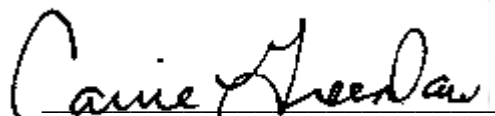
**SGS Canada Inc.**

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Lakefield - Ontario - KOL 2H0

Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA30079-APR20

  
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 (Birr)**
**Attn :** Brian Watson

**Date Rec. :** 05 May 2020

**LR Report:** CA20094-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

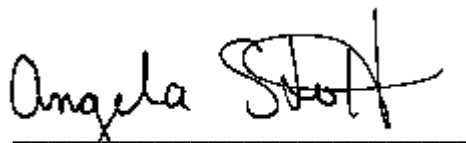
## Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	05-May-20	05-May-20	05-May-20
2: Analysis Start Time		---	---	14:30	14:30	14:15
3: Analysis Completed Date		---	---	08-May-20	08-May-20	08-May-20
4: Analysis Completed Time		---	---	08:32	08:32	08:32
5: MAC		---	---	0	0	---
6: 35E33 RW 35E33 Well #2	04-May-20 11:30	5.1	---	0	0	---
7: 1A0E6 DW 1A0E6 Sample Station	04-May-20 11:39	5.1	1.16	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

  
 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 (Birr)

Attn : Brian Watson

Date Rec. : 19 May 2020  
LR Report: CA20708-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

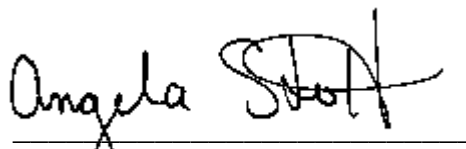
## Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	19-May-20	19-May-20	19-May-20
2: Analysis Start Time		---	---	14:50	14:50	14:25
3: Analysis Completed Date		---	---	21-May-20	21-May-20	21-May-20
4: Analysis Completed Time		---	---	16:44	16:44	16:44
5: MAC		---	---	0	0	---
6: 1A0E6 DW 1A0E6 Sample Station	18-May-20 11:48	7.0	0.91	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

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



Works #: 220005492

**SGS Canada Inc.**

657 Consortium Court  
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Phone: 519-672-4500 FAX: 519-672-0361

05-June-2020

**Mun of Middlesex Centre (Birr)**

Attn : Brian Watson

Date Rec. : 02 June 2020  
LR Report: CA20134-JUN20

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

Sample ID	Sample Date & Time	Temp Upon Receipt Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	HPC cfu/1mL Spread Plate
1: Analysis Start Date		---	---	02-Jun-20	02-Jun-20	02-Jun-20
2: Analysis Start Time		---	---	17:30	17:30	16:20
3: Analysis Completed Date		---	---	05-Jun-20	05-Jun-20	05-Jun-20
4: Analysis Completed Time		---	---	07:56	07:56	07:56
5: MAC		---	---	0	0	---
6: 35E33 RW Well #2	01-Jun-20 10:47	6.4	0.05	0	0	---
7: 1A0E6 DW Sample Station	01-Jun-20 11:00	6.4	1.21	0	0	< 10

## 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

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

**SGS Canada Inc.**

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19-June-2020

**Mun of Middlesex Centre (Birr)**
**Attn :** Brian Watson

**Date Rec. :** 16 June 2020  
**LR Report:** CA20820-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

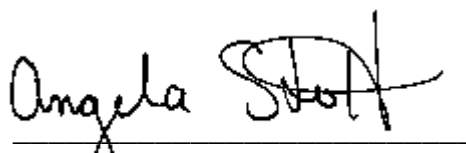
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	16-Jun-20	16-Jun-20	16-Jun-20
2: Analysis Start Time		---	---	16:55	16:55	16:25
3: Analysis Completed Date		---	---	19-Jun-20	19-Jun-20	19-Jun-20
4: Analysis Completed Time		---	---	10:34	10:34	10:34
5: MAC		---	---	0	0	---
6: 1A0E6 DW 1A0E6 Sample Station	15-Jun-20 14:30	4.5	1.18	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

  
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 Branch Manager-London  
 Environment, Health & Safety

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02-July-2020

**Mun of Middlesex Centre (Birr)**
**Attn :** Brian Watson

**Date Rec. :** 30 June 2020  
**LR Report:** CA21525-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

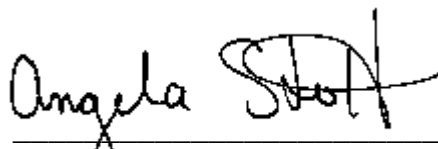
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	30-Jun-20	30-Jun-20	30-Jun-20
2: Analysis Start Time		---	---	14:50	14:50	14:10
3: Analysis Completed Date		---	---	02-Jul-20	02-Jul-20	02-Jul-20
4: Analysis Completed Time		---	---	14:09	14:09	14:09
5: MAC		---	---	0	0	---
6: 1A0E6 DW Sample Station	29-Jun-20 10:37	9.8	1.01	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



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



Works #: 220005492

**SGS Canada Inc.**

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10-July-2020

**Mun of Middlesex Centre (Birr)**

Attn : Brian Watson

Date Rec. : 07 July 2020  
LR Report: CA20230-JUL20

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Ilderton, ON  
N0M 2A0, Canada

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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: 35E33 RW 35E33 Well #2	06-Jul-20 10:38	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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Branch Manager-London  
Environment, Health & Safety

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657 Consortium Court  
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17-July-2020

**Mun of Middlesex Centre (Birr)**
**Attn :** Brian Watson

**Date Rec. :** 14 July 2020  
**LR Report:** CA20649-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	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	14-Jul-20	14-Jul-20	14-Jul-20
2: Analysis Start Time		---	---	17:00	17:00	16:30
3: Analysis Completed Date		---	---	16-Jul-20	16-Jul-20	16-Jul-20
4: Analysis Completed Time		---	---	15:24	15:24	15:24
5: MAC		---	---	0	0	---
6: 1A0E6 DW 1A0E6 Sample Station	13-Jul-20 11:26	11.3	0.96	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

  
**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

30-July-2020

**Mun of Middlesex Centre (Birr)**
**Attn :** Brian Watson

**Date Rec. :** 28 July 2020  
**LR Report:** CA21317-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	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	28-Jul-20	28-Jul-20	28-Jul-20
2: Analysis Start Time		---	---	13:35	13:35	13:10
3: Analysis Completed Date		---	---	30-Jul-20	30-Jul-20	30-Jul-20
4: Analysis Completed Time		---	---	16:59	16:59	16:59
5: MAC		---	---	0	0	---
6: 1A0E6 DW 1A0E6 Sample Station	27-Jul-20 12:06	6.3	1.33	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



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



Works #: 220005492

**SGS Canada Inc.**

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14-July-2020

**Mun of Middlesex Centre (Birr)**

Attn : Brian Watson

Date Rec. : 07 July 2020  
 LR Report: CA30089-JUL20

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# 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: 1A0E6 DW 1A0E6 35E35 TW 35E35 Sample Station Water Treatment Facility	10:
Sample Date & Time							06-Jul-20 11:10 06-Jul-20 10:41	
Temperature Upon Receipt [°C]	---	---	---	---	---	---	5.0	5.0
Field Free Chlorine [mg/L]	---	---	---	---	---	---	0.83	---
Nitrite (as N) [mg/L]	09-Jul-20	07:09	10-Jul-20	11:48	1.0	0.003	---	0.003 <MDL
Nitrate (as N) [mg/L]	09-Jul-20	07:09	10-Jul-20	11:48	10	0.006	---	0.014
Nitrate + Nitrite (as N) [mg/L]	09-Jul-20	07:09	10-Jul-20	11:48	---	0.006	---	0.014
Trihalomethanes (total) [ug/L]	10-Jul-20	14:08	13-Jul-20	16:51	100 (RAA)	0.37	63	---
Bromodichloromethane [ug/L]	10-Jul-20	14:08	13-Jul-20	16:51	--	0.26	7.0	---
Bromoform [ug/L]	10-Jul-20	14:08	13-Jul-20	16:51	--	0.34	0.34 <MDL	---
Chloroform [ug/L]	10-Jul-20	14:08	13-Jul-20	16:51	--	0.29	55	---
Dibromochloromethane [ug/L]	10-Jul-20	14:08	13-Jul-20	16:51	--	0.37	0.81	---
Total Haloacetic Acids (HAA5) [ug/L]	10-Jul-20	10:56	13-Jul-20	16:02	80 (RAA)	5.3	51.3	---
Chloroacetic Acid [ug/L]	10-Jul-20	10:56	13-Jul-20	16:02	---	4.7	4.7 <MDL	---
Bromoacetic Acid [ug/L]	10-Jul-20	10:56	13-Jul-20	16:02	---	2.9	2.9 <MDL	---
Dichloroacetic Acid [ug/L]	10-Jul-20	10:56	13-Jul-20	16:02	---	2.6	24.1	---
Dibromoacetic Acid [ug/L]	10-Jul-20	10:56	13-Jul-20	16:02	---	2.0	2.0 <MDL	---
Trichloroacetic Acid [ug/L]	10-Jul-20	10:56	13-Jul-20	16:02	---	5.3	27.1	---

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 : CA30089-JUL20

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  
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07-August-2020

**Mun of Middlesex Centre (Birr)**
**Attn :** Brian Watson

**Date Rec. :** 04 August 2020  
**LR Report:** CA20030-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: 35E33 RW 35E33 Well #2	03-Aug-20 11:45	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



**Crista Schuster**  
Project Specialist-London,  
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**SGS Canada Inc.**

657 Consortium Court  
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Phone: 519-672-4500 FAX: 519-672-0361

14-August-2020

**Mun of Middlesex Centre (Birr)**
**Attn :** Brian Watson

**Date Rec. :** 11 August 2020  
**LR Report:** CA20456-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

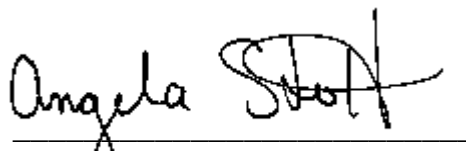
### Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	11-Aug-20	11-Aug-20	11-Aug-20
2: Analysis Start Time		---	---	15:10	15:10	14:40
3: Analysis Completed Date		---	---	13-Aug-20	13-Aug-20	13-Aug-20
4: Analysis Completed Time		---	---	17:22	17:22	17:22
5: MAC		---	---	0	0	---
6: 1A0E6 DW Sample Station	10-Aug-20 11:07	5.9	0.98	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

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

**SGS Canada Inc.**

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London - Ontario - N6E 2S8  
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28-August-2020

**Mun of Middlesex Centre (Birr)**
**Attn :** Brian Watson

**Date Rec. :** 25 August 2020  
**LR Report:** CA21195-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	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	25-Aug-20	25-Aug-20	25-Aug-20
2: Analysis Start Time		---	---	12:40	12:40	12:05
3: Analysis Completed Date		---	---	28-Aug-20	28-Aug-20	28-Aug-20
4: Analysis Completed Time		---	---	10:23	10:23	10:23
5: MAC		---	---	0	0	---
6: 1A0E6 DW 1A0E6 Sample Station	24-Aug-20 15:52	7.5	1.27	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



**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 (Birr)**

Attn : Brian Watson

**Date Rec. :** 08 September 2020  
**LR Report:** CA20335-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 ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	08-Sep-20	08-Sep-20	08-Sep-20
2: Analysis Start Time		---	---	13:00	13:00	12:40
3: Analysis Completed Date		---	---	10-Sep-20	10-Sep-20	10-Sep-20
4: Analysis Completed Time		---	---	16:09	16:09	16:09
5: MAC		---	---	0	0	---
6: 35E33 RW Well #2	07-Sep-20 11:33	7.8	---	0	0	---
7: 1A0E6 DW Sample Station	07-Sep-20 11:40	7.8	0.60	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



**Angela Stott, B.Sc.**  
Branch Manager-London  
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Phone: 519-672-4500 FAX: 519-672-0361

25-September-2020

**Mun of Middlesex Centre (Birr)**

Attn : Brian Watson

**Date Rec. :** 22 September 2020  
**LR Report:** CA21070-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	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	22-Sep-20	22-Sep-20	22-Sep-20
2: Analysis Start Time		---	---	11:00	11:00	10:10
3: Analysis Completed Date		---	---	24-Sep-20	24-Sep-20	24-Sep-20
4: Analysis Completed Time		---	---	11:33	11:33	11:33
5: MAC		---	---	0	0	---
6: 1A0E6 DW 1A0E6 Sample Station	21-Sep-20 10:26	7.2	0.76	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

  
**Crista 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 (Birr)**

Attn : Brian Watson

Date Rec. : 06 October 2020  
LR Report: CA20160-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	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	06-Oct-20	06-Oct-20	06-Oct-20
2: Analysis Start Time		---	---	14:55	14:55	14:30
3: Analysis Completed Date		---	---	08-Oct-20	08-Oct-20	08-Oct-20
4: Analysis Completed Time		---	---	14:04	14:04	14:04
5: MAC		---	---	0	0	---
6: 35E33 RW 35E33 Well #2	05-Oct-20 11:01	12.9	---	0	0	---
7: 1A0E6 DW 1A0E6 Sample Station	05-Oct-20 11:20	12.9	0.90	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

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

**SGS Canada Inc.**

657 Consortium Court  
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26-October-2020

**Mun of Middlesex Centre (Birr)**

Attn : Brian Watson

**Date Rec. :** 20 October 2020

**LR Report:** CA20830-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

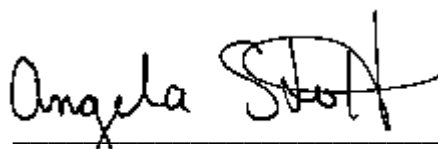
## Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	20-Oct-20	20-Oct-20	20-Oct-20
2: Analysis Start Time		---	---	15:35	15:35	15:10
3: Analysis Completed Date		---	---	22-Oct-20	22-Oct-20	22-Oct-20
4: Analysis Completed Time		---	---	17:11	17:11	17:11
5: MAC		---	---	0	0	---
6: 1A0E6 DW 1A0E6 Sample Station	19-Oct-20 12:19	4.3	1.26	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



Angela Stott, B.Sc.  
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## Mun of Middlesex Centre (Birr)

Attn : Brian Watson

10227 Ilderton Rd.  
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N0M 2A0, Canada

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

**Works #:** 220005492

**15-October-2020**

**Date Rec. :** 06 October 2020  
**LR Report:** CA30054-OCT20

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# CERTIFICATE OF ANALYSIS

## Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: MAC	6: Half MAC	7: AO/OG	8: MDL	9: 1A0E6 DW 1A0E6 Sample Station.THM	10: 1A0E6 DW 1A0E6 Sample Station.HAA	11: 35E35 TW 35E35 Water Treatment Facility
Sample Date & Time									05-Oct-20 12:07	05-Oct-20 11:20	05-Oct-20 11:02
Temperature Upon Receipt [°C]	---	---	---	---	---	---	---	---	8.0	8.0	8.0
Field Free Chlorine [mg/L]	---	---	---	---	---	---	---	---	0.90	0.90	---
Nitrite (as N) [mg/L]	08-Oct-20	17:11	09-Oct-20	10:15	1.0	---	---	0.003	---	---	0.003 <MDL
Nitrate (as N) [mg/L]	08-Oct-20	17:11	09-Oct-20	10:15	10	---	---	0.006	---	---	0.009
Nitrate + Nitrite (as N) [mg/L]	08-Oct-20	17:11	09-Oct-20	10:15	---	---	---	0.006	---	---	0.009
Trihalomethanes (total) [ug/L]	07-Oct-20	15:46	08-Oct-20	13:14	100 (RAA)	---	---	0.37	66	---	---
Bromodichloromethane [ug/L]	07-Oct-20	15:46	08-Oct-20	13:14	--	---	---	0.26	7.8	---	---
Bromoform [ug/L]	07-Oct-20	15:46	08-Oct-20	13:14	--	---	---	0.34	0.34 <MDL	---	---
Chloroform [ug/L]	07-Oct-20	15:46	08-Oct-20	13:14	--	---	---	0.29	57	---	---
Dibromochloromethane [ug/L]	07-Oct-20	15:46	08-Oct-20	13:14	--	---	---	0.37	0.98	---	---
Total Haloacetic Acids (HAA5) [ug/L]	09-Oct-20	14:52	15-Oct-20	11:03	80 (RAA)	---	---	5.3	---	48.7	---
Chloroacetic Acid [ug/L]	09-Oct-20	14:52	15-Oct-20	11:03	---	---	---	4.7	---	4.7 <MDL	---
Bromoacetic Acid [ug/L]	09-Oct-20	14:52	15-Oct-20	11:03	---	---	---	2.9	---	2.9 <MDL	---
Dichloroacetic Acid [ug/L]	09-Oct-20	14:52	15-Oct-20	11:03	---	---	---	2.6	---	20.6	---
Dibromoacetic Acid [ug/L]	09-Oct-20	14:52	15-Oct-20	11:03	---	---	---	2.0	---	2.0 <MDL	---
Trichloroacetic Acid [ug/L]	09-Oct-20	14:52	15-Oct-20	11:03	---	---	---	5.3	---	28.1	---

MAC - Maximum Acceptable Concentration

MDL - SGS Method Detection Limit

Online LIMS



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Phone: 705-652-2000 FAX: 705-652-6365

Works #: 220005492

LR Report : CA30054-OCT20

## 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
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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London - Ontario - N6E 2S8  
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04-December-2020

**Mun of Middlesex Centre (Birr)**

Attn : Brian Watson

Date Rec. : 01 December 2020

LR Report: CA20063-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

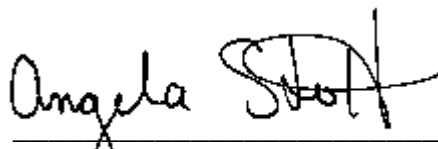
## Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	01-Dec-20	01-Dec-20	01-Dec-20
2: Analysis Start Time		---	---	16:15	16:15	15:40
3: Analysis Completed Date		---	---	03-Dec-20	03-Dec-20	03-Dec-20
4: Analysis Completed Time		---	---	15:08	15:08	15:08
5: MAC		---	---	0	0	---
6: 1A0E6 DW 1A0E6 Sample Station	30-Nov-20 12:50	4.1	0.62	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



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

**SGS Canada Inc.**

657 Consortium Court  
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Phone: 519-672-4500 FAX: 519-672-0361

06-November-2020

**Mun of Middlesex Centre (Birr)**
**Attn :** Brian Watson

**Date Rec. :** 03 November 2020  
**LR Report:** CA20103-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

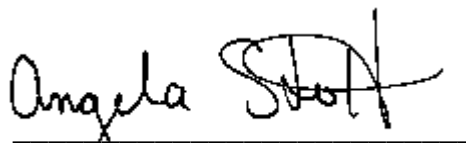
## Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	Field ResCI Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	03-Nov-20	03-Nov-20	03-Nov-20
2: Analysis Start Time		---	---	17:10	17:10	16:25
3: Analysis Completed Date		---	---	06-Nov-20	06-Nov-20	06-Nov-20
4: Analysis Completed Time		---	---	08:31	08:31	08:31
5: MAC		---	---	0	0	---
6: 35E33 RW 35E33 Well #2	02-Nov-20 10:58	6.6	---	0	0	---
7: 1A0E6 DW 1A0E6 Sample Station	02-Nov-20 11:19	6.6	1.23	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

  
 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

19-November-2020

**Mun of Middlesex Centre (Birr)**

Attn : Brian Watson

Date Rec. : 17 November 2020

LR Report: CA20679-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	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	17-Nov-20	17-Nov-20	17-Nov-20
2: Analysis Start Time		---	---	15:25	15:25	14:55
3: Analysis Completed Date		---	---	19-Nov-20	19-Nov-20	19-Nov-20
4: Analysis Completed Time		---	---	15:26	15:26	15:26
5: MAC		---	---	0	0	---
6: 1A0E6 DW Sample Station	16-Nov-20 08:45	0.9	1.16	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



Crista 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

10-December-2020

**Mun of Middlesex Centre (Birr)**
**Attn :** Brian Watson

**Date Rec. :** 08 December 2020  
**LR Report:** CA20318-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	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: 35E33 RW 35E33 Well #2	07-Dec-20 11:28	7.3	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**  
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 Environment, Health & Safety

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

17-December-2020

## Mun of Middlesex Centre (Birr)

Attn : Brian Watson

Date Rec. : 15 December 2020  
LR Report: CA20636-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	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	15-Dec-20	15-Dec-20	15-Dec-20
2: Analysis Start Time		---	---	14:25	14:25	13:55
3: Analysis Completed Date		---	---	17-Dec-20	17-Dec-20	17-Dec-20
4: Analysis Completed Time		---	---	15:03	15:03	15:03
5: MAC		---	---	0	0	---
6: 1A0E6 DW 1A0E6 Sample Station	14-Dec-20 11:03	5.5	1.21	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



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 (Birr)**
**Attn :** Brian Watson

**Date Rec. :** 29 December 2020  
**LR Report:** CA21105-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	Heterotrophic Plate Count (HPC) cfu/1mL
1: Analysis Start Date		---	---	29-Dec-20	29-Dec-20	29-Dec-20
2: Analysis Start Time		---	---	12:05	12:05	11:40
3: Analysis Completed Date		---	---	31-Dec-20	31-Dec-20	31-Dec-20
4: Analysis Completed Time		---	---	09:33	09:33	09:33
5: MAC		---	---	0	0	---
6: 1A0E6 DW 1A0E6 Sample Station	28-Dec-20 14:52	7.8	0.95	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



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