

Melrose Drinking Water System

2023 Annual Performance & Summary Report

Date: January 15, 2024

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

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Introduction

The Municipality of Middlesex Centre has prepared a report summarizing system operation and water quality for the Melrose Drinking Water System. The reports details 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 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.

Drinking Water System	Melrose Well Supply System
Drinking Water System Number	260002915
Drinking Water System Owner & Contact	Municipality of Middlesex Centre
Information	Small Municipal Residential System
	10227 Ilderton Road, RR #2
	Ilderton, Ontario
	NOM 2A0
Reporting Period	January 1, 2023 to December 31, 2023

Table 1 – Plant Information

Section A – System Description

The Melrose Drinking Water System, owned and operated by the Municipality of Middlesex Centre, is a ground water supply system servicing 64 lots with an estimated population of approximately 200 residents. The system consists of two deep-drilled groundwater production wells operating under Permit to Take Water # P-300-8072386149.

Raw water is pumped through a 12% sodium hypochlorite pre-disinfection system into an aerator, where the iron is oxidized for removal, then to an aeration reservoir. From this reservoir, the water is pumped to three multimedia pressure filters for final iron removal. The filtered water is then stored in a triple-chambered clear well for disinfection contact time. A chlorine analyzer samples the disinfection residual from the clear well and if needed chemical pumps are available to boost the disinfection to the filtered water prior to the clear well. Water is pumped from the clear well to the distribution system through one of three vertical distribution pumps based on the pressure of the system. A fourth fire pump is available if a greater quantity of water is required to meet the pressure needs of the system. The system is controlled by on-site programming logic with an operator interface program (SCADA) to allow for operational changes as required. The system is operated under Municipal Drinking Water License Number 052-103 and Drinking Water Works Permit Number 052-203.

MECP licensed drinking water operators maintain the system and its operations and collect regulated samples. In the event of failure of critical operational requirements automated alarms are relayed through a third-party system to operators for prompt response.

The Municipality of Middlesex Centre is currently preforming the pre-design engineering to allow for the Melrose Drinking Water system to the be connected to the Lake Huron Water Primary Water Supply System (LHPWSS) becoming a facility within the Middlesex Centre Water Distribution system.

Section B - Significant Modifications & Replacements

There were no significant changes to the Melrose system in 2023 due to the pending changes at the Melrose Water System.

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 cfu/100 mL 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 2023 sampling program are shown on the table below. There were no adverse test results in this reporting period as shown in Table 2.

Table 2 –	Ε.	Coli	&	Total	Coliform	Samples
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	Number of Samples	Range of E. coli Results Min – Max	Range of Total Coliform Results Min – Max
Raw	24	0 - 0	0 - 9
Distribution	29	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 2023 results are shown in Table 3.

Table 3 – Heterotrophic Plate Count (HPC) Samples

	Number of Samples	Range of HPC Results Min-Max
Distribution	29	<10 - 280

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. An increased testing frequency of once every three months is required by the Regulation where the concentration of a parameter is above half of the Maximum Allowable Concentration (MAC) under the Ontario Drinking Water Quality Standards. Where concerns regarding a parameter exist, the MECP can also require additional sampling be undertaken.

Nitrate and Nitrate

Nitrate and nitrate samples are required every 3 months in normal operation. Results for the year can be seen in Table 4.

Parameter & Sample	Pocult (mg/l)		Excondance
Date	Result (mg/l)		Exceedance
Nitrate			
1st Quarter	0.007	10	No
2nd Quarter	0.009	10	No
3rd Quarter	0.006	10	No
4th Quarter	0.006	10	No
Nitrite			
1st Quarter	0.003	1	No
2nd Quarter	0.003	1	No
3rd Quarter	0.004	1	No
4th Quarter	0.003	1	No

Table 4 – Quarterly Nitrate & Nitrite

*MDL- Minimum Detection Limit

Trihalomethanes (THM) and total Haloacetic Acids (HAA)

THM and HAA are by-products of the disinfection process. Sampling for these parameters, within the distribution system, is required every 3 months. The results are calculated as an annual running average, which is summarized in Table 5. There were no exceedances in the last four quarters.

Table 5 – Quarterl	y Trihalomethane & Haloacetic Acid
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Parameter & Sample Date	Result (mg/l)	Annual Running Average (mg/l)	MAC (mg/l)	Exceedance
Trihalomethane (THM)				
1st Quarter	14	13.3	100	No
2nd Quarter	16	13.8	100	No
3rd Quarter	17	15.3	100	No

Parameter & Sample Date	Result (mg/l)	Annual Running Average (mg/l)	MAC (mg/l)	Exceedance
4th Quarter	16	15.8	100	No
Haloacetic Acid (HAA)				
1st Quarter	5.30	5.30	80	No
2nd Quarter	5.30	5.30	80	No
3rd Quarter	5.30	5.30	80	No
4th Quarter	5.30	5.30	80	No

*MDL- Minimum Detection Limit

Sodium & Fluoride

Samples are analyzed every five (5) years as required. Sodium levels greater than 20 mg/L are to be reported to the MECP and MLHU. Regulated actions are as directed by the medical officer of health. Table 6 shows the results of testing that was completed in this 5-year cycle. Sodium and Fluoride samples are scheduled to be collected in January 2027.

Parameter	Sample Date	Result Value (mg/L)	MAC (mg/L)
Sodium	January 17, 2022	24.8	20
Sodium	February 1, 2022	27.3	20
Fluoride	January 17, 2022	1.00	1.5

Table 6 – 2022 Sodium & Fluoride

Lead

Lead sampling occurs twice a year in winter and summer months. As per Schedule D of the Melrose Municipal Drinking Water Licence (MDWL) # 052-103, Issue 7 sampling requirement is reduced to 1 distribution sample during each period. This reduction remains in effect until the end of the winter sample period in 2027.

Samples that are found to contain lead greater than the Maximum Acceptable Concentration (MAC) of 10 micrograms per liter (μ g/l) are required to be reported to the MLHU and MECP.

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

Table 7 summarizes the sampling period results for 2023. There were no exceedances.

Parameter	Result Value	MAC	Exceedance
Winter Sample (Dec. 15 – April 15)			
Lead (μg/l)	0.19	10	No

Distribution Alkalinity (mg/l)	227	*30 - 500	
Distribution pH	8.20	> 6.50	No
Summer Sample (June 15 – Oct. 15)			
Lead (µg/l)	0.19	10	No
Distribution Alkalinity	227	*30 - 500	
Distribution pH	7.83	> 6.50	No

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

Schedules 23 & 24

Schedules 23 and 24 are regulated chemical testing that is to be conducted every five (5) years on secure groundwater wells. Table 8 has the results of that testing with no exceedance reported. Schedules 23 & 24 samples are scheduled to be collected in January 2027.

Table 8 – Schedule 23 & 24

Sample Date: 17-Jan-22							
Parameter	Treated Water Value	Exceedance					
Antimony [ug/L]	0.6 <mdl< th=""><th>No</th></mdl<>	No					
Arsenic [ug/L]	0.2	No					
Barium [ug/L]	155	No					
Boron [ug/L]	164	No					
Cadmium [ug/L]	0.003 <mdl< th=""><th>No</th></mdl<>	No					
Chromium [ug/L]	0.08 <mdl< th=""><th>No</th></mdl<>	No					
Mercury [ug/L]	0.01 <mdl< th=""><th>No</th></mdl<>	No					
Selenium [ug/L]	0.04 <mdl< th=""><th>No</th></mdl<>	No					
Uranium [ug/L]	0.108	No					
Benzene [ug/L]	0.32 <mdl< th=""><th>No</th></mdl<>	No					
Carbon tetrachloride [ug/L]	0.17 <mdl< th=""><th>No</th></mdl<>	No					
1,2-Dichlorobenzene [ug/L]	0.41 <mdl< th=""><th>No</th></mdl<>	No					
1,4-Dichlorobenzene [ug/L]	0.36 <mdl< th=""><th>No</th></mdl<>	No					
1,1-Dichloroethylene (vinylidene chloride) [ug/L]	0.33 <mdl< th=""><th>No</th></mdl<>	No					
1,2-Dichloroethane [ug/L]	0.35 <mdl< th=""><th>No</th></mdl<>	No					
Dichloromethane [ug/L]	0.35 <mdl< th=""><th>No</th></mdl<>	No					
Monochlorobenzene [ug/L]	0.3 <mdl< th=""><th>No</th></mdl<>	No					
Tetrachloroethylene (perchloroethylene) [ug/L]	0.35 <mdl< th=""><th>No</th></mdl<>	No					
Trichloroethylene [ug/L]	0.44 <mdl< th=""><th>No</th></mdl<>	No					
Vinyl Chloride [ug/L]	0.17 <mdl< th=""><th>No</th></mdl<>	No					

Sample Date: 17-Ja	Sample Date: 17-Jan-22							
Parameter	Treated Water Value	Exceedance						
Diquat [ug/L]	1 <mdl< th=""><th>No</th></mdl<>	No						
Paraquat [ug/L]	1 <mdl< th=""><th>No</th></mdl<>	No						
Glyphosate [ug/L]	1 <mdl< th=""><th>No</th></mdl<>	No						
Polychlorinated Biphenyls (PCBs) - Total [ug/L]	0.04 <mdl< th=""><th>No</th></mdl<>	No						
Benzo(a)pyrene [ug/L]	0.004 <mdl< th=""><th>No</th></mdl<>	No						
Alachlor [ug/L]	0.02 <mdl< th=""><th>No</th></mdl<>	No						
Atrazine + N-dealkylated metabolites [ug/L]	0.01 <mdl< th=""><th>No</th></mdl<>	No						
Atrazine [ug/L]	0.01 <mdl< th=""><th>No</th></mdl<>	No						
Desethyl atrazine [ug/L]	0.01 <mdl< th=""><th>No</th></mdl<>	No						
Azinphos-methyl [ug/L]	0.05 <mdl< th=""><th>No</th></mdl<>	No						
Carbaryl [ug/L]	0.05 <mdl< th=""><th>No</th></mdl<>	No						
Carbofuran [ug/L]	0.01 <mdl< th=""><th>No</th></mdl<>	No						
Chlorpyrifos [ug/L]	0.02 <mdl< th=""><th>No</th></mdl<>	No						
Diazinon [ug/L]	0.02 <mdl< th=""><th>No</th></mdl<>	No						
Dimethoate [ug/L]	0.06 <mdl< th=""><th>No</th></mdl<>	No						
Diuron [ug/L]	0.03 <mdl< th=""><th>No</th></mdl<>	No						
Malathion [ug/L]	0.02 <mdl< th=""><th>No</th></mdl<>	No						
Metolachlor [ug/L]	0.01 <mdl< th=""><th>No</th></mdl<>	No						
Metribuzin [ug/L]	0.02 <mdl< th=""><th>No</th></mdl<>	No						
Phorate [ug/L]	0.01 <mdl< th=""><th>No</th></mdl<>	No						
Prometryne [ug/L]	0.03 <mdl< th=""><th>No</th></mdl<>	No						
Simazine [ug/L]	0.01 <mdl< th=""><th>No</th></mdl<>	No						
Terbufos [ug/L]	0.01 <mdl< th=""><th>No</th></mdl<>	No						
Triallate [ug/L]	0.01 <mdl< th=""><th>No</th></mdl<>	No						
Trifluralin [ug/L]	0.02 <mdl< th=""><th>No</th></mdl<>	No						
2,4-dichlorophenoxyacetic acid (2,4-D) [ug/L]	0.19 <mdl< th=""><th>No</th></mdl<>	No						
Bromoxynil [ug/L]	0.33 <mdl< th=""><th>No</th></mdl<>	No						
Dicamba [ug/L]	0.20 <mdl< th=""><th>No</th></mdl<>	No						
Diclofop-methyl [ug/L]	0.40 <mdl< th=""><th>No</th></mdl<>	No						
MCPA [mg/L]	0.00012 <mdl< th=""><th>No</th></mdl<>	No						
Picloram [ug/L]	1 <mdl< th=""><th>No</th></mdl<>	No						
2,4-dichlorophenol [ug/L]	0.15 <mdl< th=""><th>No</th></mdl<>	No						

Sample Date: 17-Jan-22							
Parameter	Treated Water Value	Exceedance					
2,4,6-trichlorophenol [ug/L]	0.25 <mdl< th=""><th>No</th></mdl<>	No					
2,3,4,6-tetrachlorophenol [ug/L]	0.20 <mdl< th=""><th>No</th></mdl<>	No					
Pentachlorophenol [ug/L]	0.15 <mdl< th=""><th>No</th></mdl<>	No					

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. Residual chlorine, providing disinfection within the distribution system is monitored twice weekly at a minimum. A target of 0.20 mg/L has been established as a minimum target. A free chlorine level lower than 0.05 mg/L must be reported and corrective action taken. There were no reportable incidents in 2023. 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)	117	0.85 - 1.57
Chlorine residual after treatment (mg/L)	Continuous	0.65 - 1.62

(II) Turbidity

Treated water turbidity, measured in units of NTU, is monitored continuously. Though turbidity of groundwater is not regulated under the Safe Drinking Water Act (SDWA) it is a tool that is used to signal a problem with plant operations. As a standard rule turbidity should be < 1 NTU at the treatment plant and < 5 NTU in the distribution system. As per the Permit to Take Water the turbidity of the raw well water is checked monthly. A summary of the monitoring results for 2023 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 - 1.18

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 2023 flows is provided below.

Table 11 – Rated Capacity

Flow Summary	Quantity
Permit to Take Water Limit	277 m³/d

		Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg
Rated Flow	m³	277	277	277	277	277	277	277	277	277	277	277	277	-
Raw Average	m3/d	31	34	30	39	56	57	43	47	45	37	33	35	41
Raw Max	m3/d	56	49	55	60	110	94	71	92	81	73	53	64	72

Table 12 – Monthly Raw Water Flows (m³/day)

Graph 1 – Monthly Flows (m3/day)



Table 13 – Treated Water Monthly Flow Summary

2023 Average Daily Treated Water Flow	33.84 m ³ /day
2023 Maximum Daily Treated Water Flow	106.47 m ³ /day
2023 Average Monthly Treated Water Flow	1,014 m ³
2023 Total Amount of Treated Water Supplied	12,173 m ³

	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Avg (m³/d)	22.5	26.4	21.5	31.5	54.5	56.9	35.9	38.9	37.8	28.9	24.4	26.9
Max (m ³ /d)	29.9	33.6	29.9	41.3	106.5	93.8	56.4	72.5	61.2	55.6	33.7	52.4

Table 14 – Treated Water Flow

Graph 2 – Monthly Treated Flows (m³/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 (m3/month)	Monthly Raw Average Flow (m3/day)	Max Raw Flow (m3/day)	Avg Flow / Rated Capacity				
January	973	31.40	56.02	11%				
February	965	34.45	48.85	12%				
March	945	30.49	55.01	11%				
April	1,180	39.32	59.95	14%				
Мау	1,751	56.49	109.50	20%				
June	1,708	56.94	93.78	34%				
July	1,335	43.07	71.42	16%				
August	1,457	47.01	47.01	17%				
September	1,356	45.19	81.11	16%				

System Capability Assessment Comparison of Treated Water Rates: Melrose Well Supply System								
Month	Total Flow (m3/month)	Max Raw Flow (m3/day)	Avg Flow / Rated Capacity					
October	1,152	37.18	72.87	13%				
November	987	32.89	53.37	12%				
December	1,097	35.37	63.54	13%				
Average Flow	1,242	40.82	67.70	16%				
Maximum Flow	1,751 56.94 109.50 34%							
Rated Capacity	277 (m3/day)							

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.

Melrose Water System achieved a 100% inspection rating with zero non-compliances.

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

AWQI # 161493

On March 14th the valve to distribution system was closed to facilitate a repair to the distribution disinfection injector, and when the repair was completed, the pressure was down to 50 kPa (7 psi). Residuals and microbiological samples were collected with results indicating no adverse effect to the system. No further action was required.

AWQI # 161701

A loss of pressure occurred on April 6th during a power loss that occurred while the generator was offline while waiting for the generator service technician to pick up a part to repair the generator. The system was flushed, and microbiological sample collected, with disinfection residuals, with results indicating no adverse effect to the system. Total time without power was 58 minutes. No further action was required.

AWQI # 163698

A loss of pressure occurred on October 2nd when the generator failed to start during a power outage. When power was restored the system was flushed, and microbiological samples were collected with residuals; results indicated no adverse effect to the system. Total time without power was 22 minutes. No further action was required.



Analytical Data



Mun of Middlesex Centre (Melrose)

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25-July-2023

Date Rec.: 19 July 2023 LR Report: CA30410-JUL23

Copy: #1

CERTIFICATE OF ANALYSIS **Final Report**

Sample ID	Sample Date & Time	Temperature Upon Receipt at London Lab °C	Temperature Upon Receipt at Lakefield Lab °C	Field pH	Alkalinity mg/L as CaCO3	Lead ug/L
1: Analysis Start Date					21-Jul-23	24-Jul-23
2: Analysis Start Time					15:17	08:26
3: Analysis Completed Date					24-Jul-23	24-Jul-23
4: Analysis Completed Time					13:58	10:03
5: MAC						10
6: AO/OG				6.5-8.5	30-500	
7: MDL					2	0.01
8: DW Sample Station-Wynfield 1st	18-Jul-23 11:52	7.8	7.0	7.83		0.19
9: DW Sample Station-Wynfield 2nd	18-Jul-23 11:52	8.1	7.0	7.83	227	

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

Method Descriptions

Parameter	Description	SGS Method Code
Alkalinity	Alkalinity by Titration	ME-CA-[ENV]EWL-LAK-AN-006
Lead	Lead by ICP-MS Drinking Water	ME-CA-[ENV]SPE-LAK-AN-006

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Mun of Middlesex Centre (Melrose)

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06-March-2023

Date Rec.: 24 February 2023 LR Report: CA30400-FEB23

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt at London Lab °C	Temperature Upon Receipt at Lakefield Lab °C	Field pH	Alkalinity mg/L as CaCO3	Lead ug/L
1: Analysis Start Date					27-Feb-23	06-Mar-23
2: Analysis Start Time					10:51	09:27
3: Analysis Completed Date					28-Feb-23	06-Mar-23
4: Analysis Completed Time					10:11	12:45
5: MAC						10
6: AO/OG				6.5-8.5	30-500	
7: MDL					2	0.01
8: DW Sample Station Sample Station - Wynfield 1st	22-Feb-23 13:42	6.8	4.0	8.2		0.19
9: DW Sample Station Sample Station - Wynfield 2nd	22-Feb-23 13:42	6.8	4.0	8.2	227	

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

Method Descriptions

Parameter	Description	SGS Method Code
Alkalinity	Alkalinity by Titration	ME-CA-[ENV]EWL-LAK-AN-006
Lead	Lead by ICP-MS Drinking Water	ME-CA-[ENV]SPE-LAK-AN-006

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Hawley Anderson, Hon.B.Sc Project Specialist, Environment, Health & Safety

0003252882



Mun of Middlesex Centre (Melrose)

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12-January-2023

Date Rec.: 04 January 2023 LR Report: CA30101-JAN23

Copy: #1

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: 1A0FC RW Well #2	8: 1A0FD RW Well #3
Sample Date & Time							03-Jan-23 12:32	03-Jan-23 12:39
Temperature Upon Receipt [at London Lab °C]							7.7	7.7
Temperature Upon Receipt [at Lakefield Lab °C]							6.0	6.0
Bicarbonate [mg/L as CaCO3]	06-Jan-23	15:28	11-Jan-23	09:54		2	218	242
Carbonate [mg/L as CaCO3]	06-Jan-23	15:28	11-Jan-23	09:54		2	2 <mdl< td=""><td>2 <mdl< td=""></mdl<></td></mdl<>	2 <mdl< td=""></mdl<>
Total Suspended Solids [mg/L]	09-Jan-23	08:13	10-Jan-23	13:11		2	2	3
Sulphide [ug/L]	10-Jan-23	07:41	10-Jan-23	14:47	0.5	6	6 <mdl< td=""><td>6 <mdl< td=""></mdl<></td></mdl<>	6 <mdl< td=""></mdl<>
Iron [ug/L]	11-Jan-23	20:40	12-Jan-23	15:20	300	7	705	1010
Manganese [ug/L]	11-Jan-23	20:40	12-Jan-23	15:20	50	0.01	11.3	14.8

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

arrie Greenlaw Project Specialist, Environment, Health & Safety

0003191668

DhLine LIMS



Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

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

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

13-January-2023

Date Rec.: 04 January 2023 LR Report: CA30116-JAN23

Copy: #1

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							03-Jan-23 13:35	03-Jan-23 12:45
Temperature Upon Receipt [at London Lab °C]							8.3	8.3
Temperature Upon Receipt [at Lakefield Lab °C]							6.0	6.0
Nitrite (as N) [mg/L]	06-Jan-23	15:28	11-Jan-23	15:05	1	0.003		0.003 <mdl< td=""></mdl<>
Nitrate (as N) [mg/L]	06-Jan-23	15:28	11-Jan-23	15:05	10	0.006		0.007
Nitrate + Nitrite (as N) [mg/L]	06-Jan-23	15:28	11-Jan-23	15:05		0.006		0.007
Trihalomethanes (total) [ug/L]	06-Jan-23	21:53	09-Jan-23	14:20	100 (RAA)	0.37	14	
Bromodichloromethane [ug/L]	06-Jan-23	21:53	09-Jan-23	14:20		0.26	4.5	
Bromoform [ug/L]	06-Jan-23	21:53	09-Jan-23	14:20		0.34	0.34 <mdl< td=""><td></td></mdl<>	
Chloroform [ug/L]	06-Jan-23	21:53	09-Jan-23	14:20		0.29	7.1	
Dibromochloromethane [ug/L]	06-Jan-23	21:53	09-Jan-23	14:20		0.37	2.8	
Total Haloacetic Acids (HAA5) [ug/L]	11-Jan-23	19:15	13-Jan-23	08:16	80 (RAA)	5.3	5.3 <mdl< td=""><td></td></mdl<>	
Chloroacetic Acid [ug/L]	11-Jan-23	19:15	13-Jan-23	08:16		4.7	4.7 <mdl< td=""><td></td></mdl<>	
Bromoacetic Acid [ug/L]	11-Jan-23	19:15	13-Jan-23	08:16		2.9	2.9 <mdl< td=""><td></td></mdl<>	
Dichloroacetic Acid [ug/L]	11-Jan-23	19:15	13-Jan-23	08:16		2.6	2.9	
Dibromoacetic Acid [ug/L]	11-Jan-23	19:15	13-Jan-23	08:16		2.0	2.0 <mdl< td=""><td></td></mdl<>	
Trichloroacetic Acid [ug/L]	11-Jan-23	19:15	13-Jan-23	08:16		5.3	5.3 <mdl< td=""><td></td></mdl<>	

MAC - Maximum Acceptable Concentration

MDL - SGS Method Detection Limit

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

Method Descriptions

0003192718



Works #: 260002915

LR Report : CA30116-JAN23

0003192718

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Carrie Greenlaw Project Specialist, Environment, Health & Safety



Mun of Middlesex Centre (Melrose)

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Works #: 260002915

10-January-2023

Date Rec.: 04 January 2023 LR Report: CA20213-JAN23

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CERTIFICATE OF ANALYSIS **Final Report**

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	Total Coliform cfu/100mL	E.Coli cfu/100mL
1: Analysis Start Date			05-Jan-23	05-Jan-23
2: Analysis Start Time			09:30	09:30
3: Analysis Completed Date			09-Jan-23	09-Jan-23
4: Analysis Completed Time			09:09	09:09
5: MAC			0	0
6: 1A0FC RW Well #2	03-Jan-23 12:32	8.3	0	0
7: 1A0FD RW Well #3	03-Jan-23 12:39	8.3	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

Cristal Schuster

Project Specialist-London, Environment, Health & Safety

Page 1 of 1 Results relate only to the sample tested. Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.

000318694



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Works #: 260002915

16-January-2023

Date Rec.: 11 January 2023 LR Report: CA20515-JAN23

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CERTIFICATE OF ANALYSIS **Final Report**

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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-Jan-23	11-Jan-23	11-Jan-23	11-Jan-23
2: Analysis Start Time				16:05	16:05	16:05	15:50
3: Analysis Completed Date				13-Jan-23	13-Jan-23	13-Jan-23	13-Jan-23
4: Analysis Completed Time				16:59	16:59	16:59	16:59
5: MAC				0	0		
6: 1A106 DW Sample Station	10-Jan-23 11:49	5.9	1.16	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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30-January-2023

Date Rec.: 25 January 2023 LR Report: CA21125-JAN23

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CERTIFICATE OF ANALYSIS Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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-Jan-23	25-Jan-23	25-Jan-23	25-Jan-23
2: Analysis Start Time				17:25	17:25	17:25	16:50
3: Analysis Completed Date				27-Jan-23	27-Jan-23	27-Jan-23	27-Jan-23
4: Analysis Completed Time				15:26	15:26	15:26	15:26
5: MAC				0	0		
6: 1A106 DW Sample Station	24-Jan-23 11:48	12.3	1.12	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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13-February-2023

Date Rec.: 08 February 2023 LR Report: CA20361-FEB23

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				08-Feb-23	08-Feb-23	08-Feb-23	08-Feb-23
2: Analysis Start Time				15:30	15:30	15:30	15:00
3: Analysis Completed Date				10-Feb-23	10-Feb-23	10-Feb-23	10-Feb-23
4: Analysis Completed Time				16:58	16:58	16:58	16:58
5: MAC				0	0		
6: 1A0FC RW Well #2	07-Feb-23 13:02	5.6		0	0		
7: 1A0FD RW Well #3	07-Feb-23 12:51	5.6		0	0		
8: 1A106 DW Sample Station	07-Feb-23 12:31	5.6	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

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Mun of Middlesex Centre (Melrose)

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27-February-2023

Date Rec.: 22 February 2023 LR Report: CA20864-FEB23

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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-Feb-23	22-Feb-23	22-Feb-23	22-Feb-23
2: Analysis Start Time				13:05	13:05	13:05	12:35
3: Analysis Completed Date				24-Feb-23	24-Feb-23	24-Feb-23	24-Feb-23
4: Analysis Completed Time				14:41	14:41	14:41	14:41
5: MAC				0	0		
6: 1A106 DW Sample Station	21-Feb-23 13:15	4.6	1.17	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

Ungela

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Works #: 260002915

13-March-2023

 Date Rec. :
 08 March 2023

 LR Report:
 CA20391-MAR23

Сору:

#1

CERTIFICATE OF ANALYSIS Final Report

Sample ID	Sample Date & Time	Sampled By	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-Mar-23	08-Mar-23	08-Mar-23	08-Mar-23
2: Analysis Start Time					16:30	16:30	16:30	15:55
3: Analysis Completed Date					10-Mar-23	10-Mar-23	10-Mar-23	10-Mar-23
4: Analysis Completed Time					16:10	16:10	16:10	16:10
5: MAC					0	0		
6: 1A0FC RW Well #2	07-Mar-23 10:05	Jesse Greenfield	10.1		0	0		
7: 1A0FD RW Well #3	07-Mar-23 10:10	Jesse Greenfield	10.1		0	0		
8: 1A106 DW Sample Station	07-Mar-23 11:20	Jesse Greenfield	10.1	1.14	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

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Page 1 of 2 Results relate only to the sample tested. Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.)

Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

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Works #: 260002915

LR Report : CA20391-MAR23

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

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

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Page 2 of 2

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Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.



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24-March-2023

 Date Rec. :
 22 March 2023

 LR Report:
 CA20943-MAR23

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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-Mar-23	22-Mar-23	22-Mar-23	22-Mar-23
2: Analysis Start Time				11:55	11:55	11:55	11:20
3: Analysis Completed Date				24-Mar-23	24-Mar-23	24-Mar-23	24-Mar-23
4: Analysis Completed Time				13:02	13:02	13:02	13:02
5: MAC				0	0		
6: 1A106 DW Sample Station	21-Mar-23 12:11	6.8	1.14	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

ristal Schuster

Project Specialist-London, Environment, Health & Safety

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Page 1 of 1



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18-April-2023

Date Rec.: 05 April 2023 LR Report: CA30165-APR23

Copy: #1

CERTIFICATE OF ANALYSIS **Final Report**

Sample ID	Sample Date & Time	Temperature Upon Receipt at London Lab ℃	Temperature Upon Receipt at Lakefield Lab °C	Nitrite (as N) mg/L	Nitrate (as N) mg/L	Nitrate + Nitrite (as N) mg/L
1: Analysis Start Date				11-Apr-23	11-Apr-23	11-Apr-23
2: Analysis Start Time				07:06	07:06	07:06
3: Analysis Completed Date				18-Apr-23	18-Apr-23	18-Apr-23
4: Analysis Completed Time				11:48	11:48	11:48
5: MAC				1	10	
6: MDL				0.003	0.006	0.006
7: 1A102 TW Water Treatment Facility	04-Apr-23 12:27	7.4	7.0	0.003 <mdl< td=""><td>0.009</td><td>0.009</td></mdl<>	0.009	0.009

MAC - Maximum Acceptable Concentration MDL - SGS Method Detection Limit

Method Descriptions

Parameter	Description	SGS Method Code
Nitrate (as N)	Nitrate by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
Nitrate + Nitrite (as N)	Total Nitrate/Nitrite by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001
Nitrite (as N)	Nitrite by Ion Chromatography	ME-CA-[ENV]IC-LAK-AN-001

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10-April-2023

Date Rec. : 05 April 2023 LR Report: CA20276-APR23

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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-Apr-23	06-Apr-23	06-Apr-23	06-Apr-23
2: Analysis Start Time				10:00	10:00	10:00	09:40
3: Analysis Completed Date				10-Apr-23	10-Apr-23	10-Apr-23	10-Apr-23
4: Analysis Completed Time				11:59	11:59	11:59	11:59
5: MAC				0	0		
6: 1A0FC RW Well #2	04-Apr-23 12:32	7.4		0	0		
7: 1A0FD RW Well #3	04-Apr-23 12:33	7.4		0	0		
8: 1A106 DW Sample Station	04-Apr-23 13:11	7.4	1.17	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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24-April-2023

Date Rec.: 12 April 2023 LR Report: CA30306-APR23

Copy: #1

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: MDL	7: 1A106 DW Sample Station
Sample Date & Time			2410				11-Apr-23 10:55
Temperature Upon Receipt [at London Lab °C]							6.6
Temperature Upon Receipt [°C]							13.0
Free Chlorine [mg/L]							1.18
Trihalomethanes (total) [ug/L]	21-Apr-23	15:16	24-Apr-23	13:26	100 (RAA)	0.37	16
Bromodichloromethane [ug/L]	21-Apr-23	15:16	24-Apr-23	13:26		0.26	5.1
Bromoform [ug/L]	21-Apr-23	15:16	24-Apr-23	13:26		0.34	0.38
Chloroform [ug/L]	21-Apr-23	15:16	24-Apr-23	13:26		0.29	7.5
Dibromochloromethane [ug/L]	21-Apr-23	15:16	24-Apr-23	13:26		0.37	3.2
Total Haloacetic Acids (HAA5) [ug/L]	21-Apr-23	08:38	24-Apr-23	11:17	80 (RAA)	5.3	5.3 <mdl< td=""></mdl<>
Bromoacetic Acid [ug/L]	21-Apr-23	08:38	24-Apr-23	11:17		2.9	2.9 <mdl< td=""></mdl<>
Chloroacetic Acid [ug/L]	21-Apr-23	08:38	24-Apr-23	11:17		4.7	4.7 <mdl< td=""></mdl<>
Dichloroacetic Acid [ug/L]	21-Apr-23	08:38	24-Apr-23	11:17		2.6	3.5
Dibromoacetic Acid [ug/L]	21-Apr-23	08:38	24-Apr-23	11:17		2.0	2.0 <mdl< td=""></mdl<>
Trichloroacetic Acid [ug/L]	21-Apr-23	08:38	24-Apr-23	11:17		5.3	5.3 <mdl< td=""></mdl<>

MAC - Maximum Acceptable Concentration

MDL - SGS Method Detection Limit

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
ug/L	VOC wtr - THM	ME-CA-[ENV]GC-LAK-AN-004

Method Descriptions

0003309645



Works #: 260002915

LR Report : CA30306-APR23

0003309645

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Carrie Greenlaw Project Specialist, Environment, Health & Safety



Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

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

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Works #: 260002915

17-April-2023

Date Rec.: 12 April 2023 LR Report: CA20522-APR23

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CERTIFICATE OF ANALYSIS **Final Report**

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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				12-Apr-23	12-Apr-23	12-Apr-23	12-Apr-23
2: Analysis Start Time				15:10	15:10	15:10	14:45
3: Analysis Completed Date				14-Apr-23	14-Apr-23	14-Apr-23	14-Apr-23
4: Analysis Completed Time				17:11	17:11	17:11	17:11
5: MAC				0	0		
6: 1A106 DW Sample Station	11-Apr-23 10:55	6.6	1.18	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, Environment, Health & Safety

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Works #: 260002915

21-April-2023

Date Rec.: 19 April 2023 LR Report: CA20913-APR23

Copy: #1

CERTIFICATE OF ANALYSIS **Final Report**

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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-Apr-23	19-Apr-23	19-Apr-23	19-Apr-23
2: Analysis Start Time				15:00	15:00	15:00	14:25
3: Analysis Completed Date				21-Apr-23	21-Apr-23	21-Apr-23	21-Apr-23
4: Analysis Completed Time				12:15	12:15	12:15	12:15
5: MAC				0	0		
6: 1A106 DW Sample Station	18-Apr-23 10:43	4.3	0.93	0	0	0	110

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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Phone: 519-666-0190 ext 255 Fax:519-666-0271 05-May-2023

 Date Rec. :
 03 May 2023

 LR Report:
 CA20282-MAY23

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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				03-May-23	03-May-23	03-May-23	03-May-23
2: Analysis Start Time				13:05	13:05	13:05	12:25
3: Analysis Completed Date				05-May-23	05-May-23	05-May-23	05-May-23
4: Analysis Completed Time				14:16	14:16	14:16	14:16
5: MAC				0	0		
6: 1A0FC RW Well #2	02-May-23 12:06	7.4		0	0		
7: 1A0FD RW Well #3	02-May-23 12:12	7.4		0	0		
8: 1A106 DW Sample Station	02-May-23 12:29	7.4	1.26	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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Works #: 260002915

23-May-2023

Date Rec.: 17 May 2023 LR Report: CA21051-MAY23

Copy: #1

CERTIFICATE OF ANALYSIS **Final Report**

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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-May-23	17-May-23	17-May-23	17-May-23
2: Analysis Start Time				15:45	15:45	15:45	15:05
3: Analysis Completed Date				19-May-23	19-May-23	19-May-23	19-May-23
4: Analysis Completed Time				17:08	17:08	17:08	17:08
5: MAC				0	0		
6: 1A106 DW Sample Station	16-May-23 11:30	2.6	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

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Works #: 260002915

02-June-2023

Date Rec.: 31 May 2023 LR Report: CA21714-MAY23

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CERTIFICATE OF ANALYSIS **Final Report**

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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				31-May-23	31-May-23	31-May-23	31-May-23
2: Analysis Start Time				14:15	14:15	14:15	13:35
3: Analysis Completed Date				02-Jun-23	02-Jun-23	02-Jun-23	02-Jun-23
4: Analysis Completed Time				13:44	13:44	13:44	13:44
5: MAC				0	0		
6: 1A106 DW Sample Station	30-May-23 10:30	10.3	1.32	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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Works #: 260002915

09-June-2023

Date Rec.: 07 June 2023 LR Report: CA20416-JUN23

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CERTIFICATE OF ANALYSIS **Final Report**

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	Total Coliform cfu/100mL	E.Coli cfu/100mL
1: Analysis Start Date			07-Jun-23	07-Jun-23
2: Analysis Start Time			14:50	14:50
3: Analysis Completed Date			09-Jun-23	09-Jun-23
4: Analysis Completed Time			13:35	13:35
5: MAC			0	0
6: 1A0FC RW Well #2	06-Jun-23 11:47	6.5	0	0
7: 1A0FD RW Well #3	06-Jun-23 11:50	6.5	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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Works #: 260002915

16-June-2023

Date Rec.: 14 June 2023 LR Report: CA20794-JUN23

Copy: #1

CERTIFICATE OF ANALYSIS **Final Report**

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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-Jun-23	14-Jun-23	14-Jun-23	14-Jun-23
2: Analysis Start Time				14:45	14:45	14:45	14:20
3: Analysis Completed Date				16-Jun-23	16-Jun-23	16-Jun-23	16-Jun-23
4: Analysis Completed Time				13:54	13:54	13:54	13:54
5: MAC				0	0		
6: 1A106 DW Sample Station	13-Jun-23 13:26	5.8	1.17	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

Unarta

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

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23-June-2023

Date Rec. : 21 June 2023 LR Report: CA21243-JUN23

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CERTIFICATE OF ANALYSIS Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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-Jun-23	21-Jun-23	21-Jun-23	21-Jun-23
2: Analysis Start Time				16:30	16:30	16:30	16:00
3: Analysis Completed Date				23-Jun-23	23-Jun-23	23-Jun-23	23-Jun-23
4: Analysis Completed Time				15:12	15:12	15:12	15:12
5: MAC				0	0		
6: 1A106 DW Sample Station	20-Jun-23 10:14	8.3	1.18	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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30-June-2023

Date Rec. : 28 June 2023 LR Report: CA21596-JUN23

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CERTIFICATE OF ANALYSIS Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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-Jun-23	28-Jun-23	28-Jun-23	28-Jun-23
2: Analysis Start Time				16:00	16:00	16:00	15:20
3: Analysis Completed Date				30-Jun-23	30-Jun-23	30-Jun-23	30-Jun-23
4: Analysis Completed Time				13:14	13:14	13:14	13:14
5: MAC				0	0		
6: 1A106 DW Sample Station	28-Jun-23 08:37	8.4	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

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14-July-2023

Date Rec. : 05 July 2023 LR Report: CA30082-JUL23

Copy: #1

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: MDL	7: 1A106 DW Sample Station	8: 1A102 TW Water Treatment Facility
Sample Date & Time							04-Jul-23 14:05	04-Jul-23 13:19
Temperature Upon Receipt [at London Lab °C]							4.1	4.1
Temperature Upon Receipt [at Lakefield Lab °C]							9.0	9.0
Field Free Chlorine [mg/L]							1.09	
Nitrite (as N) [mg/L]	10-Jul-23	11:19	13-Jul-23	15:45	1.0	0.003		0.003 <mdl< td=""></mdl<>
Nitrate (as N) [mg/L]	10-Jul-23	11:19	13-Jul-23	15:45	10	0.006		0.006
Nitrate + Nitrite (as N) [mg/L]	10-Jul-23	11:19	13-Jul-23	15:45		0.006		0.006
Trihalomethanes (total) [ug/L]	12-Jul-23	16:28	14-Jul-23	10:50	100 (RAA)	0.37	17	
Bromodichloromethane [ug/L]	12-Jul-23	16:28	14-Jul-23	10:50		0.26	5.4	
Bromoform [ug/L]	12-Jul-23	16:28	14-Jul-23	10:50		0.34	0.35	
Chloroform [ug/L]	12-Jul-23	16:28	14-Jul-23	10:50		0.29	7.5	
Dibromochloromethane [ug/L]	12-Jul-23	16:28	14-Jul-23	10:50		0.37	3.3	
Total Haloacetic Acids (HAA5) [ug/L]	13-Jul-23	06:50	14-Jul-23	09:21	80 (RAA)	5.3	5.3 <mdl< td=""><td></td></mdl<>	
Chloroacetic Acid [ug/L]	13-Jul-23	06:50	14-Jul-23	09:21		4.7	4.7 <mdl< td=""><td></td></mdl<>	
Bromoacetic Acid [ug/L]	13-Jul-23	06:50	14-Jul-23	09:21		2.9	2.9 <mdl< td=""><td></td></mdl<>	
Dichloroacetic Acid [ug/L]	13-Jul-23	06:50	14-Jul-23	09:21		2.6	2.8	
Dibromoacetic Acid [ug/L]	13-Jul-23	06:50	14-Jul-23	09:21		2.0	2.0 <mdl< td=""><td></td></mdl<>	
Trichloroacetic Acid [ug/L]	13-Jul-23	06:50	14-Jul-23	09:21		5.3	5.3 <mdl< td=""><td></td></mdl<>	

MAC - Maximum Acceptable Concentration

MDL - SGS Method Detection Limit

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

Method Descriptions

0003399637



Works #: 260002915

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

LR Report : CA30082-JUL23

0003399637

Units	Description	SGS Method Code
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

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Carrie Greenlaw Project Specialist, Environment, Health & Safety



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18-July-2023

Date Rec. : 05 July 2023 LR Report: CA20213-JUL23

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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			06-Jul-23	06-Jul-23
2: Analysis Start Time			09:40	09:40
3: Analysis Completed Date			10-Jul-23	10-Jul-23
4: Analysis Completed Time			08:57	08:57
5: MAC			0	0
6: 1A0FC RW Well #2	04-Jul-23 13:10	4.1	0	0
7: 1A0FD RW Well #3	04-Jul-23 13:17	4.1	9	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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19-July-2023

Date Rec.: 12 July 2023 LR Report: CA30289-JUL23

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CERTIFICATE OF ANALYSIS **Final Report**

Sample ID	Sample Date & Time	Temperature Upon Receipt at London Lab °C	Temperature Upon Receipt at Lakefield Lab °C	Nitrite (as N) mg/L	Nitrate (as N) mg/L	Nitrate + Nitrite (as N) mg/L
1: Analysis Start Date				18-Jul-23	18-Jul-23	18-Jul-23
2: Analysis Start Time				12:20	12:20	12:20
3: Analysis Completed Date				18-Jul-23	18-Jul-23	18-Jul-23
4: Analysis Completed Time				18:11	18:11	18:11
5: MAC				1	10	
6: MDL				0.003	0.006	0.006
7: 1A102 TW Water Treatment Facility	11-Jul-23 12:15	8.8	11.0	0.004	0.006	0.010

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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Works #: 260002915

17-July-2023

Date Rec.: 12 July 2023 LR Report: CA20678-JUL23

Copy: #1

CERTIFICATE OF ANALYSIS **Final Report**

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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				12-Jul-23	12-Jul-23	12-Jul-23	12-Jul-23
2: Analysis Start Time				16:40	16:40	16:40	15:45
3: Analysis Completed Date				14-Jul-23	14-Jul-23	14-Jul-23	14-Jul-23
4: Analysis Completed Time				15:45	15:45	15:45	15:45
5: MAC				0	0		
6: 1A106 DW Sample Station	11-Jul-23 12:06	9.0	1.13	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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28-July-2023

Date Rec. : 26 July 2023 LR Report: CA21465-JUL23

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CERTIFICATE OF ANALYSIS Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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				26-Jul-23	26-Jul-23	26-Jul-23	26-Jul-23
2: Analysis Start Time				15:50	15:50	15:50	15:25
3: Analysis Completed Date				28-Jul-23	28-Jul-23	28-Jul-23	28-Jul-23
4: Analysis Completed Time				15:23	15:23	15:23	15:23
5: MAC				0	0		
6: 1A106 DW Sample Station	25-Jul-23 11:44	14.1	1.05	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

ristal Schuster

Project Specialist-London, Environment, Health & Safety

Results relate only to the sample tested. Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.

0003416740

Page 1 of 1



Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

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

Phone: 519-666-0190 ext 255 Fax:519-666-0271 08-August-2023

Date Rec.: 02 August 2023 LR Report: CA20223-AUG23

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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-Aug-23	02-Aug-23	02-Aug-23	02-Aug-23
2: Analysis Start Time				16:45	16:45	16:45	16:10
3: Analysis Completed Date				08-Aug-23	08-Aug-23	08-Aug-23	08-Aug-23
4: Analysis Completed Time				09:19	09:19	09:19	09:19
5: MAC				0	0		
6: 1A0FC RW Well #2	01-Aug-23 11:29	8.2		0	0		
7: 1A0FD RW Well #3	01-Aug-23 11:27	8.2		0	0		
8: 1A106 DW Sample Station	01-Aug-23 11:19	8.2	1.10	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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0003425474



Mun of Middlesex Centre (Melrose)

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14-August-2023

Date Rec.: 09 August 2023 LR Report: CA20479-AUG23

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				09-Aug-23	09-Aug-23	09-Aug-23	09-Aug-23
2: Analysis Start Time				15:10	15:10	15:10	14:35
3: Analysis Completed Date				11-Aug-23	11-Aug-23	11-Aug-23	11-Aug-23
4: Analysis Completed Time				15:03	15:03	15:03	15:03
5: MAC				0	0		
6: 1A106 DW Sample Station	08-Aug-23 16:11	8.1	1.56	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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0003430827



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Works #: 260002915

25-August-2023

Date Rec.: 23 August 2023 LR Report: CA21338-AUG23

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CERTIFICATE OF ANALYSIS **Final Report**

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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				23-Aug-23	23-Aug-23	23-Aug-23	23-Aug-23
2: Analysis Start Time				11:05	11:05	11:05	10:20
3: Analysis Completed Date				25-Aug-23	25-Aug-23	25-Aug-23	25-Aug-23
4: Analysis Completed Time				11:39	11:39	11:39	11:39
5: MAC				0	0		
6: 1A106 DW Sample Station	22-Aug-23 10:41	13.2	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

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0003446426



Mun of Middlesex Centre (Melrose)

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Phone: 519-666-0190 ext 255 Fax:519-666-0271 Works #: 260002915

11-September-2023

Date Rec.: 06 September 2023 LR Report: CA20189-SEP23

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CERTIFICATE OF ANALYSIS Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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-Sep-23	06-Sep-23	06-Sep-23	06-Sep-23
2: Analysis Start Time				14:35	14:35	14:35	14:00
3: Analysis Completed Date				08-Sep-23	08-Sep-23	08-Sep-23	08-Sep-23
4: Analysis Completed Time				13:26	13:26	13:26	13:26
5: MAC				0	0		
6: 1A0FC RW Well #2	05-Sep-23 09:10	6.3		0	0		
7: 1A0FD RW Well #3	05-Sep-23 09:06	6.3		0	0		
8: 1A106 DW Sample Station	05-Sep-23 08:59	6.3	1.18	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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0003461659



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25-September-2023

Date Rec.: 20 September 2023 LR Report: CA21085-SEP23

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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-Sep-23	20-Sep-23	20-Sep-23	20-Sep-23
2: Analysis Start Time				15:25	15:25	15:25	14:55
3: Analysis Completed Date				22-Sep-23	22-Sep-23	22-Sep-23	22-Sep-23
4: Analysis Completed Time				16:14	16:14	16:14	16:14
5: MAC				0	0		
6: 1A106 DW Sample Station	19-Sep-23 08:38	6.8	1.10	0	0	0	280

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

Unarta

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06-October-2023

 Date Rec. :
 04 October 2023

 LR Report:
 CA20201-OCT23

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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				04-Oct-23	04-Oct-23	04-Oct-23	04-Oct-23
2: Analysis Start Time				11:15	11:15	11:15	10:55
3: Analysis Completed Date				06-Oct-23	06-Oct-23	06-Oct-23	06-Oct-23
4: Analysis Completed Time				12:57	12:57	12:57	12:57
5: MAC				0	0		
6: 1A0FC RW Well #2	03-Oct-23 11:33	7.4		0	0		
7: 1A0FD RW Well #3	03-Oct-23 11:18	7.4		0	0		
8: 1A106 DW Sample Station	03-Oct-23 10:36	7.4	1.11	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. P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO Phone: 705-652-2000 FAX: 705-652-6365

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13-October-2023

Date Rec.: 04 October 2023 LR Report: CA30083-OCT23

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CERTIFICATE OF ANALYSIS **Final Report**

Analysis	1: Analysis Start	2: Analysis Start	3: Analysis	4: Analysis	5: MAC	6: MDL	7: 1A106 DW Sample	8: 1A102 TW Water
	Date	Time	Completed Date	Completed Time			Station	Treatment Facility
Sample Date & Time							03-Oct-23 10:36	03-Oct-23 11:25
Temperature Upon Receipt [at London Lab °C]							8.1	8.1
Temperature Upon Receipt [at Lakefield Lab °C]							9.0	9.0
Field Free Chlorine [mg/L]							1.11	
Nitrite (as N) [mg/L]	06-Oct-23	14:28	10-Oct-23	14:36	1.0	0.003		0.003 <mdl< td=""></mdl<>
Nitrate (as N) [mg/L]	06-Oct-23	14:28	10-Oct-23	14:36	10	0.006		0.006 <mdl< td=""></mdl<>
Nitrate + Nitrite (as N) [mg/L]	06-Oct-23	14:28	10-Oct-23	14:36		0.006		0.006 <mdl< td=""></mdl<>
Trihalomethanes (total) [ug/L]	06-Oct-23	12:29	10-Oct-23	10:15	100 (RAA)	0.37	16	
Bromodichloromethane [ug/L]	06-Oct-23	12:29	10-Oct-23	10:15		0.26	5.2	
Bromoform [ug/L]	06-Oct-23	12:29	10-Oct-23	10:15		0.34	0.34 <mdl< td=""><td></td></mdl<>	
Chloroform [ug/L]	06-Oct-23	12:29	10-Oct-23	10:15		0.29	7.6	
Dibromochloromethane [ug/L]	06-Oct-23	12:29	10-Oct-23	10:15		0.37	3.1	
Total Haloacetic Acids (HAA5) [ug/L]	12-Oct-23	07:18	13-Oct-23	11:24	80 (RAA)	5.3	5.3 <mdl< td=""><td></td></mdl<>	
Chloroacetic Acid [ug/L]	12-Oct-23	07:18	13-Oct-23	11:24		4.7	4.7 <mdl< td=""><td></td></mdl<>	
Bromoacetic Acid [ug/L]	12-Oct-23	07:18	13-Oct-23	11:24		2.9	2.9 <mdl< td=""><td></td></mdl<>	
Dichloroacetic Acid [ug/L]	12-Oct-23	07:18	13-Oct-23	11:24		2.6	2.6 <mdl< td=""><td></td></mdl<>	
Dibromoacetic Acid [ug/L]	12-Oct-23	07:18	13-Oct-23	11:24		2.0	2.0 <mdl< td=""><td></td></mdl<>	
Trichloroacetic Acid [ug/L]	12-Oct-23	07:18	13-Oct-23	11:24		5.3	5.3 <mdl< td=""><td></td></mdl<>	

MAC - Maximum Acceptable Concentration MDL - SGS Method Detection Limit

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

Method Descriptions

000349852



SGS Canada Inc. P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO Phone: 705-652-2000 FAX: 705-652-6365 Works #: 260002915

LR Report : CA30083-OCT23

0003498524

Jaw sen ne

Carrie Greenlaw Project Specialist, Environment, Health & Safety

Fage 2 of 2
 Fage 2 of 2
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Page 2 of 2



Mun of Middlesex Centre (Melrose)

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

Works #: 260002915

20-October-2023

Date Rec.: 18 October 2023 LR Report: CA20986-OCT23

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CERTIFICATE OF ANALYSIS **Final Report**

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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				18-Oct-23	18-Oct-23	18-Oct-23	18-Oct-23
2: Analysis Start Time				15:55	15:55	15:55	15:15
3: Analysis Completed Date				20-Oct-23	20-Oct-23	20-Oct-23	20-Oct-23
4: Analysis Completed Time				14:01	14:01	14:01	14:01
5: MAC				0	0		
6: 1A106 DW Sample Station	17-Oct-23 11:49	5.4	1.18	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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000350764



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Works #: 260002915

09-November-2023

Date Rec.: 01 November 2023 LR Report: CA20053-NOV23

Copy: #1

CERTIFICATE OF ANALYSIS **Final Report**

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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-Nov-23	01-Nov-23	01-Nov-23	01-Nov-23
2: Analysis Start Time				15:50	15:50	15:50	15:30
3: Analysis Completed Date				03-Nov-23	03-Nov-23	03-Nov-23	03-Nov-23
4: Analysis Completed Time				13:43	13:43	13:43	13:43
5: MAC				0	0		
6: 1A106 DW Sample Station	31-Oct-23 12:05	4.4	0.85	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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10-November-2023

Date Rec.: 08 November 2023 LR Report: CA20412-NOV23

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			08-Nov-23	08-Nov-23
2: Analysis Start Time			15:55	15:55
3: Analysis Completed Date			10-Nov-23	10-Nov-23
4: Analysis Completed Time			13:02	13:02
5: MAC			0	0
6: 1A0FC RW Well #2	07-Nov-23 12:48	4.9	0	0
7: 1A0FD RW Well #3	07-Nov-23 12:53	4.9	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

Cristal Schuster

Project Specialist-London, Environment, Health & Safety



Mun of Middlesex Centre (Melrose)

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Phone: 519-666-0190 ext 255 Fax:519-666-0271 Works #: 260002915

17-November-2023

Date Rec. : 15 November 2023 LR Report: CA20660-NOV23

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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-Nov-23	15-Nov-23	15-Nov-23	15-Nov-23
2: Analysis Start Time				13:30	13:30	13:30	13:05
3: Analysis Completed Date				17-Nov-23	17-Nov-23	17-Nov-23	17-Nov-23
4: Analysis Completed Time				13:25	13:25	13:25	13:25
5: MAC				0	0		
6: 1A106 DW Sample Station	14-Nov-23 10:32	4.9	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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Project Specialist-London, Environment, Health & Safety

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0003536307

Page 1 of 1



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Works #: 260002915

01-December-2023

Date Rec.: 29 November 2023 LR Report: CA21292-NOV23

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				29-Nov-23	29-Nov-23	29-Nov-23	29-Nov-23
2: Analysis Start Time				14:50	14:50	14:50	13:40
3: Analysis Completed Date				01-Dec-23	01-Dec-23	01-Dec-23	01-Dec-23
4: Analysis Completed Time				12:29	12:29	12:29	12:29
5: MAC				0	0		
6: 1A106 DW Sample Station	28-Nov-23 12:10	5.2	1.22	0	0	0	< 10

MAC - Maximum Acceptable Concentration

	1	
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

Method Descriptions

Cristal Schuster

Project Specialist-London, Environment, Health & Safety

0003551732



Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

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

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

Works #: 260002915

18-December-2023

Date Rec.: 13 December 2023 LR Report: CA20593-DEC23

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				13-Dec-23	13-Dec-23	13-Dec-23	13-Dec-23
2: Analysis Start Time				17:05	17:05	17:05	16:30
3: Analysis Completed Date				15-Dec-23	15-Dec-23	15-Dec-23	15-Dec-23
4: Analysis Completed Time				17:38	17:38	17:38	17:38
5: MAC				0	0		
6: 1A0FC RW Well #2	12-Dec-23 09:49	5.2		0	0		
7: 1A0FD RW Well #3	12-Dec-23 09:38	5.2		0	0		
8: 1A106 DW Sample Station	12-Dec-23 08:39	5.2	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

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

0003566514



Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

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

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

Works #: 260002915

29-December-2023

Date Rec.: 27 December 2023 LR Report: CA21045-DEC23

Copy: #1

CERTIFICATE OF ANALYSIS **Final Report**

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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				27-Dec-23	27-Dec-23	27-Dec-23	27-Dec-23
2: Analysis Start Time				14:00	14:00	14:00	13:30
3: Analysis Completed Date				29-Dec-23	29-Dec-23	29-Dec-23	29-Dec-23
4: Analysis Completed Time				12:33	12:33	12:33	12:33
5: MAC				0	0		
6: 1A106 DW Sample Station	26-Dec-23 12:24	8.9	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

ristal Schuster

Project Specialist-London, Environment, Health & Safety

000357698

Appendix B

Notice Of Adverse Test Results And Other Problems with Notice Of Issue Resolution



Drinking Water Systems Regulation (O. Reg. 170/03)

Instructions

These Notice forms apply to drinking water system owners and operators (Owners/Operators) and Ministry of the Environment, Conservation and Parks (MECP) licensed laboratories (Licensed Laboratories) regulated by Drinking Water Systems Regulation, Ontario Regulation 170/03 (O. Reg. 170/03).

Immediate Report of Adverse Results

Section 16-3(3) of Schedule 16 of O. Reg. 170/03 sets out the requirements for Owners/Operators and Licensed Laboratories to make an immediate report of adverse test results under O. Reg. 170/03 by speaking in person or by telephone to the MECP's Spills Action Centre (SAC), at 1-800-268-6060 or 416-325-3000, the local Medical Officer of Health/Health Unit (Health Unit) and the Owner/Operator (Immediate Report).

[Adverse test results for trihalomethanes (THMs) or haloacetic acids (HAAs) do not require an Immediate Report; see section below.]

Written Notice within 24 hours of the Immediate Report

Within 24 hours of an Immediate Report, Section 16-7(3) of Schedule 16 requires that Owners/Operators and Licensed Laboratories also provide written notice to the MECP and the Health Unit, by fax or e-mail. Licensed Laboratories must complete and submit Sections 1 and 3 of this Notice. Owners/Operators must complete and submit Section 2A of this Notice. Note: Section 3 is not required to be completed for operational parameter incidents which have no correlating adverse results.

Notice Within 7 Days of Issue Resolution

Within 7 days after the issue has been resolved, Section 16-9(1) of Schedule 16 requires that Owners/Operators must provide a written notice, Section 2B of this Notice, to SAC and the Health Unit, summarizing the actions taken and the results achieved. This written notice must also be sent to the interested authority for any designated facility (if applicable) within 30 days.

Owners and Operators must follow any additional corrective actions required by the Health Unit.

Total Trihalomethanes (THMs) and Haloacetic Acids (HAAs)

As of January 2016 for THMs and January 2020 for HAAs, Sections 16-6 and 16-7 of Schedule 16 require that Owners/Operators and Licensed Laboratories calculate the running annual average (RAA) for THMs and HAAs and report any adverse test result in writing to the MECP and the Health Unit within 7 calendar days of the end of the calendar quarter that produced the adverse test result. The written notice is to be submitted using Section 2C of this Notice. RAA calculation is outlined in Schedule 13-6 of O. Reg. 170/03.

Immediate oral notification is no longer required for these parameters.

Licensed Laboratories that upload all the THM and HAA test results into the ministry's data system and provide the results to Owners/Operators within 48 hours of the test result being authorized at the laboratory, may be exempt from the RAA reporting requirements noted above.

Note: Small municipal residential systems and non-municipal year-round residential systems that serve designated facilities also must notify the operator of each designated facility served by their system.

The 'Trihalomethane and Haloacetic Acid Sampling and Reporting Requirements Technical Bulletin' provides full details on the changes to the reporting requirements and provides examples for calculating quarterly and running annual averages. The Technical Bulletin is available on the ministry's web page via the following link:

https://www.ontario.ca/page/total-trihalomethane-thm-reporting-requirements-technical-bulletin

Fields marked with an asterisk (*) are mandatory.

SAC fax: 1-800-268-6061 or 416-325-3011 SAC e-mail: <u>AWQI.Reporting@ontario.ca</u> Provincial standards for water quality are set out in: <u>Safe Drinking Water Act, 2002</u> <u>Ontario Regulation 169/03 (Water Quality Standards)</u> <u>Ontario Regulation 170/03 (Drinking Water Systems)</u>

Failure to notify these parties in accordance with the Regulation constitutes an offence under the Safe Drinking Water Act. A copy of this form may be acquired through the MECP public website (<u>www.ontario.ca/drinkingwater</u>) or by contacting any MECP office.

Collection of information on this form is done in accordance with the <u>Safe Drinking Water Act, 2002</u> and its Regulations. Information gathered herein, including personal information, is governed by the *Freedom of Information and Protection of Privacy Act* (FIPPA) and may be disclosed to other government agencies (including municipal health unit employees) pursuant to 'Section 42' of the FIPPA for the consistent purpose of administering any Act or program that pertains to drinking water safety. For questions and concerns, please contact the MECP at 1-866-793-2588.

Are you a *

Licensed Laboratory 🗸 DWS

Which Section(s) of the Form do you need today?

Section 1 - Written Notice By Licensed Laboratory

Section 2A - Written Notice By Drinking Water System

Section 2B - Notice Of Issues Resolution

Section 2C - Written Notice By Drinking Water System Owner - Reporting RAA for THMs and HAAs

Section 3 - Adverse Analytical Results



Drinking Water Systems Regulation (O. Reg. 170/03)

Fields marked with an asterisk (*) are mandatory.

Section 2A – Written Notice Section 2C)	By Drinking Water System (DWS) Owner (For THM and HAA reporting see
Indicators of Adverse Water G	luality
AWQI Number *	Is this a resample? *
161493	Yes 🔽 No 🗌 Unknown If Yes, then provide initial AWQI number
Indicator of Adverse Results	
Microbiological *	nical * Radiological * Ø Operational * Licence/Order/Certificate Authority *
Observations of Improperly d	isinfected water directed to water users
Low Distribution Chlorine	mg/L
High Turbidity	NTU NTU
✓ Other Low distribution pro	essure - drop to 50 kpa (7psi).
Details of Adverse Result * Water plant distribution syste fitting on March 14. The syste was repaired. The distribution 17:40. Chlorine residuals we residual of 1.12 mg/l free chlored	m was isolated to allow for the replacement of a leaking chlorine injector ball valve em was isolated at 17:23 and the distribution pressure was 400.8 kpa (58psi). The leak n pressure was 50 kpa (7psi) upon completion of the repair and system start up at re checked at at the outgoing distribution sample point = 1.18 mg/l free chlorine and a orine at the end of system at the sample station.

DWS Information			
DWS Name * Melrose Drinking Water System			DWS Number * 260002915
Last Name * Joudrey	First Name Eric	*	
Position * Manager of Water & Wastewater Operations			
Email Address joudrey@middlesexcentre.ca	Telephone Number (includ 519-859-3473	ing area code) ext.	
System residuals were checked on distribution Residual was taken at sample station at end of Oral Notification to Health Unit - Person Contact	system existing the tre distribution - 1.12 mg/	atment building - 1.18 m I free chlorine.	ıg/l free chlorine.
Public Health Unit Name * Middlesex London Health Unit			4
Last Name * Walsh	First Name Chris	*	
Position * Public Health Inspector			
Telephone Number (including area code) *519-617-0518ext.	Fax Number (including an	ea code) Date (yyyy/mm 2023/03/15	1/dd) * Time (hh:mm) * 8:50 AM

Fields marked with an asterisk (*) are mandatory.

DWS	Person	Providing	Oral	Notification	*
Fric.	loudrey	1			

Email Address joudrey@middlesexcentre.ca

Section	24	continued
Section	4A	commueu

Corrective Actions to be Taken by Own	ner/Operator	
Corrective Actions	Required *	С

Corrective Actions		Required * Com		Compl	eted	C	omments
Resample and Test (including upstream, downstream and at AWQI location)	🗸 Yes	🗌 No	Yes	No	N/A		
Disinfection Restored / Increased	[] Yes	🗌 No	Yes	No No	□N/A		
Mains / Pipes Flushed	Ves 🗸	🗌 No	Yes	No No	□N/A	L	
Signs Posted (Do Not Drink Water)	[] Yes	🗌 No	Yes	No	□N/A		
Users Advised to Boil Water / Seek Alternate Source	Yes	🗌 No	Yes	No	□N/A		
Other (Include any other Health Unit directions and any additional attachments)							
Other:	Yes	🗌 No	Yes	🗌 No	□N/A		
Oral Notification to Spills Action Centre (SAC) - I	Person C	ontacted					
Last Name * Jabeen		First N Fatim	lame * a				
Position * Environmental Officer							
DWS Person Providing Oral Notifying *Date (yyyy/mm/dd) *Time (hh:mrEric Joudrey2023/03/158:31 AM						Time (hh:mm)* 8:31 AM	
Initial DWS Notification Prepared by * Eric Joudrey							
Signature Le Jenshup Date (yyyy/mm/c 2023/03/15					(yyyy/mm/dd) * /03/15		



Drinking Water Systems Regulation (O. Reg. 170/03)

Instructions

These Notice forms apply to drinking water system owners and operators (Owners/Operators) and Ministry of the Environment, Conservation and Parks (MECP) licensed laboratories (Licensed Laboratories) regulated by Drinking Water Systems Regulation, Ontario Regulation 170/03 (O. Reg. 170/03).

Immediate Report of Adverse Results

Section 16-3(3) of Schedule 16 of O. Reg. 170/03 sets out the requirements for Owners/Operators and Licensed Laboratories to make an immediate report of adverse test results under O. Reg. 170/03 by speaking in person or by telephone to the MECP's Spills Action Centre (SAC), at 1-800-268-6060 or 416-325-3000, the local Medical Officer of Health/Health Unit (Health Unit) and the Owner/Operator (Immediate Report).

[Adverse test results for trihalomethanes (THMs) or haloacetic acids (HAAs) do not require an Immediate Report; see section below.]

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Within 24 hours of an Immediate Report, Section 16-7(3) of Schedule 16 requires that Owners/Operators and Licensed Laboratories also provide written notice to the MECP and the Health Unit, by fax or e-mail. Licensed Laboratories must complete and submit Sections 1 and 3 of this Notice. Owners/Operators must complete and submit Section 2A of this Notice. **Note:** Section 3 is not required to be completed for operational parameter incidents which have no correlating adverse results.

Notice Within 7 Days of Issue Resolution

Within 7 days after the issue has been resolved, Section 16-9(1) of Schedule 16 requires that Owners/Operators must provide a written notice, Section 2B of this Notice, to SAC and the Health Unit, summarizing the actions taken and the results achieved. This written notice must also be sent to the interested authority for any designated facility (if applicable) within 30 days.

Owners and Operators must follow any additional corrective actions required by the Health Unit.

Total Trihalomethanes (THMs) and Haloacetic Acids (HAAs)

As of January 2016 for THMs and January 2020 for HAAs, Sections 16-6 and 16-7 of Schedule 16 require that Owners/Operators and Licensed Laboratories calculate the running annual average (RAA) for THMs and HAAs and report any adverse test result in writing to the MECP and the Health Unit within 7 calendar days of the end of the calendar quarter that produced the adverse test result. The written notice is to be submitted using Section 2C of this Notice. RAA calculation is outlined in Schedule 13-6 of O. Reg. 170/03.

Immediate oral notification is no longer required for these parameters.

Licensed Laboratories that upload all the THM and HAA test results into the ministry's data system and provide the results to Owners/Operators within 48 hours of the test result being authorized at the laboratory, may be exempt from the RAA reporting requirements noted above.

Note: Small municipal residential systems and non-municipal year-round residential systems that serve designated facilities also must notify the operator of each designated facility served by their system.

The 'Trihalomethane and Haloacetic Acid Sampling and Reporting Requirements Technical Bulletin' provides full details on the changes to the reporting requirements and provides examples for calculating quarterly and running annual averages. The Technical Bulletin is available on the ministry's web page via the following link:

https://www.ontario.ca/page/total-trihalomethane-thm-reporting-requirements-technical-bulletin

Fields marked with an asterisk (*) are mandatory.

SAC fax: 1-800-268-6061 or 416-325-3011 SAC e-mail: <u>AWQI.Reporting@ontario.ca</u> Provincial standards for water quality are set out in: <u>Safe Drinking Water Act, 2002</u> <u>Ontario Regulation 169/03 (Water Quality Standards)</u> <u>Ontario Regulation 170/03 (Drinking Water Systems)</u>

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Collection of information on this form is done in accordance with the <u>Safe Drinking Water Act, 2002</u> and its Regulations. Information gathered herein, including personal information, is governed by the *Freedom of Information and Protection of Privacy Act* (FIPPA) and may be disclosed to other government agencies (including municipal health unit employees) pursuant to 'Section 42' of the FIPPA for the consistent purpose of administering any Act or program that pertains to drinking water safety. For questions and concerns, please contact the MECP at 1-866-793-2588.

Are you a *

Licensed Laboratory 🖌 DWS

Which Section(s) of the Form do you need today?

Section 1 - Written Notice By Licensed Laboratory

Section 2A - Written Notice By Drinking Water System

Section 2B - Notice Of Issues Resolution

Section 2C - Written Notice By Drinking Water System Owner - Reporting RAA for THMs and HAAs

Section 3 - Adverse Analytical Results



Notices of Adverse Test Results and Issue Resolution (Schedule 16)

Drinking Water Systems Regulation (O. Reg. 170/03)

Fields marked with an asterisk (*) are mandatory.

Section 2B – Notice of Issue Resolution – Section 16-9 (O. Reg. 170/03)

DWS Information						
DWS Name * Melrose Drinking Water System						DWS Number * 260002915
DWS Contact Name		·				
Last Name * Joudrey			First N Eric	ame *		
Telephone Number (including area code) 519-859-3473	* ext.	Fax Numbe	r (includi	ng area code)	Email Address joudrey@middlese	excentre.ca
Initial AWQI Number ¹ * 161493	Date Resolved 2023/03/16	d (yyyy/mm/d	d) *	Date Resolu 2023/03/20	ution Notice Provided	d (yyyy/mm/dd) *
Are there previous resample AWQI nu	umbers? *	······································		I	· · · · · · · · · · · · · · · · · · ·	
Yes 🖌 No						
If known, please provide All Other Re	sample AWQI r	numbers ²				

Summary of action taken and results achieved (include test results showing water quality is no longer adverse) * System sampled at treatment system discharge point (upstream) and at hydrant at end of distribution.

Was an advisory issued by the Health Unit? *	Advisory Type	Date Issued (yyyy/mm/dd)
Yes		
✓ No ☐ Self Imposed Advisory		
If rescinded, please select date the advisory wa	is rescinded	
Date Rescinded (yyyy/mm/dd)		

Other (Include Health Unit directions and any additional attachments)

Attached File Name	Created	Modified	Size (MB)	Remove Selected File
		Number of attachments	0	
Notification/Report Provided By	, managements and a second		L	I

4444E (2022/10) © King's Printer for Ontario, 2022.

Page 3 of 4

Fields marked with an asterisk (*) are mandatory.

Section	2B	continued	l
---------	----	-----------	---

Last Name *	First Name *
Joudrey	Eric
Position *	

Manager of Water and Wastewater Operations

Cianaturo	alaran dalahan dalahan dalahan dalahan dalahan dalah d			Date (yyyy/mm/dd) *
Signature	E.	Jouding		2023/03/20
Additional Com	ments	Percep		

Do you have another adverse to report?	Yes	🗸 No	

¹ The original adverse test result.

² When resolving an AWQI state all resample AWQI numbers associated with the initial AWQI. For example, an adverse test result of total coliform requires the corrective action of resampling. If any of the resamples come back adverse, then you must continue resampling until the test results for two consecutive sets of samples taken 24 to 48 hours apart are clear or as directed by the Health Unit. Submit the AWQI form and include all related AWQI numbers (Initial AWQI number and any Resample AWQI number) on the same Section 2B. This eliminates the requirement to submit a Section 2B form for every adverse test result associated with one incident. If the first resample test result is clear then this section does not apply. For THMs and HAAs drinking water system owners/operators are not required to take resamples as part of the prescribed corrective actions; unless directed by the Health Unit.



Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

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

Phone: 519-666-0190 ext 255 Fax:519-666-0271 Works #: 260002915

20-March-2023

 Date Rec. :
 15 March 2023

 LR Report:
 CA20678-MAR23

Сору:

#1

CERTIFICATE OF ANALYSIS Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL
1: Analysis Start Date				15-Mar-23	15-Mar-23	15-Mar-23
2: Analysis Start Time				16:55	16:55	16:55
3: Analysis Completed Date				18-Mar-23	18-Mar-23	18-Mar-23
4: Analysis Completed Time				11:08	11:08	11:08
5: MAC				0	0	
6: 1A102 TW Water Treatment Facility	15-Mar-23 08:59	8.4	1.18	0	0	0
7: DW Hydrant 10, 59 Wynfield Ln	15-Mar-23 08:53	8.4	1.04	0	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
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cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

0003269863

Page 1 of 2 Results relate only to the sample tested. Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prehibited without prior written approval. Please refer to SGS General Conditions of

Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.



Works #: 260002915

LR Report : CA20678-MAR23

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

Page 2 of 2

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Disponible en français

SAC fax: 1-800-268-6061 or 416-325-3011 SAC e-mail: <u>AWQI.Reporting@ontario.ca</u> Provincial standards for water quality are set out in: <u>Safe Drinking Water Act, 2002</u> <u>Ontario Regulation 169/03 (Water Quality Standards)</u> <u>Ontario Regulation 170/03 (Drinking Water Systems)</u>

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Are you a *

Licensed Laboratory V DWS

Which Section(s) of the Form do you need today?

Section 1 - Written Notice By Licensed Laboratory

Section 2A - Written Notice By Drinking Water System

Section 2B - Notice Of Issues Resolution

Section 2C - Written Notice By Drinking Water System Owner - Reporting RAA for THMs and HAAs



Notices of Adverse Test Results and Issue Resolution (Schedule 16)

Drinking Water Systems Regulation (O. Reg. 170/03)

Fields marked with an asterisk (*) are mandatory.

Section 2A – Written Notice Section 2C)	e By Drinking Wa	ater System (DWS) Owner (Fo	or THM and HA	A reporti	ng see
Indicators of Adverse Water G	Quality		ne de la presenta de la constanta de Constante de la constanta de la	and the second sec	an ailes a brill	
AWQI Number *	Is this a resample?	?*				
161701	🗌 Yes 🖌 No 🗌	Unknown If Yes, th	en provide ini	tial AWQI numbe	r	
Indicator of Adverse Results						
Microbiological *	mical * 🛛 🗌 Rad	diological * 🛛 🗸 Op	erational *		er/Certifica	te Authority *
Observations of Improperly d	isinfected water dire	ected to water users				
Low Distribution Chlorine		mg/L				
High Turbidity	IN	ГО				
✓ Other Drop of distribution	pressure at plant	outlet				
While repairing the backup g between 16:15 and 16:38. As When generator power was r	enerator there wa a result of this th estored the opera	s a power outage r le distribution press tor on site began f	esulting in ne sure dropped ushing hydra	o power being s I to a minimum o ants, and took a	upplied to of 37.07 k sample.	o the plant Pa at 16:35.
DWS Information						
DWS Name * Melrose Limited Groundwate	r System				DWS N 26000	lumber * 2915
Last Name * Tyler		First N Jocely	ame * ′n			
Position * Compliance Coordinator / Ma	intenance Operat	or				
Email Address Tyler@middlesexcentre.ca			Telepho 519-854	ne Number (includ 4-7639	ing area code	ext.
Additional Comments						
Oral Notification to Health Uni	t - Person Contact	ted				
Public Health Unit Name * Middlesex-London Health Un	it					
Last Name *		First N	ame *			
Position *		1				
Telephone Number (including area 519-663-5317	code)* ext.	Fax Number (includi	ng area code)	Date (yyyy/mm	/dd) *	Time (hh:mm) *
1444E (2020/04) © Queen's Printer for O	ntario, 2019					Page 3 of 5

Section ZA continueu	Section	2A	continued
----------------------	---------	----	-----------

DWS Person Providing Oral Notification *	
Jocelyn Tyler	

Email Address Tyler@middlesexcentre.ca

Corrective Actions to be Taken by Owner/Operator								
Corrective Actions	Red	Required * Completed		Co	mments			
Resample and Test (including upstream, downstream and at AWQI location)	🗌 Yes	🖌 No	□Yes	🗌 No	√ N/A	One sam during flu	ple taken Ishing	
Disinfection Restored / Increased	☐ Yes	✓ No	□Yes	🗌 No	√ N/A	Disinfect distributio was at 1. the press owest	ion at on analyzer 05 mg/L when sure was at it's	
Mains / Pipes Flushed	✔ Yes	🗌 No	Ƴes	🗌 No	⊡N/A	Flushing at closest and furthest points in the system. Flushing also conducted next day with a residual of 1.13 mg/L		
Signs Posted (Do Not Drink Water)	🗌 Yes	🖌 No	Yes	🗌 No	✓N/A			
Users Advised to Boil Water / Seek Alternate Source	🗌 Yes	🖌 No	Yes	🗌 No	✓N/A			
Other (Include any other Health Unit directions and	any addit	ional attac	hments)					
Other:	🗌 Yes	🗌 No	Yes	No)N/A			
Oral Notification to Spills Action Centre (SAC) - I	Person C	ontacted						
Last Name * McKay		First N Candi	ame * <mark>ce</mark>					
Position * Senior Environmental Officer								
DWS Person Providing Oral Notifying *Date (yyy/mm/dd) *Time (hh:nJocelyn Tyler2023/04/066:45 PM					Time (hh:mm)* 6:45 PM			
Initial DWS Notification Prepared by * Jocelyn Tyler								
Signature M SZ						Date (y 2023/0	/yyy/mm/dd) *)4/07	

Additional Comments Called local health unit and left message, have yet to receive a reply.

eius markeu with an asterisk () are manuatory.	Section 2A continue
o you have another adverse to report? * 🗌 Yes 🛛 🔽 No	
E (2020/04)	Page 5



Instructions

These Notice forms apply to drinking water system owners and operators (Owners/Operators) and Ministry of the Environment, Conservation and Parks (MECP) licensed laboratories (Licensed Laboratories) regulated by Drinking Water Systems Regulation, Ontario Regulation 170/03 (O. Reg. 170/03).

Immediate Report of Adverse Results

Section 16-3(3) of Schedule 16 of O. Reg. 170/03 sets out the requirements for Owners/Operators and Licensed Laboratories to make an immediate report of adverse test results under O. Reg. 170/03 by speaking in person or by telephone to the MECP's Spills Action Centre (SAC), at 1-800-268-6060 or 416-325-3000, the local Medical Officer of Health/Health Unit (Health Unit) and the Owner/Operator (Immediate Report).

[Adverse test results for trihalomethanes (THMs) or haloacetic acids (HAAs) do not require an Immediate Report; see section below.]

Written Notice within 24 hours of the Immediate Report

Within 24 hours of an Immediate Report, Section 16-7(3) of Schedule 16 requires that Owners/Operators and Licensed Laboratories also provide written notice to the MECP and the Health Unit, by fax or e-mail. Licensed Laboratories must complete and submit Sections 1 and 3 of this Notice. Owners/Operators must complete and submit Section 2A of this Notice. **Note:** Section 3 is not required to be completed for operational parameter incidents which have no correlating adverse results.

Notice Within 7 Days of Issue Resolution

Within 7 days after the issue has been resolved, Section 16-9(1) of Schedule 16 requires that Owners/Operators must provide a written notice, Section 2B of this Notice, to SAC and the Health Unit, summarizing the actions taken and the results achieved. This written notice must also be sent to the interested authority for any designated facility (if applicable) within 30 days.

Owners and Operators must follow any additional corrective actions required by the Health Unit.

Total Trihalomethanes (THMs) and Haloacetic Acids (HAAs)

As of January 2016 for THMs and January 2020 for HAAs, Sections 16-6 and 16-7 of Schedule 16 require that Owners/Operators and Licensed Laboratories calculate the running annual average (RAA) for THMs and HAAs and report any adverse test result in writing to the MECP and the Health Unit within 7 calendar days of the end of the calendar quarter that produced the adverse test result. The written notice is to be submitted using Section 2C of this Notice. RAA calculation is outlined in Schedule 13-6 of O. Reg. 170/03.

Immediate oral notification is no longer required for these parameters.

Licensed Laboratories that upload all the THM and HAA test results into the ministry's data system and provide the results to Owners/Operators within 48 hours of the test result being authorized at the laboratory, may be exempt from the RAA reporting requirements noted above.

Note: Small municipal residential systems and non-municipal year-round residential systems that serve designated facilities also must notify the operator of each designated facility served by their system.

The 'Trihalomethane and Haloacetic Acid Sampling and Reporting Requirements Technical Bulletin' provides full details on the changes to the reporting requirements and provides examples for calculating quarterly and running annual averages. The Technical Bulletin is available on the ministry's web page via the following link:

https://www.ontario.ca/page/total-trihalomethane-thm-reporting-requirements-technical-bulletin

SAC fax: 1-800-268-6061 or 416-325-3011 SAC e-mail: <u>AWQI.Reporting@ontario.ca</u> Provincial standards for water quality are set out in: <u>Safe Drinking Water Act, 2002</u> <u>Ontario Regulation 169/03 (Water Quality Standards)</u> Ontario Regulation 170/03 (Drinking Water Systems)

Failure to notify these parties in accordance with the Regulation constitutes an offence under the *Safe Drinking Water Act*. A copy of this form may be acquired through the MECP public website (<u>www.ontario.ca/drinkingwater</u>) or by contacting any MECP office.

Collection of information on this form is done in accordance with the <u>Safe Drinking Water Act, 2002</u> and its Regulations. Information gathered herein, including personal information, is governed by the *Freedom of Information and Protection of Privacy Act* (FIPPA) and may be disclosed to other government agencies (including municipal health unit employees) pursuant to 'Section 42' of the FIPPA for the consistent purpose of administering any Act or program that pertains to drinking water safety. For questions and concerns, please contact the MECP at 1-866-793-2588.

Are you a *

□ Licensed Laboratory ✓ DWS

Which Section(s) of the Form do you need today?

Section 1 - Written Notice By Licensed Laboratory

Section 2A - Written Notice By Drinking Water System

Section 2B - Notice Of Issues Resolution

Section 2C - Written Notice By Drinking Water System Owner - Reporting RAA for THMs and HAAs



Fields marked with an asterisk (*) are mandatory.

Section 2B - Notice of Issue Resolution - Section 16-9 (O. Reg. 170/03) **DWS Information** DWS Name * DWS Number * Melrose Limited Groundwater System 260002915 **DWS Contact Name** Last Name * First Name * Tyler Jocelyn Telephone Number (including area code) * Fax Number (including area code) Email Address 519-854-7639 tyler@middlesexcentre.ca ext. Initial AWQI Number¹ * Date Resolution Notice Provided (yyyy/mm/dd) * Date Resolved (yyyy/mm/dd) * 161701 2023/04/10 2023/04/11 Are there previous resample AWQI numbers? * 🗸 No **Yes**

If known, please provide All Other Resample AWQI numbers²

Summary of action taken and results achieved (include test results showing water quality is no longer adverse) * System was flushed directly after the low pressure incident with a sample taken after flushing. System was also flushed the next day with residuals within normal range before and after flushing.

Was an advisory issued by the Health Unit? *	Advisory Type	Date Issued (yyyy/mm/dd)					
Yes							
✓ No Self Imposed Advisory							
If rescinded, please select date the advisory was rescinded							

Date Rescinded (yyyy/mm/dd)

Other (Include Health Unit directions and any additional attachments)

Attached File Name	Created	Modified	Size (MB)	Remove Selected File
		Number of attachments	0	

Notification/Report Provided By

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Section	2B	continue	ed

Last Name *	First Name *
Tyler	Jocelyn

Position *

Water wastewater maintenance operator / Compliance Coordinator

Signature	ban	Date (yyyy/mm/dd) *
	AN M	2023/04/11

Additional Comments

Have not yet heard from Middlesex London Health Unit.

Do you have another adverse to report?	Yes	🖌 No	

¹ The original adverse test result.

² When resolving an AWQI state all resample AWQI numbers associated with the initial AWQI. For example, an adverse test result of total coliform requires the corrective action of resampling. If any of the resamples come back adverse, then you must continue resampling until the test results for two consecutive sets of samples taken 24 to 48 hours apart are clear or as directed by the Health Unit. Submit the AWQI form and include all related AWQI numbers (Initial AWQI number and any Resample AWQI number) on the same Section 2B. This eliminates the requirement to submit a Section 2B form for every adverse test result associated with one incident. If the first resample test result is clear then this section does not apply. For THMs and HAAs drinking water system owners/operators are not required to take resamples as part of the prescribed corrective actions; unless directed by the Health Unit.



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

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

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

Phone: 519-666-0190 ext 255 Fax:519-666-0271 10-April-2023

Date Rec. : 07 April 2023 LR Report: CA20338-APR23

Copy: #2

CERTIFICATE OF ANALYSIS Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL
1: Analysis Start Date				07-Apr-23	07-Apr-23	07-Apr-23
2: Analysis Start Time				17:40	17:40	17:40
3: Analysis Completed Date				10-Apr-23	10-Apr-23	10-Apr-23
4: Analysis Completed Time				13:28	13:28	13:28
5: MAC				0	0	
6: DW Melrose Hydrant ME-01	06-Apr-23 18:16	5.7	1.59	0	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
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

Unaela

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

0003294625

Results relate only to the sample tested. Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.



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[Adverse test results for trihalomethanes (THMs) or haloacetic acids (HAAs) do not require an Immediate Report; see section below.]

Written Notice within 24 hours of the Immediate Report

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Within 7 days after the issue has been resolved, Section 16-9(1) of Schedule 16 requires that Owners/Operators must provide a written notice, Section 2B of this Notice, to SAC and the Health Unit, summarizing the actions taken and the results achieved. This written notice must also be sent to the interested authority for any designated facility (if applicable) within 30 days.

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Total Trihalomethanes (THMs) and Haloacetic Acids (HAAs)

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Immediate oral notification is no longer required for these parameters.

Licensed Laboratories that upload all the THM and HAA test results into the ministry's data system and provide the results to Owners/Operators within 48 hours of the test result being authorized at the laboratory, may be exempt from the RAA reporting requirements noted above.

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The 'Trihalomethane and Haloacetic Acid Sampling and Reporting Requirements Technical Bulletin' provides full details on the changes to the reporting requirements and provides examples for calculating quarterly and running annual averages. The Technical Bulletin is available on the ministry's web page via the following link:

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Are you a *

Licensed Laboratory 🗸 DWS

Which Section(s) of the Form do you need today?

Section 1 - Written Notice By Licensed Laboratory

Section 2A - Written Notice By Drinking Water System

Section 2B - Notice Of Issues Resolution

Section 2C - Written Notice By Drinking Water System Owner - Reporting RAA for THMs and HAAs



Fields marked with an asterisk (*) are mandatory.

Section 2B – Notice of Issue Resolution – Section 16-9 (O. Reg. 170/03)

DWS Information						
DWS Name * Melrose Limited Groundwater Sys	DWS Number * 260002915					
DWS Contact Name						
Last Name *			First Name *			
Tyler			Jocely	n		
Telephone Number (including area code)	*	Fax Number (including area code) Email Address		Email Address		
519-854-7639	ext.				tyler@middlesexc	entre.ca
Initial AWQI Number ¹ *	Date Resolved	d (yyyy/mm/	dd) *	Date Resolu	ution Notice Provided	d (yyyy/mm/dd) *
161701 2023/04/10				2023/04/11	1	
Are there previous resample AWQI no	umbers? *					
Yes 🗸 No						

If known, please provide All Other Resample AWQI numbers²

Summary of action taken and results achieved (include test results showing water quality is no longer adverse) * This is a follow-up to the Notice of Resolution sent on April 11th. Spoke with Andrew Powell, Manager of Safe Water, Rabies and Vector Borne Disease (phone # 226-678-4129), at 08:23 2023/04/12. He was satisfied with the course of action taken and the chlorine residuals at time of incident and no directions were given.

Was an advisory issued by the Health Unit? *	Advisory Type	Date Issued (yyyy/mm/dd)				
Yes						
✓ No Self Imposed Advisory						
If rescinded, please select date the advisory was rescinded						

Date Rescinded (yyyy/mm/dd)

Other (Include Health Unit directions and any additional attachments)

Attached File Name	Created	Modified	Size (MB)	Remove Selected File
		Number of attachments	0	

Notification/Report Provided By

Last Name *	First Name *
Tyler	Jocelyn

Position *

Water wastewater Operator / Compliance Coordinator

Signature	had	Date (yyyy/mm/dd) *
	MM M	2023/04/12

Additional Comments

Do you have another adverse to report?	Yes	🖌 No	

¹ The original adverse test result.

² When resolving an AWQI state all resample AWQI numbers associated with the initial AWQI. For example, an adverse test result of total coliform requires the corrective action of resampling. If any of the resamples come back adverse, then you must continue resampling until the test results for two consecutive sets of samples taken 24 to 48 hours apart are clear or as directed by the Health Unit. Submit the AWQI form and include all related AWQI numbers (Initial AWQI number and any Resample AWQI number) on the same Section 2B. This eliminates the requirement to submit a Section 2B form for every adverse test result associated with one incident. If the first resample test result is clear then this section does not apply. For THMs and HAAs drinking water system owners/operators are not required to take resamples as part of the prescribed corrective actions; unless directed by the Health Unit.



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

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

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

Phone: 519-666-0190 ext 255 Fax:519-666-0271 Works #: 260002915

10-April-2023

Date Rec. : 07 April 2023 LR Report: CA20338-APR23

Copy: #2

CERTIFICATE OF ANALYSIS Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	Field ResCl Free mg/L	Total Coliform cfu/100mL	E.Coli cfu/100mL	Total Coliform Background cfu/100mL
1: Analysis Start Date				07-Apr-23	07-Apr-23	07-Apr-23
2: Analysis Start Time				17:40	17:40	17:40
3: Analysis Completed Date				10-Apr-23	10-Apr-23	10-Apr-23
4: Analysis Completed Time				13:28	13:28	13:28
5: MAC				0	0	
6: DW Melrose Hydrant ME-01	06-Apr-23 18:16	5.7	1.59	0	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
cfu/100mL	Background by MF (using DCM)	ME-CA-[ENV]MIC-LAK-AN-001

Ungela

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

0003294625

Results relate only to the sample tested. Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.



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[Adverse test results for trihalomethanes (THMs) or haloacetic acids (HAAs) do not require an Immediate Report; see section below.]

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Owners and Operators must follow any additional corrective actions required by the Health Unit.

Total Trihalomethanes (THMs) and Haloacetic Acids (HAAs)

As of January 2016 for THMs and January 2020 for HAAs, Sections 16-6 and 16-7 of Schedule 16 require that Owners/Operators and Licensed Laboratories calculate the running annual average (RAA) for THMs and HAAs and report any adverse test result in writing to the MECP and the Health Unit within 7 calendar days of the end of the calendar quarter that produced the adverse test result. The written notice is to be submitted using Section 2C of this Notice. RAA calculation is outlined in Schedule 13-6 of O. Reg. 170/03.

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Are you a *

Licensed Laboratory & DWS

Which Section(s) of the Form do you need today?

Section 1 - Written Notice By Licensed Laboratory

Section 2A - Written Notice By Drinking Water System

Section 2B - Notice Of Issues Resolution

Section 2C - Written Notice By Drinking Water System Owner - Reporting RAA for THMs and HAAs



Notices of Adverse Test Results and Issue Resolution (Schedule 16)

Drinking Water Systems Regulation (O. Reg. 170/03)

Fields marked with an asterisk (*) are mandatory.

Section 2B - Notice of Iss	ue Resolution -	- Section 16-9 (C	. Reg. 170/03)	
DWS Name * Melrose Drinking Water Sys	stem			DWS Number * 260002915
DWS Contact Name				
Last Name * Watson		Fii Br	st Name * ian	
Telephone Number (including are 519-854-7618	ea code) * ext.	Fax Number (ii	ncluding area code)	Email Address watson@middlesexcentre.ca
Initial AWQI Number ¹ * 163698	Date Reso 2023/10/0	olved (yyyy/mm/dd) 05	* Date Reso 2023/10/0	lution Notice Provided (yyyy/mm/dd) *)6
Are there previous resample A □Yes ☑No	WQI numbers? *		I	
If known, please provide All Of	her Resample AW	QI numbers ²		

Summary of action taken and results achieved (include test results showing water quality is no longer adverse) * - Flushed from the treatment plant, upstream hydrant Me-01 and downstream hydrant Me-10.

- Collected bacti samples from the treatment plant, upstream hydrant Me-01 and downstream Sample Station.

- Replaced generator starter.

- Sample results are attached to this report.

Was an advisory issued by the Health Unit? *	Advisory Type	Date Issued (yyyy/mm/dd)
Yes		
✓ No Self Imposed Advisory		
If rescinded please select date the advisory wa	as rescinded	

If rescinded, please select date the advisory was rescinded Date Rescinded (yyyy/mm/dd)

Other (Include Health Unit directions and any additional attachments)

Attached File Name	Created	Modified	Size (MB)	Remove Selected File
		Number of attachments	0	

Notification/Report Provided By

Fields marked with an asterisk (*) are mandatory.		Section 2B continued
Last Name * Watson	First Name * Brian	
Position *		
Water/Wastewater Operations Supervisor		
Signature		Date (yyyy/mm/dd) * 2023/10/06

Additional Comments

res vino

¹The original adverse test result.

² When resolving an AWQI state all resample AWQI numbers associated with the initial AWQI. For example, an adverse test result of total coliform requires the corrective action of resampling. If any of the resamples come back adverse, then you must continue resampling until the test results for two consecutive sets of samples taken 24 to 48 hours apart are clear or as directed by the Health Unit. Submit the AWQI form and include all related AWQI numbers (Initial AWQI number and any Resample AWQI number) on the same Section 2B. This eliminates the requirement to submit a Section 2B form for every adverse test result associated with one incident. If the first resample test result is clear then this section does not apply. For THMs and HAAs drinking water system owners/operators are not required to take resamples as part of the prescribed corrective actions; unless directed by the Health Unit.



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Owners and Operators must follow any additional corrective actions required by the Health Unit.

Total Trihalomethanes (THMs) and Haloacetic Acids (HAAs)

As of January 2016 for THMs and January 2020 for HAAs, Sections 16-6 and 16-7 of Schedule 16 require that Owners/Operators and Licensed Laboratories calculate the running annual average (RAA) for THMs and HAAs and report any adverse test result in writing to the MECP and the Health Unit within 7 calendar days of the end of the calendar quarter that produced the adverse test result. The written notice is to be submitted using Section 2C of this Notice. RAA calculation is outlined in Schedule 13-6 of O. Reg. 170/03.

Immediate oral notification is no longer required for these parameters.

Licensed Laboratories that upload all the THM and HAA test results into the ministry's data system and provide the results to Owners/Operators within 48 hours of the test result being authorized at the laboratory, may be exempt from the RAA reporting requirements noted above.

Note: Small municipal residential systems and non-municipal year-round residential systems that serve designated facilities also must notify the operator of each designated facility served by their system.

The 'Trihalomethane and Haloacetic Acid Sampling and Reporting Requirements Technical Bulletin' provides full details on the changes to the reporting requirements and provides examples for calculating quarterly and running annual averages. The Technical Bulletin is available on the ministry's web page via the following link:

https://www.ontario.ca/page/total-trihalomethane-thm-reporting-requirements-technical-bulletin

SAC fax: 1-800-268-6061 or 416-325-3011 SAC e-mail: <u>AWQI.Reporting@ontario.ca</u> Provincial standards for water quality are set out in: <u>Safe Drinking Water Act, 2002</u> <u>Ontario Regulation 169/03 (Water Quality Standards)</u> <u>Ontario Regulation 170/03 (Drinking Water Systems)</u>

Failure to notify these parties in accordance with the Regulation constitutes an offence under the Safe Drinking Water Act. A copy of this form may be acquired through the MECP public website (www.ontario.ca/drinkingwater) or by contacting any MECP office.

Collection of information on this form is done in accordance with the <u>Safe Drinking Water Act, 2002</u> and its Regulations. Information gathered herein, including personal information, is governed by the *Freedom of Information and Protection of Privacy Act* (FIPPA) and may be disclosed to other government agencies (including municipal health unit employees) pursuant to 'Section 42' of the FIPPA for the consistent purpose of administering any Act or program that pertains to drinking water safety. For questions and concerns, please contact the MECP at 1-866-793-2588.

Are you a *

Licensed Laboratory 🗸 DWS

Which Section(s) of the Form do you need today?

Section 1 - Written Notice By Licensed Laboratory

Section 2A - Written Notice By Drinking Water System

Section 2B - Notice Of Issues Resolution

Section 2C - Written Notice By Drinking Water System Owner - Reporting RAA for THMs and HAAs



Fields marked with an asterisk (*) are mandatory.

Section 2A – Written Notice By Drinking Water System (DWS) Owner (For THM and HAA repo	orting see
Section 2C)	

Indicators of Adverse Wate	r Quality			
AWQI Number *	Is this a	resample? *		
163698	⊡Yes [✓ No 🗌 Unknown I	f Yes, then provide in	itial AWQI number
Indicator of Adverse Result	s			
Microbiological *	nemical *	Radiological *	✓ Operational *	Licence/Order/Certificate Authority *
Observations of Improperly	y disinfected	I water directed to wate	er users	
Low Distribution Chlorine		m	g/L	
High Turbidity		NTU		
✓ Other Low Pressure				
Details of Adverse Result *				

Low pressure event during a power outage.

On 2-Oct-23 at 14:35 a power outage occurred and the generator failed to start due to a bad starter. The power was restored at 14:57 and the lowest pressure reading was 84.78 kpa at 14:54.

DWS Information				
DWS Name * Melrose Drinking Water System				260002915
Last Name * Watson				
Position * Water/Wastewater Operations Supervisor				
Email Address watson@middlesexcentre.ca		Telepho 519-854	ne Number (including a 4-7618	ext.
Oral Notification to Health Unit - Person Co	ntacted			
Oral Notification to Health Unit - Person Co Public Health Unit Name * Middlesex-London Health Unit	intacted			
Oral Notification to Health Unit - Person Co Public Health Unit Name * Middlesex-London Health Unit Last Name * Walsh	ntacted	First Name * Chris		
Oral Notification to Health Unit - Person Co Public Health Unit Name * Middlesex-London Health Unit Last Name * Walsh Position * Public Health Inspector	ntacted	First Name * Chris		

DWS Person	Providing	Oral	Notification 7	*
Brian Watso	on			

Email Address watson@middlesexcentre.ca

Corrective Actions to be Taken by Owner/Operat	or							
Corrective Actions	Rec	quired *		Compl	eted		С	omments
Resample and Test (including upstream, downstream and at AWQI location)	Ves	🗌 No	Yes	🗌 No	[N/A		
Disinfection Restored / Increased	Yes	🗌 No	Yes	🗌 No	I	N/A		
Mains / Pipes Flushed	☐ Yes	No No	√Yes	No No		_]N/A		
Signs Posted (Do Not Drink Water)	Ves	🗌 No	Yes	🗌 No	I	_]N/A		
Users Advised to Boil Water / Seek Alternate Source	Ves	No No	Yes	🗌 No		N/A		
Other (Include any other Health Unit directions and	any additi	onal attac	hments)					
Other: Sample and test, repair generator	🗌 Yes	□ No	√Yes	🗌 No		_N/A	Sample 17:10 - 17:23 - 17:53 -	Cl2 Residuals: 1.17 mg/L 1.14 mg/L 1.12 mg/L
Oral Notification to Spills Action Centre (SAC) - I	Person C	ontacted			_			
Last Name * Daya		First N Aaron	lame * I					
Position * Environmental Officer	-							
DWS Person Providing Oral Notifying * Brian Watson					Date (2023/	yyyyy/mr /10/03	n/dd) *	Time (hh:mm)* 3:18 PM
Initial DWS Notification Prepared by * Brian Watson					-	I		
Signature B. Wata							Date 2023	(yyyy/mm/dd) * /10/03
Additional Comments								

Do you have another adverse to report? * Yes Vo



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

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

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

Phone: 519-666-0190 ext 255 Fax:519-666-0271 Works #: 260002915

05-October-2023

 Date Rec. :
 03 October 2023

 LR Report:
 CA20044-OCT23

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt ℃	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				03-Oct-23	03-Oct-23	03-Oct-23	03-Oct-23
2: Analysis Start Time				11:40	11:40	11:40	11:00
3: Analysis Completed Date				05-Oct-23	05-Oct-23	05-Oct-23	05-Oct-23
4: Analysis Completed Time				10:48	10:48	10:48	10:48
5: MAC				0	0		
6: 1A106 DW Sample Station	02-Oct-23 17:53	10.8	1.12	0	0	0	< 10
7: 1A102 TW Water Treatment Facility	02-Oct-23 17:10	10.8	1.17	0	0	0	20
8: DW Hydrant ME-01	02-Oct-23 17:23	10.8	1.14	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

0003490903

Page 1 of 1 Results relate only to the sample tested. Data reported reported reported resources the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or



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

Mun of Middlesex Centre (Melrose)

Attn : Brian Watson

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

Phone: 519-666-0190 ext 255 Fax:519-666-0271 Works #: 260002915

06-October-2023

 Date Rec. :
 04 October 2023

 LR Report:
 CA20200-OCT23

Copy: #2

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				04-Oct-23	04-Oct-23	04-Oct-23	04-Oct-23
2: Analysis Start Time				11:15	11:15	11:15	10:55
3: Analysis Completed Date				06-Oct-23	06-Oct-23	06-Oct-23	06-Oct-23
4: Analysis Completed Time				12:57	12:57	12:57	12:57
5: MAC				0	0		
6: 1A106 DW Sample Station	03-Oct-23 17:56	7.4	1.09	0	0	0	< 10
7: 1A102 TW Water Treatment Facility	03-Oct-23 17:14	7.4	1.11	0	0	0	< 10
8: DW Hydrant ME-01	03-Oct-23 17:26	7.4	1.08	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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Angela Stott, B.Sc. Branch Manager-London Environment, Health & Safety

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Page 1 of 1 Results relate only to the sample tested. Data reported reported reported resources the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or