



Ministry of the Environment and Climate Change
Drinking Water System Inspection Report

Golden Lake United Church Camp-Staff House

2023

Annual Report



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	260034905
Drinking-Water System Name:	Golden Lake United Church Camp-Staff House
Drinking-Water System Owner:	Golden Lake United Church Camp
Drinking-Water System Category:	Small Non-Municipal Non-Residential System
Period being reported:	01/01/2023-12/31/2023

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [] No [X]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 10px; margin-top: 10px;"> <p>On file at in Assembly Hall office and at the following website: www.goldenlakecamp.ca</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; width: 100px; text-align: center; margin: 5px;">1</div> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [X] No []</p> <p>Number of Interested Authorities you report to:</p> <div style="border: 1px solid black; width: 100px; text-align: center; margin: 5px;">0</div> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No [X]</p>
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Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
GLUCC Staff House	260034905

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?

Yes [X] No []



Indicate how you notified system users that your annual report is available, and is free of charge.

- ☒ Public access/notice via the web
☐ Public access/notice via Government Office
☐ Public access/notice via a newspaper
☐ Public access/notice via Public Request
☐ Public access/notice via a Public Library
☐ Public access/notice via other method _____

Describe your Drinking-Water System

Please see page 7 for Drinking-Water System Information

List all water treatment chemicals used over this reporting period

N/A

Were any significant expenses incurred to?

- ☐ Install required equipment
☐ Repair required equipment
☒ Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred

Replace filters and UV Lamps \$750

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date

Drinking-Water Systems Regulation O. Reg. 170/03

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	Number of Samples	Range of E.Coli Or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw					
Treated		Please see pages 8-13			
Distribution					

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (min #)-(max #)	Unit of Measure	NOTE: For continuous monitors use 8760 as the number of samples.
Turbidity				
Chlorine				
Fluoride (If the DWS provides fluoridation)				

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date	Result/Value	Unit of Measure	Exceedance
Antimony				
Arsenic				
Barium				
Boron				
Cadmium				
Chromium				
*Lead				
Mercury				
Selenium				
Sodium				
Uranium				
Fluoride				

Drinking-Water Systems Regulation O. Reg. 170/03

Nitrite				
Nitrate				

*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

Summary of lead testing under Schedule 15.1 during this reporting period
(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Unit of Measure	Number of Exceedances
Plumbing				
Distribution				

Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor				
Aldicarb				
Aldrin + Dieldrin				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				
Bendiocarb				
Benzene				
Benzo(a)pyrene				
Bromoxynil				
Carbaryl				
Carbofuran				
Carbon Tetrachloride				
Chlordane (Total)				
Chlorpyrifos				
Cyanazine				
Diazinon				
Dicamba				
1,2-Dichlorobenzene				
1,4-Dichlorobenzene				
Dichlorodiphenyltrichloroethane (DDT) + metabolites				
1,2-Dichloroethane				
1,1-Dichloroethylene (vinylidene chloride)				
Dichloromethane				
2,4 Dichlorophenol				
2,4-Dichlorophenoxy acetic acid (2,4-D)				



Diclofop-methyl				
Dimethoate				
Dinoseb				
Diquat				
Diuron				
Glyphosate				
Heptachlor + Heptachlor Epoxide				
Lindane (Total)				
Malathion				
Methoxychlor				
Metolachlor				
Metribuzin				
Monochlorobenzene				
Paraquat				
Parathion				
Pentachlorophenol				
Phorate				
Picloram				
Polychlorinated Biphenyls(PCB)				
Prometryne				
Simazine				
THM (NOTE: show latest annual average)				
Temephos				
Terbufos				
Tetrachloroethylene				
2,3,4,6-Tetrachlorophenol				
Triallate				
Trichloroethylene				
2,4,6-Trichlorophenol				
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)				
Trifluralin				
Vinyl Chloride				

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample

Drinking Water System Description:

Golden Lake Camp has two identical water treatment systems, one in its Staff House at 54 McNee Drive, Golden Lake, ON, and the other in its Dining (Assembly) Hall at 63 McNee Drive, Golden Lake, ON. They were installed in June 2004 and certified as compliant with the requirements of Regulation 170/03 by Jp2g Consultants Inc, of Pembroke, in July of the same year.

Each system is classified as "small, non-municipal nonresidential," providing potable water for a children's camp, which is a "designated facility." Each of the two systems is fed from its own well, classified as GUDI ("ground water under the

direct influence of surface water"). Therefore, a cartridge filtration system and UV disinfection

system in compliance with "Procedure for Disinfection of Drinking Water in Ontario" were specified for and installed on each system.

To provide the required disinfection, the installations employ a Point-of-Entry system in each building, consisting of cartridge filtration followed by UV disinfection. Each point of entry system has two parallel trains of cartridge filters, with each train consisting of a 5 micron nominal and a 1 micron absolute filter.

Each UV unit installed is a Hallet Model 13, rated to provide minimum of 65 mJ/cm² at 13 USgpm and UVT of 75% at end of lamp life. The UV system has a solenoid shut-off, so that on

alarm or failure to disinfect, the solenoid closes, shutting off flow to the water system. Dual lamp sensors are used for UV and water quality, with flow shut off low UV or poor water quality. The UV equipment is NSF/ANSI 55 Class 55 A rated, and has flow limiter to limit maximum flow to maximum rated flow.

OFFICIAL CERTIFICATE OF ANALYSIS : 3620642**WORK REQUEST : 100226772****Report Date : 2023-07-07****Golden Lake Camp**

RR #1

Golden Lake, ON

K0J 1X0

Attention : Alice Madigan

DWS : GOLDEN LAKE UNITED CHURCH CAMP STAFF
HOUSE
DWS # : 260034905
Reception Date : 2023-07-05
Project : Drinking Water System Sampling
Sampler : NA
PO Number : Not Applicable
Temperature : 12 °C

Analysis	Quantity	External Method
E.Coli and Total Coliforms (DC Plate)	2	Modified from MECP E3407

Criteria :**A :** Ontario Regulation 170/03**Sample status upon receipt :**

7049724 7049725

Compliant**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

Legend :

RL : Reporting limit

QC : Reference material (QC)

N/A : Not applicable

1 : Results in annex

* : Analysis conducted by external subcontracting

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Golden Lake Camp
Project : Drinking Water System Sampling
DWS : 260034905 GOLDEN LAKE UNITED CHURCH CAMP STAFF HOUSE

Reception Date: 2023-07-05

Eurofins Sample No :				7049724	7049725			
Matrix :				Drinking water	Drinking water			
Sampling Date :				2023-07-04	2023-07-04			
Client Sample Identification :				Staff House/4905 (RW)	Staff House/4905 (DW)			
Microbiology (DC Plate)	RL	Unit	Criteria					
			A	B	C			
E.Coli and Total Coliforms (DC Plate)								
Escherichia coli (DC)	0	CFU/100mL	0			0	0	
Total Coliforms (DC)	0	CFU/100mL	0			0	0	

Approved by :



Raheleh Zafari,
Ottawa, Environmental Chemist, PhD

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Golden Lake Camp
Project : Drinking Water System Sampling
DWS : 260034905 GOLDEN LAKE UNITED CHURCH CAMP STAFF HOUSE

Reception Date: 2023-07-05

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
E.Coli and Total Coliforms (DC Plate)									
Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296.									
Escherichia coli (DC)	CFU/100mL	0	0					0	0-30
Total Coliforms (DC)	CFU/100mL	0	0					0	0-30
Associated Samples : 7049724, 7049725								Prep Date: 2023-07-06 Analysis Date: 2023-07-07	

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.

OFFICIAL CERTIFICATE OF ANALYSIS : 3670125**WORK REQUEST : 100236422****Report Date : 2023-08-21****Golden Lake Camp**

RR #1

Golden Lake, ON

K0J 1X0

Attention : Alice Madigan

DWS : GOLDEN LAKE UNITED CHURCH CAMP STAFF
HOUSE
DWS # : 260034905
Reception Date : 2023-08-18
Project : Drinking Water System Sampling
Sampler : NA
PO Number : Not Applicable
Temperature : 14 °C

Analysis	Quantity	External Method
E.Coli and Total Coliforms (DC Plate)	2	Modified from MECP E3407

Criteria :**A :** Ontario Regulation 170/03**Sample status upon receipt :**

7162709 7162710

Compliant**Notes :**

- All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise stated.
- Eurofins Environment Testing Canada Inc. is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at <https://directory.cala.ca/>
- Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline or regulatory limits listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official guideline or regulation as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

Legend :

RL : Reporting limit

QC : Reference material (QC)

N/A : Not applicable

1 : Results in annex

* : Analysis conducted by external subcontracting

^ : Analysis not accredited

OFFICIAL CERTIFICATE OF ANALYSIS - RESULTS

Client : Golden Lake Camp
Project : Drinking Water System Sampling
DWS : 260034905 GOLDEN LAKE UNITED CHURCH CAMP STAFF HOUSE

Reception Date: 2023-08-18

Eurofins Sample No :				7162709	7162710			
Matrix :				Drinking water	Drinking water			
Sampling Date :				2023-08-17	2023-08-17			
Client Sample Identification :				Staff House (RW)	Staff House (DW)			
Microbiology (DC Plate)	RL	Unit	Criteria					
			A	B	C			
E.Coli and Total Coliforms (DC Plate)								
Escherichia coli (DC)	0	CFU/100mL	0			0	0	
Total Coliforms (DC)	0	CFU/100mL	0			0	0	

Approved by :

R. Zafari

Raheleh Zafari,
Ottawa, Environmental Chemist, PhD

OFFICIAL CERTIFICATE OF ANALYSIS - QUALITY CONTROL

Client : Golden Lake Camp
Project : Drinking Water System Sampling
DWS : 260034905 GOLDEN LAKE UNITED CHURCH CAMP STAFF HOUSE

Reception Date: 2023-08-18

Parameter	Unit	RL	Blank	QC		Matrix Spike		Duplicate	
				Recovery %	Range %	Recovery %	Range %	RPD %	Range %
E.Coli and Total Coliforms (DC Plate)									
Method : Total Coliforms and E.Coli by MF (Water, DC plate). Internal method: OTT-M-BAC-WI45296.									
Escherichia coli (DC)	CFU/100mL	0	0						-
Total Coliforms (DC)	CFU/100mL	0	0						-
Associated Samples : 7162709, 7162710								Prep Date: 2023-08-18 Analysis Date: 2023-08-19	

Where RPD % is reported as "-" the calculation is not available because one or both of the duplicates is within 5 times the RL.