

APR 16 2021



Ministry of the Environment, Conservation and Parks

**LATCHFORD DRINKING WATER SYSTEM
Inspection Report**

Site Number:	210000960
Inspection Number:	1-OTQ41
Date of Inspection:	Mar 10, 2021
Inspected By:	Erin Spires

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OWNER INFORMATION:

Company Name: LATCHFORD,THE CORPORATION OF THE TOWN OF
Street Number: 10 **Unit Identifier:**
Street Name: MAIN St
City: LATCHFORD
Province: ON **Postal Code:** P0J 1N0

CONTACT INFORMATION

Type: Owner **Name:** Jamie Allen
Phone: (705) 676-2416 **Fax:** (705) 676-2121
Email: jallen@latchford.ca
Title: Clerk-Treasurer, Corporation of the Town of Latchford

Type: Owner **Name:** Laurel Gadoury
Phone: (705) 676-2416 **Fax:** (705) 676-2121
Email: lgadoury@latchford.ca
Title: Deputy Treasurer - Deputy Clerk, Corporation of the Town of Latchford

Type: ORO **Name:** Rico Guindon
Phone: (705) 622-1179 **Fax:**
Email: rguindon@latchford.ca
Title: Overall Responsible Operator, Town of Latchford

Type: Operator **Name:** Pat Tresidder
Phone: (705) 679-3587 **Fax:** (705) 676-2121
Email: ptresidder@latchford.ca
Title: Operator in Charge, Corporation of the Town of Latchford

Type: Health Unit **Name:** Ryan Peters
Phone: (705) 647-4305 **Fax:**
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Title: Program Manager, Timiskaming Health Unit

Type: MNR North Bay District **Name:** Mitch Baldwin
Phone: (705) 475-5550 **Fax:** (705) 475-5500
Email: mitch.baldwin@ontario.ca
Title: District Manager

INSPECTION DETAILS:

Site Name: LATCHFORD DRINKING WATER SYSTEM
Site Address: 1 MCLEOD Street LATCHFORD ON P0J 1N0
County/District: LATCHFORD
MECP District/Area Office: North Bay Area Office
Health Unit: TIMISKAMING HEALTH UNIT
Conservation Authority:

MNR Office: North Bay Regional Office
Category: Large Municipal Residential
Site Number: 210000960
Inspection Type: Special Unannounced
Inspection Number: 1-OTQ41
Date of Inspection: Mar 10, 2021
Date of Previous Inspection: Oct 25, 2019

COMPONENTS DESCRIPTION

Site (Name): RAW WATER
Type: Source **Sub Type:** Surface
Comments:

The source water for the Latchford Drinking Water System is Bay Lake which was created with the construction of the Latchford dam on the Montreal River. The First Engineer's Report for the Latchford facility (Earth Tech, 2001) states that Bay Lake water is very soft with very low alkalinity. It is also characterized by low turbidity but high colour.

As a surface water source, Bay Lake and the Montreal River are susceptible to seasonal effects and changing raw water quality typical of a riverine system. The watershed for Bay Lake is large and includes the upper reaches of the Montreal River. Active and inactive mining facilities activities are located within the watershed which makes Bay Lake possibly more susceptible to contamination from spills. However, there have been no specific incidents in recent history.

According to the First Engineer's Report and the Drinking Water Works Permit (DWWP) 277-201 (Issue No. 3), the intake structure for the water treatment plant is located approximately 140 m offshore. The structure is a timber crib and sits approximately 1.15 m off the bottom of Bay Lake in at least 5.5 m of water. Located upstream of the dam, the intake structure resides in an area which is below the low water level for the Lake. Raw water flows by gravity from the intake structure to the water treatment plant via 210 metres of 250 mm diameter pipe.

Site (Name): TREATMENT SYSTEM
Type: Treated Water POE **Sub Type:** Treatment Facility
Comments:

Surface water is drawn from Bay Lake via gravity and the low lift pumping station. According to DWWP 277-201 (Issue No. 3), the treatment system is comprised of the following:

Low lift Pumping Station: A raw water intake well is equipped with a 250 mm diameter raw water intake pipe, an intake screen and a 100 mm diameter intake flush line from the high lift pumps. The low lift pumping station contains a wet well and is equipped with three (3) vertical turbine pumps (two duty and one standby); each rated at 2.9 L/s.

Coagulation, Flocculation, Clarification and Filtration: Two parallel trains, each capable of treating water at a rate of 6.3 L/second. Each unit is equipped with a coagulation vessel, an upflow adsorption clarifier and a multimedia filter. There is provision to direct effluent from each filter unit to waste (Filter-to-Waste). Alum is injected into the raw water pump discharge pipe located immediately downstream of the raw water flow meter, upstream of the flocculation tanks and treatment units. The coagulant dosing system includes two chemical metering pumps (on duty and one standby) each delivering a flow of 1.6 GPH (6.0 L/hr) and one 600 L chemical storage tank with spill containment.

Polymer is injected into the coagulated water supply using one of two chemical metering pumps (one duty and one standby) each capable of delivering a flow of 2.0 GPH (7.6 L/hr) from one 380 L chemical storage tank with spill containment. There are two optional injection points (one upstream and one downstream of the flocculation tanks, both prior to the treatment units).

pH/Alkalinity: There are three pH/Alkalinity adjustment systems; one pre-coagulation, one post-filtration and one

distribution. The pre-coagulation injection point is in the raw water pump discharge header and is comprised of two metering pumps (one duty and one standby) each capable of delivering a flow of 1.6 GPH (6.1 L/hr) and one 350 L chemical storage tank with spill containment. The post filtration injection point is into the filter effluent discharge header upstream of the treated water storage reservoir (clear wells). It is comprised of one metering pump capable of delivering a flow of 1.1 GPH (4.2 L/hr) and one 600 L chemical storage tank with spill containment. The distribution injection point is into the treated water distribution header, immediately prior to discharge from the plant. It uses the same dosing system as the post-filtration system and typically is only used when the post-filtration system is not in service. Liquid soda ash is current used for pH/Alkalinity adjustment.

Disinfection: The chlorine disinfection dosing system is comprised of two primary dosing metering pumps (one duty and one standby) each capable of delivering a flow of 1.4 L/hr, injecting into the inlet of the clear well for primary disinfection. Sodium hypochlorite storage consists of one storage tank with spill containment.

Process Waste Management System: This system is comprised of a backwash holding tank that is approximately 3.3 m x 2.65 m x 2.4 m with a usable volume of 21 m³ and two submersible backwash pumps (one duty and one spare) each rate at 22.7 L/s. The pumps discharge wastewater from the holding tank to the sanitary sewer via a 100 mm diameter forcemain.

Clearwell and High Lift Pumping System: The clearwell is a 340 m³ reinforced concrete reservoir comprised of two cells (one with a volume of 248 m³ and the other of 92 m³); two pump wells, one with a volume of 76 m³ housing high lift pumps #1 and #2 and the other housing high lift pump #3 and a high capacity pump). The total storage capacity of the clearwell is approximately 484 m³ at water depth of 3.65 m. The high lift pumps consist of one vertical turbine pump rated at 3.7 L/s (variable speed), two vertical turbine pumps each rated at 7.3 L/s (variable speed) and one vertical turbine high capacity pump rated at 38 L/s with fixed speed drive.

Standby Power System: There is one outdoor 141 kW standby power diesel engine generator.

Instrumentation and Control Equipment: The instrumentation and control system is comprised of; a PLC and in-plant SCADA system; raw water and treated water flow meters; four chlorine residual analyzers (raw water discharge line, filter effluent discharge line, high lift pump discharge line, treated water plant discharge header); pH indicator on the raw water discharge line and treated water plant discharge; three hydropneumatic tanks; one pressure transmitter on the plant discharge, and turbidity meters (located upstream of water treatment units, on each filter effluent line and on the treated water plant discharge).

Site (Name): DISTRIBUTION SYSTEM
Type: Other **Sub Type:** Other
Comments:

The water distribution system for the Town of Latchford services an approximate population of 300 residents and 190 homes (First Engineer's Report, Earth Tech, 2001).

Based on this information, the Latchford Drinking Water System is classified as a Large Municipal Residential Drinking Water System under O. Reg. 170/03.

The Latchford distribution system is comprised of piping, valves, and fire hydrants. It also includes a 100 mm diameter return line back to the water treatment plant, complete with a 19 mm diameter by-pass, solenoid actuated flow valve and totalizing flow meter. The discharge from the return line is to the clearwell.

The return line originated from historical problems with freezing lines in the distribution system during the winter months due to the frost penetrating into the ground deeper than the depth of the water lines. According to the First Engineer's Report, the return line assists in the maintenance of good chlorine residuals in the distribution system; allows for frequent and reliable measurements of water quality in the distribution system; reduces the freezing of the water lines; and moderates the water temperature.

Additionally, each year Aqua-Flo™ tanks are installed in approximately 50 homes. These in-home water recirculation systems provide greater water movement in the service connections, helping to raise the water temperature and thus reduce the likelihood of frozen waterlines.

Site (Name): MOE DWS Mapping
Type: DWS Mapping Point

Sub Type:

INSPECTION SUMMARY:

Introduction

- **The primary focus of this inspection is to confirm compliance with Ministry of the Environment, Conservation and Parks (MECP) legislation as well as evaluating conformance with ministry drinking water related policies and guidelines during the inspection period. The ministry utilizes a comprehensive, multi-barrier approach in the inspection of water systems that focuses on the source, treatment and distribution components as well as management practices.**

This drinking water system is subject to the legislative requirements of the Safe Drinking Water Act, 2002 (SDWA) and regulations made therein, including Ontario Regulation 170/03, "Drinking Water Systems" (O.Reg. 170/03). This inspection has been conducted pursuant to Section 81 of the SDWA.

This report is based on a "focused" inspection of the system. Although the inspection involved fewer activities than those normally undertaken in a detailed inspection, it contained critical elements required to assess key compliance issues. This system was chosen for a focused inspection because the system's performance met the ministry's criteria, most importantly that there were no deficiencies as identified in O.Reg. 172/03 over the past 3 years. The undertaking of a focused inspection at this drinking water system does not ensure that a similar type of inspection will be conducted at any point in the future.

This inspection report does not suggest that all applicable legislation and regulations were evaluated. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

On March 10th, 2021, Ministry of the Environment, Conservation and Parks' Water Inspector Erin Spires conducted an interview by phone for the unannounced, focused inspection of the Latchford Drinking Water System (DWS) with Rico Guindon, Operator with Overall Responsibility for the Corporation of the Town of Latchford.

The Corporation of the Town of Latchford is the owner and operating authority for the Latchford Drinking Water System and Distribution System.

The drinking water inspection included a document review of the period of September 30th, 2019 to February 28th, 2021. This period is referred to as the "inspection period" in this report.

Specifically, this included a review and assessment of operating practices in relation to the following documents:

- Drinking Water System Regulation O. Reg. 170/03
- Certification of Drinking Water Systems Operators Regulation O. Reg. 128/04
- Permit To Take Water (PTTW) No. 4370-85SH84 dated May 27th, 2010.
- Permit To Take Water (PTTW) No. 1047-BHEGZD dated November 14th, 2019.
- Municipal Drinking Water Licence (Licence) No. 277-101 (Issue No. 3) dated March 9th, 2016.
- Drinking Water Works Permit (Permit) No. 277-201 (Issue No. 3) dated April 21st, 2017.
- Previous ministry inspection reports dated October 25th, 2019 and August 21st, 2018.

Note: Permit No. 277-201 (Issue No. 4) and Licence No. 277-101 (Issue No. 4) dated March 3rd, 2021 were issued after the inspection period and are referenced in this inspection report.

Source

- **The owner did have a harmful algal bloom monitoring plan in place that met the requirements of the**

Source

Municipal Drinking Water Licence condition.

Condition 6.1 of Schedule C of Licence No. 277-101, Issue No. 4 issued on March 3rd, 2021 requires that the owner shall develop and keep up to date a Harmful Algal Bloom monitoring, reporting and sampling plan, to be implemented when a potential harmful algal bloom is suspected or present. The owner shall have the plan in place on or before September 9, 2021.

On March 10th, 2021, the operator indicated that from June to October visual monitoring of the intake at Bay Lake is conducted. There is proactive monitoring and sampling for HABs occurs in July and August. If there is any visual indication, then weekly sampling occurs for the raw and treated water and appropriate notifications will be made to the ministry and health unit.

A review of the Harmful Algae Bloom Monitoring Standard Operating Procedure (dated December 3rd, 2020) and Emergency Response – Harmful Algae Bloom (dated December 4th, 2020) were available for the inspection.

Note: The Emergency Response – Harmful Algae Bloom SOP indicates that notification to the ministry's Spills Action Center and local Medical Officer of Health will be taken if the total microcystin is greater than or equal to 1.5 ug/L. The Licence (Issue No. 4) requires that the ministry's spills Action Center and the local Medical Officer of Health are notified along with the ORO when a Harmful Algae Bloom is observed or suspected.

Capacity Assessment

- **There was sufficient monitoring of flow as required by the Municipal Drinking Water Licence or Drinking Water Works Permit issued under Part V of the SDWA.**
- **The owner was in compliance with the conditions associated with maximum flow rate or the rated capacity conditions in the Municipal Drinking Water Licence issued under Part V of the SDWA.**

Condition 1.1 of Schedule C of the Licence specifies that the maximum daily volume of treated water that flows from the Latchford Water Treatment Plant to the distribution system shall not exceed the rated capacity of 500 m³/day.

A review of Latchford's Daily Reports for the inspection period indicate that the maximum daily volume of treated water was 207.547 m³/day on June 20th, 2020.

Treatment Processes

- **The owner had ensured that all equipment was installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit.**
- **Records indicated that the treatment equipment was operated in a manner that achieved the design capabilities required under Ontario Regulation 170/03 or a Drinking Water Works Permit and/or Municipal Drinking Water Licence issued under Part V of the SDWA at all times that water was being supplied to consumers.**

The Procedure for Disinfection of Drinking Water in Ontario requires the treatment process of surface water to consist of chemically assisted filtration and disinfection and achieve an overall performance that provides (at a minimum) 2-log (99%) removal or inactivation of *Cryptosporidium* oocysts, a 3-log (99.9%) removal or inactivation of *Giardia* cysts, and a 4-log (99.99%) removal or inactivation of viruses prior to the first consumer. In addition, at least 0.5-log removal or inactivation of *Giardia* cysts and a 2-log removal or inactivation of viruses must be provided through disinfection.

Filtration

Treatment Processes

Conventional filtration provides 2 log inactivation credit for *Cryptosporidium* oocyst, 2.5 log inactivation credits for *Giardia* Cysts, and 2 log inactivation credit for viruses when:

1. A chemical coagulant is used at all times when the treatment plant is in operation;
2. Chemical dosages are monitored and adjusted in response to variations in raw water quality;
3. Effective backwash procedures, including the filter-to-waste, to ensure that the effluent turbidity requirements are met at all times;
4. Filtrate turbidity is continuously monitored from each filter, and;
5. Performance Criterion for filtered water turbidity of less than or equal to 0.3 NTU in 95% of the measurements each month shall be met for each filter.

Chlorination

Chlorination is required to provide the remaining 0.5 log removal credit for *Giardia* Cysts and 2 log removal credit for viruses.

The Chlorine Contact Time Standard Operation Procedure for the Latchford Water Treatment Plant indicates that a minimum free chlorine residual of 0.7 mg/L is required in the treated water leaving the plant to achieve primary disinfection under worst-case conditions. Worst-case conditions include:

- Clearwell level drops below 2.5 m
- pH goes above 8
- Treated flow rate of 15 L/sec
- Temperature of 0.5 deg C

The Latchford WTP – CT Calculation SOP for the Fire Pump Running requires, if the fire pump is running, a minimum free chlorine residual of 1.4 mg/L for primary disinfection under the worst-case conditions identified above, a treated flow rate of 38 L/sec, and a minimum clearwell level of 2.8 m.

A review of the Latchford Daily Report indicates that primary disinfection requirements were met for the inspection period.

- **Records confirmed that the water treatment equipment which provides chlorination or chloramination for secondary disinfection purposes was operated so that at all times and all locations in the distribution system the chlorine residual was never less than 0.05 mg/l free or 0.25 mg/l combined.**
A review of the Latchford Distribution Residual Sheets for the inspection period indicate that the lowest free chlorine residual measured in the distribution system was 0.23 mg/L on June 18th, 2020.

Treatment Process Monitoring

- **Primary disinfection chlorine monitoring was conducted at a location approved by Municipal Drinking Water Licence and/or Drinking Water Works Permit issued under Part V of the SDWA, or at/near a location where the intended CT has just been achieved.**
Primary disinfection chlorine monitoring in the Latchford Water Treatment Plant is conducted on the high lift pump discharge line exiting the clearwells, using a HACH CL17 chlorine analyzer. The analyzer is mounted adjacent to the main door of the facility
- **Continuous monitoring of each filter effluent line was being performed for turbidity.**
- **The secondary disinfectant residual was measured as required for the distribution system.**

Treatment Process Monitoring

- **Operators were examining continuous monitoring test results and they were examining the results within 72 hours of the test.**
- **All continuous monitoring equipment utilized for sampling and testing required by O. Reg. 170/03, or Municipal Drinking Water Licence or Drinking Water Works Permit or order, were equipped with alarms or shut-off mechanisms that satisfy the standards described in Schedule 6.**

Section 6-5(1)5 of Schedule 6 of O. Reg. 170/03 requires continuous monitoring equipment to be designed and operated such that an alarm must signal immediately if the equipment malfunctions, or loses power or the test result is above the maximum alarm standard of 1.0 NTU for turbidity and 0.1 mg/L less than the concentration of free chlorine residual that is required to achieve primary disinfection. The alarm must signal immediately at the location where the equipment conducts tests and at a location where a person is present.

A review of the SCADA alarm set points indicates that Filters No. 1 and 2 have a callout alarm at 0.95 NTU and a lockout alarm at 0.9 NTU, with a 300 second delay. The low free chlorine set point is 0.8 mg/L which triggers an alarm callout without delay.

- **Continuous monitoring equipment that was being utilized to fulfill O. Reg. 170/03 requirements was performing tests for the parameters with at least the minimum frequency specified in the Table in Schedule 6 of O. Reg. 170/03 and recording data with the prescribed format.**

- **All continuous analysers were calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation.**

A review of the Instrumentation Calibration/Maintenance Report indicates that the free chlorine analyzer was calibrated on October 8th, 2019, January 7th, 2020 (after the new chlorine analyzer was installed), April 10th, 2020, and October 19th, 2020.

A review of the monthly CL-17 Chlorine Analyzer Maintenance Records indicates that the free chlorine analyzer was verified at least monthly from October 2019 to March 2021.

A review of the Instrumentation Calibration/Maintenance Report indicates that the filter effluent turbidity meters for Filter No. 1 and 2 were calibrated in October 2019, January 2020, April 2020, July 2020, October 2020 and January 2021.

Operations Manuals

- **The operations and maintenance manuals contained plans, drawings and process descriptions sufficient for the safe and efficient operation of the system.**
- **The operations and maintenance manuals met the requirements of the Drinking Water Works Permit and Municipal Drinking Water Licence issued under Part V of the SDWA.**

Logbooks

- **Records or other record keeping mechanisms confirmed that operational testing not performed by continuous monitoring equipment was being done by a certified operator, water quality analyst, or person who suffices the requirements of O. Reg. 170/03 7-5.**

Security

Security

- **The owner had provided security measures to protect components of the drinking water system.**

The Latchford Water Treatment Plant is kept locked when operators are not onsite, is fenced, and has an intruder alarm.

Certification and Training

- **The overall responsible operator had been designated for each subsystem.**
Rico Guindon is the designated Operator with Overall Responsibility for the Latchford Drinking Water System.
- **Operators-in-charge had been designated for all subsystems which comprised the drinking water system.**
- **All operators possessed the required certification.**
- **Only certified operators made adjustments to the treatment equipment.**

Water Quality Monitoring

- **All microbiological water quality monitoring requirements for distribution samples were being met.**

Section 10-2 of Schedule 10 of O.Reg. 170/03 requires the owner and operating authority for the system to ensure at least 8 water samples are collected monthly, with at least one of the samples being taken in each week, from the distribution system based on a population of 300. Samples must be tested for E.coli, total coliforms, and 25% of those samples tested for general background population expressed as colony counts on a heterotrophic plate count (HPC).

A review of the certificates of analysis for the inspection period indicate that at least eight distribution samples were taken each month and tested for E.coli, total coliform and 50% of those samples were tested for HPC.

- **All microbiological water quality monitoring requirements for treated samples were being met.**

Section 10-3 of Schedule 10 of O. Reg. 170/03 requires the owner and operating authority for the system to ensure at least one treated water sample is collected weekly and tested for E.coli, total coliforms, and general background population expressed as colony counts on a heterotrophic plate count (HPC).

A review of the certificates of analysis for the inspection period indicate that one treated water sample was taken weekly and tested for E.coli, total coliforms, and HPC.

- **All inorganic water quality monitoring requirements prescribed by legislation were conducted within the required frequency.**

Section 13-2 of Schedule 13 of O. Reg. 170/03 requires the owner and operating authority for the system to ensure at least one sample of treated water is collected every 12 months (+/- 30 days) and tested for every parameter set out in Schedule 23 (inorganics).

A review of the certificates of analysis for the inspection period indicate that treated water samples were taken on April 7th, 2020 and tested for Schedule 23 (inorganic) parameters.

- **All organic water quality monitoring requirements prescribed by legislation were conducted within the required frequency.**

Section 13-4 of Schedule 13 of O. Reg. 170/03 requires the owner and operating authority for the system to ensure at least one sample of treated water is collected every 12 months (+/- 30 days) and tested for every parameter set

Water Quality Monitoring

out in Schedule 24 (organics).

A review of the certificates of analysis for the inspection period indicate that treated water samples were taken on April 7th, 2020 and tested for Schedule 24 (organics) parameters.

- **All haloacetic acid water quality monitoring requirements prescribed by legislation are being conducted within the required frequency and at the required location.**

Section 13-6.1 of Schedule 13 of O. Reg. 170/03 requires the owner and operating authority for the system to ensure at least one water sample is collected every three months (+/- 30 days) from points in the distribution system likely to have an elevated potential for the formation of haloacetic acids and test for haloacetic acids (HAAs).

As of January 1st, 2020, the Ontario standard for HAAs is 80 ug/L expressed as a Running Annual Average of quarterly testing results. The four quarters begin on January 1, April 1, July 1, and October 1 of each year.

A review of the certificates of analysis indicates that sampling for HAAs was conducted on October 7th, 2019 (27 ug/L), January 6th, 2020 (55 ug/L), April 7th, 2020 (33 ug/L), July 6th, 2020 (115 ug/L), October 5th, 2020 (23 ug/L), and January 4th, 2021 (49 ug/L).

The Running Annual Average is 55 ug/L.

- **All trihalomethane water quality monitoring requirements prescribed by legislation were conducted within the required frequency and at the required location.**

Section 13-6 of Schedule 13 of O.Reg. 170/03 requires the owner and operating authority for the system to ensure at least one water sample is collected every three months (+/- 30 days) from points in the distribution system likely to have an elevated potential for the formation of trihalomethanes (THMs) and test for THMs.

A review of the certificates of analysis indicates that sampling for THMs was conducted on October 7th, 2019 (45.5 ug/L), January 6th, 2020 (64.4 ug/L), April 7th, 2020 (39.4 ug/L), July 6th, 2020 (107 ug/L), October 5th, 2020 (53.5 ug/L), and January 4th, 2021 (51.7 ug/L).

The Running Annual Average is 62.9 ug/L.

As of January 1st, 2016, the Ontario standard for THMs is 0.1 mg/L, expressed as a Running Annual Average (RAA) of quarterly testing results. The four quarters begin on January 1, April 1, July 1, and October 1 of each year.

- **All nitrate/nitrite water quality monitoring requirements prescribed by legislation were conducted within the required frequency for the DWS.**

Section 13-7 of Schedule 13 of O. Reg. 170/03 requires the owner and operating authority for the system to ensure at least one treated water sample is collected every three months (+/- 30 days) and tested for nitrite and nitrate.

A review of the certificates of analysis for the inspection period indicates that sampling for nitrite and nitrate occurred on October 7th, 2019, January 6th, 2020, April 7th, 2020, July 6th, 2020, October 5th, 2020, and January 4th, 2021.

- **All sodium water quality monitoring requirements prescribed by legislation were conducted within the required frequency.**

Section 13-8 of Schedule 13 of O.Reg. 170/03 requires the owner and operating authority for the system to ensure at least one treated water sample is collected every 60 months (+/- 90 days) and tested for sodium.

A review of the certificates of analysis for the inspection period indicates that a treated water sample was taken on

Water Quality Monitoring

April 6th, 2020 and tested for sodium.

- **All fluoride water quality monitoring requirements prescribed by legislation were conducted within the required frequency.**

Section 13-9 of Schedule 13 of O.Reg. 170/03 requires the owner and operating authority for the system to ensure at least one treated water sample is collected every 60 months (+/- 90 days) and tested for fluoride.

A review of the certificates of analysis for the inspection period indicates that a treated water sample was taken on April 6th, 2020 and tested for fluoride.

- **Records confirmed that chlorine residual tests were being conducted at the same time and at the same location that microbiological samples were obtained.**

Water Quality Assessment

- **Records showed that all water sample results taken during the inspection review period did not exceed the values of tables 1, 2 and 3 of the Ontario Drinking Water Quality Standards (O.Reg. 169/03).**

Reporting & Corrective Actions

- **Where required continuous monitoring equipment used for the monitoring of chlorine residual and/or turbidity triggered an alarm or an automatic shut-off, a qualified person responded in a timely manner and took appropriate actions.**

NON-COMPLIANCE WITH REGULATORY REQUIREMENTS AND ACTIONS REQUIRED

This section provides a summary of all non-compliance with regulatory requirements identified during the inspection period, as well as actions required to address these issues. Further details pertaining to these items can be found in the body of the inspection report.

Not Applicable

SUMMARY OF RECOMMENDATIONS AND BEST PRACTICE ISSUES

This section provides a summary of all recommendations and best practice issues identified during the inspection period. Details pertaining to these items can be found in the body of the inspection report. In the interest of continuous improvement in the interim, it is recommended that owners and operators develop an awareness of the following issues and consider measures to address them.

Not Applicable

SIGNATURES

Inspected By:

Erin Spires

Signature: (Provincial Officer)

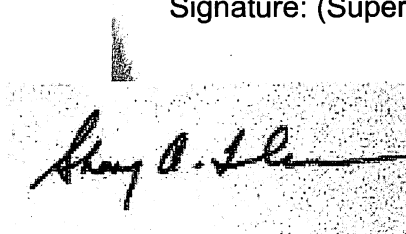


04/14/2021

Reviewed & Approved By:

Sherry Ilersich

Signature: (Supervisor)



Digitally signed by Sherry Ilersich
DN: cn=Sherry Ilersich, o=Ministry of
the Environment Conservation and
Parks, ou=DWECD,
email=sherry.ilersich@ontario.ca, c=CA
Date: 2021.04.16 10:04:20 -04'00'

Review & Approval Date:

Note: This inspection does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they apply or may apply to this facility. It is, and remains, the responsibility of the owner and/or operating authority to ensure compliance with all applicable legislative and regulatory requirements.

**APPENDIX A –
INSPECTION SUMMARY RATING RECORD (IRR)**

Ministry of the Environment - Inspection Summary Rating Record (Reporting Year - 2020-2021)

DWS Name:	LATCHFORD DRINKING WATER SYSTEM
DWS Number:	210000960
DWS Owner:	Latchford, The Corporation Of The Town Of
Municipal Location:	Latchford

Regulation: O.REG 170/03
Category: Large Municipal Residential System
Type Of Inspection: Focused
Inspection Date: March 10, 2021
Ministry Office: North Bay Area Office

Maximum Question Rating: 436

Inspection Module	Non-Compliance Rating
Source	0 / 0
Capacity Assessment	0 / 30
Treatment Processes	0 / 56
Operations Manuals	0 / 28
Logbooks	0 / 14
Certification and Training	0 / 42
Water Quality Monitoring	0 / 112
Reporting & Corrective Actions	0 / 21
Treatment Process Monitoring	0 / 133
TOTAL	0 / 436

Inspection Risk Rating	0.00%
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FINAL INSPECTION RATING:	100.00%
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Ministry of the Environment - Detailed Inspection Rating Record (Reporting Year - 2020-2021)

DWS Name: LATCHFORD DRINKING WATER SYSTEM
DWS Number: 210000960
DWS Owner: Latchford,The Corporation Of The Town Of
Municipal Location: Latchford

Regulation: O.REG 170/03
Category: Large Municipal Residential System
Type Of Inspection: Focused
Inspection Date: March 10, 2021
Ministry Office: North Bay Area Office

Maximum Question Rating: 436

Inspection Risk Rating | 0.00%

FINAL INSPECTION RATING: | 100.00%

**APPENDIX B –
LISTING OF KEY REFERENCE AND GUIDANCE MATERIAL**

Key Reference and Guidance Material for Municipal Residential Drinking Water Systems

Many useful materials are available to help you operate your drinking water system. Below is a list of key materials owners and operators of municipal residential drinking water systems frequently use.

To access these materials online click on their titles in the table below or use your web browser to search for their titles. Contact the Ministry if you need assistance or have questions at 1-866-793-2588 or waterforms@ontario.ca.

For more information on Ontario's drinking water visit www.ontario.ca/drinkingwater



PUBLICATION TITLE	PUBLICATION NUMBER
FORMS:	
Drinking Water System Profile Information	012-2149E
Laboratory Services Notification	012-2148E
Adverse Test Result Notification	012-4444E
Taking Care of Your Drinking Water: A Guide for Members of Municipal Councils	Website
Procedure for Disinfection of Drinking Water in Ontario	Website
Strategies for Minimizing the Disinfection Products Trihalomethanes and Haloacetic Acids	Website
Filtration Processes Technical Bulletin	Website
Ultraviolet Disinfection Technical Bulletin	Website
Guide for Applying for Drinking Water Works Permit Amendments, & License Amendments	Website
Certification Guide for Operators and Water Quality Analysts	Website
Guide to Drinking Water Operator Training Requirements	9802E
Community Sampling and Testing for Lead: Standard and Reduced Sampling and Eligibility for Exemption	Website
Drinking Water System Contact List	7128E01
Ontario's Drinking Water Quality Management Standard - Pocket Guide	Website
Watermain Disinfection Procedure	Website
List of Licensed Laboratories	Website

Principaux guides et documents de référence sur les réseaux résidentiels municipaux d'eau potable

De nombreux documents utiles peuvent vous aider à exploiter votre réseau d'eau potable. Vous trouverez ci-après une liste de documents que les propriétaires et exploitants de réseaux résidentiels municipaux d'eau potable utilisent fréquemment. Pour accéder à ces documents en ligne, cliquez sur leur titre dans le tableau ci-dessous ou faites une recherche à l'aide de votre navigateur Web. Communiquez avec le ministère au 1-866-793-2588, ou encore à waterforms@ontario.ca si vous avez des questions ou besoin d'aide.



Pour plus de renseignements sur l'eau potable en Ontario, consultez le site www.ontario.ca/eaupotable

TITRE DE LA PUBLICATION	NUMÉRO DE PUBLICATION
Renseignements sur le profil du réseau d'eau potable	012-2149F
Avis de demande de services de laboratoire	012-2148F
Avis de résultats d'analyse insatisfaisants et de règlement des problèmes	012-4444F
Prendre soin de votre eau potable - Un guide destiné aux membres des conseils municipaux	Site Web
Marche à suivre pour désinfecter l'eau potable en Ontario	Site Web
Stratégies pour minimiser les trihalométhanes et les acides haloacétiques de sous-produits de désinfection	Site Web
Filtration Processes Technical Bulletin (en anglais seulement)	Site Web
Ultraviolet Disinfection Technical Bulletin (en anglais seulement)	Site Web
Guide de présentation d'une demande de modification du permis d'aménagement de station de production d'eau potable	Site Web
Guide sur l'accréditation des exploitants de réseaux d'eau potable et des analystes de la qualité de l'eau de réseaux d'eau potable	Site Web
Guide sur les exigences relatives à la formation des exploitants de réseaux d'eau potable	9802F
Échantillonnage et analyse du plomb dans les collectivités : échantillonnage normalisé ou réduit et admissibilité à l'exemption	Site Web
Liste des personnes-ressources du réseau d'eau potable	Site Web
L'eau potable en Ontario - Norme de gestion de la qualité - Guide de poche	Site Web
Procédure de désinfection des conduites principales	Site Web
Laboratoires autorisés	Site Web