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Climate Change
Safe Drinking Water Branch
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Ministère de l'Environnement et de
l'Action en matière de changement
climatique
Direction du contrôle de la qualité de
l'eau potable
Bureau du secteur de Kenora
808, rue Robertson
2e étage,
Kenora ON P9N 1X9
Tél.: 807-468-2727
Télec.: 807-468-2735
Sans Frais: 1-888-367-7622



July 21, 2016

Sunny Cove Camp
320 Portage Ave.
Fort Frances, P9A 3P9

Dear Mr. Herr:

Re: Sunny Cove Camp Inspection Report – July 12, 2016

Thank you for your time and cooperation during my inspection of the Sunny Cove Camp Well Supply, conducted on July 12, 2016. Enclosed is the final inspection report.

Two non-compliance issues were identified, all of which require action on your part, as owner of the drinking water system, to bring the facility into compliance with Ontario's drinking water legislation. Non-compliance issues are those which contravene regulatory requirements. Specific actions must be taken to address each non-compliance item, within a required timeframe. Non-compliance issues and required actions are described on page 9 of the inspection report.

If you have any questions or concerns about the contents of this letter, inspection report or if you would like to discuss Ontario's drinking-water legislation, please contact me at 807-468-2727.

Regards,

A handwritten signature in cursive script that reads "CLacroix".

Carolyn Lacroix
Drinking Water Inspector
Kenora Area

CL/cl

cc. The Township of Fort Frances

P.O. Box 38
320 Portage Ave.,
Fort Frances, Ontario
P9A 3P9

Attention: Doug Herr, Environment and Facilities Superintendent, Town of Fort Frances

cc. The Township of Fort Frances
P.O. Box 38
320 Portage Ave.,
Fort Frances, Ontario
P9A 3P9

Attention: Randy White, Fort Frances WTP Overall Responsible Operator

cc. Northwestern Health Unit
21 Wolsley Street
Kenora, Ontario
P9N 3W7

Attention: Thomas Nabb

cc. Ministry of the Environment
435 James Street South
Suite 331
Thunder Bay, Ontario
P7E 6S7

Attention: Dave Manol, Drinking Water Supervisor

cc. Kenora Area Office
File Number: RR WA H11 - 540A



Ministry of the Environment and Climate Change

**SUNNY COVE CAMP WELL SUPPLY
Inspection Report**

Site Number:	260060762
Inspection Number:	1-CNS35
Date of Inspection:	Jul 12, 2016
Inspected By:	Carolyn Lacroix

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OWNER INFORMATION:

Company Name:	FORT FRANCES, THE CORPORATION OF THE TOWN OF		
Street Number:	320	Unit Identifier:	
Street Name:	PORTAGE Ave		
City:	FORT FRANCES		
Province:	ON	Postal Code:	P9A 3P9

CONTACT INFORMATION**INSPECTION DETAILS:**

Site Name:	SUNNY COVE CAMP WELL SUPPLY
Site Address:	PT LOT 36, CONC. 1&2 PARTS 1,2,3,6,7,9,10 WATTEN TOWNSHIP
County/District:	Rainy River Town
MOECC District/Area Office:	Kenora Area Office
Health Unit:	NORTHWESTERN HEALTH UNIT
Conservation Authority:	
MNR Office:	Fort Frances District Office
Category:	Small Municipal Non-Residential
Site Number:	260060762
Inspection Type:	Announced
Inspection Number:	1-CNS35
Date of Inspection:	Jul 12, 2016
Date of Previous Inspection:	Sep 01, 2010

COMPONENTS DESCRIPTION

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

Site (Name):		Sub Type:	
Type:	Other		

Comments:

The Sunny Cove Camp is owned and operated by the Town of Fort Frances as of November 1, 2009. The camp is rented to separate user-groups throughout the operational season between May and September. The camp is primarily rented to church groups for use as a children's camp.

Sunny Cove Camp can accommodate up to 118 visitors; Russell Hall can seat up to 200 visitors.

Site (Name):		Sub Type:	Ground Water
Type:	Other		

Comments:

The Sunny Cove Children's camp provides water service to five of the eleven cabins located throughout the camp which include Russell Hall, Cabin #7, Washroom Cabin, Care Taker Cabin, and McGregor Hall. The water is supplied by means of a drilled well, which was constructed in June of 2000. The well casing is six-inches in diameter and consists of a 0.188 inch thick steel tube that extends to a depth of 22 meters below ground-level. The

recommended pumping rate, indicated on the well record, is eight gallons per minute. The well is protected by a pumphouse and is located approximately 30m east of Rainy Lake and 5m north of the Russell Hall cabin. The septic field and sewage tanks are located approximately 100m east and 40m south of the well respectively. The water treatment system consists of dual cartridge filtration system complete with 5 micron filters, and a liquid chlorine disinfection system complete with dual chlorine metering pumps, double-wall chemical solution tank and dual chlorine contact tanks.

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

In 2010, the municipality upgraded the treatment system and installed the following equipment:

- installed a R-CAN Sanitizer for iron removal, manganese removal and water softening. The R-CAN Sanitizer has a backwash cycle that will use either treated or raw water depending on the timing of the cycle and whether the pump is on or off.
- moved the raw water sample tap prior to the iron removal and water softening processes
- moved the chlorine solution tank and chlorine metering pumps so chlorine is injected prior to water going through the pressure tank and flow meter
- removed the flow switch that is used to control the operation of the chlorine metering pumps (previous system allowed water to be by-passed without chlorination). The new system operates between 40 to 60 PSI, when pressure drops below 40 PSI, the well pump and one chlorine meter will come on (2nd chlorine pump is a standby).

A 7USGPM flow restrictor is installed on the well's discharge line to limit the rate of supply. This flow rate enables the water supply system to be classified as a ground water source.

INSPECTION SUMMARY:

Introduction

- The primary focus of this inspection is to confirm compliance with Ministry of the Environment and Climate Change (MOECC) legislation as well as conformance with ministry drinking water policies and guidelines during the inspection period. The ministry utilizes a comprehensive, multi-barrier approach in the inspection of this drinking water system focusing on the water source, treatment components, applicable distribution components, sampling and monitoring programs, and response to adverse water quality incidents.

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

The field inspection was conducted on July 12, 2016, by the undersigned officer, Carolyn Lacroix.

The inspection included a tour of the facility, document review, interview with system personnel and collection of a water sample. Unless otherwise stated, the inspection review period includes the 2015 and 2016 operating season, to the date of this inspection. Text highlighted in bold type is computer-generated based on information provided by the undersigned officer. Supporting documentation, in regular font, has been added to qualify standard responses and to provide additional guidance.

Source

- **The drinking water system was registered with the Ministry and the required notices containing information about the system have been provided to the Ministry.**

The Sunny Cove Camp Drinking Water System is registered as a small municipal non-residential system serving a designated facility (i.e., a children's camp). The waterworks number is 260060762.

- **All changes to the system registration information were provided within ten (10) days of the change.**
- **The owner was maintaining the well(s) in a manner sufficient to prevent entry of surface water and foreign materials.**

The wellhead is located within a locked pumphouse. The casing extends well above the pumphouse floor and is affixed with a vermin-proof cap. The area surrounding the pumphouse appeared to have adequate drainage to prevent water from pooling in the vicinity of the wellhead.

Treatment Processes

- **An Engineering Evaluation Report was prepared as required by Schedule 21 of O. Reg. 170/03.**

An Engineer visited Sunny Cove Camp Well Supply on May 31, 2006 and a report was prepared by Engineering Northwest Ltd in accordance with O.Reg. 170/03. Since then, upgrades have been made to the drinking water system. Prior to the changes being made, the MOE's Approvals Branch reviewed the alterations and deemed that a new EER was not required. Alterations to the system were completed in the spring of 2010.

- **The system is capable of providing the required minimum level of treatment, as confirmed by a statement prepared by a licensed engineering practitioner.**

Treatment Processes

The water treatment system consists of a dual cartridge filtration system complete with 5 micron filters, and a liquid chlorine disinfection system complete with duty and standby chlorine metering pumps, double-wall chemical solution tank and dual chlorine contact tanks. The report states that "the water treatment system at the Sunny Cove Children's Camp, in our opinion, complies with Schedule 2 of O. Reg. 170/03 and the equipment required to ensure compliance with Schedule 6 and 9 of O. Reg. 170/03 is provided". All the required equipment outlined in the EER that is required to provide adequate treatment was in place and functional at the time of the inspection.

- **Records indicated that the treatment equipment was operated in accordance with O. Reg. 170/03 at all times that water was being supplied to consumers.**

O. Reg. 170/03, section 2-3(1), requires that the owner of a drinking water system that obtains water from a raw water supply that is ground water shall ensure provision of water treatment equipment that is designed to be capable of achieving, at all times, primary disinfection in accordance with the Ministry's Procedure for Disinfection of Drinking Water in Ontario, including at least 99 percent removal or inactivation of viruses by the time, water enters the distribution system.

This system uses chlorination for primary disinfection. The EER states that CT will be achieved directly after the contact tanks, in the well pumphouse as long as the chlorine residual in the system is kept above 0.6 mg/L. A review of the log book records demonstrates that this was achieved for the review period. The lowest observed chlorine residual during the inspection review period was 0.64 mg/L on July 9, 2016.

- **Records indicated that the treatment equipment was maintained in accordance with the requirements of Ontario Regulation 170/03.**

Upon opening the system for the season, the distribution lines are flushed and the treatment equipment filters are replaced. The filters are changed once more during the operating season. In the fall the system is drained and the distribution lines are blown out with air prior to closing the system for the winter. Maintenance activities are documented in the log book.

Logbooks

- **For every required operational test and every required sample, a record was not made of the date, time, location, name of the person conducting the test and result of the test.**

O. Reg. 170/03, Schedule 6, section 6-10, states that the owner of a drinking water system and the operating authority for the system shall ensure that, for every sample required by this Regulation, by an approval, or order, a record is made of the following information:

1. The date and time the sample was taken, the location where the sample was taken and the name of the person who took the sample.
2. If the sample is taken under section 7 of the Regulation or Schedule 7, 8 or 9, the date and time the sample was tested, the name of the person who conducted the test, and the results of the test.

Two separate logs are being maintained for this drinking water system. One is kept in the caretaker's house where distribution chlorine residuals are recorded and the other is kept in the pump house and includes maintenance work, treated chlorine residuals and sometimes distribution chlorine residuals. All entries include the date, time, name of the person conducting the test and result of the test; however, the location of a sample is not always recorded. This was typically observed in the pump house log book.

Consumer Relations

- **Required documents were made available free-of-charge during normal business hours at a location accessible to the public.**

Section 12 of O. Reg. 170/03 dictates what information must be available for inspection at the office of the owner or, if the office of the owner is not reasonably convenient to users of water from the system, at a location that is reasonable and convenient to the users. Information that must be made available includes:

Consumer Relations

- A copy of every test result that is no more than two years old that was obtained in respect of a test required under O. Reg. 170/03, or under an approval or order;
 - A copy of every approval and every order that applies to the system and is still in effect;
 - A copy of every annual report prepared under Section 11 of Ontario Regulation 170/03;
 - A copy of Ontario Regulation 170/03 as amended and,
 - A copy of every Engineering Evaluation Report prepared under Schedule 21 of Ontario Regulation 170/03.
- All of the above mentioned documents were made readily available to the public at the Fort Frances Water Treatment Plant

Certification and Training

- **All operators and trained persons did possess the required certification/designation.**

Small municipal non-residential systems serving a designated facility require a trained person to operate the system. Sunny Cove Camp Well Supply is a limited groundwater subsystem that is operated by a trained person who lives on-site and three operators that also operate at the Fort Frances Water Treatment Plant.

Water Quality Monitoring

- **Raw water microbiological sampling requirements prescribed by legislation have been met.**

Raw water samples must be collected at least once per month from each well that is in operation and tested for *Escherichia coli* and total coliform bacteria, as per O. Reg. 170/03, Section 11-3. This requirement was met throughout the inspection review period.

- **Distribution system microbiological sampling requirements prescribed by legislation had been met.**

Schedule 12-2 requires that the owner of a drinking water system ensure that at least one distribution sample is taken every month, if the system provides treatment equipment in accordance with Schedule 2 and the equipment is operated in accordance with that Schedule. Each of the samples taken are to be tested for *Escherichia coli*, total coliforms and general bacteria populations expressed as colony counts on a heterotrophic plate count. This was met throughout the inspection review period.

- **The system was shut-down/closed for seven or more consecutive days and microbiological sampling was conducted and the results were received before drinking water was supplied to consumers after that period.**

In both operating seasons microbiological samples were taken and the results received prior to the camp opening for the season. In 2015, microbiological samples were taken on May 10 and 11, 2015 and the camp opened on June 12, 2015. In 2016, microbiological samples were taken on May 11 and 12, 2016 and the camp opened on June 10, 2016.

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

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

Inorganic parameters listed in Schedule 23 and organic parameters listed in Schedule 24 are required to be taken once every 60 months as per O. Reg. 170/03, Schedule 15, section 15-2.

All inorganic and organic samples were last sampled on May 13, 2014 and had previously been sampled on June 2, 2009. This meets the requirements of O. Reg. 170/03. The next set of inorganic and organic samples are required to be taken by June 2, 2019 (+/- 90 days).

- **All nitrate/nitrite water quality monitoring requirements prescribed by legislation were not conducted within**

Water Quality Monitoring

the required frequency.

Schedule 15, section 15-4(1) requires that the owner of a drinking water system and the operating authority for the system to ensure that at least one water sample is taken every three months (+/- 30 days) and tested for nitrate and nitrite.

During the inspection review period nitrate and nitrite samples were taken on May 20, 2015; October 13, 2015 and May 10, 2016. The length of time between the samples taken in 2015 exceeds the amount of time allowed between samples.

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

Section 15-5, O. Reg. 170/03, requires drinking water system owners and operating authorities to ensure that at least one water sample is taken every 60 months and tested for sodium. Sodium was last sampled on May 13, 2014 and had previously been sampled on June 11, 2009. This meets the requirements of O. Reg. 170/03. The next sodium sample is required to be taken by May 13, 2019 (+/- 90 days).

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

Section 15-6, O. Reg. 170/03, requires drinking water system owners and operating authorities to ensure that at least one water sample is taken every 60 months and tested for fluoride. Fluoride was last sampled on May 13, 2014 and had previously been sampled on June 11, 2009. The next fluoride sample is required to be taken May 13, 2019 (+/- 90 days).

- **All sampling requirements for lead prescribed by Schedule 15.2 of O. Reg. 170/03 were being met.**

Subsections 15.2-2 (1) and (2), Schedule 15.2, O. Reg. 170/03 requires owners and operating authorities of drinking water systems to ensure that at least one distribution sample is taken every 12 months, from a point in the drinking-water system's distribution system or in plumbing that is connected to the drinking-water system that is likely to have an elevated concentration of lead and to test the sample for lead.

A lead sample was taken on May 10, 2016 and had previously been sampled on May 12, 2015 and October 13, 2015. This meets the requirements of O. Reg. 170/03.

- **Water samples were taken at the prescribed location.**

The following samples are taken from the treated water tap in the pumphouse, prior to water being sent to the distribution system:

Nitrate/nitrite samples

Inorganic and Organic (Schedules 23/24 parameters) samples

Sodium

Fluoride

- **Chlorine monitoring for primary disinfection was being done in accordance with regulatory requirements.**

Treated water chlorine residuals must be sampled daily (after treatment has been completed and prior to distribution), when the camp is open, in order to comply with the requirements of Subsection 9-3(1) of Schedule 9, O. Reg. 170/03. This requirement was met throughout the inspection review period.

- **Chlorine monitoring for secondary disinfection was being done in accordance with regulatory requirements.**

Regulatory requirements state that distribution chlorine residuals must be taken at least twice weekly and at least 48 hours apart. Records reviewed for the inspection review period demonstrated that free chlorine residuals were measured in the distribution system whenever the camp was open.

Water Quality Monitoring

- **Chlorine monitoring was being done with an appropriate device.**

Sunny Cove Camp uses a HACH Pocket Colorimeter to measure chlorine residuals. This device has an electronic digital read out.

Water Quality Assessment

- **Records show that all water sample results taken during the review period met the Ontario Drinking Water Quality Standards.**
- **Results of Ministry audit sampling met the standards included in the Ontario Drinking Water Quality Standards (O. Reg. 169/03) and O. Reg 170/03.**

A microbiological sample was taken from the distribution system and came back without the presence of bacteria.

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.

1 For every required operational test and every required sample, a record was not made of the date, time, location, name of the person conducting the test and result of the test.

O. Reg. 170/03, Schedule 6, section 6-10, states that the owner of a drinking water system and the operating authority for the system shall ensure that, for every sample required by this Regulation, by an approval, or order, a record is made of the following information:

1. The date and time the sample was taken, the location where the sample was taken and the name of the person who took the sample.
2. If the sample is taken under section 7 of the Regulation or Schedule 7, 8 or 9, the date and time the sample was tested, the name of the person who conducted the test, and the results of the test.

During the inspection review period, the above criteria was not always met. The location of where a chlorine residual is taken is not always recorded.

Action(s) Required:

Effective immediately the owner shall ensure that when a sample is taken all the required information is documented as per O. Reg. 170/03, Schedule 6, section 6-10, including the location of where the sample was taken.

2 All nitrate/nitrite water quality monitoring requirements prescribed by legislation were not conducted within the required frequency.

Schedule 15, section 15-4(1) requires that the owner of a drinking water system and the operating authority for the system to ensure that at least one water sample is taken every three months (+/- 30 days) and tested for nitrate and nitrite.

During the inspection review period nitrate and nitrite samples were taken on May 20, 2015; October 13, 2015 and May 10, 2016. The length of time between the samples taken in 2015 exceeds the amount of time allowed between samples.

Action(s) Required:

Effective immediately the owner shall ensure that nitrate/nitrite samples are taken every 3 months (+/- 30 days) in accordance with O. Reg. 170/03, Schedule 15, section 15-4(1).

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:
Carolyn Lacroix

Signature: (Provincial Officer)

Reviewed & Approved By:
Dave Manol

Signature: (Supervisor)

Review & Approval Date: July 21, 2016

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.

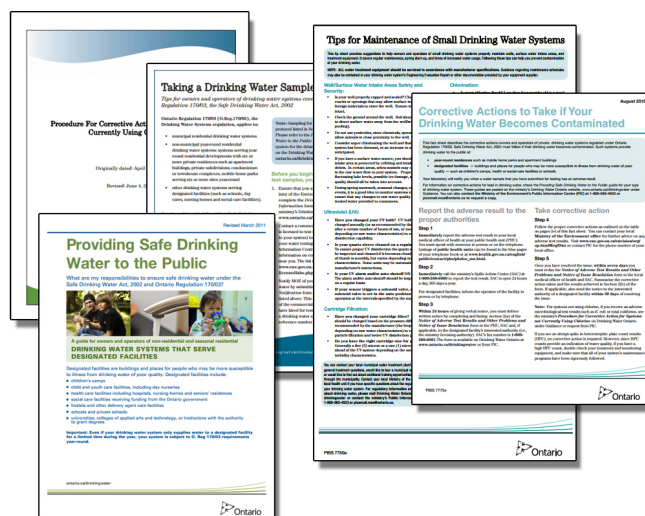
Key Reference Materials

Key Reference and Guidance Material for Drinking Water Systems Serving Designated Facilities

Many useful materials are available to help you operate your drinking water system. Below is a list of key materials owners and operators of drinking water systems serving designated facilities 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 Public Information Centre if you need assistance or have questions at 1-800-565-4923/416-325-4000 or picemail.moe@ontario.ca.

For more information on Ontario's drinking water visit www.ontario.ca/drinkingwater and email drinking.water@ontario.ca to subscribe to drinking water news



PUBLICATION TITLE	PUBLICATION NUMBER
FORMS: Drinking Water System Profile Information, Laboratory Services Notification, Adverse Test Result Notification	7419e, 5387e, 4444e
Providing Safe Drinking Water to the Public: A Guide for Owners and Operators of Non-Residential and Seasonal Residential Drinking Water Systems that Serve Designated Facilities	5361e01
Taking a Drinking Water Sample for Testing – Tips for Owners and Operators of Drinking Water Systems Covered by Ontario Regulation 170/03	5744e
Tips for Maintenance of Small Drinking Water Systems	7780e
Corrective Actions to Take if Your Drinking Water Becomes Contaminated	7775e
Drinking Water System Contact List	7128e
Procedure for Disinfection of Drinking Water in Ontario	4448e01
Procedure for Corrective Action for Systems Not Currently Using Chlorine	4414e01
Protecting Groundwater to Protect Health	6969e
Technical Support Document for Ontario Drinking Water Quality Standards, Objectives and Guidelines	4449e01
Required Qualifications to Operate, Test or Sample Drinking Water Systems Under the Safe Drinking Water Act, 2002	6555e
Steps to Become a Trained Person	5748e

ontario.ca/drinkingwater

Principaux guides et documents de référence sur les réseaux d'eau potable desservant des établissements désignés

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 d'eau potable desservant des établissements désignés 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 Centre d'information au public au 1 800 565-4923 ou au 416 325-4000, ou encore à picemail.moe@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 ou envoyez un courriel à drinking.water@ontario.ca pour suivre l'information sur l'eau potable.

TITRE DE LA PUBLICATION	NUMÉRO DE PUBLICATION
Renseignements sur le profil du réseau d'eau potable, Avis de demande de services de laboratoire, Formulaire de communication de résultats d'analyse insatisfaisants et du règlement des problèmes	7419f, 5387f, 4444f
Distribution d'eau potable saine au public : Guide pour les propriétaires et les exploitants de réseaux d'eau potable non résidentiels et résidentiels saisonniers qui desservent des établissements désignés	5361f01
Prélèvement d'échantillons d'eau pour des analyses - Conseils pour les propriétaires et les exploitants de réseaux d'eau potable visés par le Règlement de l'Ontario 170/03	5744f
Conseils pour assurer l'entretien d'un petit réseau de distribution d'eau potable	7780f
Mesures à prendre si votre eau potable devient contaminée	7775f
Liste des personnes-ressources du réseau d'eau potable	7128f
Marche à suivre pour désinfecter l'eau potable en Ontario	4448f01
Mesures correctives à prendre pour les réseaux n'utilisant pas de chlore	4414f01
Protéger l'eau souterraine, c'est protéger la santé	6969f
Document d'aide technique pour les normes, directives et objectifs associés à la qualité de l'eau potable en Ontario	4449f01
Qualifications nécessaires pour exploiter, analyser ou échantillonner des réseaux de distribution d'eau potable conformément à la <i>Loi de 2002 sur la salubrité de l'eau potable</i>	6555f
Étapes à suivre pour devenir une « personne qualifiée »	5748f

ontario.ca/eaupotable

Audit Sample Results



ONT MOE - Northern Region
ATTN: Carolyn Lacroix
808 Robertson St. 2nd Floor
Kenora ON P9N 1X9

Date Received: 13-JUL-16
Report Date: 19-JUL-16 20:44 (MT)
Version: FINAL

Client Phone: 807-468-2727

Certificate of Analysis

Lab Work Order #: L1797179

Project P.O. #: OSS60844

Job Reference: 260060762

C of C Numbers:

Legal Site Desc:

Danielle Drawson, HBSc.
Project Manager

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ADDRESS: 1081 Barton Street, Thunder Bay, ON P7B 5N3 Canada | Phone: +1 807 623 6463 | Fax: +1 807 623 7598
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CRITERIA REPORT

L1797179 CONTD....

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19-JUL-16 20:46:12

260060762

Sample Details/Parameters		Result	Qualifier	D.L.	Units	Criteria Specific Limits		Analyzed	Batch
L1797179-2	CARE TAKERS HOME								
Sampled By:	CL on 12-JUL-16 @ 12:45								
Matrix:	WATER								
Individual Analytes									
Total Coliform & E.coli Presence/Absence									
Total Coliforms		Absent			p/a/100mL			13-JUL-16	R3503246
Escherichia Coli		Absent			p/a/100mL			13-JUL-16	R3503246

* Detection Limit for result exceeds Criteria Specific Limit. Assessment against Criteria Limit cannot be made.

** Analytical result for this parameter exceeds Criteria Specific Limit listed on this report.

Reference Information

260060762

L1797179 CONTD....

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19-JUL-16 20:46:12

Methods Listed (if applicable):

ALS Test Code	Matrix	Test Description	Preparation Method Reference(Based On)	Analytical Method Reference(Based On)
TC,EC-P/A-TB	Water	Total Coliform & E.coli Presence/Absence		APHA 9223 B
This analysis is carried out using procedures adapted from APHA Method 9223 "Enzyme Substrate Coliform Test". E. coli and Total Coliform are determined simultaneously. The sample is mixed with a mixture of hydrolyzable substrates and then incubated for 18 or 24 hours. The qualitative results are then obtained.				

Laboratory Methods employed follow in-house procedures, which are generally based on nationally or internationally accepted methodologies.

Chain of Custody numbers:

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location	Laboratory Definition Code	Laboratory Location
TB	ALS ENVIRONMENTAL - THUNDER BAY, ONTARIO, CANADA		

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Application of criteria limits is provided as is without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information.



Quality Control Report

Workorder: L1797179

Report Date: 19-JUL-16

Page 1 of 2

Client: ONT MOE - Northern Region
808 Robertson St. 2nd Floor
Kenora ON P9N 1X9

Contact: Carolyn Lacroix

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
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Quality Control Report

Workorder: L1797179

Report Date: 19-JUL-16

Client: ONT MOE - Northern Region
808 Robertson St. 2nd Floor
Kenora ON P9N 1X9

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Contact: Carolyn Lacroix

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



ALS Thunder Bay, 1081 Barton Street. Thunder Bay, ON P7B 5N3
Ph: 807-623-6463 Fax: 807-623-7598 Toll-Free 1-800-668-9878

~~DRINKING WATER CHAIN OF CUSTODY:~~

Reg 170/03

PLEASE CIRCLE APPLICABLE REGULATION:

Reg 318/08 319/08

Reg 243

C of A

Is this a resample from an adverse water quality incident?

Yes ☐

No/ ☒[illegible]