Ministry of the Environment, Conservation and Parks Eastern Region Peterborough District Office 300 Water Street 2nd Floor, South Tower Peterborough ON K9J 3C7 Ministère de l'Environnement, de la Protection de la nature Et des Parcs Région de l'Est Bureau du district de Peterborough 300, rue Water 2º étage, Tour Sud Peterborough (Ontario) K9J 3C7



July 12, 2024.

Mr. Mike Timmins,
Director Of Public Works,
The Corporation of The Township of Minden Hills
7 Milne St, Post Office Box Delivery ,359, Minden, ON,
K0M 2K0

RE: 2024/25 Lutterworth Pines Drinking Water System Inspection Report 1-377373827

Please see the attached Ministry of the Environment, Conservation and Parks inspection report for the compliance inspection initiated at Lutterworth Pines Drinking Water System on June 13, 2024.

A section of the report entitled **NON-COMPLIANCE** are typically linked to incidents of non-compliance with regulatory requirements contained within the Environmental Compliance Approval and its associated Acts and Regulations. It should be noted that were no violations identified during this inspection.

Another section of the report entitled *RECOMMENDATIONS* conveys information that the owner or operating authority should consider implementing to advance efforts already in place. Please note that items which appear as recommendations do not, in themselves, constitute violations.

Thank you for the assistance afforded to me during this compliance assessment. Please do not hesitate to call me at 705-768-9502 or Ms. Brittney Wielgos, Supervisor (A), Safe Drinking Water Branch (705) 768-0436 should you have any questions or concerns regarding the above.

Yours truly,

Corey Biswanger Water Inspector Peterborough District Office

Enclosure (1)

Cc: Jeremy Manning, Senior Operations Manager, Ontario Clean Water Agency (Kawartha) Christine Craig, Process & Compliance Technician, Ontario Clean Water Agency (Kawartha) Natalie Bocking, Medical Officer of Health, HKPR District Health Unit Rhonda Bateman, CAO, Lower Trent Conservation





LUTTERWORTH PINES DRINKING WATER SYSTEM Physical Address: 11588 HIGHWAY 35, , MINDEN HILLS, ON KOM 2KO

INSPECTION REPORT

System Number: 260091936

Entity: CORPORATION OF THE

TOWNSHIP OF MINDEN HILLS **ONTARIO CLEAN WATER**

AGENCY

Inspection Start Date: June 12, 2024 Inspection End Date: July 11, 2024

Inspected By: Corey Biswanger

Badge #; 1814



INTRODUCTION

Purpose

This unannounced, focused inspection was conducted to confirm compliance with Ministry of the Environment, Conservation and Parks' (MECP) legislation and conformance with ministry drinking water policies and guidelines.

Scope

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 and the operation of the system.

The inspection of the drinking water system included both the physical inspection of the component parts of the system listed in section 4 "Systems Components" of the report and the review of data and documents associated with the operation of the drinking water system during the review period.

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 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.

Facility Contacts and Dates

The drinking water system is owned by The Corporation Of The Township Of Minden Hills and operated by Ontario Clean Water Agency (Kawartha).

The system serves an estimated population of 70 and is categorized as a Small Municipal Residential System. Information reviewed for this inspection covered the time period of June 15, 2023, to June 13, 2024.

Systems/Components

All locations associated with primary disinfection were visited as part of this inspection. The following sites were visited as part of the inspection of the drinking water system: Lutterworth Pines Drinking Water System.

Permissions/Approvals

This drinking water system was subject to specific conditions contained within the following permissions and/or approvals (please note this list is not exhaustive) at the time of the

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Ministry of the Environment, Conservation and Parks

Ministère de l'Environnement, de la Protection de la nature et des Parcs



inspection in addition to the requirements of the SDWA and its regulations: MDWL Licence Number: 246-102 Issue Number: 5 DWWP Permit Number: 246-202 Issue Number: 3, PTTW 7458-B2JNYL, issue date August 29, 2018.

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1. Drinking Water System Inspection Report

Appendix:

- A. Stakeholders Appendix
- **B.** Inspection Rating Record



NON-COMPLIANCE

This should not be construed as a confirmation of full compliance with all potential applicable legal requirements. These inspection findings are limited to the components and/or activities that were assessed, and the legislative framework(s) that were applied. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

If you have any questions related to this inspection, please contact the signed Provincial Officer.

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RECOMMENDATIONS

This should not be construed as a confirmation of full conformance with all potential applicable BMPs. These inspection findings are limited to the components and/or activities that were assessed, and the legislative framework(s) that were applied. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

If you have any questions related to this inspection, please contact the signed Provincial Officer.

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INSPECTION DETAILS

This section includes all questions that were assessed during the inspection.

Ministry Program: DRINKING WATER | Regulated Activity: DW Municipal Residential

Question ID	DWMR1007001	Question Type	Legislative
	equirement(s): eg. 170/03 1-2 (1)1;		
Ougstion:			

Question:

Was the owner maintaining the production well(s) in a manner sufficient to prevent entry into the well of surface water and other foreign materials?

Compliance Response(s)/Corrective Action(s)/Observation(s):

The owner was maintaining the production well(s) in a manner sufficient to prevent entry into the well of surface water and other foreign materials.

Question ID	DWMR1009001	Question Type	Legislative
Legislative Ro	equirement(s): 1);		

Question:

Were measures in place to protect the groundwater and/or GUDI source in accordance with the Municipal Drinking Water Licence and Drinking Water Works Permit?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Measures were in place to protect the groundwater and/or GUDI source.

Lutterworth Pines drinking water system is in the Haliburton-Kawartha Source Water Protection area.

Question ID	DWMR1014001	Question Type	Legislative
Legislative Requirement(s): SDWA 31 (1);			
Question: Was flow monitoring performed as required by the Municipal Drinking Water Licence or			

Drinking Water Works Permit?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Flow monitoring was performed as required.

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 Question ID
 DWMR1016001
 Question Type
 Legislative

 Legislative Requirement(s):
 SDWA | 31 | (1);

Question:

Was the owner in compliance with the conditions associated with maximum flow rate or the rated/operational capacity in the Municipal Drinking Water Licence?

Compliance Response(s)/Corrective Action(s)/Observation(s):

The owner was in compliance with the conditions associated with maximum flow rate and/or the rated/operational capacity conditions.

Review of the records provided indicates that the rated capacity of 120.4 m³/day was not exceeded. The observed maximum daily volume for the inspection period was 20.77 m³/day.

 Question ID
 DWMR1018001
 Question Type
 Legislative

 Legislative Requirement(s):
 SDWA | 31 | (1);

Question:

Did the owner ensure that equipment was installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit?

Compliance Response(s)/Corrective Action(s)/Observation(s):

The owner ensured that equipment was installed as required.

 Question ID
 DWMR1021001
 Question Type
 Legislative

 Legislative Requirement(s):
 SDWA | 31 | (1);

Question:

Were Form 2 documents prepared as required?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Form 2 documents were prepared as required.

It was confirmed that there was a Form 2 completed for the replacement of the flow meter for well 2 on April 25, 2024.

Question ID	DWMR1025001	Question Type	Legislative
Legislative R	equirement(s): 1);		

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Question:

Were all parts of the drinking water system that came in contact with drinking water disinfected in accordance with a procedure listed in Schedule B of the Drinking Water Works Permit?

Compliance Response(s)/Corrective Action(s)/Observation(s):

All parts of the drinking water system were disinfected as required.

Records indicated that the new flow meter for well 2 was disinfected prior installation on April 25, 2024.

Question ID	DWMR1023001	Question Type	Legislative
	equirement(s): g. 170/03 1-2 (2);		

Question:

Did records indicate that the treatment equipment was operated in a manner that achieved the design capabilities prescribed by O. Reg. 170/03, Drinking Water Works Permit and/or Municipal Drinking Water Licence at all times that water was being supplied to consumers?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Records indicated that the treatment equipment was operated in a manner that achieved the design capabilities prescribed.

Records provided during the document review indicated that the Lutterworth Pines drinking water system had been operated in a manner to meet the design capabilities required under Ontario Regulation 170/03. Records reviewed included turbidity readings, chlorine residuals at the point where primary disinfection had been achieved, logbooks, certificates of analysis, secondary disinfection residuals, and operator certificates.

Question ID	DWMR1024001	Question Type	Legislative
Legislative Requirement(s):			
SDWA O. Re	eg. 170/03 1-2 (2);		

Question:

Did records confirm that the water treatment equipment which provides chlorination or chloramination for secondary disinfection was operated as required?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Records confirmed that the water treatment equipment which provides chlorination or chloramination for secondary disinfection was operated as required.

Review of the records for this inspection period indicates that the lowest free chlorine residual measured in the distribution system was 0.90 mg/L.

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Question IDDWMR1034001Question TypeLegislative

Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 7-2 | (5); SDWA | O. Reg. 170/03 | 7-2 | (6);

Question:

Was secondary disinfectant residual tested as required for the small municipal residential distribution system?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Secondary disinfectant residual was tested as required.

Question ID DWMR1030001 Question Type Legislative

Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 7-2 | (1); SDWA | O. Reg. 170/03 | 7-2 | (2);

Question:

Was primary disinfection chlorine monitoring being conducted at a location approved by Municipal Drinking Water Licence and/or Drinking Water Works Permit or at/near a location where the intended CT had just been achieved?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Primary disinfection chlorine monitoring was conducted as required.

It was confirmed during the inspection that the chlorine analyzer gets it's water from a point past the chlorine contact tanks and before it goes to the distribution system.

Question IDDWMR1035001Question TypeLegislative

Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 6-5 | (1)1-4;

Question:

Were operators examining continuous monitoring test results and did they examine the results within 72 hours of the test?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Operators were examining continuous monitoring test results as required.

Question IDDWMR1038001Question TypeLegislative

Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 6-5 | (1)1-4;

Question:

Was continuous monitoring equipment that was being utilized to fulfill O. Reg. 170/03

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requirements performing tests for the parameters with at least the minimum frequency and recording data with the prescribed format?

Compliance Response(s)/Corrective Action(s)/Observation(s):

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 and recording data with the prescribed format.

It was confirmed during the inspection that the data logger records chlorine residuals once every minute.

Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 6-5 | (1)5-10; SDWA | O. Reg. 170/03 | 6-5 | (1.1);

Question:

Were 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, equipped with alarms or shut-off mechanisms that satisfied the standards described in Schedule 6?

Compliance Response(s)/Corrective Action(s)/Observation(s):

All required continuous monitoring equipment utilized for sampling and testing were equipped with alarms or shut-off mechanisms that satisfied the standards

It was confirmed during the inspection that the low chlorine alarm set point is 0.60 mg/L and the low, low chlorine alarm set point is 0.50 mg/L.

Question ID DWMR1040001 Question Type Legislative

Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 6-5 | (1)1-4; SDWA | O. Reg. 170/03 | 6-5 | (1)5-10;

Question:

Were all continuous analysers calibrated, maintained, and operated, in accordance with the manufacturer's instructions or the regulation?

Compliance Response(s)/Corrective Action(s)/Observation(s):

All continuous analysers were calibrated, maintained, and operated as required.

Question ID	DWMR1099001	Question Type	Information
1			

Legislative Requirement(s):

Not Applicable

Question:

Do records show that water provided by the drinking water system met the Ontario Drinking

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Water Quality Standards?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Records showed that all water sample results met the Ontario Drinking Water Quality Standards.

Question ID	DWMR1082001	Question Type	Legislative
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Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 11-2 | (1); SDWA | O. Reg. 170/03 | 11-2 | (2); SDWA | O. Reg. 170/03 | 11-2 | (6);

Question:

Were distribution microbiological sampling requirements prescribed by Schedule 11-2 of O. Reg. 170/03 for small municipal residential systems met?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Distribution microbiological sampling requirements were met.

Question ID	DWMR1096001	Question Type	Legislative
Legislative R	equirement(s):		
CDWA LO Dec 470/00 LC 0 L (4).			

SDWA | O. Reg. 170/03 | 6-3 | (1);

Question:

Did records confirm that chlorine residual tests were conducted at the same time and location as microbiological samples?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Records confirmed that chlorine residual tests were conducted as required.

Question ID	DWMR1084001	Question Type	Legislative
1			

Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 13-2;

Question:

Were inorganic parameter sampling requirements prescribed by Schedule 13-2 of O. Reg. 170/03 met?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Inorganic parameter sampling requirements were met.

Review of the records indicates that inorganics were last sampled for on January 6, 2020.

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Question ID	DWMR1085001	Question Type	Legislative

Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 13-4 | (1); SDWA | O. Reg. 170/03 | 13-4 | (2); SDWA | O. Reg. 170/03 | 13-4 | (3);

Question:

Were organic parameter sampling requirements prescribed by Schedule 13-4 of O. Reg. 170/03 met?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Organic parameter sampling requirements were met.

Review of the records indicates that organics were last sampled for on January 6, 2020.

Question ID	DWMR1086001	Question Type	Legislative
-------------	-------------	---------------	-------------

Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 13-6.1 | (1); SDWA | O. Reg. 170/03 | 13-6.1 | (2); SDWA | O. Reg. 170/03 | 13-6.1 | (3); SDWA | O. Reg. 170/03 | 13-6.1 | (4); SDWA | O. Reg. 170/03 | 13-6.1 | (5); SDWA | O. Reg. 170/03 | 13-6.1 | (6);

Question:

Were haloacetic acid sampling requirements prescribed by Schedule 13-6 of O. Reg. 170/03 met?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Haloacetic acid sampling requirements were met.

Question ID	DWMR1087001	Question Type	Legislative
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Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 13-6 | (1); SDWA | O. Reg. 170/03 | 13-6 | (2); SDWA | O. Reg. 170/03 | 13-6 | (3); SDWA | O. Reg. 170/03 | 13-6 | (4); SDWA | O. Reg. 170/03 | 13-6 | (5); SDWA | O. Reg. 170/03 | 13-6 | (6);

Question:

Were trihalomethane sampling requirements prescribed by Schedule 13-6 of O. Reg. 170/03 met?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Trihalomethane sampling requirements were met.

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Ministry of the Environment, Conservation and Parks

Ministère de l'Environnement, de la Protection de la nature et des Parcs



Question ID DWMR1088001 Question Type Legislative

Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 13-7;

Question:

Were nitrate/nitrite sampling requirements prescribed by Schedule 13-7 of O. Reg. 170/03 met?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Nitrate/nitrite sampling requirements were met.

Question ID DWMR1089001 Question Type Legislative

Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 13-8;

Question:

Were sodium sampling requirements prescribed by Schedule 13-8 of O. Reg. 170/03 met?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Sodium sampling requirements were met.

Question IDDWMR1090001Question TypeLegislative

Legislative Requirement(s):

SDWA | O. Reg. 170/03 | 13-9;

Question:

Where fluoridation is not practiced, were fluoride sampling requirements prescribed by Schedule 13-9 of O. Reg. 170/03 met?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Fluoride sampling requirements were met.

Question IDDWMR1094001Question TypeLegislative

Legislative Requirement(s):

SDWA | 31 | (1);

Question:

Were water quality sampling requirements imposed by the Municipal Drinking Water Licence and Drinking Water Works Permit met?

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Compliance Response(s)/Corrective Action(s)/Observation(s):

Water quality sampling requirements were met.

The Lutterworth Pines municipal drinking water licence number 246-102 indicates that uranium must be sampled for on a quarterly basis from the point of entrance to distribution system. Records reviewed indicates that uranium was sampled for monthly for this inspection period.

Question ID	DWMR1060001	Question Type	Legislative		
Legislative Requirement(s):					
SDWA 31 (1);				

Question:

Did the operations and maintenance manual(s) meet the requirements of the Municipal Drinking Water Licence?

Compliance Response(s)/Corrective Action(s)/Observation(s):

The operations and maintenance manual(s) met the requirements of the Municipal Drinking Water Licence.

Question ID	DWMR1062001	Question Type	Legislative
Legislative Requirement(s):			

SDWA | O. Reg. 170/03 | 7-5;

Question:

Did records or other record keeping mechanisms confirm that operational testing not performed by continuous monitoring equipment was done by a certified operator, water quality analyst, or person who met the requirements of Schedule 7-5 of O. Reg. 170/03?

Compliance Response(s)/Corrective Action(s)/Observation(s):

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

Question ID	DWMR1071001	Question Type	BMP		
Legislative Requirement(s): Not Applicable					
Question: Did the owner system?	provide security measures to prote	ct components of t	he drinking water		

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Compliance Response(s)/Corrective Action(s)/Observation(s):

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

Question ID	DWMR1073001	Question Type	Legislative
I a substantinus D	in		

Legislative Requirement(s):

SDWA | O. Reg. 128/04 | 23 | (1);

Question:

Was an overall responsible operator designated for all subsystems which comprise the drinking water system?

Compliance Response(s)/Corrective Action(s)/Observation(s):

An overall responsible operator was designated for all subsystem.

Question IDDWMR1074001Question TypeLegislative

Legislative Requirement(s):

SDWA | O. Reg. 128/04 | 25 | (1);

Question:

Were operators-in-charge designated for all subsystems which comprise the drinking water system?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Operators-in-charge were designated for all subsystems.

 Question ID
 DWMR1075001
 Question Type
 Legislative

Legislative Requirement(s):

SDWA | O. Reg. 128/04 | 22;

Question:

Were all operators certified as required?

Compliance Response(s)/Corrective Action(s)/Observation(s):

All operators were certified as required.

Question ID	DWMR1076001	Question Type	Legislative
	equirement(s): g. 170/03 1-2 (2);		

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Ministry of the Environment, Conservation and Parks Ministère de l'Environnement, de la Protection de la nature et des Parcs



Question:

Were adjustments to the treatment equipment only made by certified operators?

Compliance Response(s)/Corrective Action(s)/Observation(s):

Adjustments to the treatment equipment were only made by certified operators.

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APPENDIX A STAKEHOLDER APPENDIX

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 cidessous 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 portable 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





APPENDIX B INSPECTION RATING RECORD

APPLICATION OF THE RISK METHODOLOGY

USED FOR MEASURING MUNICIPAL RESIDENTIAL DRINKING WATER SYSTEM INSPECTION RESULTS



The Ministry of the Environment (MOE) has a rigorous and comprehensive inspection program for municipal residential drinking water systems (MRDWS). Its objective is to determine the compliance of MRDWS with requirements under the Safe Drinking Water Act and associated regulations. It is the responsibility of the municipal residential drinking water system owner to ensure their drinking water systems are in compliance with all applicable legal requirements.

This document describes the risk rating methodology, which has been applied to the findings of the Ministry's MRDWS inspection results since fiscal year 2008-09. The primary goals of this assessment

are to encourage ongoing improvement of these systems and to establish a way to measure this progress.

MOE reviews the risk rating methodology every three years.

The Ministry's Municipal Residential Drinking Water Inspection Protocol contains up to 14 inspection modules and consists of approximately 120 regulatory questions. Those protocol questions are also linked to definitive guidance that ministry inspectors use when conducting MRDWS inspections. The questions address a wide range of regulatory issues, from administrative procedures

ontario.ca/drinkingwater



to drinking water quality monitoring. Additionally, the inspection protocol contains a number of nonregulatory questions.

A team of drinking water specialists in the ministry have assessed each of the inspection protocol regulatory questions to determine the risk (not complying with the regulation) to the delivery of safe drinking water. This assessment was based on established provincial risk assessment principles, with each question receiving a risk rating referred to as the Question Risk Rating. Based on the number of areas where a system is deemed to be non-compliant during the inspection, and the significance of these areas to administrative, environmental, and health consequences, a risk-based inspection rating is calculated by the ministry for each drinking water system.

It is important to be aware that an inspection rating that is less than 100 per cent does not mean that the drinking water from the system is unsafe. It shows areas where a system's operation can improve. To that end, the ministry works with owners and operators of systems to make sure they know what they need to do to achieve full compliance.

The inspection rating reflects the inspection results of the specific drinking water system for the reporting year. Since the methodology is applied consistently over a period of years, it serves as a comparative measure both provincially and in relation to the individual system. Both the drinking water system and the public are able to track the performance over time, which encourages continuous improvement and allows systems to identify specific areas requiring attention.

The ministry's annual inspection program is an important aspect of our drinking water safety net. The ministry and its partners share a common commitment to excellence and we continue to work toward the goal of 100 per cent regulatory compliance.

Determining Potential to Compromise the Delivery of Safe Water

The risk management approach used for MRDWS is aligned with the Government of Ontario's Risk Management Framework. Risk management is a systematic approach to identifying potential hazards; understanding the likelihood and consequences of the hazards; and taking steps to reduce their risk if necessary and as appropriate.

The Risk Management Framework provides a formula to be used in the determination of risk:

RISK = LIKELIHOOD × CONSEQUENCE (of the consequence)

Every regulatory question in the inspection protocol possesses a likelihood value (L) for an assigned consequence value (C) as described in **Table 1** and **Table 2**.

TABLE 1:	
Likelihood of Consequence Occurring	Likelihood Value
0% - 0.99% (Possible but Highly Unlikely)	L = 0
1 – 10% (Unlikely)	L = 1
11 – 49% (Possible)	L = 2
50 – 89% (Likely)	L = 3
90 – 100% (Almost Certain)	L = 4

TABLE 2:	
Consequence	Consequence Value
Medium Administrative Consequence	C = 1
Major Administrative Consequence	C = 2
Minor Environmental Consequence	C = 3
Minor Health Consequence	C = 4
Medium Environmental Consequence	C = 5
Major Environmental Consequence	C = 6
Medium Health Consequence	C = 7
Major Health Consequence	C = 8

The consequence values (0 through 8) are selected to align with other risk-based programs and projects currently under development or in use within the ministry as outlined in **Table 2**.

The Question Risk Rating for each regulatory inspection question is derived from an evaluation of every identified consequence and its corresponding likelihood of occurrence:

- All levels of consequence are evaluated for their potential to occur
- Greatest of all the combinations is selected.

The Question Risk Rating quantifies the risk of non-compliance of each question relative to the others. Questions with higher values are those with a potentially more significant impact on drinking water safety and a higher likelihood of occurrence. The highest possible value would be $32 \ (4\times8)$ and the lowest would be $0 \ (0\times1)$.

Table 3 presents a sample question showing the risk rating determination process.

TABLE 3:							
Does the Opera	tor in Charge en	sure that the equ	ipment and pro	cesses are monit	tored, inspected	and evaluated?	
		ı	Risk = Likelihoo	d × Consequence)		
C=1	C=2	C=3	C=4	C=5	C=6	C=7	C=8
Medium Administrative Consequence	Major Administrative Consequence	Minor Environmental Consequence	Minor Health Consequence	Medium Environmental Consequence	Major Environmental Consequence	Medium Health Consequence	Major Health Consequence
L=4 (Almost Certain)	L=1 (Unlikely	L=2 (Possible)	L=3 (Likely)	L=3 (Likely)	L=1 (Unlikely	L=3 (Likely)	L=2 (Possible)
R=4	R=2	R=6	R=12	R=15	R=6	R=21	R=16

Application of the Methodology to Inspection Results

Based on the results of a MRDWS inspection, an overall inspection risk rating is calculated. During an inspection, inspectors answer the questions that relate to regulatory compliance and input their responses as "yes", "no" or "not applicable" into the Ministry's Laboratory and Waterworks Inspection System (LWIS) database. A "no" response indicates non-compliance. The maximum number of regulatory questions asked by an inspector varies by: system (i.e., distribution, stand-alone), type of inspection (i.e., focused, detailed), and source type (i.e., groundwater, surface water).

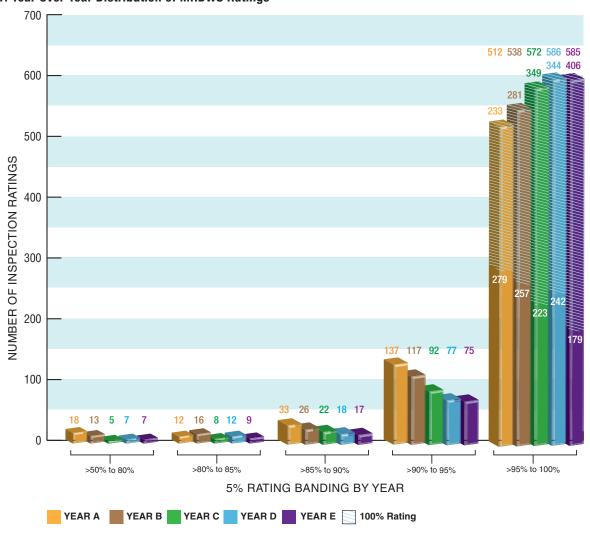
The risk ratings of all non-compliant answers are summed and divided by the sum of the risk ratings of all questions asked (maximum question rating). The resulting inspection risk rating (as a percentage) is subtracted from 100 per cent to arrive at the final inspection rating.

Application of the Methodology for Public Reporting

The individual MRDWS Total Inspection Ratings are published with the ministry's Chief Drinking Water Inspector's Annual Report.

Figure 1 presents the distribution of MRDWS ratings for a sample of annual inspections. Individual drinking water systems can compare against all the other inspected facilities over a period of inspection years.

Figure 1: Year Over Year Distribution of MRDWS Ratings



Reporting Results to MRDWS Owners/Operators

A summary of inspection findings for each system is generated in the form of an Inspection Rating Record (IRR). The findings are grouped into the 14 possible modules of the inspection protocol,

which would provide the system owner/operator with information on the areas where they need to improve. The 14 modules are:

1. Source

- 5. Process Wastewater
- 2. Permit to Take Water
- 6. Distribution System
- 3. Capacity Assessment4. Treatment Processes
- 7. Operations Manuals
- 8. Logbooks
- 9. Contingency and Emergency Planning
- 10. Consumer Relations
- 11. Certification and Training
- 12. Water Quality Monitoring
- 13. Reporting, Notification and Corrective Actions
- 14. Other Inspection Findings

For further information, please visit www.ontario.ca/drinkingwater

Ministry of the Environment, Conservation and Parks - Inspection Summary Rating Record (Reporting Year - 2024-25)

DWS Name: LUTTERWORTH PINES DRINKING WATER SYSTEM

DWS Number: 260091936

DWS Owner: CORPORATION OF THE TOWNSHIP OF MINDEN HILLS

Municipal Location: MINDEN HILLS

Regulation: O.REG. 170/03

DWS Category: DW Municipal Residential

Type of Inspection: Focused

Compliance Assessment Start Date: Jun-12-2024

Ministry Office: Peterborough District Office

Maximum Risk Rating: 398

Inspection Module	Non Compliance Risk (X out of Y)
Capacity Assessment	0/30
Certification and Training	0/42
Logbooks	0/14
Operations Manuals	0/14
Source	0/14
Treatment Processes	0/193
Water Quality Monitoring	0/91
Overall - Calculated	0/398

Inspection Risk Rating: 0.00%

Final Inspection Rating: 100.00%

Ministry of the Environment, Conservation and Parks - Detailed Inspection Rating Record (Reporting Year - 2024-25)

DWS Name: LUTTERWORTH PINES DRINKING WATER SYSTEM

DWS Number: 260091936

DWS Owner Name: CORPORATION OF THE TOWNSHIP OF MINDEN HILLS

Municipal Location: MINDEN HILLS

Regulation: O.REG. 170/03

DWS Category: DW Municipal Residential

Type of Inspection: Focused

Compliance Assessment Start Date: Jun-12-2024

Ministry Office: Peterborough District Office

All legislative requirements were met. No detailed rating scores.

Maximum Question Rating: 398

Inspection Risk Rating: 0.0

0.00%

FINAL INSPECTION RATING:

100.00%