



Attachment 'A'

The Ontario Ministry of the Environment, Conservation and Parks
Inspection Report
January 29, 2020

Ministry of the Environment,
Conservation and Parks
*Drinking Water and Environmental
Compliance Division*

Central Region
York Durham District Office
230 Westney Road South, 5th Floor
Ajax, ON L1S 7J5
Toll-Free: 1-800-376-4547
Telephone.: 905-427-5600
Fax: 905-427-5602

Ministère de l'Environnement, de la
Protection de la nature et des Parcs
*Division de la conformité en matière
d'eau potable et d'environnement*

Région du Centre
Bureau de district de York Durham
230 route Westney sud, 5^e étage
Ajax, ON L1S 7J5
Sans frais : 1-800-376-4547
Téléphone : 905 427-5600
Télécopieur : 905 427-5602

March 13, 2020

City of Markham
101 Town Centre Blvd
Markham, On
L3R 9W3

Attention: Phoebe Fu, Director, Environmental Services

RE: Markham Distribution System
Drinking Water Inspection Report # 1-KXWDM
File: SI YO MA TO 540

Please find attached the Ministry of the Environment Conservation and Parks inspection report for the above facility. The report details the findings of the inspection conducted on January 29, 2020.

The Appendix section of the inspection includes the Stakeholder Appendix A with links to key reference and guidance materials available on the Ministry of the Environment Conservation and Parks (MECP) website. Appendix B contains the inspection rating record.

In the inspection report, any *"Actions Required"* are linked to incidents of non-compliance with regulatory requirements contained within the Act, a regulation, or site-specific approvals, licenses, permits, orders or instructions. Such violations could result in the issuance of mandatory abatement instruments including Orders, tickets, penalties, or referrals to the ministry's Investigations and Enforcement Branch.

"Recommended Actions" convey information that the owner or operating authority should consider implementing in order to advance efforts already in place to address such issues as emergency preparedness, the availability of information to consumers, and conformance with existing and emerging industrial standards. Please note that items which appear as recommended actions do not, in themselves, constitute violations.

Please note, you will find in the report that bullets are shown in bold print and are the consistent and standard responses to the information gathered during the inspection. Statements shown in regular font provide additional site-specific details.

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Section 19 of the Safe Drinking Water Act (Standard of Care) creates a number of obligations for individuals who exercise decision-making authority over municipal drinking water systems. Please be aware that the Ministry has encouraged such individuals, particularly municipal councillors, to take steps to be better informed about the drinking water systems over which they have decision-making authority. These steps could include asking for a copy of this inspection report and a review of its findings. Further information about Section 19 can be found in "*Taking Care of Your Drinking Water: A guide for members of municipal council*" found under "Resources" on the Drinking Water Ontario website at www.ontario.ca/drinkingwater.

I would like to thank the City of Markham water staff for the assistance afforded to me during this compliance assessment. If you have any questions or concerns please contact myself or Demetra Koros, Water Compliance Supervisor, Central Region at 905-409-0496.

Yours truly,



Dee Cox
Provincial Officer
Ministry of the Environment, Conservation and Parks
Drinking Water and Environmental Compliance Division
Central Region
Office: (905) 999-2097

| ec: _____

Helena Frantzke, Water Quality Coordinator
Mario Puopolo, Waterworks Supervisor, City of Markham
Peter Solymos, Water quality Supervisor, City of Markham
York Public Health Inspector
| Demetra Koros, Water Compliance Supervisor, York Durham District Office, MECP



Ministry of the Environment, Conservation and Parks

MARKHAM DISTRIBUTION SYSTEM

Inspection Report

Site Number:	220004162
Inspection Number:	1-KXWDM
Date of Inspection:	Jan 29, 2020
Inspected By:	Dee Cox



Ministry of the Environment, Conservation and Parks
Drinking Water Inspection

TABLE OF CONTENTS

1. Drinking Water System Owners Information
2. Drinking Water System Inspection Report

Appendix:

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

OWNER INFORMATION:

Company Name:	MARKHAM, THE CORPORATION OF THE CITY OF		
Street Number:	101	Unit Identifier:	
Street Name:	TOWN CENTRE Blvd N		
City:	MARKHAM		
Province:	ON	Postal Code:	L3R 9W3

CONTACT INFORMATION

INSPECTION DETAILS:

Site Name:	MARKHAM DISTRIBUTION SYSTEM
Site Address:	101 TOWN CENTRE Boulevard North MARKHAM ON L3R 9W3
County/District:	MARKHAM
MECP District/Area Office:	York-Durham District
Health Unit:	YORK REGION HEALTH SERVICES DEPARTMENT
Conservation Authority:	
MNR Office:	
Category:	Large Municipal Residential
Site Number:	220004162
Inspection Type:	Special Announced
Inspection Number:	1-KXWDM
Date of Inspection:	Jan 29, 2020
Date of Previous Inspection:	Jan 9, 2019

COMPONENTS DESCRIPTION

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

Sub Type:

Site (Name):	Markham Operation Office
Type:	Other

Sub Type: Other

Comments:

The Markham Distribution System is owned and operated by the City of Markham, and receives treated water from the City of Toronto and the Region of Peel. The trunk transmission lines, pumping stations, and water storage facilities located within the City of Markham are owned and operated by the Region of York. The Region of York measures and monitors the distribution water flows and volumes directed to the City of Markham through the use of nineteen (19) flow meters located along the Richmond Hill, Vaughan, Stouffville, Toronto and Markham boundaries.

The Markham Distribution System provides potable water to approximately 350,000 residents of Markham and consists of approximately 1,092 km of watermains, 8,803 hydrants, 11,239 valves, and 83,116 service connections.

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 policies and guidelines during the inspection 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 report is based on an inspection of a "stand alone connected distribution system". This type of system receives treated water from a separately owned "donor" system. This report contains the elements required to assess key compliance and conformance issues associated with a "receiver" system. This report does not contain items associated with the inspection of the donor system, such as source waters, intakes/wells and treatment facilities.

This report is based on a "focused" inspection of the system and was conducted remotely. 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.

This report is based on a "focused" inspection of the system and was conducted remotely.

This remote pilot inspection report covers the period between January 9, 2019 and January 29, 2020.

The inspection included a compliance assessment of applicable Ministry of Environment, Conservation and Parks (MECP) legislation, an inspection of the procedures used within the system and a review of records. Documents reviewed in association with this report included, but were not limited to:

1. Ministry of the Environment, Conservation and Parks Municipal Drinking Water License (MDWL) number 021-101, issue #9, dated October 11, 2019, and MDWL issue #7, dated January 12, 2018.
2. Ministry of the Environment, Conservation and Parks Drinking Water Permit (DWWP) number 021-201, Issue #4, dated July 22, 2019, and March 3, 2017 Issue #3.
3. Other documents maintained by the owner/operating authority were also reviewed in conjunction with this report.

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.

Schedule A of the Drinking Water Works Permit (#021-201, Issue Number 4 dated July 22, 2019) contains the following physical components:

- watermains within the City of Markham- Markham Distribution System.

Treatment Processes

- **The owner/operating authority was in compliance with the requirement to prepare Form 1 documents as required by their Drinking Water Works Permit during the inspection period.**

During the inspection review period, nine (9) "Form 1 - Record of Watermains Authorized as a Future Alteration" forms were prepared and reviewed.

Treatment Process Monitoring

- **The secondary disinfectant residual was measured as required for the distribution system.**

Markham Distribution Systems serves a population of 349,007, according to the current drinking water system profile. The system is classified as a large municipal residential drinking water system and the owner and operating authority for the system must ensure that at least seven distribution samples are taken each week and are tested immediately for free and total chlorine residual.

Distribution chlorine residuals are measured by two continuous on-line analyzers recording results every 2 minutes. In addition, operation staff collect grab samples each week using a hand-held unit during the microbiological sampling and during the weekly dead end hydrant flushing.

Free and Total chlorine residual test results are recorded in the dead end flushing logs, Work Order log sheets and logbooks.

- **Operators were examining continuous monitoring test results and they were examining the results within 72 hours of the test.**

A report is generated every Monday, Wednesday and Friday and provided to all the Overall Responsible Operator (ORO) for review. Daily residual activities logs are also generated and reviewed daily.

- **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.**

The minimum chlorine residual required to achieve disinfection at the Markham Distribution System is 0.25 mg/L.

The minimum chlorine alarm (low-low) is set at 0.25 mg/L and the low chlorine alarm is set at 0.40 mg/L. The maximum chlorine alarm (high-high) is set to 3.00 mg/L and the high alarm is set to 2.10 mg/L.

If there is a continuous chlorine analyzer failure, an alarm will be sent to the SCADA standby phone. The SCADA standby operator will access the SCADA laptop or SCADA computer located in the Mezzanine office and notify a Supervisor of the findings.

- **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.**

Secondary disinfectant residual is measured by two on-line analyzers and recorded continuously every 2 minutes. The date and time are recorded with every test result.

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

The accuracy of the continuous on-line chlorine analyzer are verified by the operation staff every Monday, Wednesday and Friday through the collection of grab samples and comparison of the test results to the analyzer readings.

The test results of the verification checks, the time of the verification and any required adjustments to the on-line

Treatment Process Monitoring

analyzer were recorded in the log sheets and/or work Orders.

In addition, the on-line chlorine analyzers are calibrated yearly by Hach. Calibration records reviewed were last conducted on August 2, 2019.

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.**

Section 16.2 of the Municipal Drinking Water Licence states that the operations and maintenance manual shall include at a minimum:

- 16.2.1 The requirements of this licence and associated procedures;
- 16.2.2 The requirements of the drinking water works permit for the drinking water system;
- 16.2.3 A description of the processes used to achieve secondary disinfection within the drinking water system;
- 16.2.4 Procedures for monitoring and recording the in-process parameters necessary for the control of any treatment subsystem and for assessing the performance of the drinking water system;
- 16.2.5 Procedures for the operation and maintenance of monitoring equipment;
- 16.2.6 Contingency plans and procedures for the provision of adequate equipment and material to deal with emergencies, upset conditions and equipment breakdown;
- 16.2.7 Procedures for dealing with complaints related to the drinking water system, including the recording of the nature of the complaint and any investigation and corrective action taken in respect of the complaint;

The City of Markham QMS Representative maintains all controlled electronic documents. The electronic documents are available to all operators. To ensure all controlled documents are up-to-date, each document undergoes an annual review.

The system maintains an electronic document management system (Intelex) that contain information for the operation and maintenance of water. All operators have access to this.

Documents provided by the Region were reviewed and met the requirements.

Logbooks

- **Logbooks were properly maintained and contained the required information.**

The logbooks for the Water Distribution System is located in the Waterworks O&M office, while individual logbook for the continuous chlorine analyzer are located at the location.

For each entry, staff must include: Entry number, Area, Asset ID, Date and time the activity happens with description of location and comment, Status- ongoing or complete, Staff's call number or signature.

Procedure "Log Entry" WI 15a was reviewed.

- **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.**

Logbooks

Distribution system and treated water chlorine residuals measured by hand-held instruments were recorded in the logbook along with operator's name.

All operators working at the City of Markham Distribution System are appropriately certified to conduct operational tests.

Security

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

City of Markham has an automated water station located at 555 Miller Avenue. Pre-paid water access fob keys can be purchased. Commercial water suppliers or contractors can hook up to the water station 24 hours a day.

Backflow Prevention Bylaw 2012-27 is in place, the city reduces the chance of water contamination through backflow incidents at cross connections.

Bulk water can also be used from a fire hydrant if a permit is obtained (Water Bylaw 2019-53 was reviewed).

Certification and Training

- **The overall responsible operator had been designated for each subsystem.**

According to the "Personnel Coverage" procedure, the Overall Responsible Operator (ORO) is designated to be the Operations & Maintenance Manager or the Waterworks Supervisor that has been assigned to stand-by duties. Waterworks Supervisors are assigned to stand-by duties on a rotational basis. The Operations & Maintenance Manager may also participate in the Supervisors stand-by rotation, or as required.

- **Operators-in-charge had been designated for all subsystems which comprised the drinking water system.**

According to the "Personnel Coverage" procedure, during normal business hours all Waterworks Operator positions Class 1 and higher are designated as Operator-in-charge for the purpose of O. Reg. 128/04.

Outside of normal weekday business hours, Waterworks Supervisors will ensure that all Waterworks Operators on stand-by hold a Class 1 or higher license in both Water and Wastewater and therefore the operator may be designated as Operator-in-charge.

- **All operators possessed the required certification.**

Water Quality Monitoring

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

The City of Markham Distribution System serves an estimated population of 349,007 people; therefore, 134 samples are required to be obtained monthly as a minimum requirement from within the distribution system. These samples are required to be tested for E.Coli.(EC) and total coliform (TC); and at least 25 percent of the samples are required to be tested for general bacteria populations expressed as colony counts on a heterotrophic plate count (HPC).

Records provided for the review period indicate that the city is routinely collecting more than 134 distribution samples monthly and throughout the week in order to comply with the regulatory requirement. Each of those samples were tested for E.Coli., total coliform, and approximately more than half of the samples were tested for general bacteria populations expressed as colony counts on a heterotrophic plate count.

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

Water Quality Monitoring

As of January 1st, 2020, the Ontario standard for HAAs is 80 ug/L, expressed as a Running Annual Average (RAA) of quarterly testing results.

A review of the certificates of analysis for the inspection period indicate that HAAs were sampled on February 15, 2019, May 27, 2019, August 28, 2019, and November 26, 2019.

The lab Reporting Limits for HAAs is <5.3 ug/L. Lab results reviewed indicated that sample results were always less than 5.3 ug/L.

The RAA for City of Markham is 5.3 ug/L.

HAAs samples were confirmed to be sampled at a variety of locations throughout the distribution system that includes locations nearer the point of entry to the distribution system, the middle and the end. HAAs are known to decline over time within the distribution system and may or may not be best represented at the extremities of the distribution system.

- **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 that at least one water sample is collected every three months from points in the distribution system likely to have an elevated potential for the formation of trihalomethanes (THMs).

As of January 1st, 2016, the Ontario standard for THMs is 100 ug/L, expressed as a Running Annual Average (RAA) of quarterly testing results.

A review of the certificates of analysis for the inspection period indicate that THMs were sampled on February 15, 2019 (average 12.64 ug/L), May 27, 2019 (average 12.36 ug/L), August 28, 2019 (average 17.36 ug/L), and November 26, 2019 (average 14.00 ug/L).

Eleven (11) THM samples each quarter were confirmed to be sampled at a variety of locations throughout the distribution system that included locations nearer the point of entry to the distribution system, the middle and the end.

The RAA is 14.09 ug/L.

- **All water quality monitoring requirements imposed by the MDWL or DWWP issued under Part V of the SDWA were being met.**

Schedule C of the MDWL dated July 22, 2019, issue # 9, lists the following additional sampling monitoring to be undertaken.

Quarterly samples of Nitrosodimethylamine is required from the farthest point in the distribution system.

A review of the certificate of analysis for the inspection period indicate that Nitrosodimethylamine was sampled on November 26, 2019 from 4 different locations in the system.

The highest sample recorded result is 0.0016 ug/L. The Ministry standard is 0.009 ug/L.

In addition, the MDWL Schedule D granted regulatory relief for lead sampling. In exchange of regulatory requirements under Schedule 15.1 of O. Reg. 170/03, the owner is required to collect and test for lead at ten (10) sampling points in the distribution system, including Alkalinity and pH each year, every "winter" and "summer" period.

Water Quality Monitoring

This is in effect for the December 15, 2019 to April 15, 2020, June 15, 2020 to October 15, 2020, December 15, 2020 to April 15, 2021 and June 15, 2021 to October 15, 2021 sampling periods.

Data reviewed during the inspection period confirmed that the DWS complied with the Lead sampling during the "summer" and "winter" periods.

- **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).**

During the inspection period, there were two (2) occurrences where total coliforms were detected in the distribution system and two (2) occurrence where a No Data Overgrown Target (NDOGT) with total coliform (TC) and/or Escherichia Coli (EC) was detected.

These exceeded the values set out in Schedule 1 of O.Reg. 169/03.

Resamples were collected and corrective actions taken for all adverse test results.

Reporting & Corrective Actions

- **Corrective actions (as per Schedule 17) had been taken to address adverse conditions, including any other steps that were directed by the Medical Officer of Health.**

During the inspection review period, there were nine (9) adverse water quality incidents (AWQIs) reported. One (1) of which was due to combined chlorine results below the regulatory limit. The City responded to the low chlorine incident by immediately flushing the distribution system until residuals were restored.

Two (2) AWQIs were due to the presence of total coliforms in the distribution system. The Ontario Drinking Water Quality Standard (ODWQS) for Total Coliform is not detectable. Resamples taken met the ODWQS.

Two (2) AWQIs were due to No Data Overgrown With Target (NDOGT) in the distribution system. At the time of the incident, corrective actions were taken. Corrective actions for an NDOGT are to be treated for Total Coliform and Escherichia Coli (E.coli), where the system, in addition, are required to take two consecutive sets of samples 24 to 48 hours apart until E.coli is not detected in any of the samples. Samples taken met the ODWQS.

Four (4) AWQIs were due to a Category 2 Watermain Break.

Resamples were collected and corrective actions taken for all adverse test results until results met the ODWQS for microbiological parameters.

- **Corrective actions as directed by the Medical Officer of Health had been taken by the owner and operating authority to address exceedances of the lead standard.**
- **All required notifications of adverse water quality incidents were immediately provided as per O. Reg. 170/03 16-6.**
- **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.**

Reporting & Corrective Actions

According to the City's Standard Operating Procedure (SOP) Continuous Chlorine Analyzer - Monitoring, if there is a Continuous Chlorine Analyzer failure, at any of the analyzers, an alarm will be sent to the SCADA standby phone and follow the standard alarm sequence until acknowledged. A failure of the Continuous Chlorine Analyzer may be due to loss in communication (equipment malfunction, power outage, and no flow sensors), low sample flow, or a combined chlorine residual reading of Low 0.40 mg/L, High 2.10 mg/L, Low-Low 0.25 mg/L or High-High 3.00 mg/L.

If necessary, an operator will be required to go on site to investigate. The operator will take a grab sample to verify the chlorine residual and record all observations in the analyzer logbook.

- **All changes to the system registration information were provided within ten (10) days of the change.**

On February 5, 2020, the system submitted an updated system registration form to the Ministry to update the population, private residences served and service connections. All other information remains current.

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:

Dee Cox

Signature: (Provincial Officer)



Reviewed & Approved By:

Demetra Koros

Signature: (Supervisor)



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

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.

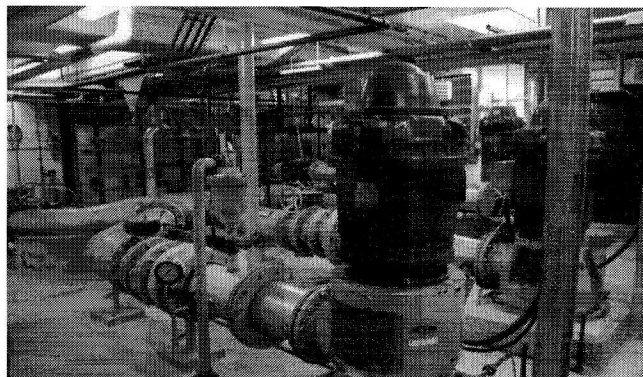
For more information on Ontario's drinking water visit www.ontario.ca/drinkingwater



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 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



APPENDIX B

INSPECTION RATING RECORD

Ministry of the Environment - Inspection Summary Rating Record (Reporting Year - 2019-2020)

DWS Name: MARKHAM DISTRIBUTION SYSTEM
DWS Number: 220004162
DWS Owner: Markham, The Corporation Of The City Of
Municipal Location: Markham

Regulation: O.REG 170/03
Category: Large Municipal Residential System
Type Of Inspection: Adhoc
Inspection Date: January 29, 2020
Ministry Office: York-Durham District

Maximum Question Rating: 318

Inspection Module	Non-Compliance Rating
Treatment Processes	0 / 18
Operations Manuals	0 / 28
Logbooks	0 / 18
Certification and Training	0 / 28
Water Quality Monitoring	0 / 51
Reporting & Corrective Actions	0 / 84
Treatment Process Monitoring	0 / 91
TOTAL	0 / 318

Inspection Risk Rating 0.00%

FINAL INSPECTION RATING: 100.00%

Ministry of the Environment - Detailed Inspection Rating Record (Reporting Year - 2019-2020)

DWS Name: MARKHAM DISTRIBUTION SYSTEM
DWS Number: 220004162
DWS Owner: Markham, The Corporation Of The City Of
Municipal Location: Markham

Regulation: O.REG 170/03
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Ministry Office: York-Durham District

Maximum Question Rating: 318

Inspection Risk Rating	0.00%
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FINAL INSPECTION RATING:	100.00%
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