

Ministry of the Environment,
Conservation and Parks

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

Barrie District

District de Barrie

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May 2, 2019

Attention: Jennifer Connor, Acting Chief Administrative Officer

**Re: 2019 Drinking Water Inspection Report
Somerset/ Knob Hill Distribution System**

Please find enclosed the Ministry of the Environment, Conservation and Parks Inspection Report for Somerset/ Knob Hill Distribution System (Water Works # 260046137). The physical inspection process took place on April 9, 2019.

The primary focus of this inspection is to confirm compliance with Ministry of the Environment, Conservation and Parks legislation and authorizing documents, as well as evaluating conformance with Ministry drinking water-related policies and guidelines during the inspection review period.

One issue of non-compliance was identified in the inspection and is discussed on page 10 of the report. No Provincial Officer's Orders were issued in conjunction with this inspection.

In order to measure individual inspection results, the Ministry has established an inspection compliance risk framework based on the principles of the Inspection, Investigation and Enforcement Secretariat and advice of internal/external risk experts. The Inspection Summary Rating Record (IRR), included as Appendix A of this inspection report, provides the Ministry, the system owner and the local Public Health Units with a summarized quantitative measure of the drinking water system's annual inspection and regulated water quality testing performance. If you have any questions or concerns regarding the rating, please contact Sheri Broeckel, Drinking Water Supervisor at (705) 739-6386.

If you have any questions regarding the inspection report please feel free to contact the undersigned at (705) 739-6431.

Sincerely,



Laura Greidanus
Provincial Officer

Drinking Water Inspection Program, Safe Drinking Water Branch
Barrie District Office, Ministry of the Environment Conservation and Parks

CC Medical Officer of Health, Simcoe Muskoka District Health Unit
Manager of Environmental Services, Township of Ramara
Barrie District Office File, Ministry of the Environment, Conservation and Parks



Ministry of the Environment, Conservation and Parks

**SOMERSET/ KNOB HILL DISTRIBUTION SYSTEM
Inspection Report**

Site Number:	260046137
Inspection Number:	1-KYBZJ
Date of Inspection:	Apr 09, 2019
Inspected By:	Laura Mary Greidanus

OWNER INFORMATION:

Company Name:	RAMARA, THE CORPORATION OF THE TOWNSHIP OF	Unit Identifier:	
Street Number:	2297		
Street Name:	HIGHWAY 12 Hwy		
City:	BRECHIN		
Province:	ON	Postal Code:	L0K 1B0

CONTACT INFORMATION
INSPECTION DETAILS:

Site Name:	SOMERSET/ KNOB HILL DISTRIBUTION SYSTEM
Site Address:	3398 QUENTON Street WASHAGO ON L0K 1B0
County/District:	RAMARA
MECP District/Area Office:	Barrie District
Health Unit:	SIMCOE MUSKOKA DISTRICT HEALTH UNIT
Conservation Authority:	
MNR Office:	Midhurst Regional Office
Category:	Small Municipal Residential
Site Number:	260046137
Inspection Type:	Announced
Inspection Number:	1-KYBZJ
Date of Inspection:	Apr 09, 2019
Date of Previous Inspection:	Apr 25, 2018

COMPONENTS DESCRIPTION

Site (Name):	MOE DWS Mapping	Sub Type:	
Type:	DWS Mapping Point		
Site (Name):	Somerset/Knob Hill Stand Alone Distribution System	Sub Type:	Other
Type:	Other		

Comments:

The Somerset/Knob Hill distribution system is a stand alone connected distribution system owned and operated by the Corporation of the Township of Ramara. The system receives treated water from the Washago Water System (Waterworks # 220005161), owned and operated by the Corporation of the Township of Severn. The Washago water system consists of a direct filtration type package plant which treats water obtained from Lake Couchiching. The system services approximately 300 residential units in the village of Washago, Township of Severn and 18 units in the Somerset/Knob Hill distribution system, Township of Ramara. The Washago water system, hereafter referred to as the donor system, is categorized as a Large Municipal Residential drinking water system as defined by Ontario Regulation 170/03. As a Large Municipal Residential water system, the owner (The Corporation of the Township of Severn), hereafter referred to as donor, has duties as set out in the Safe Drinking Water Act to ensure that all water conveyed to all users meets, at a minimum, those standards set out in Ontario Regulation 169/03, Drinking Water Quality Standards. Likewise, similar duties are set out for the owner/operating authority of the stand alone distribution system used and operated to convey treated water received from the donor to the users of the system. Treated water conveyed from the donor system is measured through a metering chamber consisting of a two inch

mechanical flow meter, isolation valves, and a one inch meter bypass, also equipped with a mechanical flow meter, providing redundancy for maintenance purposes. The metering chamber is located at a dead end within the Washago distribution system so the donor has installed recirculation lines which maintain a constant flow of freshly treated water into the dead end and back to the treatment facility. An agreement signed between the donor and receiver in 1995 identifies the donor as having sole ownership and exclusive control of the metering chamber and associated valving, whereas the receiver is responsible for the distribution piping connected to the metering chamber. The donor has not specifically agreed in writing that they would ensure the maintenance of secondary disinfection within the receiver system nor have they formally agreed to sample and test the water in the receiver system as though it was part of the donor's system. Therefore, the agreement does not satisfy full exemption criteria set out in Section 5(4) O.Reg.170/03.

The Somerset/Knob Hill distribution system is comprised of approximately 700 metres of two inch polyethylene water main used to convey treated water across the Severn River (the municipal boundary). A two inch tee situated approximately 15-20 metres on shore directs water along the river to two separate easements through which the water main is installed to service the individual service connections. According to a title search performed by Russell, Christie, LLP Barristers and Solicitors, on behalf of the owner in March 2005, the easements are in favour of the Corporation of the Township of Orillia, now the Corporation of the Township of Severn.

The two inch water mains and ¾ inch service lines are equipped with isolation valves. The portion of the water main lain across the bottom of the river is reportedly held in place by sandbags. There are no storage structures or hydrants associated with the distribution system. There are three sample stations installed in the distribution system and one blow-off. At the time of inspection, the Somerset/Knob Hill distribution system serviced 18 lots located on Knob Hill Drive, Meadow Crescent and Somerset Drive. As such, the system is categorized as a Small Municipal Residential drinking water system as defined by Ontario Regulation 170/03. There are no known designated facilities serviced by the Somerset/Knob Hill water system.

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. 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.

The Somerset/Knob Hill Distribution System is a stand-alone distribution small municipal residential drinking water system, as defined by Ontario Regulation 170/03, and operates under drinking water system # 260046137. The distribution system serves an estimated population of 44 people. Eighteen of the available 20 lots have water service. The distribution system is owned and operated by the Corporation of the Township of Ramara. Drinking water is supplied by the Township of Severn from the Washago Drinking Water System (waterworks # 220005161). The Washago Drinking Water System is a surface water treatment plant which provides coagulation, flocculation, filtration and disinfection.

The Somerset/Knob Hill Distribution System consists of approximately 700 m of 50 mm diameter watermains, including a watermain that conveys treated water across the Severn River. There are three sample stations, a blow off, and an air vent installed in the distribution system. There are no storage structures or rechlorination facilities within the distribution system.

This inspection was conducted pursuant to section 81 of the Safe Drinking Water Act in order to assess compliance with the requirements of Ontario Regulation 170/03. The drinking water inspection included: attending the site; interview with Township of Ramara staff; and a review of relevant documents and data from the period of April 25, 2018 to April 9, 2019 (hereafter referred to as the "inspection review period"). The previous inspection of the Somerset/Knob Hill Distribution System was conducted on April 25, 2018.

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.

Drinking Water Works Permit 147-207 issue number 2 contains a description of the length and diameter of the

Treatment Processes

installed watermains. There are also three sample stations, a blow-off and air vent installed in the distribution system. A flow meter and bypass flow meter are housed in a metering chamber and used to measure the treated water flows to the Somerset/Knob Hill water distribution system. There is not a Schedule C in the Drinking Water Works Permit.

- **Records confirmed that the water treatment equipment which provides chlorination or chloramination for secondary disinfection purposes was operated so that at all times and all locations in the distribution system the chlorine residual was never less than 0.05 mg/l free or 0.25 mg/l combined.**

Section 1-2. (2) 4. of Schedule 1 of Ontario Regulation 170/03 requires that if the drinking water system's water treatment equipment provides chlorination or chloramination for secondary disinfection, the equipment is operated so that, at all times and at all locations within the distribution system, the free chlorine residual is never less than 0.05 mg/L, if the drinking water system provides chlorination and does not provide chloramination.

The Owner of Somerset/Knob Hill Distribution System does not provide primary or secondary disinfection for the drinking water. The Township of Severn provides the treatment of the drinking water, and it is then sent across the municipal boundary into the Township of Ramara, and the Somerset/Knob Hill Distribution System.

During the inspection review period, there were no free chlorine residuals measured below 0.05 mg/L in the Somerset/Knob Hill Distribution System. Measurements of free chlorine were typically above 1 mg/L in the distribution system. The lowest free chlorine residual measured during the inspection review period was 0.82 mg/L. At the time of inspection a free chlorine residual of 1.51 mg/L was measured at Knob Hill Sample Station # 1.

Treatment Processes

- **Where an activity has occurred that could introduce contamination, all parts of the drinking water system were disinfected in accordance with Schedule B, Condition 2.3 of the Drinking Water Works Permit.**

The Somerset/Knob Hill Distribution System Operations and Maintenance Manual, Contingency and Emergency Plan was updated in January 2019 by the Operating Authority. The Plan includes procedures for watermain leak repairs. The procedures are detailed and meet the requirements. The Ministry's Watermain Disinfection Procedure (effective for the system on January 29, 2017) as well as the most recent version of AWWA C651 are appended in the Plan.

Treatment Process Monitoring

- **The secondary disinfectant residual was not measured as required for the distribution system.**

Subsection 7-2 (5) of Schedule 7 of Ontario Regulation 170/03 requires that the owner of a small municipal residential system that provides secondary disinfection and the operating authority for the system shall ensure that at least two distribution samples are taken each week in accordance with subsection (6) and are tested immediately for free chlorine residual, if the system provides chlorination and does not provide chloramination.

Subsection (6) states that at least one of the distribution samples referred to in subsection (5) must be taken at least 48 hours after, and during the same week as, one of the other distribution samples referred to in subsection (5).

During the inspection review period, a free chlorine residual was measured in the Somerset/ Knob Hill Distribution System between two and four times per week. A minimum of two chlorine residuals were measured during each week in the inspection review period. During four weeks there were not 48 hours between free chlorine residual samples.

Operations Manuals

- **The operations and maintenance manuals contained plans, drawings and process descriptions sufficient for the safe and efficient operation of the system.**

Operations Manuals

- **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 Schedule B of Municipal Drinking Water Licence 147-107 Issue Number 2 requires that the operations and maintenance manual or manuals, 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 maintain 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;
- 16.3 Procedures necessary for the operation and maintenance of any alterations to the drinking water system shall be incorporated into the operations and maintenance manual or manuals prior to those alterations coming into operation.

The Somerset/ Knob Hill Operations and Maintenance manual was updated by the Operating Authority in January 2019 and meets the requirements of the Municipal Drinking Water Licence.

Logbooks

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

The Somerset/ Knob Hill Distribution System logsheets are filled in by Operators whenever the system is attended. Records of the free, total and combined chlorine residual measured, as well as the date, time and operators on duty, including Operator in Charge and Overall Responsible Operator are indicated. Comments such as sampling performed or flow meter and pressure readings are also indicated on the logsheets where applicable. The Operating Authority may want to consider indicating the order to put the day/month/year for the date field for continuity.

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

Security

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

The three sampling stations are kept locked. Periodic checks are done of the watermain running through the Severn River.

Certification and Training

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

The Somerset/ Knob Hill Distribution System is classified as a Water Distribution Class 1 subsystem. The Overall Responsible Operators are designated for the subsystem and have appropriate certification.

- **Only certified operators made adjustments to the treatment equipment.**

Certification and Training

- **Operators-in-charge had been designated for all subsystems which comprised the drinking water system.**
The Somerset/ Knob Hill Distribution System is classified as a Water Distribution Class 1 subsystem. The Operator In Charge is designated for the subsystem and indicated on the logsheets. The Operators In Charge hold the appropriate certification.
- **All operators possessed the required certification.**

Water Quality Monitoring

- **All microbiological water quality monitoring requirements for distribution samples prescribed by legislation were being met.**
Subsection 11-2 of Schedule 11 of Ontario Regulation 170/03 requires that the owner of a small municipal residential drinking water system and the operating authority for the system shall ensure that at least one distribution sample is taken every two weeks, if the system provides treatment equipment in accordance with Schedule 1 or 2 and the equipment is operated in accordance with that Schedule. The owner of the drinking water system and the operating authority for the system shall ensure that each of the samples taken is tested for Escherichia coli, total coliforms and general bacteria population expressed as colony counts on a heterotrophic plate count (HPC), as Somerset/ Knob Hill Distribution System has secondary disinfection. During the inspection review period, two distribution samples were collected each week from the Somerset/ Knob Hill Distribution system and tested for the required parameters. During one week two sets of distribution samples were collected in response to a watermain break on the Township of Severn side of the system. In another week four additional samples were taken on top of the regular two samples for resampling purposes after a sample had a result of 1 TC cfu/100mL. Resamples were not tested for HPC.
- **All haloacetic acid water quality monitoring requirements prescribed by legislation are being conducted within the required frequency and at the required location.**
Section 13-6.1 of Schedule 13 of Ontario Regulation 170/03 requires that the owner of a drinking water system that provides chlorination or chloramination and the operating authority for the system shall ensure that at least one distribution sample is taken in each calendar quarter, from a point in the drinking water system's distribution system, or plumbing that is connected to the drinking water system, that is likely to have an elevated potential for the formation of haloacetic acids (HAA), and have the samples tested for haloacetic acids. The standard for HAA as a reportable limit comes into effect on January 1, 2020. During the inspection review period a sample was collected from the Somerset/ Knob Hill distribution system in May 2018, August 2018, November 2018 and February 2019 and tested for HAA as required. The average for HAA during the inspection review period was 23.1 ug/L.
- **All trihalomethane water quality monitoring requirements prescribed by legislation were conducted within the required frequency and at the required location.**
Section 13-6 of Schedule 13 of Ontario Regulation 170/03 requires that the owner of a drinking water system that provides chlorination or chloramination and the operating authority for the system shall ensure that at least one distribution sample is taken in each calendar quarter, from a point in the drinking water system's distribution system, or plumbing that is connected to the drinking water system, that is likely to have an elevated potential for the formation of trihalomethanes (THMs). The samples are to be tested for THMs. During the inspection review period, samples were collected and tested for THMs from the Somerset/ Knob Hill distribution system in May 2018, August 2018, November 2018 and February 2019. The average for THMs during the inspection review period was 40 ug/L. The Somerset/ Knob Hill Distribution System is not eligible for reduced sampling of THMs at this time, as there have been results above 0.050 mg/L in the previous 12 consecutive calendar quarters.
- **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 Monitoring

Section 6-3. (1) of Schedule 6 of Ontario Regulation 170/03 requires that if this Regulation requires a water sample to be taken and tested for a microbiological parameter, the owner of the drinking water system and the operating authority for the system shall ensure that another sample is taken at the same time from the same location and is tested immediately for free chlorine residual, if the system provides chlorination and does not provide chloramination.

During the inspection review period, a free chlorine residual was measured at the same time and the same location that microbiological samples were collected.

Water Quality Assessment

- **Records did not show 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).**

All samples collected during the inspection review period met the Ontario Drinking Water Quality Standards, with the exception of one sample that had a result of 1 CFU/100 ml for total coliform.

Reporting & Corrective Actions

- **Corrective actions (as per Schedule 18) 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 was one adverse water quality incident in the Somerset/Knob Hill Distribution System for a total coliform result of 1 CFU/100 ml. A resample was initially only collected from the same location where the adverse result happened, and not from a location upstream and downstream. The next day three samples were taken as required for a resample. The definition of a resample and test contained in section 1 of Ontario Regulation 170/03 states that resample and test means,

- (a) With respect to corrective action that arises from the test of a water sample for a microbiological parameter,
 - (i) take a set of water samples, at approximately the same time, with,
 - (A) at least one sample from the same location as the sample that gave rise to the corrective action,
 - (B) at least one sample from a location that is a significant distance upstream from the location described in sub-subclause (A), if that is reasonably possible, and
 - (C) at least one sample from a location that is a significant distance downstream from the location described in sub-subclause (A), if that is reasonably possible, and
 - (ii) conduct, on the samples taken under subclause (i), the same test that gave rise to the corrective action.

The resample results met the Ontario Drinking Water Quality Standard for total coliform.

There was also an adverse water quality incident as the result of a water main break on the Township of Severn side. A boil water notice was issued to consumers of the Somerset/ Knob Hill distribution system. Both the Township of Severn and the Operating Authority collected resamples. The Township of Severn reported the incident and were the lead for the corrective actions taken as a result of a water main break.

- **All required notifications of adverse water quality incidents were immediately provided as per O. Reg. 170/03 16-6.**

During the inspection review period there was one adverse water quality incident within the Somerset/ Knob Hill Distribution System. Verbal notifications were provided to the required parties within the required timelines, as per section 16-6 of Schedule 16 of Ontario Regulation 170/03. A loss of pressure was also reported by the Township of Severn.

- **The drinking water system was required to post warning notices and approved warning notices were posted in accordance with O. Reg. 170/03 19-2.**

During the inspection review period there was a watermain break for a section of main owned and operated by the Township of Severn that resulted in low pressure in the Somerset/ Knob Hill Water Distribution System. Boil Water Advisory notices prepared by the Township of Severn were hand delivered to all users of the Somerset/ Knob Hill

Reporting & Corrective Actions

Distribution System. After repairs and sampling were completed Township of Ramara prepared and distributed notices to users indicating that the Boil Water Advisory was lifted.

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

Section 10.1 (3) of Ontario Regulation 170/03 requires that if there is any change to the information given to the Director under subsection (1) or (2), the owner of the drinking water system shall give the Director written notice of the change within 10 days of the change.

At the time of inspection the contact and system information was accurate. The Owner is reminded that the contact information will need to be updated within ten days of the new CAO being appointed.

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. The secondary disinfectant residual was not measured as required for the distribution system.

During the inspection review period, a free chlorine residual was measured in the Somerset/ Knob Hill Distribution System between two and four times per week. A minimum of two chlorine residuals were measured during each week in the inspection review period. During four weeks there were not 48 hours between free chlorine residual samples.

Action(s) Required:

As required by subsections 7-2 (5) and 7-2 (6) of Schedule 7 of Ontario Regulation 170/03 the Owner and Operating Authority of the Somerset/ Knob Hill Water Distribution System shall ensure that at least two distribution samples are tested each week for free chlorine residual with at least 48 hours between the samples collected in each week.

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:

Laura Mary Greidanus

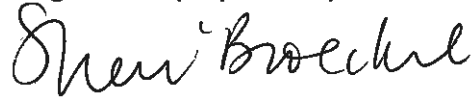
Signature: (Provincial Officer)



Reviewed & Approved By:

Sheri Broeckel

Signature: (Supervisor)



Review & Approval Date:

May 2, 2019

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.



Inspection Summary Rating Record

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

DWS Name: SOMERSET/ KNOB HILL DISTRIBUTION SYSTEM
DWS Number: 260046137
DWS Owner: Ramara, The Corporation Of The Township Of
Municipal Location: Ramara

Regulation: O.REG 170/03
Category: Small Municipal Residential System
Type Of Inspection: Adhoc
Inspection Date: April 9, 2019
Ministry Office: Barrie District

Maximum Question Rating: 279

Inspection Module	Non-Compliance Rating
Treatment Processes	0 / 56
Operations Manuals	0 / 28
Logbooks	0 / 18
Certification and Training	0 / 35
Water Quality Monitoring	0 / 51
Reporting & Corrective Actions	0 / 63
Operator Certification/Trainin	0 / 7
Treatment Process Monitoring	21 / 21
TOTAL	21 / 279

Inspection Risk Rating 7.53%

FINAL INSPECTION RATING: 92.47%

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

DWS Name: SOMERSET/ KNOB HILL DISTRIBUTION SYSTEM
DWS Number: 260046137
DWS Owner: Ramara, The Corporation Of The Township Of
Municipal Location: Ramara

Regulation: O.REG 170/03
Category: Small Municipal Residential System
Type Of Inspection: Adhoc
Inspection Date: April 9, 2019
Ministry Office: Barrie District

Non-compliant Question(s)	Question Rating
Treatment Process Monitoring	
Is the secondary disinfectant residual measured as required for the distribution system?	21
TOTAL QUESTION RATING	21

Maximum Question Rating: 279

Inspection Risk Rating 7.53%

FINAL INSPECTION RATING: 92.47%