

Killaloe Drinking Water System

2017 Annual Water Report

Reporting period of January 1, 2017 – December 31, 2017



Prepared For: The Township of Killaloe, Hagarty and Richards

Prepared By:



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

This report has been prepared to satisfy the annual reporting requirements of the
Provincial Regulations and Guidelines

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Report Availability

This system does not serve more than 10,000 residence and the annual reports will be available to residents at the Township of Killaloe, Hagarty and Richards Municipal Office. Notification will be at the Municipal Office and copies provided free of charge if requested. The Township of Killaloe, Hagarty and Richards is located at, 1 John Street in the Village of Killaloe.

There are no systems additional drinking water systems that receive water from this facility.

Compliance Report Card

| | |
|---------------------------------|---|
| Drinking Water System Number: | 220006026 |
| System Owner: | Township of Killaloe, Hagarty and Richards |
| Operating Authority: | Ontario Clean Water Agency |
| Drinking Water System Category: | Large Municipal Residential |
| Reporting Period: | January 1, 2017 – December 31, 2017 |

| Compliance Event | # of Events | Details |
|-------------------------------------|-------------|---|
| Ministry of Environment Inspections | 1 | Report received from September 19, 2017 inspection on December 13, 2017. <ul style="list-style-type: none"> No action required Inspection Rating 100% |
| Ministry of Labour Inspections | 0 | |
| QEMS External Audit | 0 | |
| AWQI's | 0 | |
| Non-Compliance | 1 | Trending failure because the analyzer was not holding calibration. San Eco Tech came on-site to fix issues with analyzer software. |
| Community Complaints | 0 | |
| Spills | 0 | |

Quality Control Measures

The Township of Killaloe, Hagarty and Richards facilities are part of OCWA's operational Eastern Regional Hub. The facilities are supported by cluster, regional and corporate resources. Operational Services are delivered by OCWA staff who live and work in the area.

OCWA operates facilities in compliance with applicable regulations. The facility has comprehensive manuals detailing operations, maintenance, instrumentation, and emergency procedures. All procedures are treated as active documents, with annual reviews.

OCWA has additional "Value Added" and operational support services that the Township of Killaloe, Hagarty and Richards benefits from including:

- Access to a network of operational compliance and support experts at the regional and corporate level, as well as affiliated programs that include the following:
 - Quality & Environmental Management System, Occupational Health & Safety System and an internal compliance audit system.
 - Process Data Management (PDM) facility operating information repository, which consolidates field data, online instrumentation, and electronic receipt of lab test results for reporting, tracking and analysis.
 - Work Management System (WMS) that tracks and reports maintenance activities, and creates predictive and preventative reports.
 - Outpost 5 wide-area SCADA system allows for process optimization and data logging, process trending, remote alarming and optimization of staff time.
- Client reporting which includes operational data, equipment inventory, financial statements, maintenance work orders, and capital status reports
- Site-Specific Contingency Plans and Standard Operating Procedures
- Use of accredited laboratories
- Additional support in response to unusual circumstances, and extra support in an emergency.
- Use of sampling schedules for external laboratory sampling

System Process Description

Raw Source

Raw water source for the Killaloe Drinking Water System is a well located at the Treatment Plant.



Treatment

Killaloe Water Treatment Plant is a single well, groundwater system equipped with greensand contactors that provide iron and manganese removal.



Pre-disinfection is provided using sodium hypochlorite and ultraviolet light. Secondary disinfection is being provided using stabilized hydrogen peroxide. The peroxide is injected prior to the clearwells and a residual is maintained through the distribution system.



Treatment Chemicals used during the reporting year:

| Chemical Name | Use | Supplier |
|------------------------------|--------------|--------------|
| Potassium Permanganate | Contactant | Cariox |
| Sodium Hypochlorite | Disinfection | Brenntag |
| Hydrogen Peroxide (Huwa San) | Disinfection | San Eco Tech |

Summary of Non-Compliance

Adverse Water Quality Incidents

| Date | AWQI # | Location | Problem | Legislation | Details | Corrective Action Taken |
|---|--------|----------|---------|-------------|---------|-------------------------|
| There were no Adverse Water Quality Incidents reported for this facility in 2017. | | | | | | |

Non-Compliance

| Legislation | requirement(s) system failed to meet | duration of the failure (i.e. date(s)) | Corrective Action | Status |
|-------------|--------------------------------------|--|--|----------|
| MDWL | Trending | 05-Jul-2017 to 10-Jul-2017 | San Eco Tech on-site to fix issues with analyzer software. | Repaired |

Non-Compliance Identified in a Ministry Inspection:

There was one (1) inspection reports received during this reporting period.

- Report received from December 13, 2017 inspection on September 19, 2017.
 - No action required
 - Inspection Rating 100%

| Legislation | requirement(s) system failed to meet | duration of the failure (i.e. date(s)) | Corrective Action | Status |
|--|--------------------------------------|--|-------------------|--------|
| No Actions Required in either inspection report received during this reporting period. | | | | |

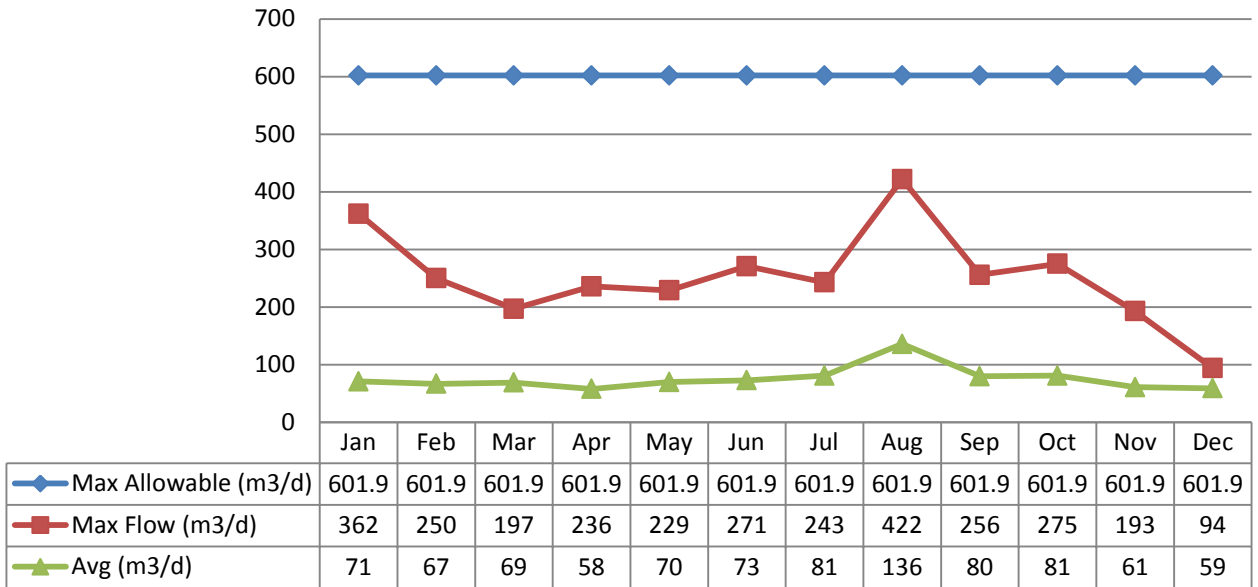
Flows

The Killaloe Drinking Water System is operating on average under half the rated capacity.

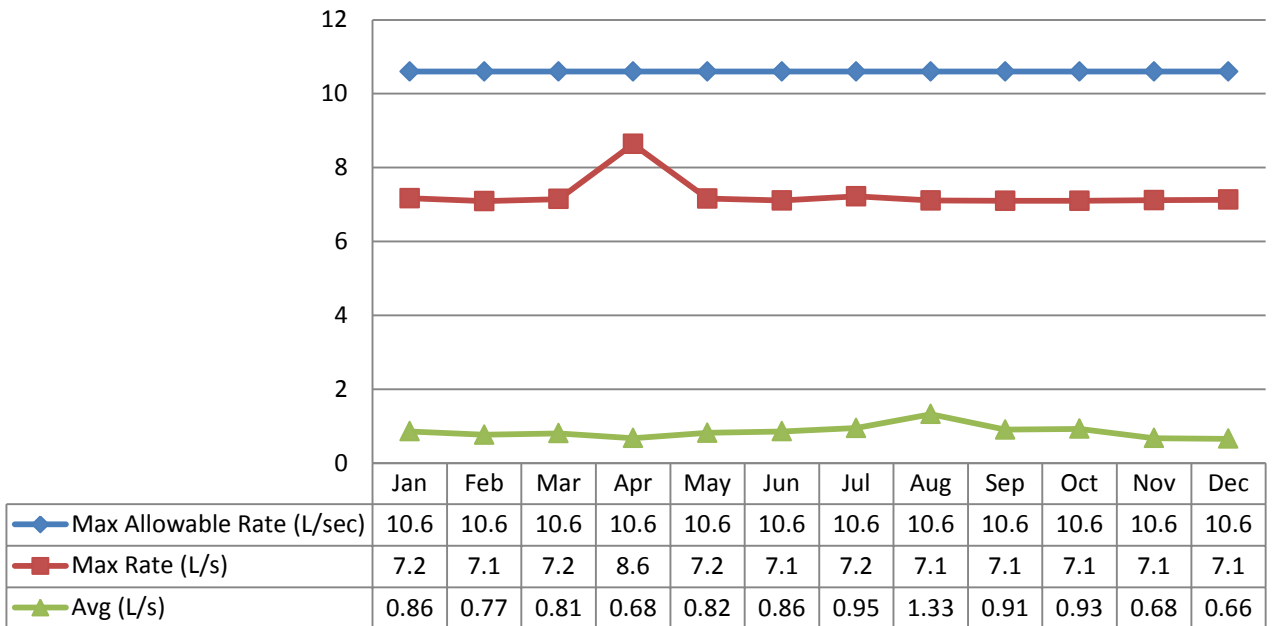
Raw Water Flows

The Raw Water flows are regulated under the Permit to Take Water.

Total Monthly Flows (m3/d)



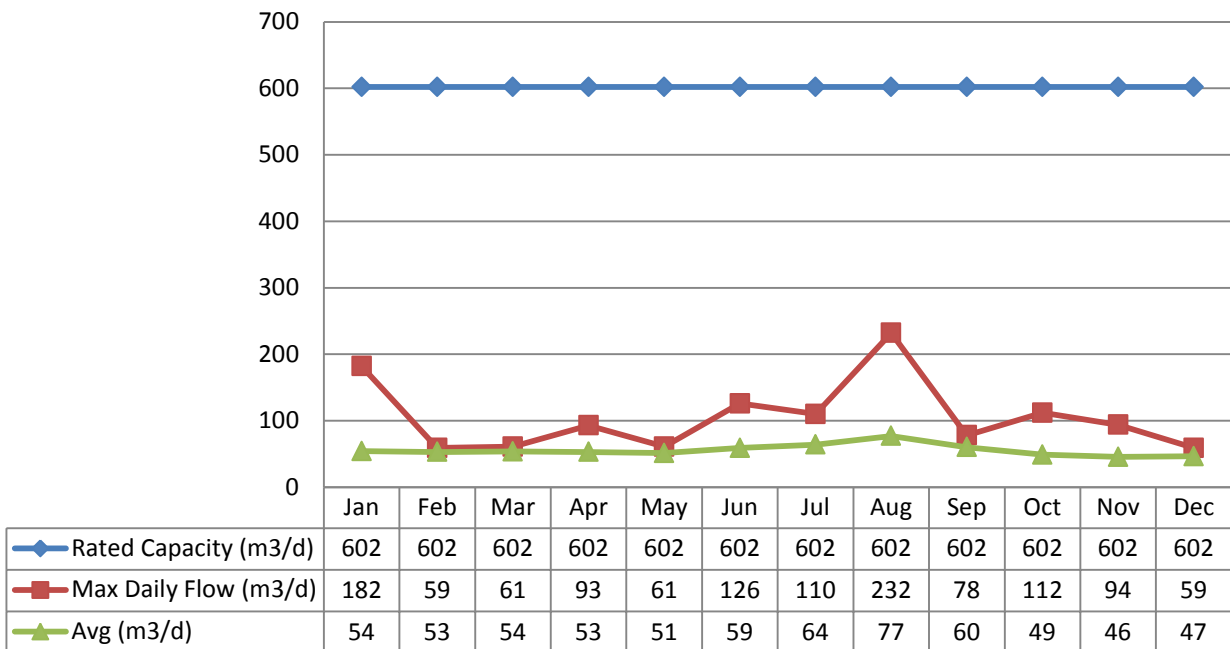
Monthly Rated Flows



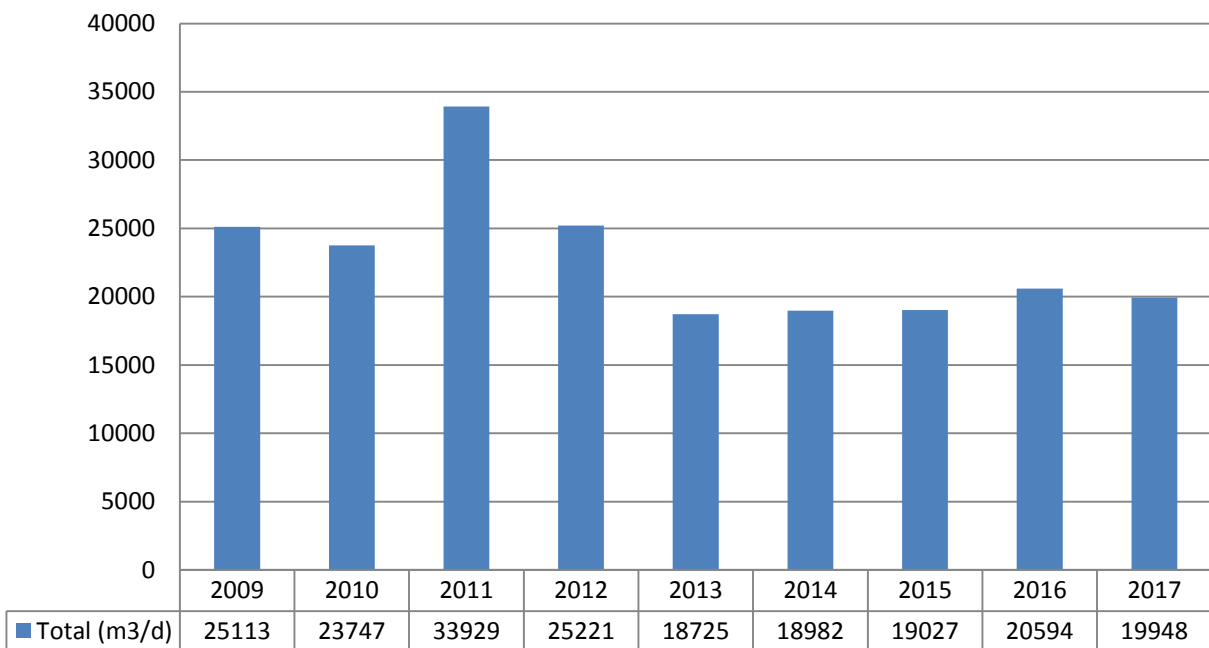
Treated Water Flows

The Treated Water flows are regulated under the Municipal Licence.

Total Monthly Flows (m3/d)



Annual Total Flow Comparison



Regulatory Sample Results Summary

Microbiological Testing

| | No. of Samples Collected | Range of E.Coli | | Range of Total Coliform Results | | Number of HPC Samples | Range of HPC Results | |
|--------------------|--------------------------|-----------------|-----|---------------------------------|-----|-----------------------|----------------------|------|
| | | Min | Max | Min | Max | | Min | Max |
| Raw Water | 52 | 0 | 0 | 0 | 0 | 0 | | |
| Treated Water | 52 | 0 | 0 | 0 | 0 | 52 | 0 | 20 |
| Distribution Water | 107 | 0 | 0 | 0 | 0 | 107 | 0 | 1780 |

Operational Testing

Chlorine is only used for primary disinfection as Hydrogen Peroxide is used for secondary disinfection in the distribution system.

Fluoride is not added to the process.

On-Line

| Parameter | Range of Results (min # - max #) |
|-------------------------|----------------------------------|
| Primary Free Chlorine | 0.43 – 1.0 mg/L |
| Pre Clearwell Peroxide | 0.023 – 19.995 ppm |
| Post Clearwell Peroxide | 5.16 – 8.73 ppm |
| Distribution Peroxide | 0.5 – 12.8 ppm |

NOTE: spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O.Reg 170/03 and the Municipal Drinking Water License

In-House

| Parameter | # of grab samples taken | Range of Results (min # - max #) |
|--------------------------------|-------------------------|----------------------------------|
| Primary Free Chlorine | 248 | 0.51 – 1.01 mg/L |
| Raw Colour | 104 | 2-6 TCU |
| Raw Iron | 104 | 0.116 – 0.246 mg/L |
| Raw Manganese | 104 | 0.161 – 0.263 mg/L |
| Raw Turbidity | 248 | 0.17 – 0.22 NTU |
| Raw pH | 105 | 7.8 – 8.1 |
| Treated Turbidity | 248 | 0.1 – 0.45 NTU |
| Treated Colour | 104 | 0 – 8 TCU |
| Treated pH | 105 | 7.8 – 8.21 |
| Treated Iron | 104 | 0.001 - 0.014 mg/L |
| Treated Manganese | 104 | 0.011 - 0.04 mg/L |
| Distribution pH | 52 | 7.8 – 8.1 |
| Distribution Peroxide Residual | 181 | 1.1 – 7 ppm |

Laboratory

| Parameter | # of Samples | Range of Results (min # - max #) |
|-------------------------------------|--------------|----------------------------------|
| Raw Alkalinity | 12 | 211 - 268 mg/L |
| Raw Colour | 12 | 6 - 10 TCU |
| Raw pH | 12 | 7.83 – 8.2 |
| Raw Total Dissolved Solids | 12 | 397 – 506 mg/L |
| Raw Hardness | 12 | 289 – 390 mg/L |
| Treated Alkalinity | 12 | 248 - 267 mg/L |
| Treated Colour | 12 | 3 - 6 TCU |
| Treated pH | 12 | 7.83 – 8.26 |
| Treated Total Dissolved Solids | 12 | 400 – 469 mg/L |
| Treated Hardness | 12 | 308 – 369 mg/L |
| Distribution Alkalinity | 13 | 239-267 mg/L |
| Distribution Colour | 12 | 4 - 8 TCU |
| Distribution pH | 12 | 7.86 – 8.25 |
| Distribution Total Dissolved Solids | 12 | 426 – 477 mg/L |
| Distribution Hardness | 12 | 313 – 365 mg/L |
| Production Well Benzene | 1 | <0.32 ug/L |
| Production Well Ethylbenzene | 1 | <0.33 ug/L |
| Production Well m/p-xylene | 1 | <0.43 ug/L |
| Production Well o-xylene | 1 | <0.17 ug/L |
| Production Well Xylene: Total | 1 | <0.43 mg/L |
| Production Well Toluene | 1 | <0.36 ug/L |
| Test Well Benzene | 1 | <0.32 ug/L |
| Test Well Ethylbenzene | 1 | <0.33 ug/L |
| Test Well m/p-xylene | 1 | <0.43 ug/L |
| Test Well o-xylene | 1 | <0.17 ug/L |
| Test Well Xylene: Total | 1 | <0.43 mg/L |
| Test Well Toluene | 1 | <0.36 ug/L |

Additional Legislated Samples

| Legal Document | Date of Issuance | Parameter | Date Sampled | Result | Unit of measure |
|----------------------------|------------------|------------------------------------|--------------|--------|-----------------|
| Municipal License #259-101 | 02-Dec-2015 | Backwash Effluent Suspended Solids | Annual Avg | 2.455 | mg/L |

| Legal Document | Date of Issuance | Parameter | Date Sampled | Result | Unit of measure |
|----------------|------------------|----------------------|--------------|-------------|-----------------|
| | | Backwash Effluent pH | Annual Avg | 7.79 | no units |
| | | Distribution Copper | January 2017 | 51.3 – 80.8 | ug/L |
| | | | July 2017 | 49.4 – 53.1 | ug/L |
| | | Distribution Lead | January 2017 | 0.09 – 0.24 | ug/L |
| | | | July 2017 | 0.21 – 0.23 | ug/L |

- Hydrogen peroxide residuals see Operational Testing
- HPC Testing Results see Microbiological testing
- pH testing results see Operational Testing

Inorganic Parameters

These parameters are tested annually as a requirement under 170/03. Sodium and Fluoride are required to be tested every 5 years. Nitrates are tested quarterly as required under 170/03. In the event any of the parameters (except Sodium and Fluoride) exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O.Reg 169/03
- BDL = Below the laboratory detection level

| | Sample Date (mm/dd/yyyy) | Sample Result | MAC | No. of Exceedances | |
|------------------------------|-----------------------------|---------------|--------|--------------------|---------|
| | | | | MAC | 1/2 MAC |
| Treated Water | | | | | |
| Antimony: Sb (ug/L) - TW | 2017/01/04 | 0.02 | 6.0 | No | No |
| Arsenic: As (ug/L) - TW | 2017/01/04 | <MDL 0.2 | 25.0 | No | No |
| Barium: Ba (ug/L) - TW | 2017/01/04 | 171.0 | 1000.0 | No | No |
| Boron: B (ug/L) - TW | 2017/01/04 | 124.0 | 5000.0 | No | No |
| Cadmium: Cd (ug/L) - TW | 2017/01/04 | 0.005 | 5.0 | No | No |
| Chromium: Cr (ug/L) - TW | 2017/01/04 | 0.55 | 50.0 | No | No |
| Mercury: Hg (ug/L) - TW | 2017/01/04 | <MDL 0.01 | 1.0 | No | No |
| Selenium: Se (ug/L) - TW | 2017/01/04 | 0.08 | 50.0 | No | No |
| Uranium: U (ug/L) - TW | 2017/01/04 | 2.2 | 20.0 | No | No |
| Additional Inorganics | | | | | |
| Fluoride (mg/L) - TW | 2013/01/03 | 0.27 | 1.5 | No | No |
| Nitrite (mg/L) - TW | 2017/01/03 | <MDL 0.003 | 1.0 | No | No |
| Nitrite (mg/L) - TW | 2017/04/04 | <MDL 0.003 | 1.0 | No | No |
| Nitrite (mg/L) - TW | 2017/07/04 | 0.04 | 1.0 | No | No |
| Nitrite (mg/L) - TW | 2017/10/03 | <MDL 0.003 | 1.0 | No | No |
| Nitrate (mg/L) - TW | 2017/01/03 | 0.014 | 10.0 | No | No |
| Nitrate (mg/L) - TW | 2017/04/04 | 0.01 | 10.0 | No | No |
| Nitrate (mg/L) - TW | 2017/07/04 | 0.044 | 10.0 | No | No |
| Nitrate (mg/L) - TW | 2017/10/03 | 0.009 | 10.0 | No | No |
| Sodium: Na (mg/L) - TW | 2013/01/09 | 30.4 | 20* | Yes | Yes |

*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified mg/L when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Schedule 15 Sampling:

This facility is sampling under the exemption requirements of O.Reg 170/03 sampling program.

| Location Type | Number of Samples | Range of Results | | MAC (ug/L) | Number of Exceedances |
|--|-------------------|------------------|---------|------------|-----------------------|
| | | Minimum | Maximum | | |
| Distribution Water - Lead Results (ug/L) | 4 | 0.09 | 0.24 | 10 | 0 |
| Distribution Water - Alkalinity (mg/L) | 13 | 239 | 267 | n/a | n/a |
| Distribution Water - pH | 12 | 7.86 | 8.25 | n/a | n/a |

The Municipal License requires lead sampling to be sampled every 6 months. The sample results are included in this report under the "Additional Legislated Samples".

Organic Parameters

These parameters are tested annually as a requirement under 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

•

| | Sample Date (mm/dd/yyyy) | Sample Result | MAC | Number of Exceedances | |
|--|--------------------------|---------------|--------|-----------------------|---------|
| | | | | MAC | 1/2 MAC |
| TREATED WATER | | | | | |
| Alachlor (ug/L) - TW | 2017/01/04 | <MDL 0.02 | 5.00 | No | No |
| Atrazine + N-dealkylated metabolites (ug/L) - TW | 2017/01/04 | <MDL 0.01 | 5.00 | No | No |
| Azinphos-methyl (ug/L) - TW | 2017/01/04 | <MDL 0.05 | 20.00 | No | No |
| Benzene (ug/L) - TW | 2017/01/04 | <MDL 0.32 | 1.00 | No | No |
| Benzo(a)pyrene (ug/L) - TW | 2017/01/04 | <MDL 0.004 | 0.01 | No | No |
| Bromoxynil (ug/L) - TW | 2017/01/04 | <MDL 0.33 | 5.00 | No | No |
| Carbaryl (ug/L) - TW | 2017/01/04 | <MDL 0.05 | 90.00 | No | No |
| Carbofuran (ug/L) - TW | 2017/01/04 | <MDL 0.01 | 90.00 | No | No |
| Carbon Tetrachloride (ug/L) - TW | 2017/01/04 | <MDL 0.16 | 2.00 | No | No |
| Chlorpyrifos (ug/L) - TW | 2017/01/04 | <MDL 0.02 | 90.00 | No | No |
| Diazinon (ug/L) - TW | 2017/01/04 | <MDL 0.02 | 20.00 | No | No |
| Dicamba (ug/L) - TW | 2017/01/04 | <MDL 0.2 | 120.00 | No | No |
| 1,2-Dichlorobenzene (ug/L) - TW | 2017/01/04 | <MDL 0.41 | 200.00 | No | No |
| 1,4-Dichlorobenzene (ug/L) - TW | 2017/01/04 | <MDL 0.36 | 5.00 | No | No |
| 1,2-Dichloroethane (ug/L) - TW | 2017/01/04 | <MDL 0.35 | 5.00 | No | No |
| 1,1-Dichloroethylene (ug/L) - TW | 2017/01/04 | <MDL 0.33 | 14.00 | No | No |

| | Sample Date (mm/dd/yyyy) | Sample Result | MAC | Number of Exceedances | |
|---|-----------------------------|---------------|---------|-----------------------|------------|
| | | | | MAC | 1/2 MAC |
| Dichloromethane (Methylene Chloride) (ug/L) - TW | 2017/01/04 | <MDL 0.35 | 50.00 | No | No |
| 2,4-Dichlorophenol (ug/L) - TW | 2017/01/04 | <MDL 0.15 | 900.00 | No | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW | 2017/01/04 | <MDL 0.19 | 100.00 | No | No |
| Diclofop-methyl (ug/L) - TW | 2017/01/04 | <MDL 0.4 | 9.00 | No | No |
| Dimethoate (ug/L) - TW | 2017/01/04 | <MDL 0.03 | 20.00 | No | No |
| Diquat (ug/L) - TW | 2017/01/04 | <MDL 1.0 | 70.00 | No | No |
| Diuron (ug/L) - TW | 2017/01/04 | <MDL 0.03 | 150.00 | No | No |
| Glyphosate (ug/L) - TW | 2017/01/04 | <MDL 1.0 | 280.00 | No | No |
| Malathion (ug/L) - TW | 2017/01/04 | <MDL 0.02 | 190.00 | No | No |
| Metolachlor (ug/L) - TW | 2017/01/04 | <MDL 0.01 | 50.00 | No | No |
| 2-Methyl-4chlorophenoxyacetic Acid (MCPA) | 2017/01/04 | <MDL 0.00012 | 0.00012 | No | No |
| Metribuzin (ug/L) - TW | 2017/01/04 | <MDL 0.02 | 80.00 | No | No |
| Monochlorobenzene (Chlorobenzene) (ug/L) - TW | 2017/01/04 | <MDL 0.3 | 80.00 | No | No |
| Paraquat (ug/L) - TW | 2017/01/04 | <MDL 1.0 | 10.00 | No | No |
| PCB (ug/L) - TW | 2017/01/04 | <MDL 0.04 | 3.00 | No | No |
| Pentachlorophenol (ug/L) - TW | 2017/01/04 | <MDL 0.15 | 60.00 | No | No |
| Phorate (ug/L) - TW | 2017/01/04 | <MDL 0.01 | 2.00 | No | No |
| Picloram (ug/L) - TW | 2017/01/04 | <MDL 1.0 | 190.00 | No | No |
| Prometryne (ug/L) - TW | 2017/01/04 | <MDL 0.03 | 1.00 | No | No |
| Simazine (ug/L) - TW | 2017/01/04 | <MDL 0.01 | 10.00 | No | No |
| Terbufos (ug/L) - TW | 2017/01/04 | <MDL 0.01 | 1.00 | No | No |
| Tetrachloroethylene (ug/L) - TW | 2017/01/04 | <MDL 0.35 | 10.00 | No | No |
| 2,3,4,6-Tetrachlorophenol (ug/L) - TW | 2017/01/04 | <MDL 0.2 | 100.00 | No | No |
| Triallate (ug/L) - TW | 2017/01/04 | <MDL 0.01 | 230.00 | No | No |
| Trichloroethylene (ug/L) - TW | 2017/01/04 | <MDL 0.44 | 5.00 | No | No |
| 2,4,6-Trichlorophenol (ug/L) - TW | 2017/01/04 | <MDL 0.25 | 5.00 | No | No |
| Trifluralin (ug/L) - TW | 2017/01/04 | <MDL 0.02 | 45.00 | No | No |
| Vinyl Chloride (ug/L) - TW | 2017/01/04 | <MDL 0.17 | 1.00 | No | No |
| DISTRIBUTION WATER | | | | | |
| Trihalomethane: Total (ug/L) Annual Average - DW | 2017 | 32.0 | 100.00 | No | No |

Evaluation of the Effectiveness of Secondary Disinfectant

The hydrogen peroxide continues to work well as a secondary disinfection while producing reduced THM's within the distribution system. All parameters that are being monitored are remaining within compliance and normal operating limits. There have been no significant anomalies in any tested levels.

Maintenance Summary

OCWA uses a risk-based preventative maintenance framework that ensures assets are maintained to manufacturer's and/or industry standards. Maintenance is completed using various tools and operational supports. The Eastern Regional Hub has specialized certified staff such as Millwrights, Electricians and Instrumentation Specialists to name a few.

OCWA uses a Workplace Maintenance System (WMS). WMS is a maintenance tracking system that can generate work orders as well as give summaries of completed and scheduled work. During the year, the operating authority at the facility generates scheduled work orders on a weekly, monthly and annual basis. The service work is recorded in the work order history. This ensures routine and preventive maintenance is carried out. Emergency and capital repair maintenance is completed and added to the system.

Capital projects are listed and provided to the Township of Killaloe, Hagarty and Richards in the form of a "Capital Forecast". This list is developed by facility staff and provides recommendations for facility components requiring upgrading or improvement.

| | |
|--|-----|
| Preventative Maintenance Work Orders Completed | 194 |
| Operational Maintenance Work Orders Completed | 65 |
| Corrective Maintenance Work Orders Completed | 23 |

Maintenance Highlights

| WO# | Details |
|--------|---|
| 243677 | SAI Global Internal Audit |
| 344567 | Avive Annual Maintenance |
| 346282 | H2Flow Annual UV system sensor calibrations |

Distribution Maintenance Highlights

| Date of Incident | Street | Details | Corrective Action Taken |
|--|--------|---------|-------------------------|
| There were no Watermain Breaks during this reporting period. | | | |

Community Complaints

There were no complaints received during the reporting year.

QEMS

The Ontario Clean Water Agency has received Full scope accreditation. There was an external surveillance audit completed. There were no non-conformances identified. The Internal Audit and Management Review were completed. Minutes from the Management Review were provided to the Town.

Water Taking and Transfer Data

2017 data was submitted electronically on January 18, 2018 under permit #2835-9LMRUZ. The WTRS data and submission confirmation are attached in Appendix A.

Small System Summary

The Ontario Clean Water Agency sampled at four (4) small Ministry of Health regulated systems owned by The Township of Killaloe, Hagarty and Richards. Below is a summary of the sample results.

Sampling Results

| Location | Number of Samples | E.coli Results (min) - (max) | Total Coliform Results (min) – (max) |
|-------------------------|-------------------|------------------------------|--------------------------------------|
| Killaloe Rink | 11 | 0 – 0 | 0 – 1 |
| Killaloe Medical Center | 4 | 0 – 0 | 0 – 0 |
| Round Lake Arena | 4 | 0 – 0 | 0 – 0 |

Non-Compliance/Adverse Results

| Facility | Date | Legislation | AWQI # | Problem | Corrective Action |
|---------------|-----------------|-------------|--------|------------------|--|
| Killaloe Rink | August 24, 2017 | 319/09 | 62404 | 1 Total Coliform | Resampled. No Action required due to low count |

Maintenance Highlights

- Operations staff clean UV system and replace sediment filters as required at the Killaloe Medical Center.

Appendix A

WTRS Data and Submission Confirmation

Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#)

WTRS-WT-008

Water Taking Data submitted successfully.**Confirmation:**

Thank you for submitting your water taking data online.

Permit Number: 2835-9LMRUZ

Permit Holder: THE CORPORATION OF THE TOWNSHIP OF KILLALOE, HAGARTY AND RICHARDS.

Received on: Jan 18, 2018 11:18 AM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

[Return to Main Page](#)

TOWNSHIP2 KILLALOE2 | 2018/01/18

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Appendix B

Raw Water Data

Killaloe Drinking Water System - RW Chems

