

# Killaloe Drinking Water System

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Waterworks # 220006026  
System Category – Large Municipal Residential

## Annual Water Report

Prepared For: Township of Killaloe, Hagarty and Richards



Reporting Period of January 1<sup>st</sup> – December 31<sup>st</sup> 2022

Issued: February 16<sup>th</sup>, 2023

Revision: 0

Operating Authority:



This report has been prepared to satisfy the annual reporting requirements in O.Reg 170/03 Section 11 and Schedule 22

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## Report Availability

The annual report will be available to residents at the Township of Killaloe, Hagarty and Richards Municipal Office and copies provided free of charge if requested. The Township of Killaloe, Hagarty and Richards Municipal Office is located at, 1 John Street, Killaloe, Ontario.

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

## Compliance Report Card

| Compliance Event                    | # of Events  |
|-------------------------------------|--|
| Ministry of Environment Inspections | 1 MECP Inspection on August 25 <sup>th</sup> 2022<br>100% Rating   |
| Ministry of Labour Inspections      | 0  |
| QEMS External Audit                 | 1 Surveillance System Audit and 1 Re-Accreditation Audit were completed on February 4 <sup>th</sup> and 10 <sup>th</sup> 2022 by SAI Global. No major or minor non-conformances were identified. |
| AWQI's/BWA                          | 0/0  |
| Non-Compliance                      | 2  |
| Community Complaints                | 0  |
| Spills                              | 0  |
| Watermain Breaks                    | 0  |

## System Process Description

### Raw Source

The Killaloe Drinking Water System's raw water is drawn from a ground water production well. The well is located approximately 33 m east of the treatment plant in a prefabricated steel building. The well was drilled in 1989 measuring 200 mm in diameter, 56 m deep and is equipped with a submersible pump rated at 418 L/min at a total dynamic head (TDH) of 57.5 metres.

## Treatment

Groundwater is directed to the treatment plant through a 100 mm diameter discharge line where sodium hypochlorite is added to aid in the primary disinfection process. The water then flows through a dual media Green Sand Contactor for iron and manganese removal. Potassium permanganate is added to assist in the recharging of the greensand contactor. The water is then directed to a pair of UV disinfection systems (one duty, one standby) to achieve CT. Prior to entering the clearwells, stabilized hydrogen peroxide is added to achieve secondary disinfection.

Treated water is discharged into a clear well with a total storage 620 m<sup>3</sup>. Five high lift pumps consisting of 3 vertical turbine pumps, one vertical turbine fire pump and one vertical turbine jockey pump provide water to the distribution system. Two 1400 L hydropneumatic pressure tanks maintain distribution system pressure and provide some storage.

The process wastewater and filter to waste water from the green sand contactor discharges into a wastewater 75 m<sup>3</sup> settling pond located 20 metres southwest of the treatment plant.

## Distribution

This Class 1 Water Distribution system supplies treated water to an estimated of population of 660 people. The distribution system consists of an assortment of plastic piping. Various valves are installed on the distribution lines to allow for isolation and flow direction control. The distribution piping runs as far north as Mill Street, east as Coll Street, south as Cameron Street and west as Angus Street. 12 fire hydrants are located throughout the distribution system.

### *Treatment Chemicals used during the reporting year:*

| Chemical Name                           | Use               | Supplier            |
|---|-------------------|---------------------|
| Potassium Permanganate (granular 97.5%) | Manganese Control | Cariox via Brenntag |
| Sodium Hypochlorite (12%)               | Disinfection      | Brenntag            |
| Hydrogen Peroxide (Huwa San)            | Disinfection      | Arbourdale          |

## Summary of Non-Compliance

### Adverse Water Quality Incidents

| Date            | AWQI # | Location | Problem | Details | Legislation | Corrective Action Taken |
|-----------------|--------|----------|---------|---------|-------------|-------------------------|
| None to report. |        |          |         |         |             |                         |

### Non-Compliance

| Legislation | requirement(s) system failed to meet  | duration of the failure (i.e. date(s))                           | Corrective Action   | Status   |
|-------------|---|--|---|----------|
| MDWL        | Flow measuring devices were not calibrated within 30 days after the first anniversary of the day the equipment was calibrated in the previous 12-month period   | May 12, 2022 until June 22, 2022                                 | Operations staff received training on the MDWL's Schedule C for the system specific conditions of the facility  | Complete |
| MDWL        | The ultraviolet light disinfection equipment did not test the UV Intensity or UV Lamp Status every 5 minutes or less and did not record the test data at a frequency of once every four hours or less | July 26th 2022 at 7:10:23 AM until July 31st 2022 at 20:16:03 PM | A village wide internet outage caused a communication loss between the UV equipment and OCWA's trending system. Staff received training on OCWA's Continuous Monitoring - Compliance Analyzers SOP and the MDWL UV continuous monitoring requirements | Complete |

### Non-Compliance Identified in a Ministry Inspection:

| Legislation     | requirement(s) system failed to meet | duration of the failure (i.e. date(s)) | Corrective Action | Status |
|-----------------|--------------------------------------|--|-------------------|--------|
| None to report. |                                      |  |                   |        |

## Flows

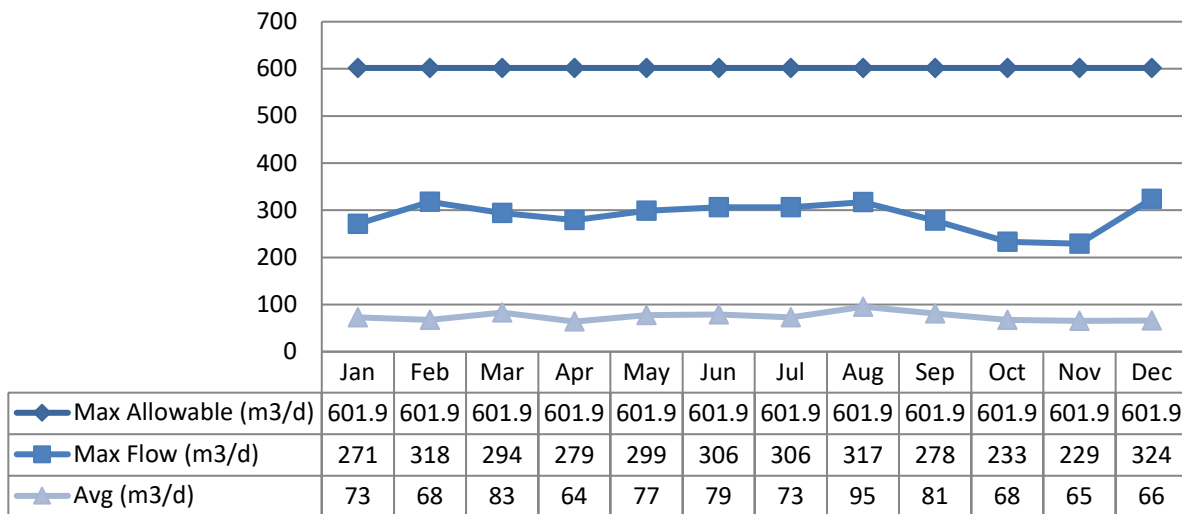
The Killaloe Drinking Water System is operating on average under half the rated capacity.

### Raw Water Flows

The Raw Water flows are regulated under the Permit to Take Water (PTTW). 2022 Raw Flow Data was submitted to the Ministry electronically under permit #2835-9LMRUZ. The confirmation that the data that was submitted is attached in Appendix A.

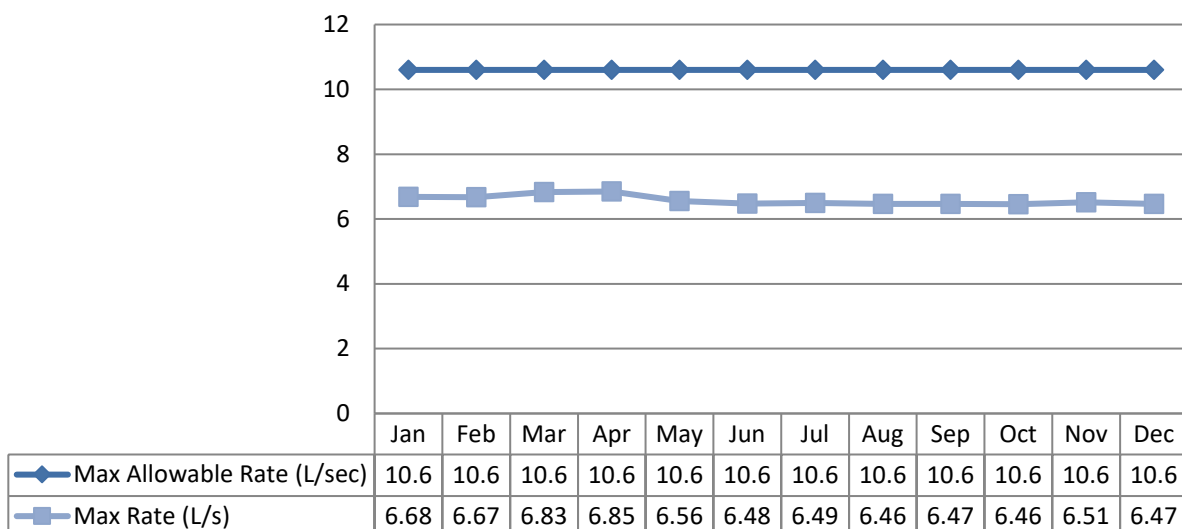
#### Total Monthly Flows

Max Allowable - PTTW



#### Monthly Rated Flows

Max Allowable Rate - PTTW

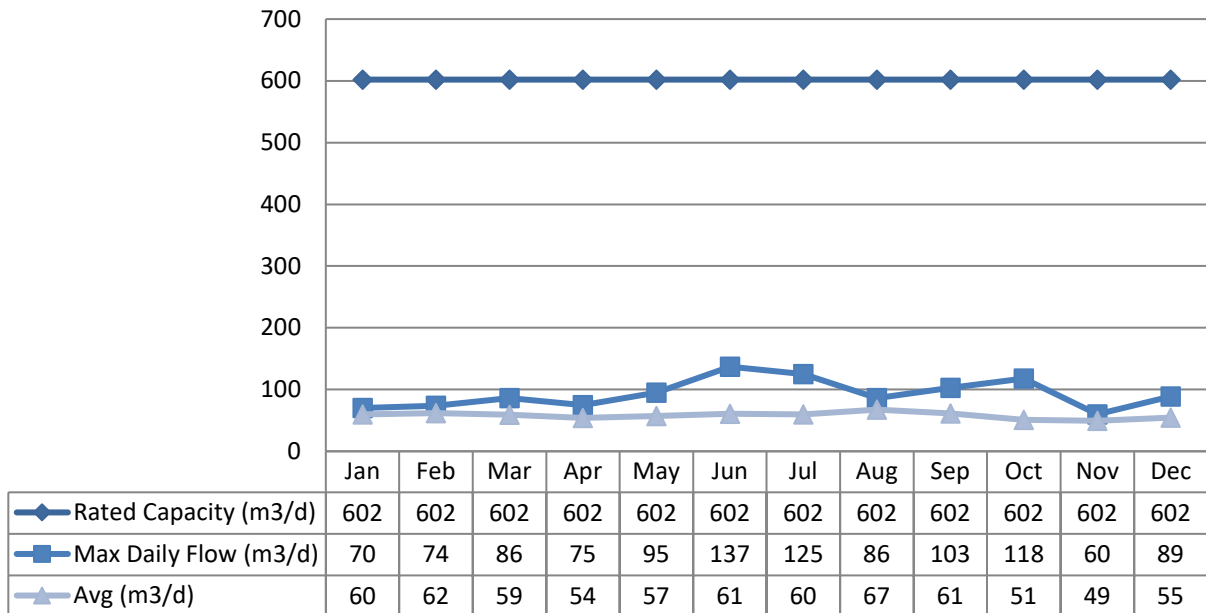


### Treated Water Flows

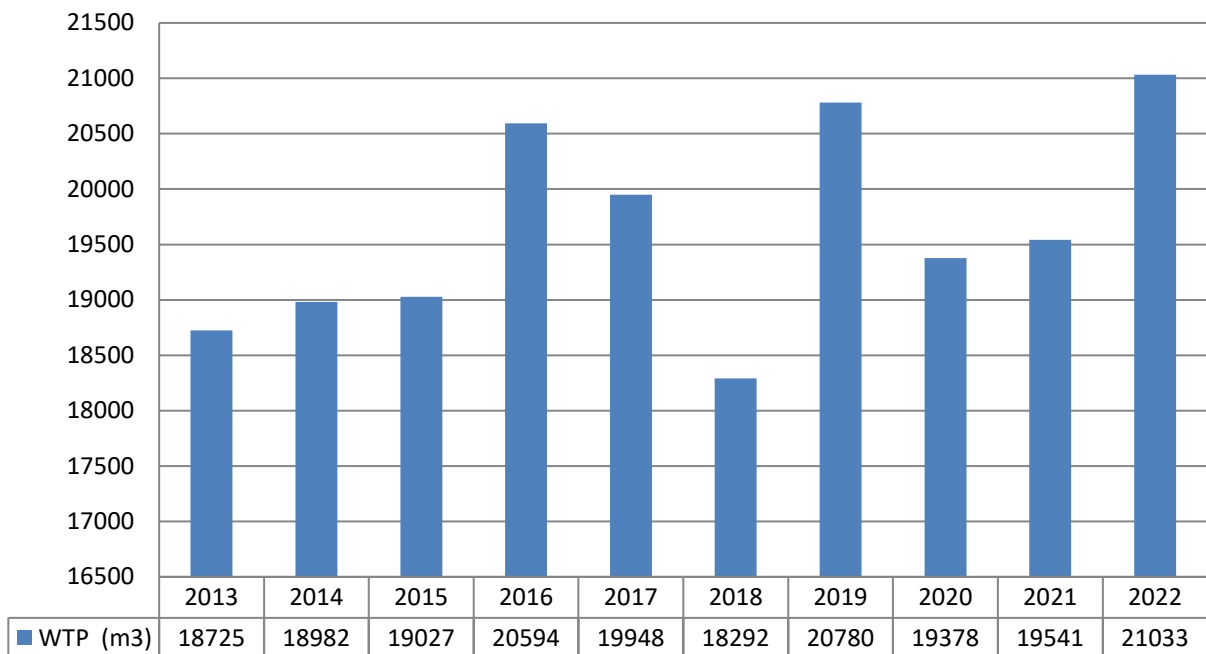
The Treated Water flows are regulated under the Municipal Drinking Water Licence (MDWL).

#### Monthly Rated Flows

Rated Capacity - MDWL



#### Annual Total Flow Comparison



## Regulatory Sample Results Summary

### Microbiological Testing

|                    | No. of Samples Collected | Range of E.Coli Results |     | Range of Total Coliform Results |     | Range of HPC Results |     |
|--------------------|--------------------------|-------------------------|-----|---------------------------------|-----|----------------------|-----|
|                    |                          | Min                     | Max | Min                             | Max | Min                  | Max |
| Raw Water          | 54                       | 0                       | 0   | 0                               | 0   | N/A                  | N/A |
| Treated Water      | 54                       | 0                       | 0   | 0                               | 0   | 0                    | 8   |
| Distribution Water | 115                      | 0                       | 0   | 0                               | 0   | 0                    | 27  |

### Operational Testing

|   | No. of Samples Collected | Range of Results |         |
|---|--------------------------|------------------|---------|
|   |                          | Minimum          | Maximum |
| Turbidity, In-House (NTU) - RW                        | 183                      | 0.16             | 0.77    |
| Turbidity, In-House (NTU) - TW                        | 243                      | 0.10             | 0.40    |
| Free Chlorine Residual, On-Line (mg/L) - TW           | 8760                     | 0.55             | 1.00    |
| Free Chlorine Residual, In-House (mg/L) - TW          | 182                      | 0.58             | 1.02    |
| Post Clearwell Peroxide Residual, On-Line (mg/L) - TW | 8760                     | 3.59             | 9.15    |
| Distribution Peroxide Residual, In-House (mg/L) - DW  | 217                      | 0.90             | 4.60    |
| Distribution Peroxide Residual, On-Line (mg/L) - DW   | 8760                     | 1.69             | 6.82    |
| Distribution pH, In-House - DW                        | 52                       | 7.46             | 7.94    |
| UV Transmittance (%) - RW                             | 51                       | 85.0             | 89.0    |

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

### Inorganic Parameters

These parameters are tested as a requirement under O. Reg. 170/03. Sodium and Fluoride are required to be tested every 60 months. Nitrate and Nitrite are tested quarterly and metals are tested annually as required under O. Reg. 170/03. In the event any parameter exceeds half the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg. 169/03
- <MDL = Less than Method Detection Limit

|                          | Sample Date (yyyy/mm/dd) | Sample Result | MAC    | No. of Exceedances |         |
|--------------------------|--------------------------|---------------|--------|--------------------|---------|
|                          |                          |               |        | MAC                | 1/2 MAC |
| <b>Treated Water</b>     |                          |               |        |                    |         |
| Antimony: Sb (ug/L) - TW | 2022/01/10               | <MDL 0.6      | 6.0    | No                 | No      |
| Arsenic: As (ug/L) - TW  | 2022/01/10               | <MDL 0.2      | 10.0   | No                 | No      |
| Barium: Ba (ug/L) - TW   | 2022/01/10               | 153.0         | 1000.0 | No                 | No      |
| Boron: B (ug/L) - TW     | 2022/01/10               | 100.0         | 5000.0 | No                 | No      |
| Cadmium: Cd (ug/L) - TW  | 2022/01/10               | <MDL 0.003    | 5.0    | No                 | No      |
| Chromium: Cr (ug/L) - TW | 2022/01/10               | 0.16          | 50.0   | No                 | No      |
| Mercury: Hg (ug/L) - TW  | 2022/01/10               | <MDL 0.01     | 1.0    | No                 | No      |
| Selenium: Se (ug/L) - TW | 2022/01/10               | <MDL 0.04     | 50.0   | No                 | No      |



|                              | Sample Date<br>(yyyy/mm/dd) | Sample Result | MAC  | No. of Exceedances |         |
|------------------------------|-----------------------------|---------------|------|--------------------|---------|
|                              |                             |               |      | MAC                | 1/2 MAC |
| Uranium: U (ug/L) - TW       | 2022/01/10                  | 1.83          | 20.0 | No                 | No      |
| <b>Additional Inorganics</b> |                             |               |      |                    |         |
| Nitrite (mg/L) - TW          | 2022/01/10                  | 0.004         | 1.0  | No                 | No      |
| Nitrite (mg/L) - TW          | 2022/04/04                  | <MDL 0.003    | 1.0  | No                 | No      |
| Nitrite (mg/L) - TW          | 2022/07/04                  | <MDL 0.003    | 1.0  | No                 | No      |
| Nitrite (mg/L) - TW          | 2022/10/03                  | <MDL 0.003    | 1.0  | No                 | No      |
| Nitrate (mg/L) - TW          | 2022/01/10                  | 0.011         | 10.0 | No                 | No      |
| Nitrate (mg/L) - TW          | 2022/04/04                  | 0.009         | 10.0 | No                 | No      |
| Nitrate (mg/L) - TW          | 2022/07/04                  | 0.009         | 10.0 | No                 | No      |
| Nitrate (mg/L) - TW          | 2022/10/03                  | 0.012         | 10.0 | No                 | No      |
| Fluoride (mg/L) - TW         | 2022/01/10                  | 0.26          | 1.5  | No                 | No      |
| Sodium: Na (mg/L) - TW       | 2022/01/10                  | 25.4          | 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 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:

The Schedule 15 Sampling is required under O.Reg 170/03. This system is under reduced sampling. No plumbing samples were collected.

| Distribution System | Number of Sampling Points | Number of Samples | Range of Results |         | MAC (ug/L) | Number of Exceedances |
|---------------------|---------------------------|-------------------|------------------|---------|------------|-----------------------|
|                     |                           |                   | Minimum          | Maximum |            |                       |
| Alkalinity (mg/L)   | 1                         | 3                 | 249              | 272     | N/A        | N/A                   |
| pH                  | 1                         | 2                 | 7.61             | 7.74    | N/A        | N/A                   |
| Lead (ug/l)         | 1                         | 1                 | 0.09             | 0.09    | 10         | 0                     |

#### Organic Parameters

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

- MAC = Maximum Allowable Concentration as per O. Reg. 169/03
- <MDL = Less than Method Detection Limit

|  | Sample Date<br>(yyyy/mm/dd) | Sample Result | MAC  | Number of Exceedances |         |
|--|-----------------------------|---------------|------|-----------------------|---------|
|  |                             |               |      | MAC                   | 1/2 MAC |
| <b>Treated Water</b>                             |                             |               |      |                       |         |
| Alachlor (ug/L) - TW                             | 2022/01/10                  | <MDL 0.02     | 5.0  | No                    | No      |
| Atrazine + N-dealkylated metabolites (ug/L) - TW | 2022/01/10                  | <MDL 0.01     | 5.0  | No                    | No      |
| Azinphos-methyl (ug/L) - TW                      | 2022/01/10                  | <MDL 0.05     | 20.0 | No                    | No      |
| Benzene (ug/L) - TW                              | 2022/01/10                  | <MDL 0.32     | 1.0  | No                    | No      |
| Benzo(a)pyrene (ug/L) - TW                       | 2022/01/10                  | <MDL 0.004    | 0.01 | No                    | No      |
| Bromoxynil (ug/L) - TW                           | 2022/01/10                  | <MDL 0.33     | 5.0  | No                    | No      |
| Carbaryl (ug/L) - TW                             | 2022/01/10                  | <MDL 0.05     | 90.0 | No                    | No      |
| Carbofuran (ug/L) - TW                           | 2022/01/10                  | <MDL 0.01     | 90.0 | No                    | No      |

|  | Sample Date<br>(yyyy/mm/dd) | Sample Result | MAC   | Number of Exceedances |            |
|--|-----------------------------|---------------|-------|-----------------------|------------|
|  |                             |               |       | MAC                   | 1/2<br>MAC |
| Carbon Tetrachloride (ug/L) - TW                       | 2022/01/10                  | <MDL 0.17     | 2.0   | No                    | No         |
| Chlorpyrifos (ug/L) - TW                               | 2022/01/10                  | <MDL 0.02     | 90.0  | No                    | No         |
| Diazinon (ug/L) - TW                                   | 2022/01/10                  | <MDL 0.02     | 20.0  | No                    | No         |
| Dicamba (ug/L) - TW                                    | 2022/01/10                  | <MDL 0.2      | 120.0 | No                    | No         |
| 1,2-Dichlorobenzene (ug/L) - TW                        | 2022/01/10                  | <MDL 0.41     | 200.0 | No                    | No         |
| 1,4-Dichlorobenzene (ug/L) - TW                        | 2022/01/10                  | <MDL 0.36     | 5.0   | No                    | No         |
| 1,2-Dichloroethane (ug/L) - TW                         | 2022/01/10                  | <MDL 0.35     | 5.0   | No                    | No         |
| 1,1-Dichloroethylene (ug/L) - TW                       | 2022/01/10                  | <MDL 0.33     | 14.0  | No                    | No         |
| Dichloromethane (Methylene Chloride) (ug/L) - TW       | 2022/01/10                  | <MDL 0.35     | 50.0  | No                    | No         |
| 2,4-Dichlorophenol (ug/L) - TW                         | 2022/01/10                  | <MDL 0.15     | 900.0 | No                    | No         |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW    | 2022/01/10                  | <MDL 0.19     | 100.0 | No                    | No         |
| Diclofop-methyl (ug/L) - TW                            | 2022/01/10                  | <MDL 0.4      | 9.0   | No                    | No         |
| Dimethoate (ug/L) - TW                                 | 2022/01/10                  | <MDL 0.06     | 20.0  | No                    | No         |
| Diquat (ug/L) - TW                                     | 2022/01/10                  | <MDL 1.0      | 70.0  | No                    | No         |
| Diuron (ug/L) - TW                                     | 2022/01/10                  | <MDL 0.03     | 150.0 | No                    | No         |
| Glyphosate (ug/L) - TW                                 | 2022/01/10                  | <MDL 1.0      | 280.0 | No                    | No         |
| Malathion (ug/L) - TW                                  | 2022/01/10                  | <MDL 0.02     | 190.0 | No                    | No         |
| Metolachlor (ug/L) - TW                                | 2022/01/10                  | <MDL 0.01     | 50.0  | No                    | No         |
| Metribuzin (ug/L) - TW                                 | 2022/01/10                  | <MDL 0.02     | 80.0  | No                    | No         |
| Monochlorobenzene (Chlorobenzene) (ug/L) - TW          | 2022/01/10                  | <MDL 0.3      | 80.0  | No                    | No         |
| Paraquat (ug/L) - TW                                   | 2022/01/10                  | <MDL 1.0      | 10.0  | No                    | No         |
| PCB (ug/L) - TW  | 2022/01/10                  | <MDL 0.04     | 3.0   | No                    | No         |
| Pentachlorophenol (ug/L) - TW                          | 2022/01/10                  | <MDL 0.15     | 60.0  | No                    | No         |
| Phorate (ug/L) - TW                                    | 2022/01/10                  | <MDL 0.01     | 2.0   | No                    | No         |
| Picloram (ug/L) - TW                                   | 2022/01/10                  | <MDL 1.0      | 190.0 | No                    | No         |
| Prometryne (ug/L) - TW                                 | 2022/01/10                  | <MDL 0.03     | 1.0   | No                    | No         |
| Simazine (ug/L) - TW                                   | 2022/01/10                  | <MDL 0.01     | 10.0  | No                    | No         |
| Terbufos (ug/L) - TW                                   | 2022/01/10                  | <MDL 0.01     | 1.0   | No                    | No         |
| Tetrachloroethylene (ug/L) - TW                        | 2022/01/10                  | <MDL 0.35     | 10.0  | No                    | No         |
| 2,3,4,6-Tetrachlorophenol (ug/L) - TW                  | 2022/01/10                  | <MDL 0.2      | 100.0 | No                    | No         |
| Triallate (ug/L) - TW                                  | 2022/01/10                  | <MDL 0.01     | 230.0 | No                    | No         |
| Trichloroethylene (ug/L) - TW                          | 2022/01/10                  | <MDL 0.44     | 5.0   | No                    | No         |
| 2,4,6-Trichlorophenol (ug/L) - TW                      | 2022/01/10                  | <MDL 0.25     | 5.0   | No                    | No         |
| 2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L) - TW | 2022/01/10                  | <MDL 0.12     | 100.0 | No                    | No         |
| Trifluralin (ug/L) - TW                                | 2022/01/10                  | <MDL 0.02     | 45.0  | No                    | No         |
| Vinyl Chloride (ug/L) - TW                             | 2022/01/10                  | <MDL 0.17     | 1.0   | No                    | No         |

Distribution samples are tested quarterly for THM's and HAA's in accordance with O. Reg. 170/03.

|  | Sample Year | Sample Result | MAC   | No. of Exceedances |         |
|--|-------------|---------------|-------|--------------------|---------|
|  |             |               |       | MAC                | 1/2 MAC |
| <b>Distribution Water</b>  |             |               |       |                    |         |
| Trihalomethane (THM): Total (ug/L)<br>Annual Running Average - DW  | 2022        | 28.5          | 100.0 | No                 | No      |
| Haloacetic Acid (HAA): Total (ug/L)<br>Annual Running Average - DW | 2022        | 9.2           | 80.0  | No                 | No      |

### Additional Legislated Samples

#### BTEX Parameters

A monitoring well was constructed adjacent to Water Street to monitor the potential migration of a petroleum products contaminated plume toward the source water/production well. Sampling of the ground water from the single purpose constructed monitoring well is conducted annually. These contaminants have not been detected since the beginning of the sampling program in 1998.

|                           | Sample Date<br>(yyyy/mm/dd) | Sample Result | MAC | No. of Exceedances |         |
|---------------------------|-----------------------------|---------------|-----|--------------------|---------|
|                           |                             |               |     | MAC                | 1/2 MAC |
| <b>Production Well</b>    |                             |               |     |                    |         |
| Benzene (ug/L) - RW       | 2022/05/03                  | <MDL 0.32     | 1   | No                 | No      |
| Ethylbenzene (ug/L) - RW  | 2022/05/03                  | <MDL 0.33     | 140 | No                 | No      |
| Toluene (ug/L) - RW       | 2022/05/03                  | <MDL 0.36     | 60  | No                 | No      |
| Xylene: Total (ug/L) - RW | 2022/05/03                  | <MDL 0.43     | 90  | No                 | No      |
| m/p-xylene (ug/L) - RW    | 2022/05/03                  | <MDL 0.43     | N/A | No                 | No      |
| o-xylene (ug/L) - RW      | 2022/05/03                  | <MDL 0.17     | N/A | No                 | No      |
| <b>Monitoring Well</b>    |                             |               |     |                    |         |
| Benzene (ug/L) - RW       | 2022/05/03                  | <MDL 0.32     | 1   | No                 | No      |
| Ethylbenzene (ug/L) - RW  | 2022/05/03                  | <MDL 0.33     | 140 | No                 | No      |
| Toluene (ug/L) - RW       | 2022/05/03                  | <MDL 0.36     | 60  | No                 | No      |
| Xylene: Total (ug/L) - RW | 2022/05/03                  | <MDL 0.43     | 90  | No                 | No      |
| m/p-xylene (ug/L) - RW    | 2022/05/03                  | <MDL 0.43     | N/A | No                 | No      |
| o-xylene (ug/L) - RW      | 2022/05/03                  | <MDL 0.17     | N/A | No                 | No      |

Schedule C: System-Specific Conditions of Municipal Drinking Water License #259-101 requires the Killaloe Drinking Water System to monitor the effluent discharged to the natural environment for the parameters listed below.

| Legal Document | Date of Issuance | Parameter                                 | Limit                  | Result | Unit of measure |
|----------------|------------------|---|------------------------|--------|-----------------|
| MDWL #259-101  | 30-Nov-2020      | Backwash Effluent Suspended Solids        | Annual Avg < 15 mg/L   | 2.67   | mg/L            |
|                |                  | Backwash Effluent pH                      | Annual Avg 6.5-8.5     | 7.92   | N/A             |
|                |                  | Backwash Effluent Total Chlorine Residual | Annual Avg < 0.02 mg/L | 0.01   | mg/L            |

Schedule D: Conditions for Relief from Regulatory Requirements of Municipal Drinking Water License #259-101 requires the Killaloe Drinking Water System to monitor the distribution system for the parameters listed below when using Huwa-San NSF Certified Stabilized Hydrogen Peroxide as a disinfectant.

| Legal Document | Date of Issuance | Parameter           | Date Sampled | Result | Unit of measure |
|----------------|------------------|---------------------|--------------|--------|-----------------|
| MDWL #259-101  | 30-Nov-2020      | Distribution pH     | 2021/01/11   | 7.46   | N/A             |
|                |                  |                     | 2021/07/06   | 7.88   | N/A             |
|                |                  | Distribution Copper | 2021/01/11   | 123    | ug/L            |
|                |                  |                     | 2021/07/06   | 116    | ug/L            |
|                |                  | Distribution Lead   | 2021/01/11   | 0.26   | ug/L            |
|                |                  |                     | 2021/07/06   | 0.09   | ug/L            |

The Operational Testing section of this report contains the minimum and maximum hydrogen peroxide residuals measured using a continuous monitoring analyzer, as well as residuals measured using a portable analyzer for the weekly grab samples and for the grab samples collected at the same time as a microbiological sample as required by the Municipal Drinking Water Licence.

## Evaluation of the Effectiveness of Secondary Disinfectant

Hydrogen peroxide continues to work well as a secondary disinfectant while producing reduced THM's and HAA's within the distribution system. All parameters that are being monitored are remaining within compliance and normal operating limits. Additionally, there were no adverse water quality incidents during the reporting year. The trend from past years of HPC results reading unusually high once again did not occur in 2022, the highest HPC result measured was 27 CFU/100 mL.

Schedule D, Section 1.2.3 of the MDWL indicates that the hydrogen peroxide residuals cannot drop below 0.5 mg/L in the distribution system, or it must be reported as an observations under O.Reg 170/03 Section 16-4. Schedule D, Section 1.2.5 of the MDWL also states that the maximum hydrogen peroxide residual at any time at any location within the distribution system should not exceed 8 mg/L. The distribution peroxide residual measured at the Killaloe Tourist Booth averaged at 3.06 mg/L in 2022, with the minimum residual being 1.69 mg/L and the maximum being 6.82 mg/L.

## Major Maintenance Summary

| WO #    | Description  |
|---------|--|
| 3017129 | Purchased new long lasting batteries for power supply back up at Tourist Booth |
| 3068184 | Service repaired at 146 Queen Street   |
| 3108355 | Replaced pH probe for handheld unit HQ30d                                      |
| 2680383 | Replaced handheld peroxide analyzer  |
| 2725703 | Replaced 8 UV Lamps (4 in each reactor) in UV reactor #1 and #2                |
| 2872874 | Repaired leaking valve in North Street intersection                            |

# Appendix A

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## WTRS Data and Submission Confirmation

**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: Feb 16, 2023 10:47 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.

[Print Confirmation](#)

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KAYLEE SAAR | 2023/02/16  
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