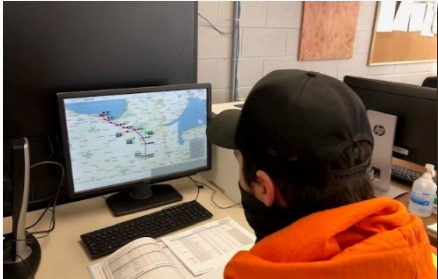


Town of New Tecumseth 2020 Alliston Drinking Water System Annual Report



Prepared in accordance with Section 11 of Ontario Regulation 170/03

For the Period of

January 1 to December 31, 2020

System Rating: Water Distribution and Supply Subsystem Class II

Drinking Water System No.: 220001174
Municipal DW License No.: 123-101, Issue No. 2

February 1, 2021

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1. INTRODUCTION

In accordance with Ontario Regulation 170/03 (O.Reg.170/03): Drinking Water Systems, the Town of New Tecumseth has prepared this Annual Report which is required to be completed no later than February 28th of every year. This report covers the period of January 1st to December 31st, 2020 and the information provided complies with the reporting requirements outlined in Section 11 of O.Reg.170/03.

A summary of the Town of New Tecumseth's drinking water system description is outlined below:

Drinking-Water System Number: 220001174
 Drinking-Water System Name: Alliston Water Supply System
 Drinking-Water System Owner: Corporation of the Town of New Tecumseth
 Drinking-Water System Category: Large Municipal Residential

2. REPORTING REQUIREMENTS (Section 11 - O.Reg.170/03)

2.1 Availability of Annual Water Report

This report has been prepared in accordance with Section 11 of Ontario Regulation 170/03 and is available, free of charge as follows:

- via the Town of New Tecumseth website (<http://newtecumseth.ca/>)
- via Public Request (email: drinkingwater@newtecumseth.ca or phone 705-435-3900 ext. 1432)

The users of water from the Town of New Tecumseth Alliston Drinking Water System are advised through the Town of New Tecumseth's website and local newspaper when this report is available and how to obtain a copy.

2.2 Drinking Water System Receiving Water

List all Drinking Water Systems, which receive all their drinking water from your system:

| Drinking Water System Name | Drinking Water System Number |
|---------------------------------------|------------------------------|
| Kingsmere Village Distribution System | 2600094133 |

2.3 Description of Drinking-Water System

The Alliston Water Supply System consists of six groundwater production wells and is supplemented with surface water from the Raymond A. Barker Ultra-filtration Plant in Collingwood and distributed via a 600 mm diameter transmission main to the Alliston Reservoir. It also consists of four in-ground reservoirs with a total capacity of 15,788 m³ and one elevated storage tank with a capacity of approximately 4,500 m³.

The Alliston Reservoir is the central location for the Supervisory Control and Data Acquisition (SCADA) system that provides various monitoring and control over the Alliston Water System. The Alliston Reservoir houses a high lift pumping station dedicated to the Honda of Canada Plant.

The Alliston Water Supply system distributes treated water to the communities of Alliston and Beeton, which includes approximately 29,503 consumers (based on data from the Planning Department). There are 7,440 service connections, comprising of residential, institutional, commercial and industrial consumers. In addition there are approximately 140 kilometers of water main and 1006 hydrants.

Treated water from the Alliston distribution system is conveyed to Earl Rowe Provincial Park via a dedicated transmission main.

The Hillcrest Well Supply System operates as a self-contained system with one groundwater production well and one reservoir in the northern part of Alliston. The Hillcrest Well Supply System distributes treated water to the community of Hillcrest, which is composed of approximately 101 residential service connections. In addition, there are approximately 1.6 kilometers of water main and 11 fire hydrants. The Hillcrest system has a Pressure Sustaining Valve (PSV) that connects to the Alliston Water Supply System to allow water from the Alliston system to flow into the Hillcrest system should the pressure drop below a predetermined level. This provides additional capacity for fire protection and flexibility of supply from the Alliston Distribution System. Hillcrest Water System was not in service for 2020. Water was provided to the residents from the Alliston Water System.

2.4 Water Treatment Chemicals

The following water treatment chemicals were utilized during the reporting period:

- Sodium Hypochlorite (12%)
- Sodium Silicate

2.5 Significant Expenses Incurred

The following major expenses were incurred during the reporting period to install, repair or replace required equipment:

A brief summary and value of the expenses incurred, including those outlined above, are as follows:

| Maintenance Activity | Costs Incurred (2020) |
|--|-----------------------|
| Flow Meter Calibration | \$1,750 |
| Stand-by Power and Upgrades at Well #1 | \$210,000 |
| Water Main Swabbing – Beeton | \$61,000 |
| Alliston Well #4, #7 & #8 – Well Inspection and Pump Maintenance | \$55,100 |

2.6 Sampling and Testing

Drinking water samples were collected and tested in accordance of O.Reg. 170/03 and tested in accordance with O.Reg. 169/03.

2.6.1 Schedule 7 - Operational Checks

Operational checks including raw water turbidity, and free chlorine (treated and distribution) were conducted in accordance with Schedule 7 of O.Reg.170/03. The operational testing conducted during this reporting period are summarized in Table 1 of this report.

2.6.2 Schedule 10 - Microbiological Sampling and Testing

Microbiological testing on raw, treated and distribution water samples was conducted in accordance with Schedule 10-2, 10-3 and 10-4 of O.Reg.170/03. The microbiological testing and sampling conducted during this reporting period is summarized in Tables 2, 2.1 and 2.2 of this report.

In addition to the required microbiological testing from O. Reg. 170/03 (i.e. Total Coliform and E. Coli) Tables 2.1 and 2.2, include bacteriological health-related parameter; Heterotrophic Plate Count (HPC). HPC is a useful operational tool for monitoring general bacteriological water quality throughout the treatment process and in the

distribution system. HPC results are not an indicator of water safety and, as such, should not be used as an indicator of potential adverse human health effects.

2.6.3 Schedule 13 - Chemical Testing

Chemical testing for organic and inorganic parameters was conducted on treated water samples in accordance with Schedule 13, Sections 13.2 (Schedule 23), 13.4 (Schedule 24), 13.8 and 13.9. The latest 36-month and 60-month test results are summarized in Table 3 of this report.

Chemical testing for trihalomethanes (THMs), haloacetic acids (HAAs) and nitrate and nitrite was conducted quarterly in accordance with Schedule 13.6 and 13.7 of O.Reg 170/03 respectively. THMs and HAAs are samples solely from the distribution system and nitrate and nitrites are samples at the reservoir (treated samples). The latest test results are summarized in in Table 3 of this report.

2.6.4 Schedule 15.1 – Lead

Lead and Alkalinity samples are collected from several locations in the distribution system in accordance with Schedule 15.1. Lead samples are required to be done every three years and was completed in 2020. Alkalinity samples are required to be sampled between December 15th and April 15th and June 15th and October 15th every year. The latest test results are summarized in Table 4 of this report.

2.6.5 Schedule 16 – Reporting of Adverse Test Results and Other Problem and Schedule 17 – Corrective Actions

Adverse water quality incidents (AWQI) were reported in accordance with Schedule 16 and corrective actions related to each incident were completed in accordance with Schedule 17. A summary of the AWQI's and associated corrective actions that occurred during this reporting period is included in Table 5 of this report.

Tables

**Table 1 - Schedule 7 Operational Checks
Summary of Raw and Treated Samples – Turbidity**

| Sampling Location | Number of Samples | NTU (min/max) |
|----------------------------|-------------------|------------------|
| Raw Water Turbidity | | |
| Well #1 | 3 | 0.24/0.30 |
| Well #4 | 12 | 0.16/0.79 |
| Well #5 | 12 | 0.16/0.51 |
| Well #6 | 12 | 0.15/0.48 |
| Well #7 | 12 | 0.26/0.82 |
| Well #8 | 12 | 0.10/0.57 |
| Hillcrest Well | 0 | 0 |

**Table 1.1 - Schedule 7 Operational Checks
Summary of Treated and Distribution Samples – Free Chlorine**

| Sampling Location | Number of Samples | mg/L (min/max) |
|---|-------------------|-------------------|
| Treated Water Free Chlorine | | |
| Well #1 | 2928* | 0.00/2.20 |
| Well #4 | 8760* | 0.00/2.20 |
| Well #5 | 8760* | 0.00/2.20 |
| Well #6 | 8760* | 0.00/2.20 |
| Well #7 | 8760* | 0.58/2.20 |
| Well #8 | 8760* | 0.64/2.20 |
| Hillcrest Well | ** | |
| Parsons Road Reservoir | 8760* | 0.98/2.20 |
| Mowder Boulevard Reservoir | 8760* | 0.89/2.20 |
| Distribution Water Free Chlorine | | |
| McKelvey Reservoir | 8760* | 0.86/1.64 |
| Springs Reservoir | 8760* | 0.57/1.29 |

Notes:

- *8760 represents Continuous Monitoring
- ** Hillcrest Well was not in service in 2020 except for regulatory sampling and no water was directed to the distribution system.
- Low Chlorine residuals that are recorded by continuous monitoring equipment during equipment malfunctions / well not running or power outages are not considered to be an adverse event. These incidents are responded to by operations staff for resolution. Also, the value of 0.00 recorded by the continuous chlorine analyzer could be a result of equipment abnormality / SCADA issues / maintenance work or calibration.

**Table 2 - Schedule 10 Microbiological Sampling and Testing
Summary of Distribution System Samples**

| Source | Number of Samples | E.Coli (min/max) | Total Coliform (min/max) | HPC (min/max) |
|---------------------------------------|-------------------|---------------------|-----------------------------|------------------|
| Distribution System | | | | |
| Routine Sampling Points | 519 | 0/0 | 0/0 | 0/2000 |
| Other (main breaks, new construction) | 96 | 0/0 | 0/0 | 0/3 |
| Total Distribution Samples | 615 | | | |

**Table 2.1 - Schedule 10 Microbiological Sampling and Testing
Summary of Treated Water Samples**

| Source | Number of Samples | E.Coli (min/max) | Total Coliform (min/max) | HPC (min/max) |
|--|-------------------|------------------|--------------------------|---------------|
| Treated Water | | | | |
| Well #1 | 20 | 0/0 | 0/0 | 0/8 |
| Well #4 | 48 | 0/0 | 0/0 | 0/1 |
| Well #5 | 52 | 0/0 | 0/0 | 0/1 |
| Well #6 | 52 | 0/0 | 0/0 | 0/1 |
| Well #7 | 52 | 0/0 | 0/0 | 0/2 |
| Well #8 | 44 | 0/0 | 0/0 | 0/624 |
| Hillcrest Well | 3 | 0/0 | 0/0 | 0/1 |
| Parsons Road Reservoir | 52 | 0/0 | 0/0 | 0/65 |
| Mowder Reservoir | 52 | 0/0 | 0/0 | 0/5 |
| McKelvey Reservoir | 52 | 0/0 | 0/0 | 0/1560 |
| Springs Reservoir | 52 | 0/0 | 0/0 | 0/13 |
| Meter Chamber #2 (Pipeline) | 52 | 0/0 | 0/0 | 0/600 |
| Total Number of Treated Samples | 531 | | | |

**Table 2.2 - Schedule 10 Microbiological Sampling and Testing
Summary of Raw Water Samples**

| Source | Number of Samples | E.Coli (min/max) | Total Coliform (min/max) |
|------------------------------------|-------------------|------------------|--------------------------|
| Raw Water | | | |
| Well #1 | 20 | 0/0 | 0/1 |
| Well #4 | 48 | 0/0 | 0/0 |
| Well #5 | 52 | 0/0 | 0/0 |
| Well #6 | 52 | 0/0 | 0/0 |
| Well #7 | 52 | 0/0 | 0/1 |
| Well #8 | 44 | 0/0 | 0/0 |
| Hillcrest Well | 3 | 0/0 | 0/2 |
| Total Number of Raw Samples | 271 | | |

Notes:

**Table 3 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Inorganics (Page 1 of 2)**

| Parameter | Sample Date (mm/dd/yr) | Result Value | Exceedance | Standard |
|----------------|---------------------------|--------------|------------|----------|
| Well #1 | | | | |
| Antimony | 04/10/2018 | 0.02 <MDL | No | 6.0 |
| Arsenic | 04/10/2018 | 0.3 | No | 10 |
| Barium | 04/10/2018 | 107 | No | 1000 |
| Boron | 04/10/2018 | 129 | No | 5000 |
| Cadmium | 04/10/2018 | 0.003 <MDL | No | 5.0 |
| Chromium | 04/10/2018 | 0.09 | No | 50 |
| Mercury | 04/10/2018 | 0.01<MDL | No | 1.0 |
| Selenium | 04/10/2018 | 0.04<MDL | No | 50 |
| Uranium | 04/10/2018 | 0.018 | No | 20 |
| Well #4 | | | | |
| Antimony | 04/10/2018 | 0.02<MDL | No | 6.0 |
| Arsenic | 04/10/2018 | 0.3 | No | 10 |
| Barium | 04/10/2018 | 121 | No | 1000 |
| Boron | 04/10/2018 | 78 | No | 5000 |
| Cadmium | 04/10/2018 | 0.003<MDL | No | 5.0 |
| Chromium | 04/10/2018 | 0.11 | No | 50 |
| Mercury | 04/10/2018 | 0.01<MDL | No | 1.0 |
| Selenium | 04/10/2018 | 0.04<MDL | No | 50 |
| Uranium | 04/10/2018 | 0.002 | No | 20 |
| Well #5 | | | | |
| Antimony | 04/10/2018 | 0.02 <MDL | No | 6.0 |
| Arsenic | 04/10/2018 | 0.3 | No | 10 |
| Barium | 04/10/2018 | 77.6 | No | 1000 |
| Boron | 04/10/2018 | 63 | No | 5000 |
| Cadmium | 04/10/2018 | 0.003 <MDL | No | 5.0 |
| Chromium | 04/10/2018 | 0.11 | No | 50 |
| Mercury | 04/10/2018 | 0.01 | No | 1.0 |
| Selenium | 04/10/2018 | 0.04<MDL | No | 50 |
| Uranium | 04/10/2018 | 0.007 | No | 20 |
| Well #6 | | | | |
| Antimony | 04/10/2018 | 0.02 <MDL | No | 6.0 |
| Arsenic | 04/10/2018 | 0.2<MDL | No | 10 |
| Barium | 04/10/2018 | 114 | No | 1000 |
| Boron | 04/10/2018 | 67 | No | 5000 |
| Cadmium | 04/10/2018 | 0.003 <MDL | No | 5.0 |
| Chromium | 04/10/2018 | 0.14 | No | 50 |
| Mercury | 04/10/2018 | 0.01<MDL | No | 1.0 |
| Selenium | 04/10/2018 | 0.04<MDL | No | 50 |
| Uranium | 04/10/2018 | 0.002 <MDL | No | 20 |

Notes:

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Inorganics (Page 2 of 2)**

| Parameter | Sample Date (mm/dd/yr) | Result Value | Exceedance | Standard |
|-------------------------------|---------------------------|--------------|------------|----------|
| Well #7 | | | | |
| Antimony | 04/10/2018 | 0.05 | No | 6.0 |
| Arsenic | 04/10/2018 | 0.2 <MDL | No | 10 |
| Barium | 04/10/2018 | 107 | No | 1000 |
| Boron | 04/10/2018 | 12 | No | 5000 |
| Cadmium | 04/10/2018 | 0.003 | No | 5.0 |
| Chromium | 04/10/2018 | 0.12 | No | 50 |
| Mercury | 04/10/2018 | 0.01<MDL | No | 1.0 |
| Selenium | 04/10/2018 | 0.04<MDL | No | 50 |
| Uranium | 04/10/2018 | 0.010 | No | 20 |
| Well #8 | | | | |
| Antimony | 06/08/2020 | 0.09 <MDL | No | 6.0 |
| Arsenic | 06/08/2020 | 2.8 | No | 10 |
| Barium | 06/08/2020 | 52.8 | No | 1000 |
| Boron | 06/08/2020 | 101 | No | 5000 |
| Cadmium | 06/08/2020 | 0.003 <MDL | No | 5.0 |
| Chromium | 06/08/2020 | 0.11 | No | 50 |
| Mercury | 06/08/2020 | 0.01 <MDL | No | 1.0 |
| Selenium | 06/08/2020 | 0.04 <MDL | No | 50 |
| Uranium | 06/08/2020 | 0.003 | No | 20 |
| Parsons Road Reservoir | | | | |
| Antimony | 04/10/2018 | 0.11 | No | 6.0 |
| Arsenic | 04/10/2018 | 0.3 | No | 10 |
| Barium | 04/10/2018 | 14.6 | No | 1000 |
| Boron | 04/10/2018 | 15 | No | 5000 |
| Cadmium | 04/10/2018 | 0.003<MDL | No | 5.0 |
| Chromium | 04/10/2018 | 0.20 | No | 50 |
| Mercury | 04/10/2018 | 0.01<MDL | No | 1.0 |
| Selenium | 04/10/2018 | .11 | No | 50 |
| Uranium | 04/10/2018 | 0.171 | No | 20 |
| Hillcrest Well | | | | |
| Antimony | 04/15/2019 | 0.09 <MDL | No | 6.0 |
| Arsenic | 04/15/2019 | 0.2<MDL | No | 10 |
| Barium | 04/15/2019 | 106 | No | 1000 |
| Boron | 04/15/2019 | 110 | No | 5000 |
| Cadmium | 04/15/2019 | 0.003<MDL | No | 5.0 |
| Chromium | 04/15/2019 | 0.42 | No | 50 |
| Mercury | 04/15/2019 | 0.01<MDL | No | 1.0 |
| Selenium | 04/15/2019 | 0.04 <MDL | No | 50 |
| Uranium | 04/15/2019 | 0.019 | No | 20 |

Notes:

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3.1 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Organics (Page 1 of 8)**

| Parameter | Sample Date (mm/dd/yr) | Result Value | Exceedance | Standard |
|--|---------------------------|-----------------|------------|----------|
| Well #1 | | | | |
| Alachlor | 04/10/2018 | 0.02<MDL | No | 5.0 |
| Atrazine+N-dealkylated metabolites | 04/10/2018 | 0.01<MDL | No | 5.0 |
| Azinphos-methyl | 04/10/2018 | 0.02<MDL | No | 20.0 |
| Benzene | 04/10/2018 | 0.32<MDL | No | 5.0 |
| Benzo(a)pyrene | 04/10/2018 | 0.004<MDL | No | 0.01 |
| Bromoxynil | 04/10/2018 | 0.33<MDL | No | 5.0 |
| Carbaryl | 04/10/2018 | 0.01<MDL | No | 90.0 |
| Carbofuran | 04/10/2018 | 0.01<MDL | No | 90.0 |
| Carbon Tetrachloride | 04/10/2018 | 0.16<MDL | No | 5.0 |
| Chlorpyrifos | 04/10/2018 | 0.02<MDL | No | 90.0 |
| Diazinon | 04/10/2018 | 0.02<MDL | No | 20.0 |
| Dicamba | 04/10/2018 | 0.20<MDL | No | 120 |
| 1,2-Dichlorobenzene | 04/10/2018 | 0.41<MDL | No | 200 |
| 1,4-Dichlorobenzene | 04/10/2018 | 0.36<MDL | No | 5.0 |
| 1,2-dichloroethane | 04/10/2018 | 0.35<MDL | No | 5.0 |
| 1,1-Dichloroethylene (vinylidene chloride) | 04/10/2018 | 0.33<MDL | No | 14.0 |
| Dichloromethane | 04/10/2018 | 0.35<MDL | No | 50.0 |
| 2,4-Dichlorophenol | 04/10/2018 | 0.15<MDL | No | 900 |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 04/10/2018 | 0.19<MDL | No | 100 |
| Diclofop-methyl | 04/10/2018 | 0.40<MDL | No | 9.0 |
| Dimethoate | 04/10/2018 | 0.03<MDL | No | 20.0 |
| Diquat | 04/10/2018 | 1<MDL | No | 70.0 |
| Diuron | 04/10/2018 | 0.03<MDL | No | 150 |
| Glyphosate | 04/10/2018 | 1<MDL | No | 280 |
| Malathion | 04/10/2018 | 0.02<MDL | No | 190 |
| Metolachlor | 04/10/2018 | 0.01<MDL | No | 50.0 |
| Metribuzin | 04/10/2018 | 0.02<MDL | No | 80.0 |
| Monochlorobenzene | 04/10/2018 | 0.3<MDL | No | 80.0 |
| Paraquat | 04/10/2018 | 1<MDL | No | 10.0 |
| Pentachlorophenol | 04/10/2018 | 0.15<MDL | No | 60.0 |
| Phorate | 04/10/2018 | 0.01<MDL | No | 2.0 |
| Picloram | 04/10/2018 | 1<MDL | No | 190 |
| Polychlorinated Biphenyls (PCB) | 04/10/2018 | 0.04<MDL | No | 3.0 |
| Prometryne | 04/10/2018 | 0.03<MDL | No | 1.0 |
| Simazine | 04/10/2018 | 0.01<MDL | No | 10.0 |
| Terbufos | 04/10/2018 | 0.01<MDL | No | 1.0 |
| Tetrachloroethylene (perchloroethylene) | 04/10/2018 | 0.35<MDL | No | 30.0 |
| 2,3,4,6-Tetrachlorophenol | 04/10/2018 | 0.20<MDL | No | 100 |
| Triallate | 04/10/2018 | 0.01<MDL | No | 230 |
| Trichloroethylene | 04/10/2018 | 0.44<MDL | No | 5.0 |
| 2,4,6-Trichlorophenol | 04/10/2018 | 0.25<MDL | No | 5.0 |
| Trifluralin | 04/10/2018 | 0.02<MDL | No | 45.0 |
| Vinyl Chloride | 04/10/2018 | 0.17<MDL | No | 2.0 |

Notes:

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3.1 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Organics (Page 2 of 8)**

| Parameter | Sample Date (mm/dd/yr) | Result Value | Exceedance | Standard |
|--|---------------------------|-----------------|------------|----------|
| Well #4 | | | | |
| Alachlor | 04/10/2018 | 0.02<MDL | No | 5.0 |
| Atrazine+N-dealkylated metabolites | 04/10/2018 | 0.01<MDL | No | 5.0 |
| Azinphos-methyl | 04/10/2018 | 0.02<MDL | No | 20.0 |
| Benzene | 04/10/2018 | 0.32<MDL | No | 5.0 |
| Benzo(a)pyrene | 04/10/2018 | 0.004<MDL | No | 0.01 |
| Bromoxynil | 04/10/2018 | 0.33<MDL | No | 5.0 |
| Carbaryl | 04/10/2018 | 0.01<MDL | No | 90.0 |
| Carbofuran | 04/10/2018 | 0.01<MDL | No | 90.0 |
| Carbon Tetrachloride | 04/10/2018 | 0.16<MDL | No | 5.0 |
| Chlorpyrifos | 04/10/2018 | 0.02<MDL | No | 90.0 |
| Diazinon | 04/10/2018 | 0.02<MDL | No | 20.0 |
| Dicamba | 04/10/2018 | 0.20<MDL | No | 120 |
| 1,2-Dichlorobenzene | 04/10/2018 | 0.41<MDL | No | 200 |
| 1,4-Dichlorobenzene | 04/10/2018 | 0.36<MDL | No | 5.0 |
| 1,2-dichloroethane | 04/10/2018 | 0.35<MDL | No | 5.0 |
| 1,1-Dichloroethylene (vinylidene chloride) | 04/10/2018 | 0.33<MDL | No | 14.0 |
| Dichloromethane | 04/10/2018 | 0.35<MDL | No | 50.0 |
| 2,4-Dichlorophenol | 04/10/2018 | 0.15<MDL | No | 900 |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 04/10/2018 | 0.19<MDL | No | 100 |
| Diclofop-methyl | 04/10/2018 | 0.40<MDL | No | 9.0 |
| Dimethoate | 04/10/2018 | 0.03<MDL | No | 20.0 |
| Diquat | 04/10/2018 | 1<MDL | No | 70.0 |
| Diuron | 04/10/2018 | 0.03<MDL | No | 150 |
| Glyphosate | 04/10/2018 | 1<MDL | No | 280 |
| Malathion | 04/10/2018 | 0.02<MDL | No | 190 |
| Metolachlor | 04/10/2018 | 0.01<MDL | No | 50.0 |
| Metribuzin | 04/10/2018 | 0.02<MDL | No | 80.0 |
| Monochlorobenzene | 04/10/2018 | 0.3<MDL | No | 80.0 |
| Paraquat | 04/10/2018 | 1<MDL | No | 10.0 |
| Pentachlorophenol | 04/10/2018 | 0.15<MDL | No | 60.0 |
| Phorate | 04/10/2018 | 0.01<MDL | No | 2.0 |
| Picloram | 04/10/2018 | 1<MDL | No | 190 |
| Polychlorinated Biphenyls (PCB) | 04/10/2018 | 0.04<MDL | No | 3.0 |
| Prometryne | 04/10/2018 | 0.03<MDL | No | 1.0 |
| Simazine | 04/10/2018 | 0.01<MDL | No | 10.0 |
| Terbufos | 04/10/2018 | 0.01<MDL | No | 1.0 |
| Tetrachloroethylene (perchloroethylene) | 04/10/2018 | 0.35<MDL | No | 30.0 |
| 2,3,4,6-Tetrachlorophenol | 04/10/2018 | 0.20<MDL | No | 100 |
| Triallate | 04/10/2018 | 0.01<MDL | No | 230 |
| Trichloroethylene | 04/10/2018 | 0.44<MDL | No | 5.0 |
| 2,4,6-Trichlorophenol | 04/10/2018 | 0.25<MDL | No | 5.0 |
| Trifluralin | 04/10/2018 | 0.02<MDL | No | 45.0 |
| Vinyl Chloride | 04/10/2018 | 0.17<MDL | No | 2.0 |

Notes:

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3.1 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Organics (Page 3 of 8)**

| Parameter | Sample Date (mm/dd/yr) | Result Value | Exceedance | Standard |
|--|---------------------------|-----------------|------------|----------|
| Well #5 | | | | |
| Alachlor | 04/10/2018 | 0.02<MDL | No | 5.0 |
| Atrazine+N-dealkylated metabolites | 04/10/2018 | 0.01<MDL | No | 5.0 |
| Azinphos-methyl | 04/10/2018 | 0.02<MDL | No | 20.0 |
| Benzene | 04/10/2018 | 0.32<MDL | No | 5.0 |
| Benzo(a)pyrene | 04/10/2018 | 0.004<MDL | No | 0.01 |
| Bromoxynil | 04/10/2018 | 0.33<MDL | No | 5.0 |
| Carbaryl | 04/10/2018 | 0.01<MDL | No | 90.0 |
| Carbofuran | 04/10/2018 | 0.01<MDL | No | 90.0 |
| Carbon Tetrachloride | 04/10/2018 | 0.16<MDL | No | 5.0 |
| Chlorpyrifos | 04/10/2018 | 0.02<MDL | No | 90.0 |
| Diazinon | 04/10/2018 | 0.02<MDL | No | 20.0 |
| Dicamba | 04/10/2018 | 0.20<MDL | No | 120 |
| 1,2-Dichlorobenzene | 04/10/2018 | 0.41<MDL | No | 200 |
| 1,4-Dichlorobenzene | 04/10/2018 | 0.36<MDL | No | 5.0 |
| 1,2-dichloroethane | 04/10/2018 | 0.35<MDL | No | 5.0 |
| 1,1-Dichloroethylene (vinylidene chloride) | 04/10/2018 | 0.33<MDL | No | 14.0 |
| Dichloromethane | 04/10/2018 | 0.35<MDL | No | 50.0 |
| 2,4-Dichlorophenol | 04/10/2018 | 0.15<MDL | No | 900 |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 04/10/2018 | 0.19<MDL | No | 100 |
| Diclofop-methyl | 04/10/2018 | 0.40<MDL | No | 9.0 |
| Dimethoate | 04/10/2018 | 0.03<MDL | No | 20.0 |
| Diquat | 04/10/2018 | 1<MDL | No | 70.0 |
| Diuron | 04/10/2018 | 0.03<MDL | No | 150 |
| Glyphosate | 04/10/2018 | 1<MDL | No | 280 |
| Malathion | 04/10/2018 | 0.02<MDL | No | 190 |
| Metolachlor | 04/10/2018 | 0.01<MDL | No | 50.0 |
| Metribuzin | 04/10/2018 | 0.02<MDL | No | 80.0 |
| Monochlorobenzene | 04/10/2018 | 0.3<MDL | No | 80.0 |
| Paraquat | 04/10/2018 | 1<MDL | No | 10.0 |
| Pentachlorophenol | 04/10/2018 | 0.15<MDL | No | 60.0 |
| Phorate | 04/10/2018 | 0.01<MDL | No | 2.0 |
| Picloram | 04/10/2018 | 1<MDL | No | 190 |
| Polychlorinated Biphenyls (PCB) | 04/10/2018 | 0.04<MDL | No | 3.0 |
| Prometryne | 04/10/2018 | 0.03<MDL | No | 1.0 |
| Simazine | 04/10/2018 | 0.01<MDL | No | 10.0 |
| Terbufos | 04/10/2018 | 0.01<MDL | No | 1.0 |
| Tetrachloroethylene (perchloroethylene) | 04/10/2018 | 0.35<MDL | No | 30.0 |
| 2,3,4,6-Tetrachlorophenol | 04/10/2018 | 0.20<MDL | No | 100 |
| Triallate | 04/10/2018 | 0.01<MDL | No | 230 |
| Trichloroethylene | 04/10/2018 | 0.44<MDL | No | 5.0 |
| 2,4,6-Trichlorophenol | 04/10/2018 | 0.25<MDL | No | 5.0 |
| Trifluralin | 04/10/2018 | 0.02<MDL | No | 45.0 |
| Vinyl Chloride | 04/10/2018 | 0.17<MDL | No | 2.0 |

Notes:

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3.1 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Organics (Page 4 of 8)**

| Parameter | Sample Date (mm/dd/yr) | Result Value | Exceedance | Standard |
|--|---------------------------|-----------------|------------|----------|
| Well #6 | | | | |
| Alachlor | 04/10/2018 | 0.02<MDL | No | 5.0 |
| Atrazine+N-dealkylated metabolites | 04/10/2018 | 0.01<MDL | No | 5.0 |
| Azinphos-methyl | 04/10/2018 | 0.02<MDL | No | 20.0 |
| Benzene | 04/10/2018 | 0.32<MDL | No | 5.0 |
| Benzo(a)pyrene | 04/10/2018 | 0.004<MDL | No | 0.01 |
| Bromoxynil | 04/10/2018 | 0.33<MDL | No | 5.0 |
| Carbaryl | 04/10/2018 | 0.01<MDL | No | 90.0 |
| Carbofuran | 04/10/2018 | 0.01<MDL | No | 90.0 |
| Carbon Tetrachloride | 04/10/2018 | 0.16<MDL | No | 5.0 |
| Chlorpyrifos | 04/10/2018 | 0.02<MDL | No | 90.0 |
| Diazinon | 04/10/2018 | 0.02<MDL | No | 20.0 |
| Dicamba | 04/10/2018 | 0.20<MDL | No | 120 |
| 1,2-Dichlorobenzene | 04/10/2018 | 0.41<MDL | No | 200 |
| 1,4-Dichlorobenzene | 04/10/2018 | 0.36<MDL | No | 5.0 |
| 1,2-dichloroethane | 04/10/2018 | 0.35<MDL | No | 5.0 |
| 1,1-Dichloroethylene (vinylidene chloride) | 04/10/2018 | 0.33<MDL | No | 14.0 |
| Dichloromethane | 04/10/2018 | 0.35<MDL | No | 50.0 |
| 2,4-Dichlorophenol | 04/10/2018 | 0.15<MDL | No | 900 |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 04/10/2018 | 0.19<MDL | No | 100 |
| Diclofop-methyl | 04/10/2018 | 0.40<MDL | No | 9.0 |
| Dimethoate | 04/10/2018 | 0.03<MDL | No | 20.0 |
| Diquat | 04/10/2018 | 1<MDL | No | 70.0 |
| Diuron | 04/10/2018 | 0.03<MDL | No | 150 |
| Glyphosate | 04/10/2018 | 1<MDL | No | 280 |
| Malathion | 04/10/2018 | 0.02<MDL | No | 190 |
| Metolachlor | 04/10/2018 | 0.01<MDL | No | 50.0 |
| Metribuzin | 04/10/2018 | 0.02<MDL | No | 80.0 |
| Monochlorobenzene | 04/10/2018 | 0.3<MDL | No | 80.0 |
| Paraquat | 04/10/2018 | 1<MDL | No | 10.0 |
| Pentachlorophenol | 04/10/2018 | 0.15<MDL | No | 60.0 |
| Phorate | 04/10/2018 | 0.01<MDL | No | 2.0 |
| Picloram | 04/10/2018 | 1<MDL | No | 190 |
| Polychlorinated Biphenyls (PCB) | 04/10/2018 | 0.04<MDL | No | 3.0 |
| Prometryne | 04/10/2018 | 0.03<MDL | No | 1.0 |
| Simazine | 04/10/2018 | 0.01<MDL | No | 10.0 |
| Terbufos | 04/10/2018 | 0.01<MDL | No | 1.0 |
| Tetrachloroethylene (perchloroethylene) | 04/10/2018 | 0.35<MDL | No | 30.0 |
| 2,3,4,6-Tetrachlorophenol | 04/10/2018 | 0.20<MDL | No | 100 |
| Triallate | 04/10/2018 | 0.01<MDL | No | 230 |
| Trichloroethylene | 04/10/2018 | 0.44<MDL | No | 5.0 |
| 2,4,6-Trichlorophenol | 04/10/2018 | 0.25<MDL | No | 5.0 |
| Trifluralin | 04/10/2018 | 0.02<MDL | No | 45.0 |
| Vinyl Chloride | 04/10/2018 | 0.17<MDL | No | 2.0 |

Notes:

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3.1 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Organics (Page 5 of 8)**

| Parameter | Sample Date (mm/dd/yr) | Result Value | Exceedance | Standard |
|--|---------------------------|-----------------|------------|----------|
| Well #7 | | | | |
| Alachlor | 04/10/2018 | 0.02<MDL | No | 5.0 |
| Atrazine+N-dealkylated metabolites | 04/10/2018 | 0.01<MDL | No | 5.0 |
| Azinphos-methyl | 04/10/2018 | 0.02<MDL | No | 20.0 |
| Benzene | 04/10/2018 | 0.32<MDL | No | 5.0 |
| Benzo(a)pyrene | 04/10/2018 | 0.004<MDL | No | 0.01 |
| Bromoxynil | 04/10/2018 | 0.33<MDL | No | 5.0 |
| Carbaryl | 04/10/2018 | 0.01<MDL | No | 90.0 |
| Carbofuran | 04/10/2018 | 0.01<MDL | No | 90.0 |
| Carbon Tetrachloride | 04/10/2018 | 0.16<MDL | No | 5.0 |
| Chlorpyrifos | 04/10/2018 | 0.02<MDL | No | 90.0 |
| Diazinon | 04/10/2018 | 0.02<MDL | No | 20.0 |
| Dicamba | 04/10/2018 | 0.20<MDL | No | 120 |
| 1,2-Dichlorobenzene | 04/10/2018 | 0.41<MDL | No | 200 |
| 1,4-Dichlorobenzene | 04/10/2018 | 0.36<MDL | No | 5.0 |
| 1,2-dichloroethane | 04/10/2018 | 0.35<MDL | No | 5.0 |
| 1,1-Dichloroethylene (vinylidene chloride) | 04/10/2018 | 0.33<MDL | No | 14.0 |
| Dichloromethane | 04/10/2018 | 0.35<MDL | No | 50.0 |
| 2,4-Dichlorophenol | 04/10/2018 | 0.15<MDL | No | 900 |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 04/10/2018 | 0.19<MDL | No | 100 |
| Diclofop-methyl | 04/10/2018 | 0.40<MDL | No | 9.0 |
| Dimethoate | 04/10/2018 | 0.03<MDL | No | 20.0 |
| Diquat | 04/10/2018 | 1<MDL | No | 70.0 |
| Diuron | 04/10/2018 | 0.03<MDL | No | 150 |
| Glyphosate | 04/10/2018 | 1<MDL | No | 280 |
| Malathion | 04/10/2018 | 0.02<MDL | No | 190 |
| Metolachlor | 04/10/2018 | 0.01<MDL | No | 50.0 |
| Metribuzin | 04/10/2018 | 0.02<MDL | No | 80.0 |
| Monochlorobenzene | 04/10/2018 | 0.3<MDL | No | 80.0 |
| Paraquat | 04/10/2018 | 1<MDL | No | 10.0 |
| Pentachlorophenol | 04/10/2018 | 0.15<MDL | No | 60.0 |
| Phorate | 04/10/2018 | 0.01<MDL | No | 2.0 |
| Picloram | 04/10/2018 | 1<MDL | No | 190 |
| Polychlorinated Biphenyls (PCB) | 04/10/2018 | 0.04<MDL | No | 3.0 |
| Prometryne | 04/10/2018 | 0.03<MDL | No | 1.0 |
| Simazine | 04/10/2018 | 0.01<MDL | No | 10.0 |
| Terbufos | 04/10/2018 | 0.01<MDL | No | 1.0 |
| Tetrachloroethylene (perchloroethylene) | 04/10/2018 | 0.35<MDL | No | 30.0 |
| 2,3,4,6-Tetrachlorophenol | 04/10/2018 | 0.20<MDL | No | 100 |
| Triallate | 04/10/2018 | 0.01<MDL | No | 230 |
| Trichloroethylene | 04/10/2018 | 0.44<MDL | No | 5.0 |
| 2,4,6-Trichlorophenol | 04/10/2018 | 0.25<MDL | No | 5.0 |
| Trifluralin | 04/10/2018 | 0.02<MDL | No | 45.0 |
| Vinyl Chloride | 04/10/2018 | 0.17<MDL | No | 2.0 |

Notes

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3.1 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Organics (Page 6 of 8)**

| Parameter | Sample Date (mm/dd/yr) | Result Value | Exceedance | Standard |
|--|---------------------------|-----------------|------------|----------|
| Well #8 | | | | |
| Alachlor | 06/08/2020 | 0.02<MDL | No | 5.0 |
| Atrazine+N-dealkylated metabolites | 06/08/2020 | 0.01<MDL | No | 5.0 |
| Azinphos-methyl | 06/08/2020 | 0.05<MDL | No | 20.0 |
| Benzene | 06/08/2020 | 0.32<MDL | No | 1.0 |
| Benzo(a)pyrene | 06/08/2020 | 0.004<MDL | No | 0.01 |
| Bromoxynil | 06/08/2020 | 0.33<MDL | No | 5.0 |
| Carbaryl | 06/08/2020 | 0.05<MDL | No | 90.0 |
| Carbofuran | 06/08/2020 | 0.01<MDL | No | 90.0 |
| Carbon Tetrachloride | 06/08/2020 | 0.17<MDL | No | 2.0 |
| Chlorpyrifos | 06/08/2020 | 0.02<MDL | No | 90.0 |
| Diazinon | 06/08/2020 | 0.02<MDL | No | 20.0 |
| Dicamba | 06/08/2020 | 0.20<MDL | No | 120 |
| 1,2-Dichlorobenzene | 06/08/2020 | 0.41<MDL | No | 200 |
| 1,4-Dichlorobenzene | 06/08/2020 | 0.36<MDL | No | 5.0 |
| 1,2-dichloroethane | 06/08/2020 | 0.35<MDL | No | 5.0 |
| 1,1-Dichloroethylene (vinylidene chloride) | 06/08/2020 | 0.33<MDL | No | 14.0 |
| Dichloromethane | 06/08/2020 | 0.35<MDL | No | 50.0 |
| 2,4-Dichlorophenol | 06/08/2020 | 0.15<MDL | No | 900 |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 06/08/2020 | 0.19<MDL | No | 100 |
| Diclofop-methyl | 06/08/2020 | 0.40<MDL | No | 9.0 |
| Dimethoate | 06/08/2020 | 0.06<MDL | No | 20.0 |
| Diquat | 06/08/2020 | 1<MDL | No | 70.0 |
| Diuron | 06/08/2020 | 0.03<MDL | No | 150 |
| Glyphosate | 06/08/2020 | 1<MDL | No | 280 |
| Malathion | 06/08/2020 | 0.02<MDL | No | 190 |
| MCPA | 06/08/2020 | 0.12<MDL | No | 100 |
| Metolachlor | 06/08/2020 | 0.01<MDL | No | 50.0 |
| Metribuzin | 06/08/2020 | 0.02<MDL | No | 80.0 |
| Monochlorobenzene | 06/08/2020 | 0.3<MDL | No | 80.0 |
| Paraquat | 06/08/2020 | 1<MDL | No | 10.0 |
| Pentachlorophenol | 06/08/2020 | 0.15<MDL | No | 60.0 |
| Phorate | 06/08/2020 | 0.01<MDL | No | 2.0 |
| Picloram | 06/08/2020 | 1<MDL | No | 190 |
| Polychlorinated Biphenyls (PCB) | 06/08/2020 | 0.04<MDL | No | 3.0 |
| Prometryne | 06/08/2020 | 0.03<MDL | No | 1.0 |
| Simazine | 06/08/2020 | 0.01<MDL | No | 10.0 |
| Terbufos | 06/08/2020 | 0.01<MDL | No | 1.0 |
| Tetrachloroethylene (perchloroethylene) | 06/08/2020 | 0.35<MDL | No | 10.0 |
| 2,3,4,6-Tetrachlorophenol | 06/08/2020 | 0.20<MDL | No | 100 |
| Triallate | 06/08/2020 | 0.01<MDL | No | 230 |
| Trichloroethylene | 06/08/2020 | 0.44<MDL | No | 5.0 |
| 2,4,6-Trichlorophenol | 06/08/2020 | 0.25<MDL | No | 5.0 |
| Trifluralin | 06/08/2020 | 0.02<MDL | No | 45.0 |
| Vinyl Chloride | 06/08/2020 | 0.17<MDL | No | 1.0 |

Notes:

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3.1 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Organics (Page 7 of 8)**

| Parameter | Sample Date (mm/dd/yr) | Result Value | Exceedance | Standard |
|--|---------------------------|-----------------|------------|----------|
| Parsons Road Reservoir | | | | |
| Alachlor | 04/10/2018 | 0.02<MDL | No | 5.0 |
| Atrazine+N-dealkylated metabolites | 04/10/2018 | 0.01 | No | 5.0 |
| Azinphos-methyl | 04/10/2018 | 0.02<MDL | No | 20.0 |
| Benzene | 04/10/2018 | 0.32<MDL | No | 5.0 |
| Benzo(a)pyrene | 04/10/2018 | 0.004<MDL | No | 0.01 |
| Bromoxynil | 04/10/2018 | 0.33<MDL | No | 5.0 |
| Carbaryl | 04/10/2018 | 0.01<MDL | No | 90.0 |
| Carbofuran | 04/10/2018 | 0.01<MDL | No | 90.0 |
| Carbon Tetrachloride | 04/10/2018 | 0.16<MDL | No | 5.0 |
| Chlorpyrifos | 04/10/2018 | 0.02<MDL | No | 90.0 |
| Diazinon | 04/10/2018 | 0.02<MDL | No | 20.0 |
| Dicamba | 04/10/2018 | 0.20<MDL | No | 120 |
| 1,2-Dichlorobenzene | 04/10/2018 | 0.41<MDL | No | 200 |
| 1,4-Dichlorobenzene | 04/10/2018 | 0.36<MDL | No | 5.0 |
| 1,2-dichloroethane | 04/10/2018 | 0.35<MDL | No | 5.0 |
| 1,1-Dichloroethylene (vinylidene chloride) | 04/10/2018 | 0.33<MDL | No | 14.0 |
| Dichloromethane | 04/10/2018 | 0.35<MDL | No | 50.0 |
| 2,4-Dichlorophenol | 04/10/2018 | 0.15<MDL | No | 900 |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 04/10/2018 | 0.19<MDL | No | 100 |
| Diclofop-methyl | 04/10/2018 | 0.40<MDL | No | 9.0 |
| Dimethoate | 04/10/2018 | 0.03<MDL | No | 20.0 |
| Diquat | 04/10/2018 | 1<MDL | No | 70.0 |
| Diuron | 04/10/2018 | 0.03<MDL | No | 150 |
| Glyphosate | 04/10/2018 | 1<MDL | No | 280 |
| Malathion | 04/10/2018 | 0.02<MDL | No | 190 |
| Metolachlor | 04/10/2018 | 0.01<MDL | No | 50.0 |
| Metribuzin | 04/10/2018 | 0.02<MDL | No | 80.0 |
| Monochlorobenzene | 04/10/2018 | 0.3<MDL | No | 80.0 |
| Paraquat | 04/10/2018 | 1<MDL | No | 10.0 |
| Pentachlorophenol | 04/10/2018 | 0.15<MDL | No | 60.0 |
| Phorate | 04/10/2018 | 0.01<MDL | No | 2.0 |
| Picloram | 04/10/2018 | 1<MDL | No | 190 |
| Polychlorinated Biphenyls (PCB) | 04/10/2018 | 0.04<MDL | No | 3.0 |
| Prometryne | 04/10/2018 | 0.03<MDL | No | 1.0 |
| Simazine | 04/10/2018 | 0.01<MDL | No | 10.0 |
| Terbufos | 04/10/2018 | 0.01<MDL | No | 1.0 |
| Tetrachloroethylene (perchloroethylene) | 04/10/2018 | 0.35<MDL | No | 30.0 |
| 2,3,4,6-Tetrachlorophenol | 04/10/2018 | 0.20<MDL | No | 100 |
| Triallate | 04/10/2018 | 0.01<MDL | No | 230 |
| Trichloroethylene | 04/10/2018 | 0.44<MDL | No | 5.0 |
| 2,4,6-Trichlorophenol | 04/10/2018 | 0.25<MDL | No | 5.0 |
| Trifluralin | 04/10/2018 | 0.02<MDL | No | 45.0 |
| Vinyl Chloride | 04/10/2018 | 0.17<MDL | No | 2.0 |

Notes:

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3.1 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Organics (Page 8 of 8)**

| Parameter | Sample Date (mm/dd/yr) | Result Value | Exceedance | Standard |
|--|---------------------------|-----------------|------------|----------|
| Hillcrest Well | | | | |
| Alachlor | 04/15/2019 | 0.02<MDL | No | 5.0 |
| Atrazine+N-dealkylated metabolites | 04/15/2019 | 0.01<MDL | No | 5.0 |
| Azinphos-methyl | 04/15/2019 | 0.05<MDL | No | 20.0 |
| Benzene | 04/15/2019 | 0.32<MDL | No | 1.0 |
| Benzo(a)pyrene | 04/15/2019 | 0.004<MDL | No | 0.01 |
| Bromoxynil | 04/15/2019 | 0.33<MDL | No | 5.0 |
| Carbaryl | 04/15/2019 | 0.05<MDL | No | 90.0 |
| Carbofuran | 04/15/2019 | 0.01<MDL | No | 90.0 |
| Carbon Tetrachloride | 04/15/2019 | 0.17<MDL | No | 2.0 |
| Chlorpyrifos | 04/15/2019 | 0.02<MDL | No | 90.0 |
| Diazinon | 04/15/2019 | 0.02<MDL | No | 20.0 |
| Dicamba | 04/15/2019 | 0.20<MDL | No | 120 |
| 1,2-Dichlorobenzene | 04/15/2019 | 0.41<MDL | No | 200 |
| 1,4-Dichlorobenzene | 04/15/2019 | 0.36<MDL | No | 5.0 |
| 1,2-dichloroethane | 04/15/2019 | 0.35<MDL | No | 5.0 |
| 1,1-Dichloroethylene (vinylidene chloride) | 04/15/2019 | 0.33<MDL | No | 14.0 |
| Dichloromethane | 04/15/2019 | 0.35<MDL | No | 50.0 |
| 2,4-Dichlorophenol | 04/15/2019 | 0.15<MDL | No | 900 |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 04/15/2019 | 0.19<MDL | No | 100 |
| Diclofop-methyl | 04/15/2019 | 0.40<MDL | No | 9.0 |
| Dimethoate | 04/15/2019 | 0.06<MDL | No | 20.0 |
| Diquat | 04/15/2019 | 1<MDL | No | 70.0 |
| Diuron | 04/15/2019 | 0.03<MDL | No | 150 |
| Glyphosate | 04/15/2019 | 1<MDL | No | 280 |
| Malathion | 04/15/2019 | 0.02<MDL | No | 190 |
| MCPA | 04/15/2019 | 0.12<MDL | No | 100 |
| Metolachlor | 04/15/2019 | 0.01<MDL | No | 50.0 |
| Metribuzin | 04/15/2019 | 0.02<MDL | No | 80.0 |
| Monochlorobenzene | 04/15/2019 | 0.3<MDL | No | 80.0 |
| Paraquat | 04/15/2019 | 1<MDL | No | 10.0 |
| Pentachlorophenol | 04/15/2019 | 0.15<MDL | No | 60.0 |
| Phorate | 04/15/2019 | 0.01<MDL | No | 2.0 |
| Picloram | 04/15/2019 | 1<MDL | No | 190 |
| Polychlorinated Biphenyls (PCB) | 04/15/2019 | 0.04<MDL | No | 3.0 |
| Prometryne | 04/15/2019 | 0.03<MDL | No | 1.0 |
| Simazine | 04/15/2019 | 0.01<MDL | No | 10.0 |
| Terbufos | 04/15/2019 | 0.01<MDL | No | 1.0 |
| Tetrachloroethylene (perchloroethylene) | 04/15/2019 | 0.35<MDL | No | 10.0 |
| 2,3,4,6-Tetrachlorophenol | 04/15/2019 | 0.20<MDL | No | 100 |
| Triallate | 04/15/2019 | 0.01<MDL | No | 230 |
| Trichloroethylene | 04/15/2019 | 0.44<MDL | No | 5.0 |
| 2,4,6-Trichlorophenol | 04/15/2019 | 0.25<MDL | No | 5.0 |
| Trifluralin | 04/15/2019 | 0.02<MDL | No | 45.0 |
| Vinyl Chloride | 04/15/2019 | 0.17<MDL | No | 1.0 |

Notes:

- Results expressed in µg/L
- MDL – Maximum Detection Limit

**Table 3.2 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Trihalomethanes**

| Date | THM Results | THM Running Annual Average | Exceedance | Standard |
|---|-------------|----------------------------|------------|----------|
| Distribution – Dugdale Avenue Sampling Station | | | | |
| January 20, 2020 | 43.0 | 44.0 | No | 100 |
| April 14, 2020 | 36.0 | | | |
| July 13, 2020 | 47.0 | | | |
| October 29, 2020 | 50.0 | | | |

Notes: Results expressed in µg/L

**Table 3.3 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Haloacetic Acid**

| Date | Location | HAA Results | HAA Running Annual Average | Exceedance | Standard |
|--------------------|---------------------|-------------|----------------------------|------------|----------|
| March 16, 2020 | Dugdale Avenue SS | 14.6 | 18.5 | No | 80 |
| March 16, 2020 | Michaelis Street SS | 18.0 | | | |
| June 22, 2020 | Beattie Avenue SS | 16.2 | | | |
| September 24, 2020 | Beattie Avenue SS | 21.9 | | | |
| December 15, 2020 | Beattie Avenue SS | 18.1 | | | |

Notes: Results expressed in µg/L

**Table 3.4 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Nitrite and Nitrate (Page 1 of 2)**

| Parameter | Sample Date (mm/dd/yr) | Result Value | Exceedance | Standard |
|----------------|------------------------|--------------|------------|----------|
| Well #1 | | | | |
| Nitrite | 04/20/2020 | 0.003 <MDL | No | 1.0 |
| | 10/27/2020 | 0.003 <MDL | | |
| Nitrate | 04/20/2020 | 0.034 | No | 10.0 |
| | 10/27/2020 | 0.014 | | |
| Well #4 | | | | |
| Nitrite | 01/20/2020 | 0.003 <MDL | No | 1.0 |
| | 04/14/2020 | 0.003 <MDL | | |
| | 07/13/2020 | 0.003 <MDL | | |
| | 10/27/2020 | 0.003 <MDL | | |
| Nitrate | 01/20/2020 | 0.008 | No | 10.0 |
| | 04/14/2020 | 0.010 | | |
| | 07/13/2020 | 0.006<MDL | | |
| | 10/27/2020 | 0.006<MDL | | |
| Well #5 | | | | |
| Nitrite | 01/20/2020 | 0.003 <MDL | No | 1.0 |
| | 04/14/2020 | 0.003 <MDL | | |
| | 07/13/2020 | 0.003 <MDL | | |
| | 10/27/2020 | 0.003 <MDL | | |
| Nitrate | 01/20/2020 | 0.012 | No | 10.0 |
| | 04/14/2020 | 0.010 | | |
| | 07/13/2020 | 0.011 | | |
| | 10/27/2020 | 0.010 | | |

**Table 3.4 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Nitrite and Nitrate (Page 2 of 2)**

| Parameter | Sample Date (mm/dd/yr) | Result Value | Exceedance | Standard |
|-------------------------------|---------------------------|--------------|------------|----------|
| Well #6 | | | | |
| Nitrite | 01/20/2020 | 0.003<MDL | No | 1.0 |
| | 04/14/2020 | 0.003 <MDL | | |
| | 07/13/2020 | 0.003 <MDL | | |
| | 10/27/2020 | 0.003 <MDL | | |
| Nitrate | 01/20/2020 | 0.006<MDL | No | 10.0 |
| | 04/14/2020 | 0.010 | | |
| | 07/13/2020 | 0.008 | | |
| | 10/27/2020 | 0.010 | | |
| Well #7 | | | | |
| Nitrite | 01/20/2020 | 0.003 <MDL | No | 1.0 |
| | 04/14/2020 | 0.003 <MDL | | |
| | 07/13/2020 | 0.003 <MDL | | |
| | 10/27/2020 | 0.003 <MDL | | |
| Nitrate | 01/20/2020 | 0.009 | No | 10.0 |
| | 04/14/2020 | 0.006<MDL | | |
| | 07/13/2020 | 0.006<MDL | | |
| | 10/27/2020 | 0.006<MDL | | |
| Well #8 | | | | |
| Nitrite | 01/20/2020 | 0.003 <MDL | No | 1.0 |
| | 07/13/2020 | 0.003 <MDL | | |
| | 10/27/2020 | 0.003 <MDL | | |
| Nitrate | 01/20/2020 | 0.011 | No | 10.0 |
| | 07/13/2020 | 0.010 | | |
| | 10/27/2020 | 0.012 | | |
| Parsons Road Reservoir | | | | |
| Nitrite | 01/20/2020 | 0.003 <MDL | No | 1.0 |
| | 04/14/2020 | 0.003 <MDL | | |
| | 07/13/2020 | 0.003 <MDL | | |
| | 10/27/2020 | 0.003 <MDL | | |
| Nitrate | 01/20/2020 | 0.275 | No | 10.0 |
| | 04/14/2020 | 0.272 | | |
| | 07/13/2020 | 0.181 | | |
| | 10/27/2020 | 0.226 | | |
| Hillcrest Well | | | | |
| Nitrite | 01/23/2020 | 0.003<MDL | No | 1.0 |
| | 04/17/2020 | 0.003<MDL | | |
| | 07/21/2020 | 0.003<MDL | | |
| | 10/29/2020 | 0.003 <MDL | | |
| Nitrate | 01/23/2020 | 0.020 | No | 10.0 |
| | 04/17/2020 | 0.009 | | |
| | 07/21/2020 | 0.011 | | |
| | 10/29/2020 | 0.014 | | |

Notes: Results expressed in mg/L

**Table 3.5 - Schedule 13 Chemical Sampling and Testing
Summary of Treated Water Samples – Sodium and Fluoride**

| Parameter | Sample Date (mm/dd/yr) | Result Value | Exceedance | Standard |
|-------------------------------|---------------------------|--------------|------------|----------|
| Well #1 | | | | |
| Sodium | 12/11/2017 | 32.8 | Yes | 200* |
| Fluoride | 12/11/2017 | 0.19 | No | 1.5 |
| Well #4 | | | | |
| Sodium | 12/11/2017 | 34.5 | Yes | 200* |
| Fluoride | 12/11/2017 | 0.16 | No | 1.5 |
| Well #5 | | | | |
| Sodium | 12/11/2017 | 28.9 | No | 200* |
| Fluoride | 12/11/2017 | 0.18 | No | 1.5 |
| Well #6 | | | | |
| Sodium | 12/11/2017 | 24.8 | Yes | 200* |
| Fluoride | 12/11/2017 | 0.16 | No | 1.5 |
| Well #7 | | | | |
| Sodium | 12/11/2017 | 8.99 | No | 200* |
| Fluoride | 12/11/2017 | 0.10 | No | 1.5 |
| Well #8 | | | | |
| Sodium | 12/11/2017 | 26.8 | Yes | 200* |
| Fluoride | 12/11/2017 | 0.21 | No | 1.5 |
| Parsons Road Reservoir | | | | |
| Sodium | 12/11/2017 | 4.95 | No | 200* |
| Fluoride | 12/11/2017 | 0.07 | No | 1.5 |
| Hillcrest Well | | | | |
| Sodium | 10/12/2016 | 26.3 | No | 200* |
| Fluoride | 10/12/2016 | 0.24 | No | 1.5 |

Notes:

- Results expressed in 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.

**Table 4 – Schedule 15.1 Lead
Summary of Lead Samples**

| Parameter | Sample Date (mm/dd/yr) | Number of Samples | Range of Results (min/max) | Exceedance | Standard |
|----------------------------------|---------------------------|----------------------|-------------------------------|------------|-----------|
| Lead (Distribution System) | 04/14/2020 10/13/2020 | 10 | 0.04 – 14.1 | Yes | 10 µg/l |
| Alkalinity (Distribution System) | 04/14/2020 10/13/2020 | 10 | 74 - 81 mg/l | N/A | 30 – 500* |

Notes:

*Aesthetic Objective under the Ontario Drinking Water Standards, Objectives, and Guidelines

**Table 5 – Details of Adverse Water Quality Incidents (AWQIs) and Corrective Actions
(Schedule 16 & 17)**

| AWQI # | Incident Date (mm/dd/yr) | Location | Parameter | Result | Unit of Measure | Corrective Action Taken | Corrective Action Date (mm/dd/yr) |
|---------------|---------------------------------|-----------------|------------------|---------------|------------------------|--|--|
| 152022 | 09/15/2020 | Distribution | Low Chlorine | 0.0 | mg/l | Running test at Well #1. Chlorine pump stopped and well shut down. Free Chlorine dropped at 0.01 mg/l at the end of the Chlorine Contact Chamber. Backflushed and restored Chlorine to 0.83 mg/l | 19/15/2020 |
| 152623 | 10/13/2020 | Distribution | Lead | 14.1 | µg/l | Resampled location and upstream on October 20 th with result of 0.24 µg/l and 0.36 µg/l. | 10/29/2020 |