








**OPERATIONS AND COMPLIANCE RELIABILITY INDICES**

| Legend  |   |   |   |        |                |
|---|---|---|---|--------|----------------|
|  |  |  |  | Y/N    | N/A            |
| Achieved  | On Target   | Caution   | Not Achieved  | Yes/No | Not Applicable |

|  | Target | June 2019   |   |
|--|--------|---|---|
| <b>Health &amp; Safety</b>                                       |        |   |   |
| Number of Incidents  | 0      |    |   |
| <i>Actual Result</i>   |        | 0   |   |
| <b>Drinking Water</b>  |        |   |   |
| Inspections Ratings (YTD)  | 100    |    |   |
| <i>Actual Result</i>   |        | 100 %   | Done Feb.13 <sup>th</sup> , received report April 1 <sup>st</sup>             |
| AWQI's   | 0      |    |   |
| <i>Actual Result</i>   |        | 0   |   |
| Number of Non-Compliances  | 0      |    |   |
| <i>Actual Result</i>   |        | 0   |   |
| Number of Water main Breaks                                      | 0      |  |   |
| <i>Actual Result</i>   |        | 0   |   |
| Number of complaints   | 0      |  |   |
| <i>Actual Result</i>   |        |   |   |
| Water Main Flushing  | 100%   |  |   |
| <i>Target Achieved</i>   |        | N/A   |   |
| <b>Wastewater</b>  |        |   |   |
| Number of Non-Compliances  | 0      | N/A   |   |
| <i>Actual Result</i>   |        | 0   |   |
| Number of Bypasses   | 0      | N/A   |   |
| <i>Actual Result</i>   |        | 0   |   |
| Number of Sanitary Sewer Back-ups                                | 0      | N/A   |   |
| <i>Actual Result</i>   |        | 0   |   |
| Sanitary Collection System Flushing Completion as per PM Program | 0      | N/A   |   |
| <b>Preventive Maintenance</b>                                    |        |   |   |
| Work Orders Completed  | >95%   |  | All equipment tagged , entered in database and started to produce work orders |
| <i>Target Achieved</i>   |        | Y   |   |

# OCWA Monthly Operations Report Card

For the Municipality of Casselman  
Water Treatment and Distribution  
Facilities

Prescott-Russell Cluster  
Operations June 2019



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**



# Table of Contents

|   |          |
|---|----------|
| <b>1.0 Facility Listing</b> .....                             | <b>2</b> |
| 1.1 Water Treatment & Distribution                            |          |
| <b>2.0 Compliance</b> .....                                   | <b>2</b> |
| 2.1 Water Treatment & Distribution                            |          |
| <b>3.0 Facility Performance</b> .....                         | <b>3</b> |
| 3.1 Water Treatment and Distribution System                   |          |
| <b>4.0 Drinking Quality Management Standard (DWQMS)</b> ..... | <b>3</b> |
| <b>5.0 Maintenance / Capital / Value Added</b> .....          | <b>3</b> |
| 5.1 Water Treatment & Distribution                            |          |
| 5.2 Work Management System (WMS) Work Order Summary           |          |
| <b>6.0 Communications</b> .....                               | <b>4</b> |
| 6.1 Water Treatment & Distribution                            |          |
| <b>7.0 Recommendations/General Comments</b> .....             | <b>4</b> |
| 7.1 Water Treatment & Distribution                            |          |
| <b>Attachments</b> .....                                      |          |
| I - Performance Assessment Report - Casselman WTP             |          |
| II - Monthly Work Order Summary – Casselman WTP               |          |

## 1.0 FACILITY LISTINGS

### 1.1 Water Treatment & Distribution

| Facility                                  | Appurtenances                                      |
|---|--|
| 5971W Casselman Water Treatment Plant     | 1 WTP (Actiflo Process)                            |
| 5971D Casselman Water Distribution System | 1 Water Storage Tower<br>Water Distribution System |

## 2.0 COMPLIANCE

### 2.1 Water Treatment and Distribution

#### Most Recent MOE Compliance Inspection Report - Rating

| ORG  | Facility             | Inspection Date | Report Period | Inspector Name        | MOE CIR Rating | Inspection Report Received | Inspection Report Reply Submitted |
|------|----------------------|-----------------|---------------|-----------------------|----------------|----------------------------|-----------------------------------|
| 5971 | Casselman WTP and WD | 11/12/2017      | 2017          | Christina Des Rochers | 90.65          | 31/01/18                   | 13/02/18<br>Alain                 |
| 5971 | Casselman WTP and WD | 13/02/2019      | 2018          | James Peets           | 100            | April 1 <sup>st</sup>      | N/A                               |

#### Annual Reports (Water)

All 2018 Annual Reports required under the Drinking Water Systems Regulation (O. Reg. 170/03) of the Safe Drinking Water Act: Water Taking, Section 10 and Schedule 22 Reports, were completed February 19<sup>th</sup> 2019..

#### Adverse Water Quality Incidents (AWQI's)

| Date | Facility | AWQI# | ISSUE          | Date Resolved |
|------|----------|-------|----------------|---------------|
|      |          |       | None to report |               |

### **3.0 FACILITY PERFORMANCE**

#### **3.1 Water Treatment and Distribution System**

| <b>Facility</b>              | <b>Reporting Period</b> | <b>Attachments</b>                                |
|------------------------------|-------------------------|---|
| Casselman WTP & Distribution | June 2019               | Performance Assessment report attached Appendix I |
|                              |                         |   |

### **4.0 DRINKING WATER QUALITY MANAGEMENT STANDARD (DWQMS)**

- We're happy to say that OCWA has received their Certificate of Accreditation (Limited Scope-Transitional) for your water and distribution system on November 19<sup>th</sup> and we will be applying for full scope accreditation by the November 19<sup>th</sup> 2019 deadline.
- The off-site audit document review is scheduled for July 11, 2019 and on site initial accreditation audit is scheduled for July 24, 2019.

### **5.0 MAINTENANCE / CAPITAL / VALUE ADDED**

#### **5.1 Water Treatment and Distribution**

| <b>Facility</b>        | <b>Date</b>           | <b>Description</b>  |
|------------------------|-----------------------|---|
| Casselman distribution | June                  | A total of 51 locates were done in June. Municipality will be charged for 31 locates at actual time spent as per agreement.                                     |
| Casselman WTP          | June 5 <sup>th</sup>  | One VFD was installed on a transfer well pump, other 5 to follow  |
| Casselman distribution | June 7 <sup>th</sup>  | Replaced stand post at 721 St-Joseph with Gagné   |
| Casselman distribution | June 11 <sup>th</sup> | Water tower inspection done by Landmark, report to follow   |
| Casselman distribution | June 11 <sup>th</sup> | Opened water service at splash pad  |
| Casselman WTP          | June                  | One UV display not working will need to be replaced, waiting for quote  |
| Casselman distribution | June 18 <sup>th</sup> | Replaced bolts on 4 valves on Duhamel street with Gagné   |
| Casselman distribution | June 19 <sup>th</sup> | Replaced stand post at 831 Principal with Gagné   |
| Casselman distribution | June 20 <sup>th</sup> | Replaced stand post at 754 Lévesque with Gagné  |
| Casselman WTP          | June 24 <sup>th</sup> | MECP and MOH reported a spill in the Castor river in Embrun, staff came in to monitor water quality at plant. Raw water sampled and no contaminants were found. |
| Casselman distribution | June 26 <sup>th</sup> | Replaced stand post at 669 St-Anne with LSC   |

### 5.3 Preventive Maintenance Plan (PMP) Work Order Summary

All equipment preventive work orders were completed and entered in database (see complete report attached)

## **6.0 COMMUNICATIONS**

### 6.1 Water Treatment & Distribution

| Facility | Date | Complaint/Incident | Actions Taken |
|----------|------|--------------------|---------------|
|          |      | None to report     |               |

## **7.0 RECOMMENDATIONS / GENERAL COMMENTS**

### 7.1 Water Treatment and Distribution

- OCWA will be applying to modify the Drinking Water Works Permit in the next few months to allow us to use the Ammonium Sulfate addition system that was built a couple of years ago.
- OCWA is looking and trying different options to better deal with the manganese levels in the Nation River (Ozone, products to replace the potassium permanganate and any other new technologies). Starting May 1<sup>st</sup> OCWA received approval from the MECP to trial a new chemical to replace the potassium permanganate to control the manganese at the WTP and distribution. If trial shows good results we will be applying to modify the Drinking Water Permit to use permanently.

## **Appendix I**

# Ontario Clean Water Agency - Performance Assessment Report

From 01/01/2019 to 31/12/2019

**Facility Org Number:** 5971  
**Facility Name:** Casselman Drinking Water System  
**Facility Owner:** The Village of Casselman

|  | 01/2019 | 02/2019 | 03/2019 | 04/2019 | 05/2019 | 06/2019 | 07/2019 | 08/2019 | 09/2019 | 10/2019 | 11/2019 | 12/2019 | Total  | Avg      | Max  | Min   |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|----------|------|-------|
| <b>Raw Flow - m³/d</b>                                   |         |         |         |         |         |         |         |         |         |         |         |         |        |          |      |       |
| Maximum  | 1336    | 1399    | 1479    | 1577    | 1359    | 1616    |         |         |         |         |         |         |        |          | 1616 |       |
| Mean   | 1012.29 | 952.61  | 1028.42 | 1036.03 | 1040.71 | 1171.57 |         |         |         |         |         |         |        | 1040.272 |      |       |
| Minimum  | 347     | 663     | 594     | 449     | 642     | 651     |         |         |         |         |         |         |        |          |      | 347   |
| Total  | 31381   | 26673   | 31881   | 31081   | 32262   | 35147   |         |         |         |         |         |         | 188425 |          |      |       |
| <b>Treated Flow - m³/d</b>                               |         |         |         |         |         |         |         |         |         |         |         |         |        |          |      |       |
| Maximum  | 1127    | 1234    | 1149    | 1417    | 1199    | 1428    |         |         |         |         |         |         |        |          | 1428 |       |
| Mean   | 885.03  | 851.54  | 877.19  | 910.13  | 899.19  | 1028.57 |         |         |         |         |         |         |        | 908.6083 |      |       |
| Minimum  | 507     | 630     | 564     | 427     | 99      | 540     |         |         |         |         |         |         |        |          |      | 99    |
| Total  | 27436   | 23843   | 27193   | 27304   | 27875   | 30857   |         |         |         |         |         |         | 164508 |          |      |       |
| <b>Raw Water / E. Coli - cfu/100mL</b>                   |         |         |         |         |         |         |         |         |         |         |         |         |        |          |      |       |
| Count  | 5       | 5       | 4       | 5       | 4       | 4       |         |         |         |         |         |         | 27     |          |      |       |
| Maximum  | 52      | 53      | 27      | 52      | 77      | 66      |         |         |         |         |         |         |        |          | 77   |       |
| Mean   | 22      | 20.4    | 12      | 33.2    | 42      | 23.25   |         |         |         |         |         |         |        | 25.475   |      |       |
| Minimum  | 0       | 0       | 0       | 1       | 2       | 1       |         |         |         |         |         |         |        |          |      | 0     |
| <b>Raw Water / Total Coliform: TC - cfu/100mL</b>        |         |         |         |         |         |         |         |         |         |         |         |         |        |          |      |       |
| Count  | 5       | 5       | 4       | 5       | 4       | 4       |         |         |         |         |         |         | 27     |          |      |       |
| Maximum  | 136     | 184     | 104     | 74      | 130     | 118     |         |         |         |         |         |         |        |          | 184  |       |
| Mean   | 69      | < 98    | 53      | 51.2    | 64.5    | 42.5    |         |         |         |         |         |         |        |          |      |       |
| Minimum  | < 2     | < 2     | 22      | 2       | 12      | 4       |         |         |         |         |         |         |        |          |      | 2     |
| <b>Actiflo Filter #1 / Turbidity - NTU</b>               |         |         |         |         |         |         |         |         |         |         |         |         |        |          |      |       |
| Maximum  | 0.38    | 0.48    | 0.61    | 0.91    | 0.29    | 0.45    |         |         |         |         |         |         |        |          | 0.91 |       |
| Mean   | 0.027   | 0.065   | 0.096   | 0.092   | 0.083   | 0.094   |         |         |         |         |         |         |        | 0.08     |      |       |
| <b>Actiflo Filter #2 / Turbidity - NTU</b>               |         |         |         |         |         |         |         |         |         |         |         |         |        |          |      |       |
| Maximum  | 0.47    | 0.5     | 0.4     | 0.37    | 0.41    | 0.47    |         |         |         |         |         |         |        |          | 0.50 |       |
| Mean   | 0.009   | 0.102   | 0.091   | 0.08    | 0.08    | 0.09    |         |         |         |         |         |         |        | 0.08     |      |       |
| <b>Filter Efficiency / Turbidity - % &lt; 0.3 NTU</b>    |         |         |         |         |         |         |         |         |         |         |         |         |        |          |      |       |
| Mean   | 99.88   | 99.98   | 99.94   | 99.94   | 99.95   | 99.95   |         |         |         |         |         |         |        | 99.94    |      |       |
| <b>Treated Water / Turbidity - NTU</b>                   |         |         |         |         |         |         |         |         |         |         |         |         |        |          |      |       |
| Maximum  | 2.83    | 3.83    | 3.1     | 3.42    | 1.888   | 0.81    |         |         |         |         |         |         |        |          | 3.83 |       |
| Mean   | 0.166   | 0.426   | 1.915   | 0.473   | 0.268   | 0.134   |         |         |         |         |         |         |        | 0.56     |      |       |
| <b>Treated Water / UV Intensity - mW/cm²</b>             |         |         |         |         |         |         |         |         |         |         |         |         |        |          |      |       |
| Minimum  | 58      | 71      | 57      | 75      | 65      | 52      |         |         |         |         |         |         |        |          |      | 52    |
| <b>Treated Water / Cl Residual: Free - mg/L (Online)</b> |         |         |         |         |         |         |         |         |         |         |         |         |        |          |      |       |
| Maximum  | 2.76    | 2.27    | 3.78    | 2.7     | 2.84    | 2.72    |         |         |         |         |         |         |        |          | 3.78 |       |
| Mean   | 1.943   | 1.771   | 6.605   | 2.099   | 2.00    | 1.94    |         |         |         |         |         |         |        | 2.73     |      |       |
| Minimum  | 0.56    | 0.95    | 0.21    | 1.29    | 0.127   | 0.63    |         |         |         |         |         |         |        |          |      | 0.127 |
| <b>Treated Water / E. Coli - cfu/100mL</b>               |         |         |         |         |         |         |         |         |         |         |         |         |        |          |      |       |
| Count  | 5       | 5       | 4       | 5       | 4       | 4       |         |         |         |         |         |         | 27     |          |      |       |
| Maximum  | 0       | 0       | 0       | 0       | 0       | 0       |         |         |         |         |         |         |        |          | 0    |       |
| Mean   | 0       | 0       | 0       | 0       | 0       | 0       |         |         |         |         |         |         |        |          |      |       |
| Minimum  | 0       | 0       | 0       | 0       | 0       | 0       |         |         |         |         |         |         |        |          |      | 0     |
| <b>Treated Water / Total Coliform: TC - cfu/100mL</b>    |         |         |         |         |         |         |         |         |         |         |         |         |        |          |      |       |
| Count  | 5       | 4       | 4       | 5       | 4       | 4       |         |         |         |         |         |         | 26     |          |      |       |
| Maximum  | 0       | 0       | 0       | 0       | 0       | 0       |         |         |         |         |         |         |        |          | 0    |       |
| Mean   | 0       | 0       | 0       | 0       | 0       | 0       |         |         |         |         |         |         |        |          |      |       |
| Minimum  | 0       | 0       | 0       | 0       | 0       | 0       |         |         |         |         |         |         |        |          |      | 0     |
| <b>Treated Water / HPC - cfu/mL</b>                      |         |         |         |         |         |         |         |         |         |         |         |         |        |          |      |       |





## **Appendix II**

## Monthly Work Order Summary - June 2019

### Casselman Water Treatment Plant

| Description   | Status | Work Type |
|---|--------|-----------|
| Analyzer Chlorine Inspection/Service (1m) 5971        | COMP   | PM        |
| Analyzer Chlorine Free Insp/Service (1m) - 5971       | COMP   | PM        |
| Analyzer pH Inspection/Service (1m) 5971              | COMP   | PM        |
| Analyzer Turbidity Inspection/Service (1m) 5971       | COMP   | PM        |
| Blower Centrifugal Inspection/Service (1m) 5971       | COMP   | PM        |
| Air Compressor Inspection/Service (1m) 5971           | COMP   | PM        |
| Dryer Air Service (1m) - 5971                         | COMP   | PM        |
| Generator Inspection (1m) 5971                        | COMP   | PM        |
| Mixer Chemical Inspection (3m) 5971                   | COMP   | PM        |
| PANEL ALARM/DIALER TEST (1m) - 5971                   | COMP   | PM        |
| Relief Valve UV Room Inspection (3m) 5971             | COMP   | OPER      |
| Transmitter Flow (1y) Service 5971                    | APPR   | PM        |
| UV Light Bank Insp/Service (1m) - 5971                | COMP   | PM        |
| Health And Safety Inspection (1m) 5971                | COMP   | PM        |
| Annual Corporate H&S Checklist (1y) - 5971            | APPR   | PM        |
| Locate Casselman WDS 5971 -Duhamel 20192223980        | COMP   | OPER      |
| Locate Casselman WDS 5971 -236 Argile 20192228999     | COMP   | OPER      |
| Locate Casselman WDS 5971 -742 Brebeuf 2019233811     | COMP   | OPER      |
| Locate Casselman WDS 5971 -240 Nature 2019234314      | COMP   | OPER      |
| Locate Casselman WDS 5971 -13 Alice 2019236631        | COMP   | OPER      |
| Locate Casselman WDS 5971 -19 Alice 2019236803        | COMP   | OPER      |
| Locate Casselman WDS 5971 -285 Nature 20192311469     | COMP   | OPER      |
| Locate Casselman WDS 5971 -870 Principale 20192314099 | COMP   | OPER      |
| Locate Casselman WDS 5971 -Laurier 20192315808        | COMP   | OPER      |
| Locate Casselman WDS 5971 -12 Fillion 2019241932      | COMP   | OPER      |
| Locate Casselman WDS 5971 -20 Mercier 2019241900      | COMP   | OPER      |
| Locate Casselman WDS 5971 -4 Sarah 2019241711         | COMP   | OPER      |
| Locate Casselman WDS 5971 -733 Rte 500 E 2019240207   | COMP   | OPER      |
| Locate Casselman WDS 5971 -228 Laurier 20192328561    | COMP   | OPER      |

|  |      |      |
|--|------|------|
| Locate Casselman WDS 5971 -786 Levesque 20192323069      | COMP | OPER |
| Locate Casselman WDS 5971 -19 Sauve 20192315552          | COMP | OPER |
| Water Tower inspection                                   | APPR | PM   |
| Locate Casselman WDS 5971 -700 St-Isidore 20192413532    | COMP | OPER |
| Locate Casselman WDS 5971 -733 St-Isidore 20192414416    | COMP | OPER |
| Locate Casselman WDS 5971 -215 Laurier 20192411085       | COMP | OPER |
| Locate Casselman WDS 5971 -289 Nature 20192417223        | COMP | OPER |
| Locate Casselman WDS 5971 -158 Argile 20192424397        | COMP | OPER |
| Locate Casselman WDS 5971 -128 Argile 20192424583        | COMP | OPER |
| Locate Casselman WDS 5971 -296 Nature 20192424516        | COMP | OPER |
| Locate Casselman WDS 5971 -304 Nature 20192424507        | COMP | OPER |
| C.I Disinfection alarm Cass 5971 at 7:44                 | COMP | CALL |
| C.I by Maurice Spill in River, Cass 5971 at 1:30 am      | COMP | CALL |
| C.I.Unlatched Actiflo alarm at 10:00, Casselman 5971     | COMP | CALL |
| UV fault   | COMP | CALL |
| back wash valve will not open                            | COMP | EMER |
| Locate Casselman WDS 5971 -16 Industriel 20192512462     | COMP | OPER |
| Locate Casselman WDS 5971 -698 Dollars 20192512814       | COMP | OPER |
| Locate Casselman WDS 5971 -45 Industriel 20192513038     | COMP | OPER |
| Locate Casselman WDS 5971 -809 Principale 20192514674    | COMP | OPER |
| Locate Casselman WDS 5971 -805 Principale20192515262     | COMP | OPER |
| Locate Casselman WDS 5971 -807 Principale 20192515616    | COMP | OPER |
| Locate Casselman WDS 5971 -St isidore crossing2019247891 | COMP | OPER |
| Locate Casselman WDS 5971 -698 Dollars 20192519281       | COMP | OPER |
| Locate Casselman WDS 5971 -236 argile 20192527434        | COMP | OPER |
| Spill in South Nation River                              | APPR | OPER |
| Locate Casselman WDS 5971- 288 Nature 2019269336         | COMP | OPER |
| Locate Casselman WDS 5971- 276 Nature 2019269319         | COMP | OPER |
| Locate Casselman WDS 5971- 228 Nature 2019269293         | COMP | OPER |
| Locate Casselman WDS 5971- 240 Nature 2019269281         | COMP | OPER |
| Locate Casselman WDS 5971- 296 Nature 2019269256         | COMP | OPER |
| Locate Casselman WDS 5971- 62 Lafleche 20192529501       | COMP | OPER |
| Locate Casselman WDS 5971- 304 Nature 20192527555        | COMP | OPER |

|   |      |      |
|---|------|------|
| Locate Casselman WDS 5971- 148 Argile 20192527483           | COMP | OPER |
| Locate Casselman WDS 5971- 231 Argile 20192527472           | COMP | OPER |
| Locate Casselman WDS 5971- 108 Argile 20192527462           | COMP | OPER |
| Locate Casselman WDS 5971- 104 Argile 20192527450           | COMP | OPER |
| Locate Casselman WDS 5971- 843 Marquette 20192526381        | COMP | OPER |
| Locate Casselman WDS 5971- 81 Lafleche 20192524909          | COMP | OPER |
| Locate Casselman WDS 5971- 726 Brebeuf 20192524858          | COMP | OPER |
| Locate Casselman WDS 5971- 874 Princi 20192523026           | COMP | OPER |
| Locate Casselman WDS 5971- 692 St-Isidore 20192522530       | COMP | OPER |
| Locate Casselman WDS 5971- 773 Laval 20192522231            | COMP | OPER |
| Locate Casselman WDS 5971- 754 St-Jean 20192522106          | COMP | OPER |
| Change stand post 669 Ste Anne                              | APPR | EMER |
| Repair Air Compressor lectrical problem, Casselman 5971     | COMP | CORR |
| High settled water turbidity, Actiflo #1 Casselman WTP 5971 | COMP | CALL |
| Clear well high level                                       | COMP | CALL |
| Transfer pump #3 fault                                      | COMP | CALL |