ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	**220001432**
Drinking-Water System Name:	City of Dryden
Drinking-Water System Owner:	City of Dryden
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	2024

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [X]

Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No [ ]

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

A hard copy is available for inspection at the Public Works office at 159 King St. or on the web at www.dryden.ca.

Complete for all other Categories.

Number of Designated Facilities served:

None

Did you provide a copy of your annual report to all Designated Facilities you serve?
Yes [ ] No [ ] N/A

Number of Interested Authorities you report to: None

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?
Yes [ ] No [ ] N/A

Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
N/A	

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?
Yes [ ] No [ ] N/A

Indicate how you notified system users that your annual report is available and is free of charge.

[X] Public access/notice via the web
[ ] Public access/notice via Government Office
[ ] Public access/notice via a newspaper
[ ] Public access/notice via Public Request
[ ] Public access/notice via a Public Library
[ ] Public access/notice via other method _____

Describe your Drinking-Water System

The City of Dryden Water Treatment Plant is a Class II conventional surface water treatment plant. Raw water is pumped from Wabigoon Lake approximately 2km to the treatment plant where Aluminum Sulphate (alum) is added for coagulation. A second Raw water line has been added to provide redundancy. The water then flows to one of two solids contact units where polymer is added, and flocculation and sedimentation occurs. The heavier settled floc is dumped to the sanitary sewer. Hydrated lime is added for PH adjustment just before the effluent is gravity fed to four dual media rapid sand filters. The filters are equipped with automatic filter to waste valves. In the event of high filter effluent turbidity, the valves open automatically sending the high turbid water to waste. Filtered water then flows to the Clear-well. Chlorine is added in the Clear-well for primary disinfection. The water then flows to the reservoir and then to the Pump-well where it is pumped to the distribution system. Chlorine residual and turbidity are monitored with continuous on-line analyzers just prior to the water leaving the plant. The distribution system consists of 60 kilometers of water mains of various sizes and materials, 840 valves, 305 fire hydrants and 2600 service connections, supplying a service population of 7,300.

List all water treatment chemicals used over this reporting period

Aluminum Sulphate (alum), Polymer (Nalclear 8181), Hydrated Lime and Chlorine Gas.

Were any significant expenses incurred to?

[x] Install required equipment
[x] Repair required equipment
[x] Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred

202400081 Purchase 20NTU Calibration standard to calibrate turbidity monitors $1207.00
202400133 Replace Turbidity Sensors on Filter #4 and order replacement $11,346
2024 00149 Battery for Alarm Panel $214

Operational
202400209 Replace T on Sludge Line from decant chamber pits $433
202400053 Replace VFD in pump #2 and order spare $7650
202400586 Study to upgrade main breaker and voltage relay switch $13,215
202400883 Annual SCADA maintenance – Indus Automation $9,674
202402282 Annual Load Testing GAL Power $880
202402523 Xylem maintenance on Flyght Pumps $1254
202405445 Lakeside Controls Calibrate Equipment $2750
202406240 Diaphragm Rebuild Kits for Polymer Pump $1992
202407231 Deutz Pumps Fire Pump Exhaust Repair $2162
202407295 Dynamic Machine New Compressor Strat up and service old compressor as Backup $3320
Overhead Cranes Inspection $2,101

Capital
202400570 Dynamic Machine supply new air compressor $27,391
202400864 Purchase and Install new Vertical Turbine High Lift Pump. Repair additional Pumps $77,611
202407289 Repair failed 8'header pipes for all 3 Pumps $43,167
202400577 Change Room Rehab $17,109

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
N/A					

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	Number of Samples	Range of E.Coli Or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw	52	0→6 MPN/100mls	0→164 MPN/100mls	None	N/A

Treated	52	0 cfu/100mls	0 cfu/100mls	52	0→10 cfu/ ml
Distribution		0 cfu/100mls	0 cfu/100mls	104	0→10 cfu/ ml

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (min #)-(max #)
Turbidity	**8760**	**0.02 → 0.78 NTU**
Chlorine	**8760**	**1.24 → 1.85 Mg/l**
Fluoride (If the DWS provides fluoridation)		**N/A**

***NOTE**: For continuous monitors use 8760 as the number of samples.*

***NOTE**: Record the unit of measure if it is **not** milligrams per litre.*

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure	Limit
Jan 20, 2011 Licence-223-101	**Backwash Suspended Solids**	**12 Monthly Composite samples**	<0.67 → 8.33	**Mg/L**	**25 Mg/L**

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Jan. 8	**<0.5**	Ug/l	No
Arsenic	Jan. 8	**<1.0**	Ug/l	No
Barium	Jan. 8	**7.0**	Ug/l	No
Boron	Jan. 8	**<2.0**	Ug/l	No
Cadmium	Jan. 8	**<0.1**	Ug/l	No
Chromium	Jan. 8	**<1.0**	Ug/l	No
***Lead**			Ug/l	No
Mercury	Jan. 8	**<0.1**	Ug/l	No
Selenium	Jan. 8	**<0.2**	Ug/l	No
Sodium	Jan. 8	**3230**	Mg/l	No
Uranium	Jan. 8	**<1.0**	Ug/l	No
Fluoride (RawWater)	Jan. 8	**<0.05**	Mg/l	No

Nitrite	Jan. 8	**<0.05**	Mg/l	No
Nitrate	Jan. 8	**0.08**	Mg/l	No

*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

Summary of lead testing under Schedule 15.1 during this reporting period
(applicable to the following drinking water systems; large municipal residential systems**,** small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Number of Exceedances
Plumbing	**N/A**		
Distribution	**6**	**<0.1 →1 ug/L**	**0**

Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Jan. 8	<0.268	Ug/l	No
MCPA	Jan. 8	<5.93	Ug/l	No
Atrazine + N-dealkylated metobolites	Jan. 8	<0.268	Ug/l	No
Azinphos-methyl	Jan. 8	<0.201	Ug/l	No
Benzene	Jan. 8	<0.1	Ug/l	No
Benzo(a)pyrene	Jan. 8	<0.01	Ug/l	No
Bromoxynil	Jan. 8	<0.0949	Ug/l	No
Carbaryl	Jan. 8	<2.0	Ug/l	No
Carbofuran	Jan. 8	<4.0	Ug/l	No
Carbon Tetrachloride	Jan. 8	<0.2	Ug/l	No
Chlorpyriphos	Jan. 8	<0.201	Ug/l	No
Diazinon	Jan. 8	<0.201	Ug/l	No
Dicamba	Jan. 8	<0.083	Ug/l	No
1,2-Dichlorobenzene	Jan. 8	<0.2	Ug/l	No
1,4-Dichlorobenzene	Jan. 8	<0.3	Ug/l	No
1,2-Dichloroethane	Jan. 8	<0.2	Ug/l	No
1,1-Dichloroethylene (vinylidene chloride)	Jan. 8	<0.3	Ug/l	No
Dichloromethane	Jan. 8	<1.0	Ug/l	No
2-4 Dichlorophenol	Jan. 8	<0.2	Ug/l	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan. 8	<0.356	Ug/l	No

Diclofop-methyl	Jan. 8	<0.119	Ug/l	No
Dimethoate	Jan. 8	<0.201	Ug/l	No
Diquat	Jan. 8	<0.2	Ug/l	No
Diuron	Jan. 8	<10.0	Ug/l	No
Glyphosate	Jan. 8	<20.0	Ug/l	No
Malathion	Jan. 8	<0.201	Ug/l	No
Metolachlor	Jan. 8	<0.134	Ug/l	No
Metribuzin	Jan. 8	<0.134	Ug/l	No
Monochlorobenzene	Jan. 8	<0.5	Ug/l	No
Paraquat	Jan. 8	<0.2	Ug/l	No
Pentachlorophenol	Jan. 8	<0.3	Ug/l	No
Phorate	Jan. 8	<0.134	Ug/l	No
Picloram	Jan. 8	<0.07	Ug/l	No
Prometryne	Jan. 8	<0.0671	Ug/l	No
Simazine	Jan. 8	<0.201	Ug/l	No
THM (NOTE: show latest annual average)	Average	52.3	Ug/l	No
Terbufos	Jan. 8	<0.134	Ug/l	No
Tetrachloroethylene	Jan. 8	<0.3	Ug/l	No
2,3,4,6-Tetrachlorophenol	Jan. 8	<0.2	Ug/l	No
Triallate	Jan. 8	<0.134	Ug/l	No
Trichloroethylene	Jan. 8	<0.2	Ug/l	No
2,4,6-Trichlorophenol	Jan. 8	<0.2	Ug/l	No
Trifluralin	Jan. 8	<0.134	Ug/l	No
Vinyl Chloride	Jan. 8	<0.1	Ug/l	No

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample
None	**n/a**	**n/a**	**n/a**