



2021 Annual Water Quality Reports

Per: Ontario Regulation 170/03, s. 11 (1);
Ontario Regulation 247/06, s. 10 (1)





2021 Annual Water Quality Report

V.3

Reviewed by:

Stephen Kari
Acting Manager Water Treatment

February 24, 2022

Date

Approved by:

Mike Jensen
Director, Water/Wastewater Treatment &
Compliance

February 24, 2022

Date



2021 Annual Water Quality Report

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Section 1

Dowling Drinking Water System

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	210001665
Drinking-Water System Name:	Dowling Drinking Water System
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2021-01-01 To 2021-12-31

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 ☒

Is your annual report available to the public at no charge on a web site on the Internet? Yes ☒ No ☐

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

www.greatersudbury.ca
TDS-Engineering Department

Complete for all other Categories.

Number of Designated Facilities served:

0

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes ☐ No ☒

Number of Interested Authorities you report to:

0

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?

Yes ☐ No ☒

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

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 ☐

Drinking-Water Systems Regulation O. Reg. 170/03

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

- ☒ 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/Citizen Service Centre
- ☐ Public access/notice via other method _____

Describe your Drinking-Water System

The Dowling Drinking Water System encompasses all municipal water distribution within Dowling. The system includes Dowling Well #1 (Riverside) located on Riverside Dr., Dowling Well #2 (Lionel) located on Lionel Avenue and the Dowling Tank located off of Hwy. 144. Each of the wells is housed in individual structures. The wells pump water from an unconfined aquifer within a primarily sand and gravel formation. The discharge at each well site undergoes primary treatment in the form of Ultra-Violet irradiation, secondary disinfection by chlorination, and fluoridation before it enters the distribution system. Continuous analyzers for free chlorine residual, fluoride, turbidity and UV equipment are monitored by an onsite PLC. A standby power generator with an automatic transfer switch is located at Lionel well and supplies power to both wells. The distribution system includes an online continuous free chlorine analyzer. The entire water system is in compliance with O. Reg. 170/03 and is monitored 24/7 from the Wanapitei WTP.

List all water treatment chemicals used over this reporting period

Chlorine Gas UN#1017, Hydrofluosilicic Acid UN#1778

Were any significant expenses incurred to?

- ☐ Install required equipment
- ☐ Repair required equipment
- ☐ Replace required equipment

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

Drinking-Water Systems Regulation O. Reg. 170/03

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

AWQI #	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date

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: LIONEL WELL#2					
	52	0 to 0	0 to 1		
Raw: RIVERSIDE WELL#1					
	52	0 to 0	0 to 0		
Treated: LIONEL WELL					
	52	0 to 0	0 to 0	52	0 to 120
Treated: RIVERSIDE WELL					
	52	0 to 0	0 to 0	52	0 to 10
Distribution					
	156	0 to 0	0 to 0	42	10 to 20

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 #)
Chlorine Residual Distribution System	8,760	0.59 - 2.05

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

LIONEL WELL

Turbidity	8,760	0.03 - 1.18	NTU
Chlorine	8,760	0.64 - 3.45	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 0.94	mg/L

RIVERSIDE WELL

Turbidity	8,760	0.00 - 0.72	NTU
Chlorine	8,760	0.70 - 2.94	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.15	mg/L

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

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure

LIONEL WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2021/11/30	0.0005	mg/L	No
Arsenic	2021/11/30	0.001	mg/L	No
Barium	2021/11/30	0.0232	mg/L	No
Boron	2021/11/30	0.011	mg/L	No
Cadmium	2021/11/30	0.0001	mg/L	No
Chromium	2021/11/30	0.0012	mg/L	No
Mercury	2021/11/30	0.0001	mg/L	No
Selenium	2021/11/30	0.00035	mg/L	No
Uranium	2021/11/30	0.001	mg/L	No
Nitrite	2021/03/02	0.05	mg/L	No
	2021/06/01	0.05	mg/L	No
	2021/09/08	0.05	mg/L	No
	2021/11/30	0.05	mg/L	No

Drinking-Water Systems Regulation O. Reg. 170/03

Nitrate	2021/03/02	0.537	mg/L	No
	2021/06/01	0.569	mg/L	No
	2021/09/08	0.654	mg/L	No
	2021/11/30	0.725	mg/L	No
Sodium	2021/11/30	38.90	mg/L	Yes

RIVERSIDE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2021/11/30	0.0005	mg/L	No
Arsenic	2021/11/30	0.001	mg/L	No
Barium	2021/11/30	0.0181	mg/L	No
Boron	2021/11/30	0.0055	mg/L	No
Cadmium	2021/11/30	0.0001	mg/L	No
Chromium	2021/11/30	0.0012	mg/L	No
Mercury	2021/11/30	0.0001	mg/L	No
Selenium	2021/11/30	0.00022	mg/L	No
Uranium	2021/11/30	0.001	mg/L	No
Nitrite	2021/03/02	0.05	mg/L	No
	2021/06/01	0.05	mg/L	No
	2021/09/08	0.05	mg/L	No
	2021/11/30	0.05	mg/L	No
Nitrate	2021/03/02	0.74	mg/L	No
	2021/06/01	0.641	mg/L	No
	2021/09/08	0.868	mg/L	No
	2021/11/30	0.691	mg/L	No
Sodium	2021/11/30	37.70	mg/L	Yes

Summary of lead testing under Schedule 15.1 during this reporting period.

Location Type	Number of Samples	Range of Lead Results (min#) - (max#)	Number of Exceedances
Plumbing		mg/L	
Distribution		mg/L	

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	2021	0.0053	mg/L	No
HAA (NOTE: show latest annual average)	2021	0.008	mg/L	No

LIONEL WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
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Drinking-Water Systems Regulation O. Reg. 170/03

Alachlor	2021/11/30	0.000256	mg/L	No
Atrazine + N-dealkylated metabolites	2021/11/30	0.0005	mg/L	No
Azinphos-methyl	2021/11/30	0.000192	mg/L	No
Benzene	2021/11/30	0.0001	mg/L	No
Benzo(a)pyrene	2021/11/30	0.00001	mg/L	No
Bromoxynil	2021/11/30	0.000102	mg/L	No
Carbaryl	2021/11/30	0.002	mg/L	No
Carbofuran	2021/11/30	0.003	mg/L	No
Carbon Tetrachloride	2021/11/30	0.0002	mg/L	No
Chlorpyrifos	2021/11/30	0.000192	mg/L	No
Diazinon	2021/11/30	0.000192	mg/L	No
Dicamba	2021/11/30	0.0000894	mg/L	No
1,2-Dichlorobenzene	2021/11/30	0.0003	mg/L	No
1,4-Dichlorobenzene	2021/11/30	0.0003	mg/L	No
1,2-Dichloroethane	2021/11/30	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2021/11/30	0.0003	mg/L	No
Dichloromethane	2021/11/30	0.001	mg/L	No
2-4 Dichlorophenol	2021/11/30	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2021/11/30	0.000383	mg/L	No
Diclofop-methyl	2021/11/30	0.000128	mg/L	No
Dimethoate	2021/11/30	0.000192	mg/L	No
Diquat	2021/11/30	0.0002	mg/L	No
Diuron	2021/11/30	0.01	mg/L	No
Glyphosate	2021/11/30	0.02	mg/L	No
Malathion	2021/11/30	0.000192	mg/L	No
Metolachlor	2021/11/30	0.000128	mg/L	No
Metribuzin	2021/11/30	0.000128	mg/L	No
Monochlorobenzene	2021/11/30	0.0005	mg/L	No
Paraquat	2021/11/30	0.0002	mg/L	No
Pentachlorophenol	2021/11/30	0.0003	mg/L	No
Phorate	2021/11/30	0.000128	mg/L	No
Picloram	2021/11/30	0.0000894	mg/L	No
Polychlorinated Biphenyls(PCB)	2021/11/30	0.00006	mg/L	No
Prometryne	2021/11/30	0.0000641	mg/L	No
Simazine	2021/11/30	0.000192	mg/L	No
Terbufos	2021/11/30	0.000128	mg/L	No
Tetrachloroethylene	2021/11/30	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2021/11/30	0.0003	mg/L	No
Triallate	2021/11/30	0.000128	mg/L	No
Trichloroethylene	2021/11/30	0.0002	mg/L	No
2,4,6-Trichlorophenol	2021/11/30	0.0002	mg/L	No
Trifluralin	2021/11/30	0.000128	mg/L	No
Vinyl Chloride	2021/11/30	0.0001	mg/L	No
MCPA	2021/11/30	0.00639	mg/L	No

RIVERSIDE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2021/11/30	0.000238	mg/L	No
Atrazine + N-dealkylated metabolites	2021/11/30	0.0005	mg/L	No
Azinphos-methyl	2021/11/30	0.000178	mg/L	No
Benzene	2021/11/30	0.0001	mg/L	No

Drinking-Water Systems Regulation O. Reg. 170/03

Benzo(a)pyrene	2021/11/30	0.00001	mg/L	No
Bromoxynil	2021/11/30	0.000103	mg/L	No
Carbaryl	2021/11/30	0.001	mg/L	No
Carbofuran	2021/11/30	0.002	mg/L	No
Carbon Tetrachloride	2021/11/30	0.0002	mg/L	No
Chlorpyrifos	2021/11/30	0.000178	mg/L	No
Diazinon	2021/11/30	0.000178	mg/L	No
Dicamba	2021/11/30	0.0000904	mg/L	No
1,2-Dichlorobenzene	2021/11/30	0.0003	mg/L	No
1,4-Dichlorobenzene	2021/11/30	0.0003	mg/L	No
1,2-Dichloroethane	2021/11/30	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2021/11/30	0.0003	mg/L	No
Dichloromethane	2021/11/30	0.001	mg/L	No
2-4 Dichlorophenol	2021/11/30	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2021/11/30	0.000387	mg/L	No
Diclofop-methyl	2021/11/30	0.000129	mg/L	No
Dimethoate	2021/11/30	0.000178	mg/L	No
Diquat	2021/11/30	0.0002	mg/L	No
Diuron	2021/11/30	0.007	mg/L	No
Glyphosate	2021/11/30	0.02	mg/L	No
Malathion	2021/11/30	0.000178	mg/L	No
Metolachlor	2021/11/30	0.000119	mg/L	No
Metribuzin	2021/11/30	0.000119	mg/L	No
Monochlorobenzene	2021/11/30	0.0005	mg/L	No
Paraquat	2021/11/30	0.0002	mg/L	No
Pentachlorophenol	2021/11/30	0.0003	mg/L	No
Phorate	2021/11/30	0.000119	mg/L	No
Picloram	2021/11/30	0.0000904	mg/L	No
Polychlorinated Biphenyls(PCB)	2021/11/30	0.00006	mg/L	No
Prometryne	2021/11/30	0.0000594	mg/L	No
Simazine	2021/11/30	0.000178	mg/L	No
Terbufos	2021/11/30	0.000119	mg/L	No
Tetrachloroethylene	2021/11/30	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2021/11/30	0.0003	mg/L	No
Triallate	2021/11/30	0.000119	mg/L	No
Trichloroethylene	2021/11/30	0.0002	mg/L	No
2,4,6-Trichlorophenol	2021/11/30	0.0002	mg/L	No
Trifluralin	2021/11/30	0.000119	mg/L	No
Vinyl Chloride	2021/11/30	0.0001	mg/L	No
MCPA	2021/11/30	0.00645	mg/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	UOM	Date of Sample	Location

(Only if DWS category is large municipal residential, small municipal residential, large municipal non-residential, non municipal year round residential, large non municipal non residential)



Section 2

Falconbridge Drinking Water System

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	240000020
Drinking-Water System Name:	Falconbridge Well Supply
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2021-01-01 To 2021-12-31

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 ☒

Is your annual report available to the public at no charge on a web site on the Internet? Yes ☒ No ☐

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

www.greatersudbury.ca
TDS-Engineering Department

Complete for all other Categories.

Number of Designated Facilities served:

0

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes ☐ No ☒

Number of Interested Authorities you report to:

0

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?

Yes ☐ No ☒

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

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 ☐

Drinking-Water Systems Regulation O. Reg. 170/03

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

- ☒ 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/Citizen Service Centre
- ☐ Public access/notice via other method _____

Describe your Drinking-Water System

The Falconbridge system consists of three drilled wells, Numbers 5, 6, and 7, located north of the Sudbury Airport. All three wells share a common treatment building that includes a stand-by power generator, chlorine gas for disinfection and chemical addition for corrosion control. Continuous analyzers for free chlorine residual and turbidity are monitored by an onsite PLC. Fluoride is added to the water before it enters the Falconbridge Municipal distribution system at a designated fluoridation building. Water is supplied south to the Town of Falconbridge and north to the Nickel Rim Mine reservoir and the Sudbury Airport. The remainder of the system consists of an Elevated Storage Tank, Booster Pumping Station and a Pressure Regulating Valve, all located within the town of Falconbridge. The City provides water to Glencore and two industrial clients along the South transmission line. The distribution system includes an online continuous free chlorine analyzer and fluoride analyzer. The entire water system is in compliance with O. Reg. 170/03 and is monitored 24/7 from the Wanapitei WTP.

List all water treatment chemicals used over this reporting period

Chlorine Gas UN#1017, Polyphosphate, Hydrofluosilicic Acid UN#1778

Were any significant expenses incurred to?

- ☐ Install required equipment
- ☐ Repair required equipment
- ☐ Replace required equipment

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

Drinking-Water Systems Regulation O. Reg. 170/03

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

AWQI #	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date

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: FALCONBRIDGE WELL #5					
	52	0 to 0	0 to 0		
Raw: FALCONBRIDGE WELL #6					
	52	0 to 0	0 to 0		
Raw: FALCONBRIDGE WELL #7					
	52	0 to 0	0 to 0		
Treated: FALCONBRIDGE WELL #5					
	52	0 to 0	0 to 0	52	10 to 10
Treated: FALCONBRIDGE WELL #6					
	52	0 to 0	0 to 0	52	10 to 10
Treated: FALCONBRIDGE WELL #7					
	52	0 to 0	0 to 0	52	10 to 10
Distribution					
	203	0 to 0	0 to 0	50	10 to 10

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 #)
Chlorine Residual Distribution System	8,760	0.80 - 3.89

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

FALCONBRIDGE WELLS TREATED

Turbidity	8,760	0.00 - 5.34	NTU
Chlorine	8,760	0.56 - 5.00	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.34	mg/L

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

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
2020/03/20	Alkalinity	2021/01/05	54	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/01/05	54	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/01/12	55	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/01/14	56	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/01/19	50	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/01/19	54	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/01/26	58	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/01/26	40	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/02/02	61	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/02/02	69	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/02/09	55	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/02/09	44	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/02/17	53	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/02/17	51	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/02/24	56	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/02/24	52	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/03/02	51	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/03/02	52	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/03/09	52	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/03/09	54	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/03/16	54	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/03/16	56	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/03/23	47	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/03/23	53	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/03/30	49	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/03/30	50	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/04/07	64	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/04/07	61	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/04/13	56	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/04/13	58	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/04/20	55	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/04/20	57	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/04/27	50	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/04/27	51	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/05/04	44	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/05/04	49	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/05/10	55	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/05/10	54	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/05/18	54	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/05/18	54	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/05/26	51	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/05/26	52	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/06/03	55	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/06/03	55	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/06/08	59	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/06/08	58	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/06/15	56	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/06/15	52	mg/L as CaCO ₃

Drinking-Water Systems Regulation O. Reg. 170/03

2020/03/20	Alkalinity	2021/06/22	55	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/06/22	53	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/06/28	57	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/06/28	57	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/07/07	56	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/07/07	54	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/07/13	56	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/07/13	53	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/07/20	60	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/07/20	57	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/07/27	55	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/07/27	55	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/08/05	57	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/08/05	56	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/08/12	60	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/08/12	60	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/08/18	59	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/08/18	59	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/08/24	54	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/08/24	53	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/08/31	57	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/08/31	55	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/09/08	55	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/09/08	53	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/09/14	52	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/09/14	54	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/09/21	59	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/09/21	58	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/09/28	52	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/09/28	51	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/10/05	56	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/10/05	54	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/10/13	60	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/10/13	59	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/10/20	49	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/10/20	54	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/10/26	60	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/10/26	59	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/11/02	52	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/11/02	54	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/11/09	47	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/11/09	50	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/11/16	53	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/11/16	52	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/11/23	51	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/11/23	54	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/11/30	52	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/11/30	56	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/12/07	58	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/12/07	58	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/12/14	61	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/12/14	60	mg/L as CaCO ₃

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2020/03/20	Alkalinity	2021/12/21	60	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/12/21	58	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/12/30	60	mg/L as CaCO ₃
2020/03/20	Alkalinity	2021/12/30	60	mg/L as CaCO ₃
2020/03/20	Hardness	2021/01/05	72.3	mg/L as CaCO ₃
2020/03/20	Hardness	2021/01/05	77.9	mg/L as CaCO ₃
2020/03/20	Hardness	2021/01/12	95.9	mg/L as CaCO ₃
2020/03/20	Hardness	2021/01/14	103.0	mg/L as CaCO ₃
2020/03/20	Hardness	2021/01/19	88.8	mg/L as CaCO ₃
2020/03/20	Hardness	2021/01/19	89.8	mg/L as CaCO ₃
2020/03/20	Hardness	2021/01/26	89.4	mg/L as CaCO ₃
2020/03/20	Hardness	2021/01/26	87.8	mg/L as CaCO ₃
2020/03/20	Hardness	2021/02/02	79.1	mg/L as CaCO ₃
2020/03/20	Hardness	2021/02/02	74.6	mg/L as CaCO ₃
2020/03/20	Hardness	2021/02/09	97.2	mg/L as CaCO ₃
2020/03/20	Hardness	2021/02/09	96.8	mg/L as CaCO ₃
2020/03/20	Hardness	2021/02/17	86.4	mg/L as CaCO ₃
2020/03/20	Hardness	2021/02/17	82.1	mg/L as CaCO ₃
2020/03/20	Hardness	2021/02/24	91.8	mg/L as CaCO ₃
2020/03/20	Hardness	2021/02/24	76.5	mg/L as CaCO ₃
2020/03/20	Hardness	2021/03/02	96.0	mg/L as CaCO ₃
2020/03/20	Hardness	2021/03/02	96.3	mg/L as CaCO ₃
2020/03/20	Hardness	2021/03/09	52.3	mg/L as CaCO ₃
2020/03/20	Hardness	2021/03/09	62.8	mg/L as CaCO ₃
2020/03/20	Hardness	2021/03/16	87.4	mg/L as CaCO ₃
2020/03/20	Hardness	2021/03/16	84.7	mg/L as CaCO ₃
2020/03/20	Hardness	2021/03/23	76.1	mg/L as CaCO ₃
2020/03/20	Hardness	2021/03/23	96.5	mg/L as CaCO ₃
2020/03/20	Hardness	2021/03/30	75.0	mg/L as CaCO ₃
2020/03/20	Hardness	2021/03/30	88.9	mg/L as CaCO ₃
2020/03/20	Hardness	2021/04/07	85.0	mg/L as CaCO ₃
2020/03/20	Hardness	2021/04/07	88.3	mg/L as CaCO ₃
2020/03/20	Hardness	2021/04/13	84.7	mg/L as CaCO ₃
2020/03/20	Hardness	2021/04/13	73.3	mg/L as CaCO ₃
2020/03/20	Hardness	2021/04/20	84.0	mg/L as CaCO ₃
2020/03/20	Hardness	2021/04/20	84.6	mg/L as CaCO ₃
2020/03/20	Hardness	2021/04/27	96.5	mg/L as CaCO ₃
2020/03/20	Hardness	2021/04/27	94.3	mg/L as CaCO ₃
2020/03/20	Hardness	2021/05/04	75.1	mg/L as CaCO ₃
2020/03/20	Hardness	2021/05/04	90.2	mg/L as CaCO ₃
2020/03/20	Hardness	2021/05/10	86.4	mg/L as CaCO ₃
2020/03/20	Hardness	2021/05/10	85.8	mg/L as CaCO ₃
2020/03/20	Hardness	2021/05/18	84.8	mg/L as CaCO ₃
2020/03/20	Hardness	2021/05/18	88.5	mg/L as CaCO ₃
2020/03/20	Hardness	2021/05/26	68.5	mg/L as CaCO ₃
2020/03/20	Hardness	2021/05/26	79.3	mg/L as CaCO ₃
2020/03/20	Hardness	2021/06/03	92.0	mg/L as CaCO ₃
2020/03/20	Hardness	2021/06/03	93.1	mg/L as CaCO ₃
2020/03/20	Hardness	2021/06/08	87.4	mg/L as CaCO ₃
2020/03/20	Hardness	2021/06/08	87.9	mg/L as CaCO ₃
2020/03/20	Hardness	2021/06/15	94.7	mg/L as CaCO ₃
2020/03/20	Hardness	2021/06/15	84.9	mg/L as CaCO ₃

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2020/03/20	Hardness	2021/06/22	89.6	mg/L as CaCO ₃
2020/03/20	Hardness	2021/06/22	88.9	mg/L as CaCO ₃
2020/03/20	Hardness	2021/06/28	95.1	mg/L as CaCO ₃
2020/03/20	Hardness	2021/06/28	94.4	mg/L as CaCO ₃
2020/03/20	Hardness	2021/07/07	94.3	mg/L as CaCO ₃
2020/03/20	Hardness	2021/07/07	56.3	mg/L as CaCO ₃
2020/03/20	Hardness	2021/07/13	101.0	mg/L as CaCO ₃
2020/03/20	Hardness	2021/07/13	93.1	mg/L as CaCO ₃
2020/03/20	Hardness	2021/07/20	95.8	mg/L as CaCO ₃
2020/03/20	Hardness	2021/07/20	96.4	mg/L as CaCO ₃
2020/03/20	Hardness	2021/07/27	95.8	mg/L as CaCO ₃
2020/03/20	Hardness	2021/07/27	99.1	mg/L as CaCO ₃
2020/03/20	Hardness	2021/08/05	83.0	mg/L as CaCO ₃
2020/03/20	Hardness	2021/08/05	83.1	mg/L as CaCO ₃
2020/03/20	Hardness	2021/08/12	92.3	mg/L as CaCO ₃
2020/03/20	Hardness	2021/08/12	83.7	mg/L as CaCO ₃
2020/03/20	Hardness	2021/08/18	96.8	mg/L as CaCO ₃
2020/03/20	Hardness	2021/08/18	94.5	mg/L as CaCO ₃
2020/03/20	Hardness	2021/08/24	69.8	mg/L as CaCO ₃
2020/03/20	Hardness	2021/08/24	74.7	mg/L as CaCO ₃
2020/03/20	Hardness	2021/08/31	103.0	mg/L as CaCO ₃
2020/03/20	Hardness	2021/08/31	94.5	mg/L as CaCO ₃
2020/03/20	Hardness	2021/09/08	83.3	mg/L as CaCO ₃
2020/03/20	Hardness	2021/09/08	87.6	mg/L as CaCO ₃
2020/03/20	Hardness	2021/09/14	110.0	mg/L as CaCO ₃
2020/03/20	Hardness	2021/09/14	102.0	mg/L as CaCO ₃
2020/03/20	Hardness	2021/09/21	95.5	mg/L as CaCO ₃
2020/03/20	Hardness	2021/09/21	92.5	mg/L as CaCO ₃
2020/03/20	Hardness	2021/09/28	79.7	mg/L as CaCO ₃
2020/03/20	Hardness	2021/09/28	78.9	mg/L as CaCO ₃
2020/03/20	Hardness	2021/10/05	97.9	mg/L as CaCO ₃
2020/03/20	Hardness	2021/10/05	96.4	mg/L as CaCO ₃
2020/03/20	Hardness	2021/10/13	94.3	mg/L as CaCO ₃
2020/03/20	Hardness	2021/10/13	88.8	mg/L as CaCO ₃
2020/03/20	Hardness	2021/10/20	76.7	mg/L as CaCO ₃
2020/03/20	Hardness	2021/10/20	76.7	mg/L as CaCO ₃
2020/03/20	Hardness	2021/10/26	102.0	mg/L as CaCO ₃
2020/03/20	Hardness	2021/10/26	91.8	mg/L as CaCO ₃
2020/03/20	Hardness	2021/11/02	98.9	mg/L as CaCO ₃
2020/03/20	Hardness	2021/11/02	97.1	mg/L as CaCO ₃
2020/03/20	Hardness	2021/11/09	73.3	mg/L as CaCO ₃
2020/03/20	Hardness	2021/11/09	85.7	mg/L as CaCO ₃
2020/03/20	Hardness	2021/11/16	92.5	mg/L as CaCO ₃
2020/03/20	Hardness	2021/11/16	96.9	mg/L as CaCO ₃
2020/03/20	Hardness	2021/11/23	84.6	mg/L as CaCO ₃
2020/03/20	Hardness	2021/11/23	96.0	mg/L as CaCO ₃
2020/03/20	Hardness	2021/11/30	74.2	mg/L as CaCO ₃
2020/03/20	Hardness	2021/11/30	90.6	mg/L as CaCO ₃
2020/03/20	Hardness	2021/12/07	91.1	mg/L as CaCO ₃
2020/03/20	Hardness	2021/12/07	88.8	mg/L as CaCO ₃
2020/03/20	Hardness	2021/12/14	98.0	mg/L as CaCO ₃
2020/03/20	Hardness	2021/12/14	97.9	mg/L as CaCO ₃

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2020/03/20	Hardness	2021/12/21	103.0	mg/L as CaCO ₃
2020/03/20	Hardness	2021/12/21	102.0	mg/L as CaCO ₃
2020/03/20	Hardness	2021/12/30	88.9	mg/L as CaCO ₃
2020/03/20	Hardness	2021/12/30	94.6	mg/L as CaCO ₃
2020/03/20	Orthophosphate	2021/01/05	1.75	mg/L
2020/03/20	Orthophosphate	2021/01/05	1.06	mg/L
2020/03/20	Orthophosphate	2021/01/12	0.24	mg/L
2020/03/20	Orthophosphate	2021/01/14	0.46	mg/L
2020/03/20	Orthophosphate	2021/01/19	2.00	mg/L
2020/03/20	Orthophosphate	2021/01/19	0.48	mg/L
2020/03/20	Orthophosphate	2021/01/26	1.33	mg/L
2020/03/20	Orthophosphate	2021/01/26	1.20	mg/L
2020/03/20	Orthophosphate	2021/02/02	0.28	mg/L
2020/03/20	Orthophosphate	2021/02/02	0.24	mg/L
2020/03/20	Orthophosphate	2021/02/09	1.81	mg/L
2020/03/20	Orthophosphate	2021/02/09	0.83	mg/L
2020/03/20	Orthophosphate	2021/02/17	1.36	mg/L
2020/03/20	Orthophosphate	2021/02/17	1.71	mg/L
2020/03/20	Orthophosphate	2021/02/24	1.55	mg/L
2020/03/20	Orthophosphate	2021/02/24	1.16	mg/L
2020/03/20	Orthophosphate	2021/03/02	2.46	mg/L
2020/03/20	Orthophosphate	2021/03/02	1.84	mg/L
2020/03/20	Orthophosphate	2021/03/09	0.78	mg/L
2020/03/20	Orthophosphate	2021/03/09	1.57	mg/L
2020/03/20	Orthophosphate	2021/03/16	0.52	mg/L
2020/03/20	Orthophosphate	2021/03/16	1.94	mg/L
2020/03/20	Orthophosphate	2021/03/23	2.21	mg/L
2020/03/20	Orthophosphate	2021/03/23	1.52	mg/L
2020/03/20	Orthophosphate	2021/03/30	0.85	mg/L
2020/03/20	Orthophosphate	2021/03/30	1.14	mg/L
2020/03/20	Orthophosphate	2021/04/07	1.89	mg/L
2020/03/20	Orthophosphate	2021/04/07	1.30	mg/L
2020/03/20	Orthophosphate	2021/04/13	0.61	mg/L
2020/03/20	Orthophosphate	2021/04/13	1.89	mg/L
2020/03/20	Orthophosphate	2021/04/20	1.65	mg/L
2020/03/20	Orthophosphate	2021/04/20	1.86	mg/L
2020/03/20	Orthophosphate	2021/04/27	1.90	mg/L
2020/03/20	Orthophosphate	2021/04/27	0.70	mg/L
2020/03/20	Orthophosphate	2021/05/04	2.35	mg/L
2020/03/20	Orthophosphate	2021/05/04	1.52	mg/L
2020/03/20	Orthophosphate	2021/05/10	1.98	mg/L
2020/03/20	Orthophosphate	2021/05/10	1.81	mg/L
2020/03/20	Orthophosphate	2021/05/18	1.73	mg/L
2020/03/20	Orthophosphate	2021/05/18	1.57	mg/L
2020/03/20	Orthophosphate	2021/05/26	1.13	mg/L
2020/03/20	Orthophosphate	2021/05/26	1.74	mg/L
2020/03/20	Orthophosphate	2021/06/03	1.83	mg/L
2020/03/20	Orthophosphate	2021/06/03	1.80	mg/L
2020/03/20	Orthophosphate	2021/06/08	1.55	mg/L
2020/03/20	Orthophosphate	2021/06/08	2.09	mg/L
2020/03/20	Orthophosphate	2021/06/15	1.67	mg/L
2020/03/20	Orthophosphate	2021/06/15	1.46	mg/L

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2020/03/20	Orthophosphate	2021/06/22	1.91	mg/L
2020/03/20	Orthophosphate	2021/06/22	1.10	mg/L
2020/03/20	Orthophosphate	2021/06/28	1.91	mg/L
2020/03/20	Orthophosphate	2021/06/28	1.65	mg/L
2020/03/20	Orthophosphate	2021/07/07	2.46	mg/L
2020/03/20	Orthophosphate	2021/07/07	1.80	mg/L
2020/03/20	Orthophosphate	2021/07/13	0.70	mg/L
2020/03/20	Orthophosphate	2021/07/13	1.38	mg/L
2020/03/20	Orthophosphate	2021/07/20	1.45	mg/L
2020/03/20	Orthophosphate	2021/07/20	1.53	mg/L
2020/03/20	Orthophosphate	2021/07/27	1.52	mg/L
2020/03/20	Orthophosphate	2021/07/27	1.26	mg/L
2020/03/20	Orthophosphate	2021/08/05	1.35	mg/L
2020/03/20	Orthophosphate	2021/08/05	1.56	mg/L
2020/03/20	Orthophosphate	2021/08/12	1.38	mg/L
2020/03/20	Orthophosphate	2021/08/12	1.21	mg/L
2020/03/20	Orthophosphate	2021/08/18	1.39	mg/L
2020/03/20	Orthophosphate	2021/08/18	1.20	mg/L
2020/03/20	Orthophosphate	2021/08/24	1.44	mg/L
2020/03/20	Orthophosphate	2021/08/24	1.44	mg/L
2020/03/20	Orthophosphate	2021/08/31	0.62	mg/L
2020/03/20	Orthophosphate	2021/08/31	1.35	mg/L
2020/03/20	Orthophosphate	2021/09/08	1.38	mg/L
2020/03/20	Orthophosphate	2021/09/08	1.43	mg/L
2020/03/20	Orthophosphate	2021/09/14	1.56	mg/L
2020/03/20	Orthophosphate	2021/09/14	1.49	mg/L
2020/03/20	Orthophosphate	2021/09/21	1.08	mg/L
2020/03/20	Orthophosphate	2021/09/21	1.34	mg/L
2020/03/20	Orthophosphate	2021/09/28	0.64	mg/L
2020/03/20	Orthophosphate	2021/09/28	0.79	mg/L
2020/03/20	Orthophosphate	2021/10/05	1.75	mg/L
2020/03/20	Orthophosphate	2021/10/05	0.89	mg/L
2020/03/20	Orthophosphate	2021/10/13	1.43	mg/L
2020/03/20	Orthophosphate	2021/10/13	1.02	mg/L
2020/03/20	Orthophosphate	2021/10/20	2.01	mg/L
2020/03/20	Orthophosphate	2021/10/20	1.70	mg/L
2020/03/20	Orthophosphate	2021/10/26	0.60	mg/L
2020/03/20	Orthophosphate	2021/10/26	1.53	mg/L
2020/03/20	Orthophosphate	2021/11/02	1.79	mg/L
2020/03/20	Orthophosphate	2021/11/02	1.44	mg/L
2020/03/20	Orthophosphate	2021/11/09	2.00	mg/L
2020/03/20	Orthophosphate	2021/11/09	1.78	mg/L
2020/03/20	Orthophosphate	2021/11/16	1.20	mg/L
2020/03/20	Orthophosphate	2021/11/16	1.08	mg/L
2020/03/20	Orthophosphate	2021/11/23	0.81	mg/L
2020/03/20	Orthophosphate	2021/11/23	1.57	mg/L
2020/03/20	Orthophosphate	2021/11/30	1.07	mg/L
2020/03/20	Orthophosphate	2021/11/30	1.45	mg/L
2020/03/20	Orthophosphate	2021/12/07	1.67	mg/L
2020/03/20	Orthophosphate	2021/12/07	1.61	mg/L
2020/03/20	Orthophosphate	2021/12/14	1.32	mg/L
2020/03/20	Orthophosphate	2021/12/14	1.29	mg/L

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2020/03/20	Orthophosphate	2021/12/21	1.15	mg/L
2020/03/20	Orthophosphate	2021/12/21	0.65	mg/L
2020/03/20	Orthophosphate	2021/12/30	1.51	mg/L
2020/03/20	Orthophosphate	2021/12/30	1.48	mg/L
2020/03/20	pH	2021/01/05	7.9	
2020/03/20	pH	2021/01/05	7.9	
2020/03/20	pH	2021/01/12	7.6	
2020/03/20	pH	2021/01/14	7.6	
2020/03/20	pH	2021/01/19	7.7	
2020/03/20	pH	2021/01/19	7.8	
2020/03/20	pH	2021/01/26	7.8	
2020/03/20	pH	2021/01/26	7.8	
2020/03/20	pH	2021/02/02	7.8	
2020/03/20	pH	2021/02/02	8.0	
2020/03/20	pH	2021/02/09	7.8	
2020/03/20	pH	2021/02/09	7.9	
2020/03/20	pH	2021/02/17	7.9	
2020/03/20	pH	2021/02/17	7.9	
2020/03/20	pH	2021/02/24	8.1	
2020/03/20	pH	2021/02/24	7.9	
2020/03/20	pH	2021/03/02	7.8	
2020/03/20	pH	2021/03/02	7.9	
2020/03/20	pH	2021/03/09	8.0	
2020/03/20	pH	2021/03/09	7.9	
2020/03/20	pH	2021/03/16	8.0	
2020/03/20	pH	2021/03/16	8.2	
2020/03/20	pH	2021/03/23	7.7	
2020/03/20	pH	2021/03/23	7.8	
2020/03/20	pH	2021/03/30	7.9	
2020/03/20	pH	2021/03/30	7.9	
2020/03/20	pH	2021/04/07	7.9	
2020/03/20	pH	2021/04/07	7.9	
2020/03/20	pH	2021/04/13	8.0	
2020/03/20	pH	2021/04/13	7.9	
2020/03/20	pH	2021/04/20	7.9	
2020/03/20	pH	2021/04/20	7.9	
2020/03/20	pH	2021/04/27	8.1	
2020/03/20	pH	2021/04/27	8.0	
2020/03/20	pH	2021/05/04	8.0	
2020/03/20	pH	2021/05/04	8.0	
2020/03/20	pH	2021/05/10	8.1	
2020/03/20	pH	2021/05/10	8.0	
2020/03/20	pH	2021/05/18	7.9	
2020/03/20	pH	2021/05/18	7.9	
2020/03/20	pH	2021/05/26	8.0	
2020/03/20	pH	2021/05/26	7.9	
2020/03/20	pH	2021/06/03	7.6	
2020/03/20	pH	2021/06/03	7.6	
2020/03/20	pH	2021/06/08	7.7	
2020/03/20	pH	2021/06/08	7.7	
2020/03/20	pH	2021/06/15	7.8	
2020/03/20	pH	2021/06/15	7.7	

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2020/03/20	pH	2021/06/22	7.6	
2020/03/20	pH	2021/06/22	7.8	
2020/03/20	pH	2021/06/28	7.9	
2020/03/20	pH	2021/06/28	7.8	
2020/03/20	pH	2021/07/07	7.5	
2020/03/20	pH	2021/07/07	7.5	
2020/03/20	pH	2021/07/13	7.6	
2020/03/20	pH	2021/07/13	7.7	
2020/03/20	pH	2021/07/20	7.8	
2020/03/20	pH	2021/07/20	7.7	
2020/03/20	pH	2021/07/27	7.8	
2020/03/20	pH	2021/07/27	7.9	
2020/03/20	pH	2021/08/05	7.9	
2020/03/20	pH	2021/08/05	7.9	
2020/03/20	pH	2021/08/12	7.9	
2020/03/20	pH	2021/08/12	7.9	
2020/03/20	pH	2021/08/18	7.7	
2020/03/20	pH	2021/08/18	7.9	
2020/03/20	pH	2021/08/24	8.0	
2020/03/20	pH	2021/08/24	7.9	
2020/03/20	pH	2021/08/31	7.9	
2020/03/20	pH	2021/08/31	7.7	
2020/03/20	pH	2021/09/08	7.5	
2020/03/20	pH	2021/09/08	7.4	
2020/03/20	pH	2021/09/14	7.6	
2020/03/20	pH	2021/09/14	7.5	
2020/03/20	pH	2021/09/21	8.1	
2020/03/20	pH	2021/09/21	8.1	
2020/03/20	pH	2021/09/28	7.8	
2020/03/20	pH	2021/09/28	7.6	
2020/03/20	pH	2021/10/05	7.9	
2020/03/20	pH	2021/10/05	8.1	
2020/03/20	pH	2021/10/13	7.4	
2020/03/20	pH	2021/10/13	7.5	
2020/03/20	pH	2021/10/20	8.1	
2020/03/20	pH	2021/10/20	8.1	
2020/03/20	pH	2021/10/26	7.8	
2020/03/20	pH	2021/10/26	7.7	
2020/03/20	pH	2021/11/02	7.8	
2020/03/20	pH	2021/11/02	7.9	
2020/03/20	pH	2021/11/09	8.1	
2020/03/20	pH	2021/11/09	8.1	
2020/03/20	pH	2021/11/16	8.2	
2020/03/20	pH	2021/11/16	8.2	
2020/03/20	pH	2021/11/23	7.8	
2020/03/20	pH	2021/11/23	7.9	
2020/03/20	pH	2021/11/30	7.8	
2020/03/20	pH	2021/11/30	8.1	
2020/03/20	pH	2021/12/07	7.7	
2020/03/20	pH	2021/12/07	7.8	
2020/03/20	pH	2021/12/14	7.9	
2020/03/20	pH	2021/12/14	7.8	

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2020/03/20	pH	2021/12/21	8.0	
2020/03/20	pH	2021/12/21	7.9	
2020/03/20	pH	2021/12/30	7.8	
2020/03/20	pH	2021/12/30	7.8	
2020/03/20	Total phosphorus	2021/01/05	0.700	mg/L
2020/03/20	Total phosphorus	2021/01/05	0.402	mg/L
2020/03/20	Total phosphorus	2021/01/12	0.058	mg/L
2020/03/20	Total phosphorus	2021/01/14	0.136	mg/L
2020/03/20	Total phosphorus	2021/01/19	0.770	mg/L
2020/03/20	Total phosphorus	2021/01/19	0.162	mg/L
2020/03/20	Total phosphorus	2021/01/26	0.443	mg/L
2020/03/20	Total phosphorus	2021/01/26	0.382	mg/L
2020/03/20	Total phosphorus	2021/02/02	0.018	mg/L
2020/03/20	Total phosphorus	2021/02/02	0.051	mg/L
2020/03/20	Total phosphorus	2021/02/09	0.677	mg/L
2020/03/20	Total phosphorus	2021/02/09	0.309	mg/L
2020/03/20	Total phosphorus	2021/02/17	0.572	mg/L
2020/03/20	Total phosphorus	2021/02/17	0.643	mg/L
2020/03/20	Total phosphorus	2021/02/24	0.486	mg/L
2020/03/20	Total phosphorus	2021/02/24	0.466	mg/L
2020/03/20	Total phosphorus	2021/03/02	0.944	mg/L
2020/03/20	Total phosphorus	2021/03/02	0.678	mg/L
2020/03/20	Total phosphorus	2021/03/09	0.517	mg/L
2020/03/20	Total phosphorus	2021/03/09	0.608	mg/L
2020/03/20	Total phosphorus	2021/03/16	0.754	mg/L
2020/03/20	Total phosphorus	2021/03/16	0.771	mg/L
2020/03/20	Total phosphorus	2021/03/23	0.837	mg/L
2020/03/20	Total phosphorus	2021/03/23	0.558	mg/L
2020/03/20	Total phosphorus	2021/03/30	0.330	mg/L
2020/03/20	Total phosphorus	2021/03/30	0.455	mg/L
2020/03/20	Total phosphorus	2021/04/07	0.760	mg/L
2020/03/20	Total phosphorus	2021/04/07	0.492	mg/L
2020/03/20	Total phosphorus	2021/04/13	0.218	mg/L
2020/03/20	Total phosphorus	2021/04/13	0.770	mg/L
2020/03/20	Total phosphorus	2021/04/20	0.670	mg/L
2020/03/20	Total phosphorus	2021/04/20	0.809	mg/L
2020/03/20	Total phosphorus	2021/04/27	0.740	mg/L
2020/03/20	Total phosphorus	2021/04/27	0.294	mg/L
2020/03/20	Total phosphorus	2021/05/04	0.740	mg/L
2020/03/20	Total phosphorus	2021/05/04	0.590	mg/L
2020/03/20	Total phosphorus	2021/05/10	0.610	mg/L
2020/03/20	Total phosphorus	2021/05/10	0.540	mg/L
2020/03/20	Total phosphorus	2021/05/18	0.592	mg/L
2020/03/20	Total phosphorus	2021/05/18	0.543	mg/L
2020/03/20	Total phosphorus	2021/05/26	0.367	mg/L
2020/03/20	Total phosphorus	2021/05/26	0.790	mg/L
2020/03/20	Total phosphorus	2021/06/03	0.700	mg/L
2020/03/20	Total phosphorus	2021/06/03	0.670	mg/L
2020/03/20	Total phosphorus	2021/06/08	0.127	mg/L
2020/03/20	Total phosphorus	2021/06/08	0.700	mg/L
2020/03/20	Total phosphorus	2021/06/15	0.710	mg/L
2020/03/20	Total phosphorus	2021/06/15	0.630	mg/L

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2020/03/20	Total phosphorus	2021/06/22	0.700	mg/L
2020/03/20	Total phosphorus	2021/06/22	0.409	mg/L
2020/03/20	Total phosphorus	2021/06/28	0.667	mg/L
2020/03/20	Total phosphorus	2021/06/28	0.520	mg/L
2020/03/20	Total phosphorus	2021/07/07	0.004	mg/L
2020/03/20	Total phosphorus	2021/07/07	0.002	mg/L
2020/03/20	Total phosphorus	2021/07/13	0.002	mg/L
2020/03/20	Total phosphorus	2021/07/13	0.002	mg/L
2020/03/20	Total phosphorus	2021/07/20	0.521	mg/L
2020/03/20	Total phosphorus	2021/07/20	0.553	mg/L
2020/03/20	Total phosphorus	2021/07/27	0.029	mg/L
2020/03/20	Total phosphorus	2021/07/27	0.002	mg/L
2020/03/20	Total phosphorus	2021/08/05	0.002	mg/L
2020/03/20	Total phosphorus	2021/08/05	0.014	mg/L
2020/03/20	Total phosphorus	2021/08/12	0.463	mg/L
2020/03/20	Total phosphorus	2021/08/12	0.417	mg/L
2020/03/20	Total phosphorus	2021/08/18	0.002	mg/L
2020/03/20	Total phosphorus	2021/08/18	0.002	mg/L
2020/03/20	Total phosphorus	2021/08/24	0.930	mg/L
2020/03/20	Total phosphorus	2021/08/24	0.363	mg/L
2020/03/20	Total phosphorus	2021/08/31	0.204	mg/L
2020/03/20	Total phosphorus	2021/08/31	0.440	mg/L
2020/03/20	Total phosphorus	2021/09/08	0.471	mg/L
2020/03/20	Total phosphorus	2021/09/08	0.391	mg/L
2020/03/20	Total phosphorus	2021/09/14	0.644	mg/L
2020/03/20	Total phosphorus	2021/09/14	0.483	mg/L
2020/03/20	Total phosphorus	2021/09/21	0.354	mg/L
2020/03/20	Total phosphorus	2021/09/21	0.467	mg/L
2020/03/20	Total phosphorus	2021/09/28	0.243	mg/L
2020/03/20	Total phosphorus	2021/09/28	0.311	mg/L
2020/03/20	Total phosphorus	2021/10/05	0.597	mg/L
2020/03/20	Total phosphorus	2021/10/05	0.272	mg/L
2020/03/20	Total phosphorus	2021/10/13	0.497	mg/L
2020/03/20	Total phosphorus	2021/10/13	0.405	mg/L
2020/03/20	Total phosphorus	2021/10/20	0.620	mg/L
2020/03/20	Total phosphorus	2021/10/20	0.609	mg/L
2020/03/20	Total phosphorus	2021/10/26	0.194	mg/L
2020/03/20	Total phosphorus	2021/10/26	0.534	mg/L
2020/03/20	Total phosphorus	2021/11/02	0.729	mg/L
2020/03/20	Total phosphorus	2021/11/02	0.585	mg/L
2020/03/20	Total phosphorus	2021/11/09	0.763	mg/L
2020/03/20	Total phosphorus	2021/11/09	0.588	mg/L
2020/03/20	Total phosphorus	2021/11/16	0.398	mg/L
2020/03/20	Total phosphorus	2021/11/16	0.362	mg/L
2020/03/20	Total phosphorus	2021/11/23	0.317	mg/L
2020/03/20	Total phosphorus	2021/11/23	0.500	mg/L
2020/03/20	Total phosphorus	2021/11/30	0.310	mg/L
2020/03/20	Total phosphorus	2021/11/30	0.499	mg/L
2020/03/20	Total phosphorus	2021/12/07	0.537	mg/L
2020/03/20	Total phosphorus	2021/12/07	0.520	mg/L
2020/03/20	Total phosphorus	2021/12/14	0.463	mg/L
2020/03/20	Total phosphorus	2021/12/14	0.470	mg/L

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2020/03/20	Total phosphorus	2021/12/21	0.508	mg/L
2020/03/20	Total phosphorus	2021/12/21	0.413	mg/L
2020/03/20	Total phosphorus	2021/12/30	0.523	mg/L
2020/03/20	Total phosphorus	2021/12/30	0.650	mg/L

FALCONBRIDGE WELL #5

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/01	0.0005	mg/L	No
Arsenic	2020/12/01	0.0022	mg/L	No
Barium	2020/12/01	0.0065	mg/L	No
Boron	2020/12/01	0.0045	mg/L	No
Cadmium	2020/12/01	0.0001	mg/L	No
Chromium	2020/12/01	0.0013	mg/L	No
Mercury	2020/12/01	0.0001	mg/L	No
Selenium	2020/12/01	0.00033	mg/L	No
Uranium	2020/12/01	0.001	mg/L	No
Nitrite	2021/03/01	0.05	mg/L	No
	2021/05/31	0.05	mg/L	No
	2021/09/07	0.05	mg/L	No
	2021/11/29	0.05	mg/L	No
Nitrate	2021/03/01	0.1	mg/L	No
	2021/05/31	0.12	mg/L	No
	2021/09/07	0.17	mg/L	No
	2021/11/29	0.19	mg/L	No
Sodium	2021/02/22	23.10	mg/L	Yes

FALCONBRIDGE WELL #6

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/01	0.0005	mg/L	No
Arsenic	2020/12/01	0.0019	mg/L	No
Barium	2020/12/01	0.0076	mg/L	No
Boron	2020/12/01	0.0042	mg/L	No
Cadmium	2020/12/01	0.0001	mg/L	No
Chromium	2020/12/01	0.0012	mg/L	No
Mercury	2020/12/01	0.0001	mg/L	No
Selenium	2020/12/01	0.00043	mg/L	No
Uranium	2020/12/01	0.001	mg/L	No
Nitrite	2021/03/01	0.05	mg/L	No
	2021/05/31	0.05	mg/L	No
	2021/09/07	0.05	mg/L	No
	2021/11/29	0.05	mg/L	No
Nitrate	2021/03/01	0.12	mg/L	No
	2021/05/31	0.12	mg/L	No
	2021/09/07	0.16	mg/L	No
	2021/11/29	0.18	mg/L	No
Sodium	2021/02/22	22.30	mg/L	Yes

FALCONBRIDGE WELL #7

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
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Antimony	2020/12/01	0.0005	mg/L	No
Arsenic	2020/12/01	0.0035	mg/L	No
Barium	2020/12/01	0.0062	mg/L	No
Boron	2020/12/01	0.0042	mg/L	No
Cadmium	2020/12/01	0.0001	mg/L	No
Chromium	2020/12/01	0.0014	mg/L	No
Mercury	2020/12/01	0.0001	mg/L	No
Selenium	2020/12/01	0.00033	mg/L	No
Uranium	2020/12/01	0.001	mg/L	No
Nitrite	2021/03/01	0.05	mg/L	No
	2021/05/31	0.05	mg/L	No
	2021/09/07	0.05	mg/L	No
	2021/11/29	0.05	mg/L	No
Nitrate	2021/03/01	0.073	mg/L	No
	2021/05/31	0.11	mg/L	No
	2021/09/07	0.11	mg/L	No
	2021/11/29	0.12	mg/L	No
Sodium	2021/02/22	25.60	mg/L	Yes

Summary of lead testing under Schedule 15.1 during this reporting period.

Location Type	Number of Samples	Range of Lead Results (min#) - (max#)	Number of Exceedances
Plumbing		mg/L	
Distribution		mg/L	

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	2021	0.0022	mg/L	No
HAA (NOTE: show latest annual average)	2021	0.008	mg/L	No

FALCONBRIDGE WELL #5

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/01	0.000244	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/01	0.0005	mg/L	No
Azinphos-methyl	2020/12/01	0.000183	mg/L	No
Benzene	2020/12/01	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/01	0.00001	mg/L	No
Bromoxynil	2020/12/01	0.0000939	mg/L	No
Carbaryl	2020/12/01	0.002	mg/L	No
Carbofuran	2020/12/01	0.003	mg/L	No
Carbon Tetrachloride	2020/12/01	0.0002	mg/L	No

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Chlorpyrifos	2020/12/01	0.000183	mg/L	No
Diazinon	2020/12/01	0.000183	mg/L	No
Dicamba	2020/12/01	0.000352	mg/L	No
1,2-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/01	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/01	0.0003	mg/L	No
Dichloromethane	2020/12/01	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/01	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/01	0.000352	mg/L	No
Diclofop-methyl	2020/12/01	0.000117	mg/L	No
Dimethoate	2020/12/01	0.000183	mg/L	No
Diquat	2020/12/01	0.0003	mg/L	No
Diuron	2020/12/01	0.009	mg/L	No
Glyphosate	2020/12/01	0.02	mg/L	No
Malathion	2020/12/01	0.000183	mg/L	No
Metolachlor	2020/12/01	0.000122	mg/L	No
Metribuzin	2020/12/01	0.000122	mg/L	No
Monochlorobenzene	2020/12/01	0.0005	mg/L	No
Paraquat	2020/12/01	0.0003	mg/L	No
Pentachlorophenol	2020/12/01	0.0003	mg/L	No
Phorate	2020/12/01	0.000122	mg/L	No
Picloram	2020/12/01	0.0000821	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/01	0.00007	mg/L	No
Prometryne	2020/12/01	0.0000609	mg/L	No
Simazine	2020/12/01	0.000183	mg/L	No
Terbufos	2020/12/01	0.000122	mg/L	No
Tetrachloroethylene	2020/12/01	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/01	0.0003	mg/L	No
Triallate	2020/12/01	0.000122	mg/L	No
Trichloroethylene	2020/12/01	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/01	0.0002	mg/L	No
Trifluralin	2020/12/01	0.000122	mg/L	No
Vinyl Chloride	2020/12/01	0.0001	mg/L	No
MCPA	2020/12/01	0.00587	mg/L	No

FALCONBRIDGE WELL #6

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/01	0.00023	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/01	0.0005	mg/L	No
Azinphos-methyl	2020/12/01	0.000173	mg/L	No
Benzene	2020/12/01	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/01	0.00001	mg/L	No
Bromoxynil	2020/12/01	0.0000908	mg/L	No
Carbaryl	2020/12/01	0.001	mg/L	No
Carbofuran	2020/12/01	0.002	mg/L	No
Carbon Tetrachloride	2020/12/01	0.0002	mg/L	No
Chlorpyrifos	2020/12/01	0.000173	mg/L	No
Diazinon	2020/12/01	0.000173	mg/L	No
Dicamba	2020/12/01	0.000227	mg/L	No
1,2-Dichlorobenzene	2020/12/01	0.0003	mg/L	No

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1,4-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/01	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/01	0.0003	mg/L	No
Dichloromethane	2020/12/01	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/01	0.0003	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/01	0.000341	mg/L	No
Diclofop-methyl	2020/12/01	0.000114	mg/L	No
Dimethoate	2020/12/01	0.000173	mg/L	No
Diquat	2020/12/01	0.0002	mg/L	No
Diuron	2020/12/01	0.007	mg/L	No
Glyphosate	2020/12/01	0.02	mg/L	No
Malathion	2020/12/01	0.000173	mg/L	No
Metolachlor	2020/12/01	0.000115	mg/L	No
Metribuzin	2020/12/01	0.000115	mg/L	No
Monochlorobenzene	2020/12/01	0.0005	mg/L	No
Paraquat	2020/12/01	0.0002	mg/L	No
Pentachlorophenol	2020/12/01	0.0003	mg/L	No
Phorate	2020/12/01	0.000115	mg/L	No
Picloram	2020/12/01	0.0000795	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/01	0.00006	mg/L	No
Prometryne	2020/12/01	0.0000575	mg/L	No
Simazine	2020/12/01	0.000173	mg/L	No
Terbufos	2020/12/01	0.000115	mg/L	No
Tetrachloroethylene	2020/12/01	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/01	0.0003	mg/L	No
Triallate	2020/12/01	0.000115	mg/L	No
Trichloroethylene	2020/12/01	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/01	0.0003	mg/L	No
Trifluralin	2020/12/01	0.000115	mg/L	No
Vinyl Chloride	2020/12/01	0.0001	mg/L	No
MCPA	2020/12/01	0.00568	mg/L	No

FALCONBRIDGE WELL #7

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/01	0.000228	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/01	0.0005	mg/L	No
Azinphos-methyl	2020/12/01	0.000171	mg/L	No
Benzene	2020/12/01	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/01	0.00001	mg/L	No
Bromoxynil	2020/12/01	0.0000925	mg/L	No
Carbaryl	2020/12/01	0.002	mg/L	No
Carbofuran	2020/12/01	0.003	mg/L	No
Carbon Tetrachloride	2020/12/01	0.0002	mg/L	No
Chlorpyrifos	2020/12/01	0.000171	mg/L	No
Diazinon	2020/12/01	0.000171	mg/L	No
Dicamba	2020/12/01	0.000081	mg/L	No
1,2-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/01	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/01	0.0003	mg/L	No

Drinking-Water Systems Regulation O. Reg. 170/03

Dichloromethane	2020/12/01	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/01	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/01	0.000347	mg/L	No
Diclofop-methyl	2020/12/01	0.000116	mg/L	No
Dimethoate	2020/12/01	0.000171	mg/L	No
Diquat	2020/12/01	0.0002	mg/L	No
Diuron	2020/12/01	0.009	mg/L	No
Glyphosate	2020/12/01	0.02	mg/L	No
Malathion	2020/12/01	0.000171	mg/L	No
Metolachlor	2020/12/01	0.000114	mg/L	No
Metribuzin	2020/12/01	0.000114	mg/L	No
Monochlorobenzene	2020/12/01	0.0005	mg/L	No
Paraquat	2020/12/01	0.0002	mg/L	No
Pentachlorophenol	2020/12/01	0.0003	mg/L	No
Phorate	2020/12/01	0.000114	mg/L	No
Picloram	2020/12/01	0.000081	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/01	0.00006	mg/L	No
Prometryne	2020/12/01	0.0000571	mg/L	No
Simazine	2020/12/01	0.000171	mg/L	No
Terbufos	2020/12/01	0.000114	mg/L	No
Tetrachloroethylene	2020/12/01	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/01	0.0003	mg/L	No
Triallate	2020/12/01	0.000114	mg/L	No
Trichloroethylene	2020/12/01	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/01	0.0002	mg/L	No
Trifluralin	2020/12/01	0.000114	mg/L	No
Vinyl Chloride	2020/12/01	0.0001	mg/L	No
MCPA	2020/12/01	0.00578	mg/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	UOM	Date of Sample	Location

(Only if DWS category is large municipal residential, small municipal residential, large municipal non-residential, non municipal year round residential, large non municipal non residential)



Section 3

Onaping/Levack Drinking Water System

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220003519
Drinking-Water System Name:	Onaping-Levack Well Supply
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2021-01-01 To 2021-12-31

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 ☒

Is your annual report available to the public at no charge on a web site on the Internet? Yes ☒ No ☐

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

www.greatersudbury.ca
TDS-Engineering Department

Complete for all other Categories.

Number of Designated Facilities served:

0

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes ☐ No ☒

Number of Interested Authorities you report to:

0

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?

Yes ☐ No ☒

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

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 ☐

Drinking-Water Systems Regulation O. Reg. 170/03

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

- ☒ 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/Citizen Service Centre
☐ Public access/notice via other method _____

Describe your Drinking-Water System

The Onaping/Levack system includes three drilled wells, Numbers 3, 4 and 5 with a common treatment building. Well pumps 3 and 4 are housed in a separate building while well pump 5 is situated in the treatment building. The treatment building provides chlorine gas injection for disinfection, fluoridation, chemical addition for corrosion control, Sodium Hydroxide for pH control and a stand-by power generator. Continuous analyzers for free chlorine residual, fluoride, turbidity and pH are monitored by an onsite PLC. The system is equipped with an elevated storage tank having re-chlorination capabilities, a Pressure Control /Booster building with stand-by power, a pressure sustaining valve, a distribution online continuous free chlorine analyzer and the distribution piping. The entire water system is in compliance with O. Reg. 170/03 and is monitored 24/7 from the Wanapitei WTP.

List all water treatment chemicals used over this reporting period

Chlorine Gas UN#1017, Hydrofluosilicic Acid UN#1778, Polyphosphate, Sodium Hydroxide UN#1824

Were any significant expenses incurred to?

- ☐ Install required equipment
☐ Repair required equipment
☐ Replace required equipment

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

Drinking-Water Systems Regulation O. Reg. 170/03

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

AWQI #	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
153501	2021/02/01	Chlorine Analyser Failure	NA		Replaced	2021/02/02
155999	2021/08/29	Chlorine Analyzer Failure	NA		Resample	2021/10/14

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: WICKWAS WELL #3					
	52	0 to 0	0 to 0		
Raw: WICKWAS WELL #4					
	43	0 to 0	0 to 0		
Raw: WICKWAS WELL #5					
	52	0 to 0	0 to 0		
Treated: WICKWAS TREATED PUMPHOUSE					
	52	0 to 0	0 to 0	52	0 to 10
Distribution					
	161	0 to 0	0 to 0	52	10 to 10

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 #)
Chlorine Residual Distribution System	8,760	0.41 - 3.67

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

WICKWAS TREATED PUMPHOUSE

Turbidity	8,760	0.02 - 10.00	NTU
Chlorine	8,760	0.82 - 4.41	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.00 - 0.99	mg/L

Drinking-Water Systems Regulation O. Reg. 170/03

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

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
2009/03/09	Sodium	2021/01/05	73.3	mg/L
2009/03/09	Sodium	2021/01/05	81.6	mg/L
2009/03/09	Sodium	2021/01/05	104	mg/L
2009/03/09	Sodium	2021/02/03	81.6	mg/L
2009/03/09	Sodium	2021/02/03	107	mg/L
2009/03/09	Sodium	2021/02/03	87.9	mg/L
2009/03/09	Sodium	2021/03/02	74	mg/L
2009/03/09	Sodium	2021/03/02	94.4	mg/L
2009/03/09	Sodium	2021/04/07	65.5	mg/L
2009/03/09	Sodium	2021/04/07	94.2	mg/L
2009/03/09	Sodium	2021/04/13	84.5	mg/L
2009/03/09	Sodium	2021/05/04	66.5	mg/L
2009/03/09	Sodium	2021/05/04	67.5	mg/L
2009/03/09	Sodium	2021/05/04	83.8	mg/L
2009/03/09	Sodium	2021/06/08	66.5	mg/L
2009/03/09	Sodium	2021/06/08	82.2	mg/L
2009/03/09	Sodium	2021/06/08	71.2	mg/L
2009/03/09	Sodium	2021/07/07	64	mg/L
2009/03/09	Sodium	2021/07/07	83.1	mg/L
2009/03/09	Sodium	2021/07/07	77	mg/L
2009/03/09	Sodium	2021/08/05	70.9	mg/L
2009/03/09	Sodium	2021/08/05	77.8	mg/L
2009/03/09	Sodium	2021/08/05	68.3	mg/L
2009/03/09	Sodium	2021/09/08	58.9	mg/L
2009/03/09	Sodium	2021/09/08	77	mg/L
2009/03/09	Sodium	2021/09/08	78.7	mg/L
2009/03/09	Sodium	2021/10/06	86.4	mg/L
2009/03/09	Sodium	2021/10/06	97.8	mg/L
2009/03/09	Sodium	2021/10/06	94.8	mg/L
2009/03/09	Sodium	2021/11/02	71.1	mg/L
2009/03/09	Sodium	2021/11/02	71.9	mg/L
2009/03/09	Sodium	2021/11/02	93.9	mg/L
2009/03/09	Sodium	2021/12/07	70.3	mg/L
2009/03/09	Sodium	2021/12/07	78.7	mg/L
2009/03/09	Sodium	2021/12/07	94.6	mg/L

WICKWAS TREATED PUMPHOUSE

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/04	0.0005	mg/L	No
Arsenic	2020/12/04	0.0013	mg/L	No
Barium	2020/12/04	0.0686	mg/L	No
Boron	2020/12/04	0.0098	mg/L	No
Cadmium	2020/12/04	0.0001	mg/L	No
Chromium	2020/12/04	0.001	mg/L	No
Mercury	2020/12/04	0.0001	mg/L	No
Selenium	2020/12/04	0.00065	mg/L	No
Uranium	2020/12/04	0.001	mg/L	No

Drinking-Water Systems Regulation O. Reg. 170/03

Nitrite	2021/03/02	0.05	mg/L	No
	2021/06/01	0.05	mg/L	No
	2021/09/08	0.05	mg/L	No
	2021/12/03	0.05	mg/L	No
Nitrate	2021/03/02	0.715	mg/L	No
	2021/06/01	0.674	mg/L	No
	2021/09/08	1.06	mg/L	No
	2021/12/03	0.832	mg/L	No
Sodium	2020/12/04	109.00	mg/L	Yes

Summary of lead testing under Schedule 15.1 during this reporting period.

Location Type	Number of Samples	Range of Lead Results (min#) - (max#)	Number of Exceedances
Plumbing		mg/L	
Distribution		mg/L	

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	2021	0.0045	mg/L	No
HAA (NOTE: show latest annual average)	2021	0.008	mg/L	No

WICKWAS TREATED PUMPHOUSE

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/04	0.000231	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/04	0.0005	mg/L	No
Azinphos-methyl	2020/12/04	0.000173	mg/L	No
Benzene	2020/12/04	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/04	0.00001	mg/L	No
Bromoxynil	2020/12/04	0.0000929	mg/L	No
Carbaryl	2020/12/04	0.002	mg/L	No
Carbofuran	2020/12/04	0.002	mg/L	No
Carbon Tetrachloride	2020/12/04	0.0002	mg/L	No
Chlorpyrifos	2020/12/04	0.000173	mg/L	No
Diazinon	2020/12/04	0.000173	mg/L	No
Dicamba	2020/12/04	0.0000813	mg/L	No
1,2-Dichlorobenzene	2020/12/04	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/04	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/04	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/04	0.0003	mg/L	No
Dichloromethane	2020/12/04	0.001	mg/L	No

Drinking-Water Systems Regulation O. Reg. 170/03

2-4 Dichlorophenol	2020/12/04	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/04	0.000349	mg/L	No
Diclofop-methyl	2020/12/04	0.000116	mg/L	No
Dimethoate	2020/12/04	0.000173	mg/L	No
Diquat	2020/12/04	0.0003	mg/L	No
Diuron	2020/12/04	0.008	mg/L	No
Glyphosate	2020/12/04	0.02	mg/L	No
Malathion	2020/12/04	0.000173	mg/L	No
Metolachlor	2020/12/04	0.000116	mg/L	No
Metribuzin	2020/12/04	0.000116	mg/L	No
Monochlorobenzene	2020/12/04	0.0005	mg/L	No
Paraquat	2020/12/04	0.0003	mg/L	No
Pentachlorophenol	2020/12/04	0.0003	mg/L	No
Phorate	2020/12/04	0.000116	mg/L	No
Picloram	2020/12/04	0.0000813	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/04	0.00006	mg/L	No
Prometryne	2020/12/04	0.0000578	mg/L	No
Simazine	2020/12/04	0.000173	mg/L	No
Terbufos	2020/12/04	0.000116	mg/L	No
Tetrachloroethylene	2020/12/04	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/04	0.0003	mg/L	No
Triallate	2020/12/04	0.000116	mg/L	No
Trichloroethylene	2020/12/04	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/04	0.0002	mg/L	No
Trifluralin	2020/12/04	0.000116	mg/L	No
Vinyl Chloride	2020/12/04	0.0001	mg/L	No
MCPA	2020/12/04	0.00581	mg/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	UOM	Date of Sample	Location

(Only if DWS category is large municipal residential, small municipal residential, large municipal non-residential, non municipal year round residential, large non municipal non residential)



Section 4

Sudbury Drinking Water System - Garson

Drinking-Water Systems Regulation O. Reg. 170/03

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220003485
Drinking-Water System Name:	Sudbury Drinking Water System -Garson
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2021-01-01 To 2021-12-31

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 ☒

Is your annual report available to the public at no charge on a web site on the Internet? Yes ☒ No ☐

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

www.greatersudbury.ca
TDS-Engineering Department

Complete for all other Categories.

Number of Designated Facilities served:

0

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes ☐ No ☒

Number of Interested Authorities you report to:

0

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?

Yes ☐ No ☒

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

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 ☐

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

- ☒ 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/Citizen Service Centre
- ☐ Public access/notice via other method _____

Describe your Drinking-Water System

The Garson system includes three wells, Garson Well #2 located near the intersection of Spruce St. and Falconbridge Hwy., plus Garson Wells #1 & 3 located on Falconbridge Hwy. The system's wells take water from an unconfined aquifer in a sand and gravel formation at Garson Well #2, and a sand, gravel, boulder formation at Garson #1 & 3. All the well groundwater is disinfected by chlorination and fluoridated at the well sites before it enters the distribution system. A common chemical room and a chlorine contact chamber is installed at the Garson #1 & 3 site. Garson Well #2 includes an oversized pipe on discharge that provides chlorine contact time. Continuous analyzers for free chlorine residual, fluoride and turbidity are monitored by an onsite PLC. A standby power generator with an automatic transfer switch is located at the Garson #1 & 3 site. The Garson Distribution System encompasses all municipal distribution in the north east part of Garson, east of the intersection of O'Neil Drive W. and Falconbridge Road and North to include the Old Skead Rd. area of Garson. The distribution system includes an online continuous chlorine analyzer. In the case of a complete system failure, a pressure sustaining valve, at the corner of O'Neil Drive W. and Falconbridge Hwy, ensures a water supply to Garson by connecting the Garson and Sudbury/Wanapitei Systems. The entire water system is in compliance with O. Reg. 170/03 and is monitored 24/7 from the Wanapitei WTP.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite UN#1791, Hydrofluosilicic Acid UN#1778

Were any significant expenses incurred to?

- ☐ Install required equipment
- ☒ Repair required equipment
- ☐ Replace required equipment

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

1) Well #2 Roof Replacement - \$38,000

Drinking-Water Systems Regulation O. Reg. 170/03

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

AWQI #	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
154520	2021/07/05	Sodium	55.4	mg/L	Resample	2021/07/07

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: GARSON WELL #1					
	52	0 to 0	0 to 0		
Raw: GARSON WELL #2					
	52	0 to 0	0 to 0		
Raw: GARSON WELL #3					
	52	0 to 0	0 to 0		
Treated: GARSON #1 & #3 WELL TREATED					
	52	0 to 0	0 to 0	52	10 to 20
Treated: GARSON #2 WELL TREATED					
	52	0 to 0	0 to 0	52	10 to 210
Distribution					
	210	0 to 0	0 to 0	55	10 to 20

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 #)
Chlorine Residual Distribution System	8,760	0.07 - 2.97

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

GARSON #1 & #3 WELL TREATED

Turbidity	8,760	0.00 - 2.00	NTU
Chlorine	8,760	0.45 - 2.41	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 0.76	mg/L

GARSON #2 WELL TREATED

Turbidity	8,760	0.03 - 2.00	NTU
Chlorine	8,760	0.49 - 3.47	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 0.93	mg/L

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

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure

GARSON #1 & #3 WELL TREATED

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/03	0.0005	mg/L	No
Arsenic	2020/12/03	0.0027	mg/L	No
Barium	2020/12/03	0.0367	mg/L	No
Boron	2020/12/03	0.0059	mg/L	No
Cadmium	2020/12/03	0.0001	mg/L	No
Chromium	2020/12/03	0.001	mg/L	No
Mercury	2020/12/03	0.0001	mg/L	No
Selenium	2020/12/03	0.00027	mg/L	No
Uranium	2020/12/03	0.0013	mg/L	No
Nitrite	2021/03/01	0.05	mg/L	No
	2021/05/31	0.05	mg/L	No
	2021/09/07	0.05	mg/L	No
	2021/11/29	0.05	mg/L	No

Drinking-Water Systems Regulation O. Reg. 170/03

Nitrate	2021/03/01	0.5	mg/L	No
	2021/05/31	0.523	mg/L	No
	2021/09/07	0.664	mg/L	No
	2021/11/29	0.629	mg/L	No
Sodium	2020/12/03	18.50	mg/L	No

GARSON #2 WELL TREATED

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2021/06/29	0.0005	mg/L	No
Arsenic	2021/06/29	0.0024	mg/L	No
Barium	2021/06/29	0.0417	mg/L	No
Boron	2021/06/29	0.011	mg/L	No
Cadmium	2021/06/29	0.0001	mg/L	No
Chromium	2021/06/29	0.0014	mg/L	No
Mercury	2021/06/29	0.0001	mg/L	No
Selenium	2021/06/29	0.0008	mg/L	No
Uranium	2021/06/29	0.0011	mg/L	No
Nitrite	2021/03/01	0.05	mg/L	No
	2021/05/31	0.05	mg/L	No
	2021/09/07	0.05	mg/L	No
	2021/11/29	0.05	mg/L	No
Nitrate	2021/03/01	0.76	mg/L	No
	2021/05/31	0.723	mg/L	No
	2021/09/07	0.827	mg/L	No
	2021/11/29	0.891	mg/L	No
Sodium	2021/06/15	67.50	mg/L	Yes
	2021/06/29	70.80	mg/L	Yes

Summary of lead testing under Schedule 15.1 during this reporting period.

Location Type	Number of Samples	Range of Lead Results (min#) - (max#)	Number of Exceedances
Plumbing		mg/L	
Distribution		mg/L	

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	2021	0.0030	mg/L	No
HAA (NOTE: show latest annual average)	2021	0.008	mg/L	No

Drinking-Water Systems Regulation O. Reg. 170/03

GARSON #2 WELL TREATED

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/03	0.000236	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/03	0.0005	mg/L	No
Azinphos-methyl	2020/12/03	0.000177	mg/L	No
Benzene	2020/12/03	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/03	0.00001	mg/L	No
Bromoxynil	2020/12/03	0.000094	mg/L	No
Carbaryl	2020/12/03	0.002	mg/L	No
Carbofuran	2020/12/03	0.003	mg/L	No
Carbon Tetrachloride	2020/12/03	0.0002	mg/L	No
Chlorpyrifos	2020/12/03	0.000177	mg/L	No
Diazinon	2020/12/03	0.000177	mg/L	No
Dicamba	2020/12/03	0.0000822	mg/L	No
1,2-Dichlorobenzene	2020/12/03	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/03	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/03	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/03	0.0003	mg/L	No
Dichloromethane	2020/12/03	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/03	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/03	0.000352	mg/L	No
Diclofop-methyl	2020/12/03	0.000117	mg/L	No
Dimethoate	2020/12/03	0.000177	mg/L	No
Diquat	2020/12/03	0.0002	mg/L	No
Diuron	2020/12/03	0.01	mg/L	No
Glyphosate	2020/12/03	0.02	mg/L	No
Malathion	2020/12/03	0.000177	mg/L	No
Metolachlor	2020/12/03	0.000118	mg/L	No
Metribuzin	2020/12/03	0.000118	mg/L	No
Monochlorobenzene	2020/12/03	0.0005	mg/L	No
Paraquat	2020/12/03	0.0002	mg/L	No
Pentachlorophenol	2020/12/03	0.0003	mg/L	No
Phorate	2020/12/03	0.000118	mg/L	No
Picloram	2020/12/03	0.000176	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/03	0.00006	mg/L	No
Prometryne	2020/12/03	0.0000591	mg/L	No
Simazine	2020/12/03	0.000177	mg/L	No
Terbufos	2020/12/03	0.000118	mg/L	No
Tetrachloroethylene	2020/12/03	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/03	0.0003	mg/L	No
Triallate	2020/12/03	0.000118	mg/L	No
Trichloroethylene	2020/12/03	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/03	0.0002	mg/L	No
Trifluralin	2020/12/03	0.000118	mg/L	No
Vinyl Chloride	2020/12/03	0.0001	mg/L	No
MCPA	2020/12/03	0.00587	mg/L	No

GARSON #1 & #3 WELL TREATED

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/03	0.000251	mg/L	No

Drinking-Water Systems Regulation O. Reg. 170/03

Atrazine + N-dealkylated metabolites	2020/12/03	0.0005	mg/L	No
Azinphos-methyl	2020/12/03	0.000188	mg/L	No
Benzene	2020/12/03	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/03	0.00001	mg/L	No
Bromoxynil	2020/12/03	0.0000966	mg/L	No
Carbaryl	2020/12/03	0.001	mg/L	No
Carbofuran	2020/12/03	0.002	mg/L	No
Carbon Tetrachloride	2020/12/03	0.0002	mg/L	No
Chlorpyrifos	2020/12/03	0.000188	mg/L	No
Diazinon	2020/12/03	0.000188	mg/L	No
Dicamba	2020/12/03	0.0000845	mg/L	No
1,2-Dichlorobenzene	2020/12/03	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/03	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/03	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/03	0.0003	mg/L	No
Dichloromethane	2020/12/03	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/03	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/03	0.000362	mg/L	No
Diclofop-methyl	2020/12/03	0.000121	mg/L	No
Dimethoate	2020/12/03	0.000188	mg/L	No
Diquat	2020/12/03	0.0002	mg/L	No
Diuron	2020/12/03	0.006	mg/L	No
Glyphosate	2020/12/03	0.02	mg/L	No
Malathion	2020/12/03	0.000188	mg/L	No
Metolachlor	2020/12/03	0.000125	mg/L	No
Metribuzin	2020/12/03	0.000125	mg/L	No
Monochlorobenzene	2020/12/03	0.0005	mg/L	No
Paraquat	2020/12/03	0.0002	mg/L	No
Pentachlorophenol	2020/12/03	0.0003	mg/L	No
Phorate	2020/12/03	0.000125	mg/L	No
Picloram	2020/12/03	0.0000845	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/03	0.00006	mg/L	No
Prometryne	2020/12/03	0.0000627	mg/L	No
Simazine	2020/12/03	0.000188	mg/L	No
Terbufos	2020/12/03	0.000125	mg/L	No
Tetrachloroethylene	2020/12/03	0.0027	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/03	0.0003	mg/L	No
Triallate	2020/12/03	0.000125	mg/L	No
Trichloroethylene	2020/12/03	0.0007	mg/L	No
2,4,6-Trichlorophenol	2020/12/03	0.0002	mg/L	No
Trifluralin	2020/12/03	0.000125	mg/L	No
Vinyl Chloride	2020/12/03	0.0001	mg/L	No
MCPA	2020/12/03	0.00604	mg/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	UOM	Date of Sample	Location

(Only if DWS category is large municipal residential, small municipal residential, large municipal non-residential, non municipal year round residential, large non municipal non residential)



Section 5

Sudbury Drinking Water System – David WTP

Drinking-Water Systems Regulation O. Reg. 170/03

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220003537
Drinking-Water System Name:	Sudbury Drinking Water System - David St.
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2021-01-01 To 2021-12-31

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 ☐

Is your annual report available to the public at no charge on a web site on the Internet? Yes ☒ No ☐

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

www.greatersudbury.ca
TDS-Engineering Department

Complete for all other Categories.

Number of Designated Facilities served:

0

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes ☐ No ☒

Number of Interested Authorities you report to:

0

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?

Yes ☐ No ☒

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
Sudbury Drinking Water System - Wanapitei	210001111

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 ☒

Drinking-Water Systems Regulation O. Reg. 170/03

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

- ☒ 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/Citizen Service Centre
- ☐ Public access/notice via other method _____

Describe your Drinking-Water System

The David St. Water Treatment Plant is a surface water plant which draws water from Ramsey Lake. Proportionally, the plant services approximately 40% of Sudbury, however, most of the water produced at the David St. WTP is normally delivered to the south, west and downtown areas of Sudbury as well as supplying water to the Ellis reservoir. Treatment incorporated is in the form of membrane ultrafiltration, disinfection by chlorination, Ultra-Violet irradiation, fluoridation, pH adjustment and corrosion control with a polyphosphate. The distribution system includes an online continuous chlorine analyzer & related appurtenances. The plant is in full treatment compliance with O. Reg. 170/03 and is monitored 24/7 from the Wanapitei WTP.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite UN#1791, Hydrofluosilicic Acid UN#1778, Polyphosphate, Sodium Hydroxide UN#1824, Sodium Bisulfate UN#2693, Citric Acid UN#3625, Sodium Permanganate UN#3214

Were any significant expenses incurred to?

- ☐ Install required equipment
- ☒ Repair required equipment
- ☒ Replace required equipment

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

- 1) Contract to Replace Membranes - \$1,319,000
- 2) UV Units - \$61,000
- 3) Plant Upgrades - \$59,000

Drinking-Water Systems Regulation O. Reg. 170/03

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

AWQI #	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
157455	2021/12/21	HFS	1.67	mg/L	Flushed Pipes	2021/12/21

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: RAMSEY LAKE					
	52	0 to 0	0 to 34		
Treated: SUDBURY (DAVID ST) Water Treatment Plant					
	52	0 to 0	0 to 0	52	10 to 20
Distribution					
	1,387	0 to 0	0 to 0	330	10 to 10

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 #)
Chlorine Residual Distribution System	8,760	0.13 - 2.06

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

SUDBURY (DAVID ST) Water Treatment Plant

Turbidity	8,760	0.01 - 5.00	NTU
Chlorine	8,760	0.24 - 3.78	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.05 - 1.67	mg/L

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

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
2020/03/25	Microcystins	2021/06/01	0.00015	mg/L
2020/03/25	Microcystins	2021/06/01	0.00015	mg/L
2020/03/25	Microcystins	2021/06/07	0.00015	mg/L
2020/03/25	Microcystins	2021/06/07	0.00015	mg/L
2020/03/25	Microcystins	2021/06/14	0.00015	mg/L
2020/03/25	Microcystins	2021/06/14	0.00015	mg/L
2020/03/25	Microcystins	2021/06/21	0.00015	mg/L
2020/03/25	Microcystins	2021/06/21	0.00015	mg/L
2020/03/25	Microcystins	2021/06/28	0.00015	mg/L
2020/03/25	Microcystins	2021/06/28	0.00015	mg/L
2020/03/25	Microcystins	2021/07/06	0.00015	mg/L
2020/03/25	Microcystins	2021/07/06	0.00015	mg/L
2020/03/25	Microcystins	2021/07/12	0.00015	mg/L
2020/03/25	Microcystins	2021/07/12	0.00015	mg/L
2020/03/25	Microcystins	2021/07/19	0.00015	mg/L
2020/03/25	Microcystins	2021/07/19	0.00015	mg/L
2020/03/25	Microcystins	2021/07/26	0.00015	mg/L
2020/03/25	Microcystins	2021/07/26	0.00015	mg/L
2020/03/25	Microcystins	2021/08/03	0.00015	mg/L
2020/03/25	Microcystins	2021/08/03	0.00015	mg/L
2020/03/25	Microcystins	2021/08/09	0.00015	mg/L
2020/03/25	Microcystins	2021/08/09	0.00015	mg/L
2020/03/25	Microcystins	2021/08/16	0.00015	mg/L
2020/03/25	Microcystins	2021/08/16	0.00015	mg/L
2020/03/25	Microcystins	2021/08/23	0.00015	mg/L
2020/03/25	Microcystins	2021/08/23	0.00015	mg/L
2020/03/25	Microcystins	2021/08/30	0.00019	mg/L
2020/03/25	Microcystins	2021/08/30	0.00017	mg/L
2020/03/25	Microcystins	2021/09/07	0.00015	mg/L
2020/03/25	Microcystins	2021/09/07	0.00015	mg/L
2020/03/25	Microcystins	2021/09/13	0.00015	mg/L
2020/03/25	Microcystins	2021/09/13	0.00015	mg/L
2020/03/25	Microcystins	2021/09/20	0.00015	mg/L
2020/03/25	Microcystins	2021/09/20	0.00015	mg/L
2020/03/25	Microcystins	2021/09/27	0.00015	mg/L
2020/03/25	Microcystins	2021/09/27	0.00015	mg/L
2020/03/25	Microcystins	2021/10/04	0.00015	mg/L
2020/03/25	Microcystins	2021/10/04	0.00015	mg/L
2020/03/25	Microcystins	2021/10/12	0.00015	mg/L
2020/03/25	Microcystins	2021/10/12	0.00015	mg/L
2020/03/25	Microcystins	2021/10/18	0.00015	mg/L
2020/03/25	Microcystins	2021/10/18	0.00015	mg/L
2020/03/25	Microcystins	2021/10/25	0.00015	mg/L
2020/03/25	Microcystins	2021/10/25	0.00015	mg/L

SUDBURY (DAVID ST) Water Treatment Plant

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
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Drinking-Water Systems Regulation O. Reg. 170/03

Antimony	2021/11/30	0.0005	mg/L	No
Arsenic	2021/11/30	0.0017	mg/L	No
Barium	2021/11/30	0.0119	mg/L	No
Boron	2021/11/30	0.0069	mg/L	No
Cadmium	2021/11/30	0.0001	mg/L	No
Chromium	2021/11/30	0.001	mg/L	No
Mercury	2021/11/30	0.0001	mg/L	No
Selenium	2021/11/30	0.00054	mg/L	No
Uranium	2021/11/30	0.001	mg/L	No
Nitrite	2021/03/02	0.05	mg/L	No
	2021/05/31	0.05	mg/L	No
	2021/09/07	0.05	mg/L	No
	2021/11/30	0.05	mg/L	No
Nitrate	2021/03/02	0.05	mg/L	No
	2021/05/31	0.05	mg/L	No
	2021/09/07	0.058	mg/L	No
	2021/11/30	0.05	mg/L	No
Sodium	2020/01/13	52.20	mg/L	Yes
	2020/02/03	55.00	mg/L	Yes
	2020/02/10	57.80	mg/L	Yes
	2020/11/30	54.10	mg/L	Yes

Summary of lead testing under Schedule 15.1 during this reporting period.

Location Type	Number of Samples	Range of Lead Results (min#) - (max#)	Number of Exceedances
Plumbing		mg/L	
Distribution	9	0.0001 - 0.0004 mg/L	0

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	2021	0.0696	mg/L	No
HAA (NOTE: show latest annual average)	2021	0.0606	mg/L	No

SUDBURY (DAVID ST) Water Treatment Plant

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2021/11/30	0.000239	mg/L	No
Atrazine + N-dealkylated metabolites	2021/11/30	0.0005	mg/L	No
Azinphos-methyl	2021/11/30	0.000179	mg/L	No
Benzene	2021/11/30	0.0001	mg/L	No
Benzo(a)pyrene	2021/11/30	0.00001	mg/L	No

Drinking-Water Systems Regulation O. Reg. 170/03

Bromoxynil	2021/11/30	0.000103	mg/L	No
Carbaryl	2021/11/30	0.004	mg/L	No
Carbofuran	2021/11/30	0.006	mg/L	No
Carbon Tetrachloride	2021/11/30	0.0002	mg/L	No
Chlorpyrifos	2021/11/30	0.000179	mg/L	No
Diazinon	2021/11/30	0.000179	mg/L	No
Dicamba	2021/11/30	0.0000898	mg/L	No
1,2-Dichlorobenzene	2021/11/30	0.0003	mg/L	No
1,4-Dichlorobenzene	2021/11/30	0.0003	mg/L	No
1,2-Dichloroethane	2021/11/30	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2021/11/30	0.0003	mg/L	No
Dichloromethane	2021/11/30	0.001	mg/L	No
2-4 Dichlorophenol	2021/11/30	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2021/11/30	0.000385	mg/L	No
Diclofop-methyl	2021/11/30	0.000128	mg/L	No
Dimethoate	2021/11/30	0.000179	mg/L	No
Diquat	2021/11/30	0.0002	mg/L	No
Diuron	2021/11/30	0.01	mg/L	No
Glyphosate	2021/11/30	0.02	mg/L	No
Malathion	2021/11/30	0.000179	mg/L	No
Metolachlor	2021/11/30	0.00012	mg/L	No
Metribuzin	2021/11/30	0.00012	mg/L	No
Monochlorobenzene	2021/11/30	0.0005	mg/L	No
Paraquat	2021/11/30	0.0002	mg/L	No
Pentachlorophenol	2021/11/30	0.0003	mg/L	No
Phorate	2021/11/30	0.00012	mg/L	No
Picloram	2021/11/30	0.0000898	mg/L	No
Polychlorinated Biphenyls(PCB)	2021/11/30	0.00006	mg/L	No
Prometryne	2021/11/30	0.0000598	mg/L	No
Simazine	2021/11/30	0.000179	mg/L	No
Terbufos	2021/11/30	0.00012	mg/L	No
Tetrachloroethylene	2021/11/30	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2021/11/30	0.0003	mg/L	No
Triallate	2021/11/30	0.00012	mg/L	No
Trichloroethylene	2021/11/30	0.0002	mg/L	No
2,4,6-Trichlorophenol	2021/11/30	0.0002	mg/L	No
Trifluralin	2021/11/30	0.00012	mg/L	No
Vinyl Chloride	2021/11/30	0.0001	mg/L	No
MCPA	2021/11/30	0.00641	mg/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	UOM	Date of Sample	Location

(Only if DWS category is large municipal residential, small municipal residential, large municipal non-residential, non municipal year round residential, large non municipal non residential)



Section 6

Sudbury Drinking Water System – Wanapitei WTP

Drinking-Water Systems Regulation O. Reg. 170/03

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	210001111
Drinking-Water System Name:	Sudbury Drinking Water System - Wanapitei
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2021-01-01 To 2021-12-31

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 ☐

Is your annual report available to the public at no charge on a web site on the Internet? Yes ☒ No ☐

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

www.greatersudbury.ca
TDS-Engineering Department

Complete for all other Categories.

Number of Designated Facilities served:

0

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes ☐ No ☒

Number of Interested Authorities you report to:

0

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?

Yes ☐ No ☒

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
Markstay-Warren	220013606
Sudbury Drinking Water System - Garson	220003485
Sudbury Drinking Water System - David St.	220003537

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 ☐

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

- ☒ 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/Citizen Service Centre
- ☐ Public access/notice via other method _____

Describe your Drinking-Water System

The Wanapitei Water Treatment Plant is a surface water plant which draws water from the Wanapitei River. Proportionally, the plant services approximately 60% of Sudbury, with the water being produced supplying the northeastern and northwestern areas of the City but includes Markstay, Coniston and parts of Garson (west of Falconbridge Road at O'Neil Drive) as well as supplying water to the Ellis Reservoir. The raw water is pumped from the Wanapitei River via the Wanapitei intake, a concrete intake structure that protrudes into the Wanapitei River. The raw intake pumphouse is situated north of Hwy. 17, in the community of Wahnapiatae. The raw water passes through a coarse aluminum bar screen then through two finer stainless steel screens inside the station before being pumped to the treatment plant to the west. The Wanapitei WTP utilizes a conventional water treatment process complete with Coagulation / Flocculation, Sedimentation and Filtration by dual media filters. Chlorine and/or Chlorine Dioxide are used for disinfection purposes and Ultra-Violet irradiation was added to the end of the process in 2010. Corrosion control, pH adjustment plus the addition of fluoride complete the process. The distribution system includes an online continuous chlorine analyzer & various other appurtenances. The plant is in full treatment compliance with O. Reg. 170/03.

List all water treatment chemicals used over this reporting period

Chlorine Gas UN#1017, Hydrofluosilicic Acid UN#1778, Polyphosphate, Sodium Chlorite UN#1908, Aluminum Sulfate UN#3264, Hydrated Lime, Polyelectrolyte, Chlorine Dioxide (generated onsite)

Were any significant expenses incurred to?

- ☒ Install required equipment
- ☒ Repair required equipment
- ☒ Replace required equipment

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

- 1) Montrose Booster Station Demo & Electrical - \$556,000
- 2) Reactivator Repairs - \$102,000
- 3) Jogue Booster VFD Upgrades - \$12,000

Drinking-Water Systems Regulation O. Reg. 170/03

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

AWQI #	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
153505	2021/02/03	750 mm Water Main Break	NA		Increased Disinfection / Flushed Pipes	2021/02/05
153633	2021/03/06	Total Coliform	1	CFU/100 ml	Resample	2021/03/08

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: WANAPITEI RIVER					
	52	0 to 12	0 to 6000		
Treated: HL PUMP STATION, Sudbury (Wanapitei) WTP					
	52	0 to 0	0 to 0	52	0 to 10
Distribution					
	1,387	0 to 0	0 to 1	330	10 to 20

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 #)
Chlorine Residual Distribution System	8,760	0.13 - 2.06

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

HL PUMP STATION, Sudbury (Wanapitei) WTP

Turbidity	8,760	0.02 - 1.42	NTU
Chlorine	8,760	0.56 - 4.11	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.00 - 1.44	mg/L

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

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
2020/03/25	Chlorate	2021/06/22	0.14	mg/L
2020/03/25	Chlorate	2021/09/07	0.15	mg/L
2020/03/25	Chlorate	2021/10/12	0.01	mg/L
2020/03/25	Chlorite	2021/06/22	0.26	mg/L
2020/03/25	Chlorite	2021/09/07	0.36	mg/L
2020/03/25	Chlorite	2021/10/12	0.01	mg/L
2020/03/25	Microcystins	2021/06/01	0.00015	mg/L
2020/03/25	Microcystins	2021/06/01	0.00015	mg/L
2020/03/25	Microcystins	2021/06/09	0.00015	mg/L
2020/03/25	Microcystins	2021/06/09	0.00015	mg/L
2020/03/25	Microcystins	2021/06/15	0.00015	mg/L
2020/03/25	Microcystins	2021/06/15	0.00015	mg/L
2020/03/25	Microcystins	2021/06/23	0.00015	mg/L
2020/03/25	Microcystins	2021/06/23	0.00015	mg/L
2020/03/25	Microcystins	2021/06/29	0.00015	mg/L
2020/03/25	Microcystins	2021/06/29	0.00015	mg/L
2020/03/25	Microcystins	2021/07/06	0.00015	mg/L
2020/03/25	Microcystins	2021/07/06	0.00015	mg/L
2020/03/25	Microcystins	2021/07/13	0.00015	mg/L
2020/03/25	Microcystins	2021/07/13	0.00015	mg/L
2020/03/25	Microcystins	2021/07/20	0.00015	mg/L
2020/03/25	Microcystins	2021/07/20	0.00015	mg/L
2020/03/25	Microcystins	2021/07/27	0.00015	mg/L
2020/03/25	Microcystins	2021/07/27	0.00015	mg/L
2020/03/25	Microcystins	2021/08/03	0.00015	mg/L
2020/03/25	Microcystins	2021/08/03	0.00015	mg/L
2020/03/25	Microcystins	2021/08/10	0.00015	mg/L
2020/03/25	Microcystins	2021/08/10	0.00015	mg/L
2020/03/25	Microcystins	2021/08/17	0.00015	mg/L
2020/03/25	Microcystins	2021/08/17	0.00015	mg/L
2020/03/25	Microcystins	2021/08/24	0.00015	mg/L
2020/03/25	Microcystins	2021/08/24	0.00015	mg/L
2020/03/25	Microcystins	2021/08/31	0.00022	mg/L
2020/03/25	Microcystins	2021/08/31	0.00018	mg/L
2020/03/25	Microcystins	2021/09/07	0.00015	mg/L
2020/03/25	Microcystins	2021/09/07	0.00015	mg/L
2020/03/25	Microcystins	2021/09/14	0.00015	mg/L
2020/03/25	Microcystins	2021/09/14	0.00015	mg/L
2020/03/25	Microcystins	2021/09/22	0.00015	mg/L
2020/03/25	Microcystins	2021/09/22	0.00015	mg/L
2020/03/25	Microcystins	2021/09/28	0.00015	mg/L
2020/03/25	Microcystins	2021/09/28	0.00015	mg/L
2020/03/25	Microcystins	2021/10/05	0.00015	mg/L
2020/03/25	Microcystins	2021/10/05	0.00015	mg/L
2020/03/25	Microcystins	2021/10/12	0.00015	mg/L
2020/03/25	Microcystins	2021/10/12	0.00015	mg/L
2020/03/25	Microcystins	2021/10/19	0.00015	mg/L
2020/03/25	Microcystins	2021/10/19	0.00015	mg/L

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2020/03/25	Microcystins	2021/10/26	0.00015	mg/L
2020/03/25	Microcystins	2021/10/26	0.00015	mg/L

HL PUMP STATION, Sudbury (Wanapitei) WTP

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2021/11/30	0.0005	mg/L	No
Arsenic	2021/11/30	0.001	mg/L	No
Barium	2021/11/30	0.0137	mg/L	No
Boron	2021/11/30	0.002	mg/L	No
Cadmium	2021/11/30	0.0001	mg/L	No
Chromium	2021/11/30	0.001	mg/L	No
Mercury	2021/11/30	0.0001	mg/L	No
Selenium	2021/11/30	0.0002	mg/L	No
Uranium	2021/11/30	0.001	mg/L	No
Nitrite	2021/03/02	0.05	mg/L	No
	2021/06/01	0.05	mg/L	No
	2021/09/07	0.05	mg/L	No
	2021/11/30	0.05	mg/L	No
Nitrate	2021/03/02	0.13	mg/L	No
	2021/06/01	0.05	mg/L	No
	2021/09/07	0.088	mg/L	No
	2021/11/30	0.21	mg/L	No
Sodium	2021/11/30	1.67	mg/L	No

Summary of lead testing under Schedule 15.1 during this reporting period.

Location Type	Number of Samples	Range of Lead Results (min#) - (max#)	Number of Exceedances
Plumbing		mg/L	
Distribution	8	0.0001 - 0.0002 mg/L	0

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	2021	0.0725	mg/L	No
HAA (NOTE: show latest annual average)	2021	0.0645	mg/L	No

HL PUMP STATION, Sudbury (Wanapitei) WTP

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2021/11/30	0.00037	mg/L	No
Atrazine + N-dealkylated metabolites	2021/11/30	0.0005	mg/L	No
Azinphos-methyl	2021/11/30	0.000278	mg/L	No
Benzene	2021/11/30	0.0001	mg/L	No

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Benzo(a)pyrene	2021/11/30	0.00001	mg/L	No
Bromoxynil	2021/11/30	0.000102	mg/L	No
Carbaryl	2021/11/30	0.002	mg/L	No
Carbofuran	2021/11/30	0.003	mg/L	No
Carbon Tetrachloride	2021/11/30	0.0002	mg/L	No
Chlorpyrifos	2021/11/30	0.000278	mg/L	No
Diazinon	2021/11/30	0.000278	mg/L	No
Dicamba	2021/11/30	0.0000889	mg/L	No
1,2-Dichlorobenzene	2021/11/30	0.0003	mg/L	No
1,4-Dichlorobenzene	2021/11/30	0.0003	mg/L	No
1,2-Dichloroethane	2021/11/30	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2021/11/30	0.0003	mg/L	No
Dichloromethane	2021/11/30	0.001	mg/L	No
2-4 Dichlorophenol	2021/11/30	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2021/11/30	0.000381	mg/L	No
Diclofop-methyl	2021/11/30	0.000127	mg/L	No
Dimethoate	2021/11/30	0.000278	mg/L	No
Diquat	2021/11/30	0.0002	mg/L	No
Diuron	2021/11/30	0.01	mg/L	No
Glyphosate	2021/11/30	0.02	mg/L	No
Malathion	2021/11/30	0.000278	mg/L	No
Metolachlor	2021/11/30	0.000185	mg/L	No
Metribuzin	2021/11/30	0.000185	mg/L	No
Monochlorobenzene	2021/11/30	0.0005	mg/L	No
Paraquat	2021/11/30	0.0002	mg/L	No
Pentachlorophenol	2021/11/30	0.0003	mg/L	No
Phorate	2021/11/30	0.000185	mg/L	No
Picloram	2021/11/30	0.0000889	mg/L	No
Polychlorinated Biphenyls(PCB)	2021/11/30	0.00006	mg/L	No
Prometryne	2021/11/30	0.0000925	mg/L	No
Simazine	2021/11/30	0.000278	mg/L	No
Terbufos	2021/11/30	0.000185	mg/L	No
Tetrachloroethylene	2021/11/30	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2021/11/30	0.0002	mg/L	No
Triallate	2021/11/30	0.000185	mg/L	No
Trichloroethylene	2021/11/30	0.0002	mg/L	No
2,4,6-Trichlorophenol	2021/11/30	0.0002	mg/L	No
Trifluralin	2021/11/30	0.000185	mg/L	No
Vinyl Chloride	2021/11/30	0.0001	mg/L	No
MCPA	2021/11/30	0.00635	mg/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	UOM	Date of Sample	Location

(Only if DWS category is large municipal residential, small municipal residential, large municipal non-residential, non municipal year round residential, large non municipal non residential)



Section 7

Bleazard Valley – Capreol Drinking Water System

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	210000737
Drinking-Water System Name:	Blezard Valley - Capreol Well Supply
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2021-01-01 To 2021-12-31

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 ☐

Is your annual report available to the public at no charge on a web site on the Internet? Yes ☒ No ☐

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

www.greatersudbury.ca
TDS-Engineering Department

Complete for all other Categories.

Number of Designated Facilities served:

0

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes ☐ No ☒

Number of Interested Authorities you report to:

0

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?

Yes ☐ No ☒

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

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 ☐

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

- ☒ 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/Citizen Service Centre
- ☐ Public access/notice via other method _____

Describe your Drinking-Water System

The system includes nine Blezard Valley wells, which extend in a well field from Val Therese to Hanmer and two Capreol Wells adjacent to Greens Lake. All of the groundwater wells undergo primary treatment in the form of Ultra-Violet irradiation, secondary disinfection by chlorination, and fluoridation. The Capreol wells also include chemical addition for corrosion control. Continuous analyzers for free chlorine residual, fluoride, turbidity and UV equipment are monitored at each well by onsite PLC's. A standby power generator with an automatic transfer switch is located at several of the wells. In the event that the Capreol wells fail, the Valley wells can supply water to the Capreol Boosters located onsite. In the event that the entire system of wells and boosters fail, water will continue to be supplied from the three storage facilities, but at a reduced pressure. Three water storage tanks are situated in Azilda, Chelmsford and Val Caron and all distribution piping completes the system. The Blezard Valley distribution includes an online continuous chlorine analyzer and encompasses the communities of Chelmsford, Azilda, McCrea Heights, Blezard Valley, Val Caron, Val Therese, Hanmer and Capreol. The entire water system is in compliance with O. Reg. 170/03 and is monitored 24/7 from the Wanapitei WTP.

List all water treatment chemicals used over this reporting period

Chlorine Gas UN#1017, Hydrofluosilicic Acid UN#1778, Polyphosphate

Were any significant expenses incurred to?

- ☒ Install required equipment
- ☒ Repair required equipment
- ☐ Replace required equipment

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

- 1) Val Caron Booster Pumping Station - \$2,149,000
- 2) Valley Wells Building Upgrades - \$382,000

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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

AWQI #	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
153531	2021/02/08	300 mm Water Main Break	NA		Flushed Pipes	2021/02/12
154482	2021/06/29	Total Coliform	1	CFU/100 mL	Resample	2021/07/01
154488	2021/06/29	Total Coliform	1	CFU/100 mL	Resample	2021/07/01
155990	2021/10/14	HFS	1.65	mg/L	Retest	2021/10/14

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: WELL A -DESCHENE WELL					
	52	0 to 0	0 to 1		
Raw: WELL B- KENNETH WELL					
	48	0 to 0	0 to 2		
Raw: WELL C -PHILIPPE WELL					
	51	0 to 0	0 to 0		
Raw: WELL D -FROST WELL					
	50	0 to 0	0 to 0		
Raw: WELL E -NOTRE DAME					
	40	0 to 0	0 to 0		
Raw: WELL F -LINDEN WELL					
	52	0 to 0	0 to 0		
Raw: WELL G -PHARAND WELL					
	52	0 to 0	0 to 1		
Raw: WELL H -MICHELLE WELL					
	52	0 to 0	0 to 3		
Raw: WELL I -I WELL					
	0				
Raw: WELL J - GREEN LAKE					
	53	0 to 0	0 to 0		
Raw: WELL M - GREEN LAKE					
	52	0 to 0	0 to 1		
Raw: WELL Q - CHENIER					
	52	0 to 0	0 to 0		
Raw: WELL R					
	52	0 to 0	0 to 0		

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Treated: CAPREOL WELL SUPPLY - WELL M&J					
	105	0 to 0	0 to 1	105	0 to 230
Treated: WELL A - DESCHENE WELL					
	52	0 to 0	0 to 0	52	0 to 2000
Treated: WELL B - KENNETH WELL					
	48	0 to 0	0 to 0	48	0 to 20
Treated: WELL C - PHILIPPE WELL					
	51	0 to 0	0 to 0	51	10 to 70
Treated: WELL D - FROST WELL					
	50	0 to 0	0 to 0	50	0 to 10
Treated: WELL E - NOTRE DAME WELL					
	40	0 to 0	0 to 0	40	10 to 10
Treated: WELL F - LINDEN WELL					
	52	0 to 0	0 to 0	52	10 to 30
Treated: WELL G - PHARAND WELL					
	52	0 to 0	0 to 0	52	10 to 2000
Treated: WELL H - MICHELLE WELL					
	52	0 to 0	0 to 0	52	0 to 410
Treated: WELL I - I WELL					
	0			0	
Treated: WELL Q- CHENIER					
	52	0 to 0	0 to 0	52	10 to 2000
Treated: WELL R					
	52	0 to 0	0 to 0	52	10 to 20
Distribution					
	578	0 to 0	0 to 1	146	10 to 20

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 #)
Chlorine Residual Distribution System	8,760	0.12 - 2.01

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

CAPREOL WELL SUPPLY - WELL M&J

Turbidity	8,760	0.00 - 2.00	NTU
Chlorine	8,760	0.02 - 3.96	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.00 - 0.95	mg/L

WELL A - DESCHENE WELL

Turbidity	8,760	0.02 - 2.00	NTU
Chlorine	8,760	0.50 - 2.65	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.26	mg/L

WELL B - KENNETH WELL

Turbidity	8,760	0.03 - 2.00	NTU
Chlorine	8,760	0.29 - 5.00	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.22	mg/L

WELL C - PHILIPPE WELL

Turbidity	8,760	0.02 - 0.94	NTU
Chlorine	8,760	0.35 - 5.00	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.01	mg/L

WELL D - FROST WELL

Turbidity	8,760	0.02 - 2.00	NTU
Chlorine	8,760	0.40 - 2.70	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.02	mg/L

WELL E - NOTRE DAME WELL

Turbidity	8,760	0.02 - 2.00	NTU
Chlorine	8,760	0.37 - 4.40	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.65	mg/L

WELL F - LINDEN WELL

Turbidity	8,760	0.02 - 2.00	NTU
Chlorine	8,760	0.32 - 4.03	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.00 - 1.19	mg/L

WELL G - PHARAND WELL

Turbidity	8,760	0.00 - 2.00	NTU
Chlorine	8,760	0.65 - 5.00	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 1.15	mg/L

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WELL H - MICHELLE WELL

Turbidity	8,760	0.03 - 2.00	NTU
Chlorine	8,760	0.15 - 2.70	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.20 - 0.99	mg/L

WELL I - I WELL

Turbidity			
Chlorine			
Fluoride (If the DWS provides fluoridation)			

WELL Q- CHENIER

Turbidity	8,760	0.01 - 10.00	NTU
Chlorine	8,760	0.46 - 4.99	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.00 - 1.45	mg/L

WELL R

Turbidity	8,760	0.02 - 10.00	NTU
Chlorine	8,760	0.56 - 2.76	mg/L
Fluoride (If the DWS provides fluoridation)	8,760	0.05 - 1.65	mg/L

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

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure

WELL A - DESCHENE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/01	0.0005	mg/L	No
Arsenic	2020/12/01	0.001	mg/L	No
Barium	2020/12/01	0.0146	mg/L	No
Boron	2020/12/01	0.013	mg/L	No
Cadmium	2020/12/01	0.0001	mg/L	No
Chromium	2020/12/01	0.0018	mg/L	No
Mercury	2020/12/01	0.0001	mg/L	No
Selenium	2020/12/01	0.0002	mg/L	No
Uranium	2020/12/01	0.001	mg/L	No
Nitrite	2021/03/01	0.05	mg/L	No
	2021/06/01	0.05	mg/L	No
	2021/09/07	0.05	mg/L	No
	2021/11/29	0.05	mg/L	No

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Nitrate	2021/03/01	2.17	mg/L	No
	2021/06/01	1.94	mg/L	No
	2021/09/07	2.36	mg/L	No
	2021/11/29	2.44	mg/L	No
Sodium	2020/12/01	18.20	mg/L	No

WELL B - KENNETH WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/01	0.0005	mg/L	No
Arsenic	2020/12/01	0.001	mg/L	No
Barium	2020/12/01	0.0475	mg/L	No
Boron	2020/12/01	0.0223	mg/L	No
Cadmium	2020/12/01	0.0001	mg/L	No
Chromium	2020/12/01	0.002	mg/L	No
Mercury	2020/12/01	0.0001	mg/L	No
Selenium	2020/12/01	0.00021	mg/L	No
Uranium	2020/12/01	0.001	mg/L	No
Nitrite	2021/03/01	0.05	mg/L	No
	2021/06/01	0.05	mg/L	No
	2021/09/07	0.05	mg/L	No
	2021/11/29	0.05	mg/L	No
Nitrate	2021/03/01	0.43	mg/L	No
	2021/06/01	0.36	mg/L	No
	2021/09/07	0.26	mg/L	No
	2021/11/29	0.37	mg/L	No
Sodium	2021/02/22	20.40	mg/L	Yes

WELL C - PHILIPPE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/02	0.0005	mg/L	No
Arsenic	2020/12/02	0.0011	mg/L	No
Barium	2020/12/02	0.008	mg/L	No
Boron	2020/12/02	0.0037	mg/L	No
Cadmium	2020/12/02	0.0001	mg/L	No
Chromium	2020/12/02	0.001	mg/L	No
Mercury	2020/12/02	0.0001	mg/L	No
Selenium	2020/12/02	0.00027	mg/L	No
Uranium	2020/12/02	0.001	mg/L	No
Nitrite	2021/03/01	0.05	mg/L	No
	2021/06/01	0.05	mg/L	No
	2021/09/08	0.05	mg/L	No
	2021/11/29	0.05	mg/L	No
Nitrate	2021/03/01	0.28	mg/L	No
	2021/06/01	0.24	mg/L	No
	2021/09/08	0.36	mg/L	No
	2021/11/29	0.42	mg/L	No
Sodium	2020/12/02	11.70	mg/L	No

WELL D - FROST WELL

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Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/02	0.0005	mg/L	No
Arsenic	2020/12/02	0.0014	mg/L	No
Barium	2020/12/02	0.0353	mg/L	No
Boron	2020/12/02	0.0065	mg/L	No
Cadmium	2020/12/02	0.0001	mg/L	No
Chromium	2020/12/02	0.001	mg/L	No
Mercury	2020/12/02	0.0001	mg/L	No
Selenium	2020/12/02	0.0015	mg/L	No
Uranium	2020/12/02	0.001	mg/L	No
Nitrite	2021/03/01	0.05	mg/L	No
	2021/06/01	0.05	mg/L	No
	2021/09/07	0.05	mg/L	No
	2021/11/29	0.05	mg/L	No
Nitrate	2021/03/01	0.659	mg/L	No
	2021/06/01	0.678	mg/L	No
	2021/09/07	0.802	mg/L	No
	2021/11/29	0.75	mg/L	No
Sodium	2021/02/22	22.40	mg/L	Yes

WELL E - NOTRE DAME WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/11/30	0.0005	mg/L	No
Arsenic	2020/11/30	0.001	mg/L	No
Barium	2020/11/30	0.0149	mg/L	No
Boron	2020/11/30	0.0086	mg/L	No
Cadmium	2020/11/30	0.0001	mg/L	No
Chromium	2020/11/30	0.001	mg/L	No
Mercury	2020/11/30	0.0001	mg/L	No
Selenium	2020/11/30	0.00048	mg/L	No
Uranium	2020/11/30	0.001	mg/L	No
Nitrite	2021/06/01	0.05	mg/L	No
	2021/09/08	0.05	mg/L	No
	2021/11/30	0.05	mg/L	No
Nitrate	2021/06/01	1.44	mg/L	No
	2021/09/08	1.78	mg/L	No
	2021/11/30	1.75	mg/L	No
Sodium	2020/11/30	11.70	mg/L	No

WELL F - LINDEN WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
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Antimony	2020/11/30	0.0005	mg/L	No
Arsenic	2020/11/30	0.0019	mg/L	No
Barium	2020/11/30	0.023	mg/L	No
Boron	2020/11/30	0.005	mg/L	No
Cadmium	2020/11/30	0.0001	mg/L	No
Chromium	2020/11/30	0.001	mg/L	No
Mercury	2020/11/30	0.0001	mg/L	No
Selenium	2020/11/30	0.00036	mg/L	No
Uranium	2020/11/30	0.001	mg/L	No
Nitrite	2021/03/02	0.05	mg/L	No
	2021/06/01	0.05	mg/L	No
	2021/09/08	0.05	mg/L	No
	2021/11/30	0.05	mg/L	No
Nitrate	2021/03/02	0.25	mg/L	No
	2021/06/01	0.28	mg/L	No
	2021/09/08	0.36	mg/L	No
	2021/11/30	0.33	mg/L	No
Sodium	2020/11/30	14.20	mg/L	No

WELL G - PHARAND WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/02	0.00084	mg/L	No
Arsenic	2020/12/02	0.001	mg/L	No
Barium	2020/12/02	0.0587	mg/L	No
Boron	2020/12/02	0.015	mg/L	No
Cadmium	2020/12/02	0.0001	mg/L	No
Chromium	2020/12/02	0.001	mg/L	No
Mercury	2020/12/02	0.0001	mg/L	No
Selenium	2020/12/02	0.00096	mg/L	No
Uranium	2020/12/02	0.001	mg/L	No
Nitrite	2021/03/02	0.05	mg/L	No
	2021/06/01	0.05	mg/L	No
	2021/09/08	0.05	mg/L	No
	2021/11/30	0.05	mg/L	No
Nitrate	2021/03/02	3.18	mg/L	No
	2021/06/01	3.13	mg/L	No
	2021/09/08	3.62	mg/L	No
	2021/11/30	3.71	mg/L	No
Sodium	2021/02/22	88.00	mg/L	Yes

WELL H - MICHELLE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/12/02	0.00099	mg/L	No
Arsenic	2020/12/02	0.001	mg/L	No
Barium	2020/12/02	0.0182	mg/L	No
Boron	2020/12/02	0.007	mg/L	No
Cadmium	2020/12/02	0.0001	mg/L	No
Chromium	2020/12/02	0.001	mg/L	No
Mercury	2020/12/02	0.0001	mg/L	No
Selenium	2020/12/02	0.0015	mg/L	No

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Uranium	2020/12/02	0.001	mg/L	No
Nitrite	2021/03/01	0.05	mg/L	No
	2021/06/01	0.05	mg/L	No
	2021/09/08	0.05	mg/L	No
	2021/11/29	0.05	mg/L	No
Nitrate	2021/03/01	1.44	mg/L	No
	2021/06/01	1.47	mg/L	No
	2021/09/08	1.66	mg/L	No
	2021/11/29	1.75	mg/L	No
Sodium	2021/02/22	30.10	mg/L	Yes

WELL I - I WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony				
Arsenic				
Barium				
Boron				
Cadmium				
Chromium				
Mercury				
Selenium				
Uranium				
Nitrite				
Nitrate				
Sodium				

WELL J - Capreol

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2021/12/01	0.0005	mg/L	No
Arsenic	2021/12/01	0.001	mg/L	No
Barium	2021/12/01	0.018	mg/L	No
Boron	2021/12/01	0.0021	mg/L	No
Cadmium	2021/12/01	0.0001	mg/L	No
Chromium	2021/12/01	0.001	mg/L	No
Mercury	2021/12/01	0.0001	mg/L	No
Selenium	2021/12/01	0.0002	mg/L	No
Uranium	2021/12/01	0.001	mg/L	No
Nitrite	2021/03/03	0.05	mg/L	No
	2021/06/02	0.05	mg/L	No
	2021/09/07	0.05	mg/L	No
	2021/12/01	0.05	mg/L	No

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Nitrate	2021/03/03	0.05	mg/L	No
	2021/06/02	0.05	mg/L	No
	2021/09/07	0.05	mg/L	No
	2021/12/01	0.05	mg/L	No
Sodium	2020/12/08	6.54	mg/L	No

WELL M - Capreol

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2021/12/01	0.0005	mg/L	No
Arsenic	2021/12/01	0.001	mg/L	No
Barium	2021/12/01	0.0374	mg/L	No
Boron	2021/12/01	0.0033	mg/L	No
Cadmium	2021/12/01	0.0001	mg/L	No
Chromium	2021/12/01	0.001	mg/L	No
Mercury	2021/12/01	0.0001	mg/L	No
Selenium	2021/12/01	0.00028	mg/L	No
Uranium	2021/12/01	0.001	mg/L	No
Nitrite	2021/03/03	0.05	mg/L	No
	2021/06/02	0.05	mg/L	No
	2021/09/07	0.05	mg/L	No
	2021/12/01	0.05	mg/L	No
Nitrate	2021/03/03	0.05	mg/L	No
	2021/06/02	0.05	mg/L	No
	2021/09/07	0.05	mg/L	No
	2021/12/01	0.05	mg/L	No
Sodium	2020/12/08	7.97	mg/L	No

WELL Q- CHENIER

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/11/30	0.0005	mg/L	No
Arsenic	2020/11/30	0.001	mg/L	No
Barium	2020/11/30	0.0242	mg/L	No
Boron	2020/11/30	0.0091	mg/L	No
Cadmium	2020/11/30	0.0001	mg/L	No
Chromium	2020/11/30	0.001	mg/L	No
Mercury	2020/11/30	0.0001	mg/L	No
Selenium	2020/11/30	0.00041	mg/L	No
Uranium	2020/11/30	0.001	mg/L	No
Nitrite	2021/03/03	0.05	mg/L	No
	2021/06/02	0.05	mg/L	No
	2021/09/08	0.05	mg/L	No
	2021/11/30	0.05	mg/L	No
Nitrate	2021/03/03	1.44	mg/L	No
	2021/06/02	1.29	mg/L	No
	2021/09/08	1.65	mg/L	No
	2021/11/30	1.74	mg/L	No
Sodium	2020/11/30	15.10	mg/L	No

WELL R

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Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2020/11/30	0.0005	mg/L	No
Arsenic	2020/11/30	0.001	mg/L	No
Barium	2020/11/30	0.023	mg/L	No
Boron	2020/11/30	0.0055	mg/L	No
Cadmium	2020/11/30	0.0001	mg/L	No
Chromium	2020/11/30	0.001	mg/L	No
Mercury	2020/11/30	0.0001	mg/L	No
Selenium	2020/11/30	0.00023	mg/L	No
Uranium	2020/11/30	0.001	mg/L	No
Nitrite	2021/03/03	0.05	mg/L	No
	2021/06/02	0.05	mg/L	No
	2021/09/08	0.05	mg/L	No
	2021/11/30	0.05	mg/L	No
Nitrate	2021/03/03	0.32	mg/L	No
	2021/06/02	0.32	mg/L	No
	2021/09/08	0.46	mg/L	No
	2021/11/30	0.49	mg/L	No
Sodium	2021/02/22	26.10	mg/L	Yes

Summary of lead testing under Schedule 15.1 during this reporting period.

Location Type	Number of Samples	Range of Lead Results (min#) - (max#)	Number of Exceedances
Plumbing		mg/L	
Distribution		mg/L	

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	2021	0.0101	mg/L	No
HAA (NOTE: show latest annual average)	2021	0.008	mg/L	No

WELLA - DESCHENE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/01	0.000235	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/01	0.0005	mg/L	No
Azinphos-methyl	2020/12/01	0.000176	mg/L	No
Benzene	2020/12/01	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/01	0.00001	mg/L	No
Bromoxynil	2020/12/01	0.000127	mg/L	No
Carbaryl	2020/12/01	0.002	mg/L	No
Carbofuran	2020/12/01	0.003	mg/L	No

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Carbon Tetrachloride	2020/12/01	0.0002	mg/L	No
Chlorpyrifos	2020/12/01	0.000176	mg/L	No
Diazinon	2020/12/01	0.000176	mg/L	No
Dicamba	2020/12/01	0.000317	mg/L	No
1,2-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/01	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/01	0.0003	mg/L	No
Dichloromethane	2020/12/01	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/01	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/01	0.00038	mg/L	No
Diclofop-methyl	2020/12/01	0.000127	mg/L	No
Dimethoate	2020/12/01	0.000176	mg/L	No
Diquat	2020/12/01	0.0002	mg/L	No
Diuron	2020/12/01	0.008	mg/L	No
Glyphosate	2020/12/01	0.02	mg/L	No
Malathion	2020/12/01	0.000176	mg/L	No
Metolachlor	2020/12/01	0.000117	mg/L	No
Metribuzin	2020/12/01	0.000117	mg/L	No
Monochlorobenzene	2020/12/01	0.0005	mg/L	No
Paraquat	2020/12/01	0.0002	mg/L	No
Pentachlorophenol	2020/12/01	0.0003	mg/L	No
Phorate	2020/12/01	0.000117	mg/L	No
Picloram	2020/12/01	0.0000888	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/01	0.00006	mg/L	No
Prometryne	2020/12/01	0.0000587	mg/L	No
Simazine	2020/12/01	0.000176	mg/L	No
Terbufos	2020/12/01	0.000117	mg/L	No
Tetrachloroethylene	2020/12/01	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/01	0.0003	mg/L	No
Triallate	2020/12/01	0.000117	mg/L	No
Trichloroethylene	2020/12/01	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/01	0.0002	mg/L	No
Trifluralin	2020/12/01	0.000117	mg/L	No
Vinyl Chloride	2020/12/01	0.0001	mg/L	No
MCPA	2020/12/01	0.00634	mg/L	No

WELL B - KENNETH WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/01	0.000236	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/01	0.0005	mg/L	No
Azinphos-methyl	2020/12/01	0.000177	mg/L	No
Benzene	2020/12/01	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/01	0.00001	mg/L	No
Bromoxynil	2020/12/01	0.000144	mg/L	No
Carbaryl	2020/12/01	0.001	mg/L	No
Carbofuran	2020/12/01	0.002	mg/L	No
Carbon Tetrachloride	2020/12/01	0.0002	mg/L	No
Chlorpyrifos	2020/12/01	0.000177	mg/L	No
Diazinon	2020/12/01	0.000177	mg/L	No
Dicamba	2020/12/01	0.00036	mg/L	No

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1,2-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/01	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/01	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/01	0.0003	mg/L	No
Dichloromethane	2020/12/01	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/01	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/01	0.00036	mg/L	No
Diclofop-methyl	2020/12/01	0.00012	mg/L	No
Dimethoate	2020/12/01	0.000177	mg/L	No
Diquat	2020/12/01	0.0002	mg/L	No
Diuron	2020/12/01	0.007	mg/L	No
Glyphosate	2020/12/01	0.02	mg/L	No
Malathion	2020/12/01	0.000177	mg/L	No
Metolachlor	2020/12/01	0.000118	mg/L	No
Metribuzin	2020/12/01	0.000118	mg/L	No
Monochlorobenzene	2020/12/01	0.0005	mg/L	No
Paraquat	2020/12/01	0.0002	mg/L	No
Pentachlorophenol	2020/12/01	0.0003	mg/L	No
Phorate	2020/12/01	0.000118	mg/L	No
Picloram	2020/12/01	0.0000839	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/01	0.00006	mg/L	No
Prometryne	2020/12/01	0.000059	mg/L	No
Simazine	2020/12/01	0.000177	mg/L	No
Terbufos	2020/12/01	0.000118	mg/L	No
Tetrachloroethylene	2020/12/01	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/01	0.0003	mg/L	No
Triallate	2020/12/01	0.000118	mg/L	No
Trichloroethylene	2020/12/01	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/01	0.0002	mg/L	No
Trifluralin	2020/12/01	0.000118	mg/L	No
Vinyl Chloride	2020/12/01	0.0001	mg/L	No
MCPA	2020/12/01	0.00599	mg/L	No

WELL C - PHILIPPE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/02	0.00024	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/02	0.0005	mg/L	No
Azinphos-methyl	2020/12/02	0.00018	mg/L	No
Benzene	2020/12/02	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/02	0.00001	mg/L	No
Bromoxynil	2020/12/02	0.0000943	mg/L	No
Carbaryl	2020/12/02	0.002	mg/L	No
Carbofuran	2020/12/02	0.003	mg/L	No
Carbon Tetrachloride	2020/12/02	0.0002	mg/L	No
Chlorpyrifos	2020/12/02	0.00018	mg/L	No
Diazinon	2020/12/02	0.00018	mg/L	No
Dicamba	2020/12/02	0.0000825	mg/L	No
1,2-Dichlorobenzene	2020/12/02	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/02	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/02	0.0003	mg/L	No

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1,1-Dichloroethylene (vinylidene chloride)	2020/12/02	0.0003	mg/L	No
Dichloromethane	2020/12/02	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/02	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/02	0.000354	mg/L	No
Diclofop-methyl	2020/12/02	0.000118	mg/L	No
Dimethoate	2020/12/02	0.00018	mg/L	No
Diquat	2020/12/02	0.0002	mg/L	No
Diuron	2020/12/02	0.009	mg/L	No
Glyphosate	2020/12/02	0.02	mg/L	No
Malathion	2020/12/02	0.00018	mg/L	No
Metolachlor	2020/12/02	0.00012	mg/L	No
Metribuzin	2020/12/02	0.00012	mg/L	No
Monochlorobenzene	2020/12/02	0.0005	mg/L	No
Paraquat	2020/12/02	0.0002	mg/L	No
Pentachlorophenol	2020/12/02	0.0003	mg/L	No
Phorate	2020/12/02	0.00012	mg/L	No
Picloram	2020/12/02	0.0000825	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/02	0.00006	mg/L	No
Prometryne	2020/12/02	0.0000599	mg/L	No
Simazine	2020/12/02	0.00018	mg/L	No
Terbufos	2020/12/02	0.00012	mg/L	No
Tetrachloroethylene	2020/12/02	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/02	0.0003	mg/L	No
Triallate	2020/12/02	0.00012	mg/L	No
Trichloroethylene	2020/12/02	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/02	0.0002	mg/L	No
Trifluralin	2020/12/02	0.00012	mg/L	No
Vinyl Chloride	2020/12/02	0.0001	mg/L	No
MCPA	2020/12/02	0.00589	mg/L	No

WELL D - FROST WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/02	0.000238	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/02	0.0005	mg/L	No
Azinphos-methyl	2020/12/02	0.000179	mg/L	No
Benzene	2020/12/02	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/02	0.00001	mg/L	No
Bromoxynil	2020/12/02	0.0000953	mg/L	No
Carbaryl	2020/12/02	0.001	mg/L	No
Carbofuran	2020/12/02	0.002	mg/L	No
Carbon Tetrachloride	2020/12/02	0.0002	mg/L	No
Chlorpyrifos	2020/12/02	0.000179	mg/L	No
Diazinon	2020/12/02	0.000179	mg/L	No
Dicamba	2020/12/02	0.0000834	mg/L	No
1,2-Dichlorobenzene	2020/12/02	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/02	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/02	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/02	0.0003	mg/L	No
Dichloromethane	2020/12/02	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/02	0.0002	mg/L	No

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2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/02	0.000357	mg/L	No
Diclofop-methyl	2020/12/02	0.000119	mg/L	No
Dimethoate	2020/12/02	0.000179	mg/L	No
Diquat	2020/12/02	0.0002	mg/L	No
Diuron	2020/12/02	0.006	mg/L	No
Glyphosate	2020/12/02	0.02	mg/L	No
Malathion	2020/12/02	0.000179	mg/L	No
Metolachlor	2020/12/02	0.000119	mg/L	No
Metribuzin	2020/12/02	0.000119	mg/L	No
Monochlorobenzene	2020/12/02	0.0005	mg/L	No
Paraquat	2020/12/02	0.0002	mg/L	No
Pentachlorophenol	2020/12/02	0.0003	mg/L	No
Phorate	2020/12/02	0.000119	mg/L	No
Picloram	2020/12/02	0.0000834	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/02	0.00006	mg/L	No
Prometryne	2020/12/02	0.0000596	mg/L	No
Simazine	2020/12/02	0.000179	mg/L	No
Terbufos	2020/12/02	0.000119	mg/L	No
Tetrachloroethylene	2020/12/02	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/02	0.0003	mg/L	No
Triallate	2020/12/02	0.000119	mg/L	No
Trichloroethylene	2020/12/02	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/02	0.0002	mg/L	No
Trifluralin	2020/12/02	0.000119	mg/L	No
Vinyl Chloride	2020/12/02	0.0001	mg/L	No
MCPA	2020/12/02	0.00596	mg/L	No

WELL E - NOTRE DAME WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/11/30	0.000231	mg/L	No
Atrazine + N-dealkylated metabolites	2020/11/30	0.0005	mg/L	No
Azinphos-methyl	2020/11/30	0.000173	mg/L	No
Benzene	2020/11/30	0.0001	mg/L	No
Benzo(a)pyrene	2020/11/30	0.000009	mg/L	No
Bromoxynil	2020/11/30	0.0000881	mg/L	No
Carbaryl	2020/11/30	0.001	mg/L	No
Carbofuran	2020/11/30	0.002	mg/L	No
Carbon Tetrachloride	2020/11/30	0.0002	mg/L	No
Chlorpyrifos	2020/11/30	0.000173	mg/L	No
Diazinon	2020/11/30	0.000173	mg/L	No
Dicamba	2020/11/30	0.0000771	mg/L	No
1,2-Dichlorobenzene	2020/11/30	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/11/30	0.0003	mg/L	No
1,2-Dichloroethane	2020/11/30	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/11/30	0.0003	mg/L	No
Dichloromethane	2020/11/30	0.001	mg/L	No
2-4 Dichlorophenol	2020/11/30	0.0003	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/11/30	0.00033	mg/L	No
Diclofop-methyl	2020/11/30	0.00011	mg/L	No
Dimethoate	2020/11/30	0.000173	mg/L	No

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Diquat	2020/11/30	0.0002	mg/L	No
Diuron	2020/11/30	0.007	mg/L	No
Glyphosate	2020/11/30	0.02	mg/L	No
Malathion	2020/11/30	0.000173	mg/L	No
Metolachlor	2020/11/30	0.000115	mg/L	No
Metribuzin	2020/11/30	0.000115	mg/L	No
Monochlorobenzene	2020/11/30	0.0005	mg/L	No
Paraquat	2020/11/30	0.0002	mg/L	No
Pentachlorophenol	2020/11/30	0.0003	mg/L	No
Phorate	2020/11/30	0.000115	mg/L	No
Picloram	2020/11/30	0.0000771	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/11/30	0.00006	mg/L	No
Prometryne	2020/11/30	0.0000577	mg/L	No
Simazine	2020/11/30	0.000173	mg/L	No
Terbufos	2020/11/30	0.000115	mg/L	No
Tetrachloroethylene	2020/11/30	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/11/30	0.0003	mg/L	No
Triallate	2020/11/30	0.000115	mg/L	No
Trichloroethylene	2020/11/30	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/11/30	0.0002	mg/L	No
Trifluralin	2020/11/30	0.000115	mg/L	No
Vinyl Chloride	2020/11/30	0.0001	mg/L	No
MCPA	2020/11/30	0.00551	mg/L	No

WELL F - LINDEN WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/11/30	0.000228	mg/L	No
Atrazine + N-dealkylated metabolites	2020/11/30	0.0005	mg/L	No
Azinphos-methyl	2020/11/30	0.000171	mg/L	No
Benzene	2020/11/30	0.0001	mg/L	No
Benzo(a)pyrene	2020/11/30	0.000009	mg/L	No
Bromoxynil	2020/11/30	0.0000909	mg/L	No
Carbaryl	2020/11/30	0.001	mg/L	No
Carbofuran	2020/11/30	0.002	mg/L	No
Carbon Tetrachloride	2020/11/30	0.0002	mg/L	No
Chlorpyrifos	2020/11/30	0.000171	mg/L	No
Diazinon	2020/11/30	0.000171	mg/L	No
Dicamba	2020/11/30	0.0000795	mg/L	No
1,2-Dichlorobenzene	2020/11/30	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/11/30	0.0003	mg/L	No
1,2-Dichloroethane	2020/11/30	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/11/30	0.0003	mg/L	No
Dichloromethane	2020/11/30	0.001	mg/L	No
2-4 Dichlorophenol	2020/11/30	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/11/30	0.000341	mg/L	No
Diclofop-methyl	2020/11/30	0.000114	mg/L	No
Dimethoate	2020/11/30	0.000171	mg/L	No
Diquat	2020/11/30	0.0002	mg/L	No
Diuron	2020/11/30	0.006	mg/L	No
Glyphosate	2020/11/30	0.02	mg/L	No
Malathion	2020/11/30	0.000171	mg/L	No

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Metolachlor	2020/11/30	0.000114	mg/L	No
Metribuzin	2020/11/30	0.000114	mg/L	No
Monochlorobenzene	2020/11/30	0.0005	mg/L	No
Paraquat	2020/11/30	0.0003	mg/L	No
Pentachlorophenol	2020/11/30	0.0003	mg/L	No
Phorate	2020/11/30	0.000114	mg/L	No
Picloram	2020/11/30	0.0000795	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/11/30	0.00006	mg/L	No
Prometryne	2020/11/30	0.0000569	mg/L	No
Simazine	2020/11/30	0.000171	mg/L	No
Terbufos	2020/11/30	0.000114	mg/L	No
Tetrachloroethylene	2020/11/30	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/11/30	0.0003	mg/L	No
Triallate	2020/11/30	0.000114	mg/L	No
Trichloroethylene	2020/11/30	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/11/30	0.0002	mg/L	No
Trifluralin	2020/11/30	0.000114	mg/L	No
Vinyl Chloride	2020/11/30	0.0001	mg/L	No
MCPA	2020/11/30	0.00568	mg/L	No

WELL G - PHARAND WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/02	0.00024	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/02	0.0005	mg/L	No
Azinphos-methyl	2020/12/02	0.00018	mg/L	No
Benzene	2020/12/02	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/02	0.00001	mg/L	No
Bromoxynil	2020/12/02	0.00012	mg/L	No
Carbaryl	2020/12/02	0.001	mg/L	No
Carbofuran	2020/12/02	0.002	mg/L	No
Carbon Tetrachloride	2020/12/02	0.0002	mg/L	No
Chlorpyrifos	2020/12/02	0.00018	mg/L	No
Diazinon	2020/12/02	0.00018	mg/L	No
Dicamba	2020/12/02	0.000105	mg/L	No
1,2-Dichlorobenzene	2020/12/02	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/02	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/02	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/02	0.0003	mg/L	No
Dichloromethane	2020/12/02	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/02	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/02	0.000452	mg/L	No
Diclofop-methyl	2020/12/02	0.000151	mg/L	No
Dimethoate	2020/12/02	0.00018	mg/L	No
Diquat	2020/12/02	0.0002	mg/L	No
Diuron	2020/12/02	0.006	mg/L	No
Glyphosate	2020/12/02	0.02	mg/L	No
Malathion	2020/12/02	0.00018	mg/L	No
Metolachlor	2020/12/02	0.00012	mg/L	No
Metribuzin	2020/12/02	0.00012	mg/L	No
Monochlorobenzene	2020/12/02	0.0005	mg/L	No
Paraquat	2020/12/02	0.0002	mg/L	No

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Pentachlorophenol	2020/12/02	0.0003	mg/L	No
Phorate	2020/12/02	0.00012	mg/L	No
Picloram	2020/12/02	0.000105	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/02	0.00006	mg/L	No
Prometryne	2020/12/02	0.0000601	mg/L	No
Simazine	2020/12/02	0.00018	mg/L	No
Terbufos	2020/12/02	0.00012	mg/L	No
Tetrachloroethylene	2020/12/02	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/02	0.0003	mg/L	No
Triallate	2020/12/02	0.00012	mg/L	No
Trichloroethylene	2020/12/02	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/02	0.0002	mg/L	No
Trifluralin	2020/12/02	0.00012	mg/L	No
Vinyl Chloride	2020/12/02	0.0001	mg/L	No
MCPA	2020/12/02	0.00753	mg/L	No

WELL H - MICHELLE WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/12/02	0.000249	mg/L	No
Atrazine + N-dealkylated metabolites	2020/12/02	0.0005	mg/L	No
Azinphos-methyl	2020/12/02	0.000187	mg/L	No
Benzene	2020/12/02	0.0001	mg/L	No
Benzo(a)pyrene	2020/12/02	0.00001	mg/L	No
Bromoxynil	2020/12/02	0.000117	mg/L	No
Carbaryl	2020/12/02	0.001	mg/L	No
Carbofuran	2020/12/02	0.002	mg/L	No
Carbon Tetrachloride	2020/12/02	0.0002	mg/L	No
Chlorpyrifos	2020/12/02	0.000187	mg/L	No
Diazinon	2020/12/02	0.000187	mg/L	No
Dicamba	2020/12/02	0.000103	mg/L	No
1,2-Dichlorobenzene	2020/12/02	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/12/02	0.0003	mg/L	No
1,2-Dichloroethane	2020/12/02	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/12/02	0.0003	mg/L	No
Dichloromethane	2020/12/02	0.001	mg/L	No
2-4 Dichlorophenol	2020/12/02	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/12/02	0.00044	mg/L	No
Diclofop-methyl	2020/12/02	0.000147	mg/L	No
Dimethoate	2020/12/02	0.000187	mg/L	No
Diquat	2020/12/02	0.0002	mg/L	No
Diuron	2020/12/02	0.006	mg/L	No
Glyphosate	2020/12/02	0.02	mg/L	No
Malathion	2020/12/02	0.000187	mg/L	No
Metolachlor	2020/12/02	0.000124	mg/L	No
Metribuzin	2020/12/02	0.000124	mg/L	No
Monochlorobenzene	2020/12/02	0.0005	mg/L	No
Paraquat	2020/12/02	0.0002	mg/L	No
Pentachlorophenol	2020/12/02	0.0003	mg/L	No
Phorate	2020/12/02	0.000124	mg/L	No
Picloram	2020/12/02	0.000103	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/12/02	0.00006	mg/L	No

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Prometryne	2020/12/02	0.0000622	mg/L	No
Simazine	2020/12/02	0.000187	mg/L	No
Terbufos	2020/12/02	0.000124	mg/L	No
Tetrachloroethylene	2020/12/02	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/12/02	0.0003	mg/L	No
Triallate	2020/12/02	0.000124	mg/L	No
Trichloroethylene	2020/12/02	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/12/02	0.0002	mg/L	No
Trifluralin	2020/12/02	0.000124	mg/L	No
Vinyl Chloride	2020/12/02	0.0001	mg/L	No
MCPA	2020/12/02	0.00734	mg/L	No

WELL I - I WELL

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				
Benzene				
Benzo(a)pyrene				
Bromoxynil				
Carbaryl				
Carbofuran				
Carbon Tetrachloride				
Chlorpyrifos				
Diazinon				
Dicamba				
1,2-Dichlorobenzene				
1,4-Dichlorobenzene				
1,2-Dichloroethane				
1,1-Dichloroethylene (vinylidene chloride)				
Dichloromethane				
2-4 Dichlorophenol				
2,4-Dichlorophenoxy acetic acid (2,4-D)				
Diclofop-methyl				
Dimethoate				
Diquat				
Diuron				
Glyphosate				
Malathion				
Metolachlor				
Metribuzin				
Monochlorobenzene				
Paraquat				
Pentachlorophenol				
Phorate				
Picloram				
Polychlorinated Biphenyls(PCB)				
Prometryne				
Simazine				
Terbufos				
Tetrachloroethylene				

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2,3,4,6-Tetrachlorophenol				
Triallate				
Trichloroethylene				
2,4,6-Trichlorophenol				
Trifluralin				
Vinyl Chloride				
MCPA				

WELL M - Capreol

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2021/12/01	0.000293	mg/L	No
Atrazine + N-dealkylated metabolites	2021/12/01	0.0005	mg/L	No
Azinphos-methyl	2021/12/01	0.00022	mg/L	No
Benzene	2021/12/01	0.0001	mg/L	No
Benzo(a)pyrene	2021/12/01	0.00001	mg/L	No
Bromoxynil	2021/12/01	0.000107	mg/L	No
Carbaryl	2021/12/01	0.001	mg/L	No
Carbofuran	2021/12/01	0.002	mg/L	No
Carbon Tetrachloride	2021/12/01	0.0002	mg/L	No
Chlorpyrifos	2021/12/01	0.00022	mg/L	No
Diazinon	2021/12/01	0.00022	mg/L	No
Dicamba	2021/12/01	0.0000938	mg/L	No
1,2-Dichlorobenzene	2021/12/01	0.0003	mg/L	No
1,4-Dichlorobenzene	2021/12/01	0.0003	mg/L	No
1,2-Dichloroethane	2021/12/01	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2021/12/01	0.0003	mg/L	No
Dichloromethane	2021/12/01	0.001	mg/L	No
2-4 Dichlorophenol	2021/12/01	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2021/12/01	0.000402	mg/L	No
Diclofop-methyl	2021/12/01	0.000134	mg/L	No
Dimethoate	2021/12/01	0.00022	mg/L	No
Diquat	2021/12/01	0.0002	mg/L	No
Diuron	2021/12/01	0.006	mg/L	No
Glyphosate	2021/12/01	0.02	mg/L	No
Malathion	2021/12/01	0.00022	mg/L	No
Metolachlor	2021/12/01	0.000147	mg/L	No
Metribuzin	2021/12/01	0.000147	mg/L	No
Monochlorobenzene	2021/12/01	0.0005	mg/L	No
Paraquat	2021/12/01	0.0003	mg/L	No
Pentachlorophenol	2021/12/01	0.0003	mg/L	No
Phorate	2021/12/01	0.000147	mg/L	No
Picloram	2021/12/01	0.0000938	mg/L	No
Polychlorinated Biphenyls(PCB)	2021/12/01	0.00006	mg/L	No
Prometryne	2021/12/01	0.0000733	mg/L	No
Simazine	2021/12/01	0.00022	mg/L	No
Terbufos	2021/12/01	0.000147	mg/L	No
Tetrachloroethylene	2021/12/01	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2021/12/01	0.0003	mg/L	No
Triallate	2021/12/01	0.000147	mg/L	No
Trichloroethylene	2021/12/01	0.0002	mg/L	No
2,4,6-Trichlorophenol	2021/12/01	0.0002	mg/L	No

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Trifluralin	2021/12/01	0.000147	mg/L	No
Vinyl Chloride	2021/12/01	0.0001	mg/L	No
MCPA	2021/12/01	0.0067	mg/L	No

WELL J - Capreol

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2021/12/01	0.000243	mg/L	No
Atrazine + N-dealkylated metabolites	2021/12/01	0.0005	mg/L	No
Azinphos-methyl	2021/12/01	0.000182	mg/L	No
Benzene	2021/12/01	0.0001	mg/L	No
Benzo(a)pyrene	2021/12/01	0.00001	mg/L	No
Bromoxynil	2021/12/01	0.000102	mg/L	No
Carbaryl	2021/12/01	0.002	mg/L	No
Carbofuran	2021/12/01	0.003	mg/L	No
Carbon Tetrachloride	2021/12/01	0.0002	mg/L	No
Chlorpyrifos	2021/12/01	0.000182	mg/L	No
Diazinon	2021/12/01	0.000182	mg/L	No
Dicamba	2021/12/01	0.0000892	mg/L	No
1,2-Dichlorobenzene	2021/12/01	0.0003	mg/L	No
1,4-Dichlorobenzene	2021/12/01	0.0003	mg/L	No
1,2-Dichloroethane	2021/12/01	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2021/12/01	0.0003	mg/L	No
Dichloromethane	2021/12/01	0.001	mg/L	No
2-4 Dichlorophenol	2021/12/01	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2021/12/01	0.000382	mg/L	No
Diclofop-methyl	2021/12/01	0.000127	mg/L	No
Dimethoate	2021/12/01	0.000182	mg/L	No
Diquat	2021/12/01	0.0002	mg/L	No
Diuron	2021/12/01	0.01	mg/L	No
Glyphosate	2021/12/01	0.02	mg/L	No
Malathion	2021/12/01	0.000182	mg/L	No
Metolachlor	2021/12/01	0.000122	mg/L	No
Metribuzin	2021/12/01	0.000122	mg/L	No
Monochlorobenzene	2021/12/01	0.0005	mg/L	No
Paraquat	2021/12/01	0.0002	mg/L	No
Pentachlorophenol	2021/12/01	0.0003	mg/L	No
Phorate	2021/12/01	0.000122	mg/L	No
Picloram	2021/12/01	0.0000892	mg/L	No
Polychlorinated Biphenyls(PCB)	2021/12/01	0.00006	mg/L	No
Prometryne	2021/12/01	0.0000608	mg/L	No
Simazine	2021/12/01	0.000182	mg/L	No
Terbufos	2021/12/01	0.000122	mg/L	No
Tetrachloroethylene	2021/12/01	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2021/12/01	0.0003	mg/L	No
Triallate	2021/12/01	0.000122	mg/L	No
Trichloroethylene	2021/12/01	0.0002	mg/L	No
2,4,6-Trichlorophenol	2021/12/01	0.0002	mg/L	No
Trifluralin	2021/12/01	0.000122	mg/L	No
Vinyl Chloride	2021/12/01	0.0001	mg/L	No
MCPA	2021/12/01	0.00637	mg/L	No

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WELL Q- CHENIER

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/11/30	0.000269	mg/L	No
Atrazine + N-dealkylated metabolites	2020/11/30	0.0005	mg/L	No
Azinphos-methyl	2020/11/30	0.000202	mg/L	No
Benzene	2020/11/30	0.0001	mg/L	No
Benzo(a)pyrene	2020/11/30	0.00001	mg/L	No
Bromoxynil	2020/11/30	0.0000939	mg/L	No
Carbaryl	2020/11/30	0.001	mg/L	No
Carbofuran	2020/11/30	0.002	mg/L	No
Carbon Tetrachloride	2020/11/30	0.0002	mg/L	No
Chlorpyrifos	2020/11/30	0.000202	mg/L	No
Diazinon	2020/11/30	0.000202	mg/L	No
Dicamba	2020/11/30	0.0000822	mg/L	No
1,2-Dichlorobenzene	2020/11/30	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/11/30	0.0003	mg/L	No
1,2-Dichloroethane	2020/11/30	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/11/30	0.0003	mg/L	No
Dichloromethane	2020/11/30	0.001	mg/L	No
2-4 Dichlorophenol	2020/11/30	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/11/30	0.000352	mg/L	No
Diclofop-methyl	2020/11/30	0.000117	mg/L	No
Dimethoate	2020/11/30	0.000202	mg/L	No
Diquat	2020/11/30	0.0003	mg/L	No
Diuron	2020/11/30	0.006	mg/L	No
Glyphosate	2020/11/30	0.02	mg/L	No
Malathion	2020/11/30	0.000202	mg/L	No
Metolachlor	2020/11/30	0.000134	mg/L	No
Metribuzin	2020/11/30	0.000134	mg/L	No
Monochlorobenzene	2020/11/30	0.0005	mg/L	No
Paraquat	2020/11/30	0.0003	mg/L	No
Pentachlorophenol	2020/11/30	0.0003	mg/L	No
Phorate	2020/11/30	0.000134	mg/L	No
Picloram	2020/11/30	0.0000822	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/11/30	0.00006	mg/L	No
Prometryne	2020/11/30	0.0000672	mg/L	No
Simazine	2020/11/30	0.000202	mg/L	No
Terbufos	2020/11/30	0.000134	mg/L	No
Tetrachloroethylene	2020/11/30	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/11/30	0.0003	mg/L	No
Triallate	2020/11/30	0.000134	mg/L	No
Trichloroethylene	2020/11/30	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/11/30	0.0002	mg/L	No
Trifluralin	2020/11/30	0.000134	mg/L	No
Vinyl Chloride	2020/11/30	0.0001	mg/L	No
MCPA	2020/11/30	0.00587	mg/L	No

WELL R

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2020/11/30	0.00023	mg/L	No

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Atrazine + N-dealkylated metabolites	2020/11/30	0.0005	mg/L	No
Azinphos-methyl	2020/11/30	0.000172	mg/L	No
Benzene	2020/11/30	0.0001	mg/L	No
Benzo(a)pyrene	2020/11/30	0.000009	mg/L	No
Bromoxynil	2020/11/30	0.0000921	mg/L	No
Carbaryl	2020/11/30	0.001	mg/L	No
Carbofuran	2020/11/30	0.002	mg/L	No
Carbon Tetrachloride	2020/11/30	0.0002	mg/L	No
Chlorpyrifos	2020/11/30	0.000172	mg/L	No
Diazinon	2020/11/30	0.000172	mg/L	No
Dicamba	2020/11/30	0.0000806	mg/L	No
1,2-Dichlorobenzene	2020/11/30	0.0003	mg/L	No
1,4-Dichlorobenzene	2020/11/30	0.0003	mg/L	No
1,2-Dichloroethane	2020/11/30	0.0003	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2020/11/30	0.0003	mg/L	No
Dichloromethane	2020/11/30	0.001	mg/L	No
2-4 Dichlorophenol	2020/11/30	0.0002	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2020/11/30	0.000345	mg/L	No
Diclofop-methyl	2020/11/30	0.000115	mg/L	No
Dimethoate	2020/11/30	0.000172	mg/L	No
Diquat	2020/11/30	0.0002	mg/L	No
Diuron	2020/11/30	0.007	mg/L	No
Glyphosate	2020/11/30	0.02	mg/L	No
Malathion	2020/11/30	0.000172	mg/L	No
Metolachlor	2020/11/30	0.000115	mg/L	No
Metribuzin	2020/11/30	0.000115	mg/L	No
Monochlorobenzene	2020/11/30	0.0005	mg/L	No
Paraquat	2020/11/30	0.0002	mg/L	No
Pentachlorophenol	2020/11/30	0.0003	mg/L	No
Phorate	2020/11/30	0.000115	mg/L	No
Picloram	2020/11/30	0.0000806	mg/L	No
Polychlorinated Biphenyls(PCB)	2020/11/30	0.00006	mg/L	No
Prometryne	2020/11/30	0.0000574	mg/L	No
Simazine	2020/11/30	0.000172	mg/L	No
Terbufos	2020/11/30	0.000115	mg/L	No
Tetrachloroethylene	2020/11/30	0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	2020/11/30	0.0003	mg/L	No
Triallate	2020/11/30	0.000115	mg/L	No
Trichloroethylene	2020/11/30	0.0002	mg/L	No
2,4,6-Trichlorophenol	2020/11/30	0.0002	mg/L	No
Trifluralin	2020/11/30	0.000115	mg/L	No
Vinyl Chloride	2020/11/30	0.0001	mg/L	No
MCPA	2020/11/30	0.00575	mg/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	UOM	Date of Sample	Location

(Only if DWS category is large municipal residential, small municipal residential, large municipal non-residential, non municipal year round residential, large non municipal non residential)



Section 8

Vermilion Distribution Water System

Drinking-Water Systems Regulation O. Reg. 170/03

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	260006789
Drinking-Water System Name:	Vermilion Distribution System
Drinking-Water System Owner:	City of Greater Sudbury
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	From 2021-01-01 To 2021-12-31

<u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u> Does your Drinking-Water System serve more than 10,000 people? Yes ☐ No ☒ Is your annual report available to the public at no charge on a web site on the Internet? Yes ☒ No ☐ Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection. www.greatersudbury.ca TDS-Engineering Department	<u>Complete for all other Categories.</u> Number of Designated Facilities served: 0 Did you provide a copy of your annual report to all Designated Facilities you serve? Yes ☐ No ☒ Number of Interested Authorities you report to: 0 Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes ☐ No ☒
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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
Atikameksheng Anishnawbek	

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 ☐

Drinking-Water Systems Regulation O. Reg. 170/03

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

- ☒ 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/Citizen Service Centre
- ☐ Public access/notice via other method _____

Describe your Drinking-Water System

The City of Greater Sudbury purchases water from Vale to supply the Vermilion Distribution System. The City owned distribution system supplies the communities of Lively, Naughton, Whitefish and Copper Cliff. Additional service was provided in 2005 to supply Atikameksheng Anishnawbek, formerly known as the Whitefish First Nations Reserve. Water is treated by Vale at the Vermillion Water Treatment Plant to comply with O. Reg. 170/03. The City of Greater Sudbury has the responsibility of water quality monitoring within the Vermilion Distribution. The system includes the Walden water storage tank and Walden metering chamber; both located in the Walden Industrial Park and includes an online continuous chlorine analyzer.

List all water treatment chemicals used over this reporting period

No chemical addition. Distribution system only.

Were any significant expenses incurred to?

- ☐ Install required equipment
- ☐ Repair required equipment
- ☐ Replace required equipment

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

Drinking-Water Systems Regulation O. Reg. 170/03

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

AWQI #	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
153894	2021/04/16	Chlorine Residual	0	mg/L	Resample	2021/04/16
155998	2021/08/29	Chlorine Analyzer Failure	NA		Resample	2021/10/14
155878	2021/10/07	HAA	>.08	mg/L	Monitor	2021/10/08
157433	2021/12/17	HAA	>.08	mg/L	Monitor	2021/12/17

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 #)
Distribution	270	0 to 0	0 to 0	64	0 to 20

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 #)
Chlorine Residual Distribution System	8,760	0.00 - 3.61

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

Drinking-Water Systems Regulation O. Reg. 170/03

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

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony				
Arsenic				
Barium				
Boron				
Cadmium				
Chromium				
Mercury				
Selenium				
Uranium				
Nitrite				
Nitrate				
Sodium				

Summary of lead testing under Schedule 15.1 during this reporting period.

Location Type	Number of Samples	Range of Lead Results (min#) - (max#)	Number of Exceedances
Plumbing		mg/L	
Distribution		mg/L	

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	2021	0.0846	mg/L	No
HAA (NOTE: show latest annual average)	2021	0.0791	mg/L	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				
Benzene				
Benzo(a)pyrene				
Bromoxynil				
Carbaryl				
Carbofuran				
Carbon Tetrachloride				
Chlorpyrifos				
Diazinon				
Dicamba				
1,2-Dichlorobenzene				
1,4-Dichlorobenzene				
1,2-Dichloroethane				
1,1-Dichloroethylene (vinylidene chloride)				
Dichloromethane				
2-4 Dichlorophenol				
2,4-Dichlorophenoxy acetic acid (2,4-D)				
Diclofop-methyl				
Dimethoate				
Diquat				
Diuron				
Glyphosate				
Malathion				
Metolachlor				
Metribuzin				
Monochlorobenzene				
Paraquat				
Pentachlorophenol				
Phorate				
Picloram				
Polychlorinated Biphenyls(PCB)				
Prometryne				
Simazine				
Terbufos				
Tetrachloroethylene				
2,3,4,6-Tetrachlorophenol				
Triallate				
Trichloroethylene				
2,4,6-Trichlorophenol				
Trifluralin				
Vinyl Chloride				
MCPA				

Drinking-Water Systems Regulation O. Reg. 170/03

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	UOM	Date of Sample	Location

(Only if DWS category is large municipal residential, small municipal residential, large municipal non-residential, non municipal year round residential, large non municipal non residential)