



The Corporation of the Municipality of Brighton
Public Works and Environmental Services

Brighton Springs Drinking Water System

67 Sharp Road

Brighton, ON, K0K 1H0

2022 Annual Brighton Springs Drinking Water System Report

Abstract

In accordance with Ontario Regulation 170/03 under the Safe Drinking Water Act, 2002, an Annual Report shall be prepared by Large Municipal Residential Water System Owners by February 28 for each preceding year. This report is a compilation of annual reporting requirements under the Regulation. The System Owner is also required to provide a Summary Report to members of Municipal Council by March 31 each year. This report is a compilation of both the Annual and Summary Report's required by O.Reg.170/03

Contents

2022 Annual Drinking Water System Report	3
Drinking Water System Information	3
Does your Drinking Water System Service more than 10,000 people?	3
Is your Annual Report available to the public at no charge on a website?	3
Location where Summary Report required under O.Reg.170/03 Schedule 22 will be available for inspection	3
List of Drinking Water Systems that receive all Drinking Water from the Brighton Springs Drinking Water System:	3
Indicate how you notified system users that your annual report is available, and is free of charge?	3
Description of the Drinking Water System	4
List of water treatment chemical(s) used over the Reporting Period	5
Were any significant expenses incurred ?	5
Description of Equipment Upgrades and breakdown of monetary expenses incurred	5
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 the Spills Action Centre during this Reporting Period:	5
Microbiological Testing completed in accordance with Schedule 10, 11, or 12 of O.Reg.170/03 during this Reporting Period:	5
Operational Testing completed in accordance with Schedule 7, 8, or 9 of O.Reg.170/03 during this Reporting Period:	6
Summary of additional testing and sampling carried out in accordance with the requirement of an Approval, Order, or other Legal Instrument:	6
Summary of Inorganic Parameters tested during this Reporting Period ⁵	7
Summary of Lead Testing under Schedule 15.1 during this Reporting Period:	8
Summary of Organic parameters sampled during this Reporting Period: ⁸	9
Inorganic or Organic parameter(s) that have exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards O.Reg.169/03	10
2022 Summary Report to Council	11
Prescribed Instruments applicable to the Brighton Springs Drinking Water System	11
Compliance with Prescribed Instruments, Acts and Regulations	11
Safe Drinking Water Act	12
Clean Water Act	13
Ontario Water Resources Act	13
2022 Water Quantities and Flow Rates (Raw Water Assessment)	14
2022 Water Quantities and Flow Rates (Treated Water Assessment)	15
Five-year Treated Water Flow evaluation	16

2022 Annual Drinking Water System Report

Drinking Water System Information

Drinking Water System Number:	220000807
Drinking Water System Name:	Brighton Springs Drinking Water System
Drinking Water System Owner:	The Corporation of the Municipality of Brighton
Drinking Water System Category:	January 1, 2022 through December 31, 2022

Does your Drinking Water System Service more than 10,000 people?

No.

Is your Annual Report available to the public at no charge on a website?

Yes, please visit www.brighton.ca

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

Public Works and Environmental Services Administration office
67 Sharp Road
Brighton, ON, K0K 1H0

List of Drinking Water Systems that receive all Drinking Water from the Brighton Springs Drinking Water System:

None.

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

- ✓ Public Access/notice via Municipal website
- ✓ Public access/notice via newspaper
- ✓ Public access/notice via Municipal Social Media Platform(s)

Description of the Drinking Water System

The Brighton Springs Drinking Water System, located at 406 County Road 26, is a Class III Water Distribution & Supply subsystem. The Drinking Water System (DWS) is governed by Drinking Water Works Permit (DWWP) # 135-201 issued on May 21, 2020, and Municipal Drinking Water Licence (MDWL) 135-101 issued on May 21, 2020.

The raw water supply is designated as a Groundwater source (not Groundwater Under the Direct Influence of surface water/GUDI). To continue being designated a Groundwater supply, a Fail-Safe Control System to monitor groundwater hydraulic gradients is required. The Fail-Safe Control System includes deep, intermediate and shallow depth Observation Wells in place adjacent to each of three (3) Production Well's for the purposes of monitoring hydraulic gradients. The Observation Well levels are continuously monitored for possible reductions in hydraulic gradients. Maximum, minimum, and average readings are recorded every 60 minutes. Each Production Well is approximately forty (40) meters deep, and each submersible well pump is permitted to produce 24.9 L/s at TDH of 18.5m. Each day, the duty well is rotated. The second and third wells act as standby pumps in the event water demand requires more water production. Upon well pump start up, water is pumped to a waste detention pond for a pre-determined time to purge the transmission line, then water is allowed to pass through the treatment plant system.

As the Drinking Water System is designated a Groundwater Supply, conventional filtration is not required. Water treatment consists of chlorine disinfection of water supply. The Water Treatment Plant houses a primary and secondary disinfection system consisting of four (4) 100-lb chlorine gas cylinders, chlorinators, weigh scales, vacuum regulators, injectors and appurtenances to facilitate the application of a chlorine solution as water enters two interconnected baffled reservoirs. During normal operation, the reservoirs operate in series, with the ability to isolate one reservoir from the other, if required. The reservoirs have a combined capacity of 5,600 cu.m. Emergency Power is supplied through an 80kW, pad-mounted outdoor standby generator. Water is gravity-fed to residents in Brighton via a single 600mm transmission watermain that runs along County Road 26 before travelling South along County Road 30. The distribution system provides drinking water to approximately 7,000 customers, and Presqu'ile Provincial Park, through a network of approximately 63 km of watermain varying in size from 50mm – 600mm. Watermain material is generally PVC, Asbestos-Cement, Ductile Iron, and Concrete Pressure Pipe. A Pressure monitoring station is located at the entrance to Presqu'ile Provincial Park. The Distribution System has four (4) Pressure Reducing Valves (located strategically in the Distribution System to reduce system pressure) and two (2) Pressure Booster Stations, Lakeview Heights Booster Pumping Station and Dundas Street Booster Pumping Station. Each of the Booster Pumping Stations are located near the north-end of the water distribution system to supplement system pressure to areas of higher elevation.

List of water treatment chemical(s) used over the Reporting Period

- ✓ Chlorine Gas
- ✓ Sodium Bisulphite (used as necessary to dechlorinate water when reservoirs are drained)

Were any significant expenses incurred to:

- ☒ Install required Equipment?
- ☒ Repair required Equipment?
- ☒ Replace required Equipment?

Description of Equipment Upgrades and breakdown of monetary expenses incurred

Preventative Maintenance (PM) activities for inspections, testing and cleaning of equipment is scheduled and completed routinely, along with other lifecycle replacement needs. In addition to the PM activity, the following Capital expenditures were incurred this Reporting Period:

Watermain Reconstruction – Napolian	\$ 144,601.10
Watermain Reconstruction - Addison	\$ 139,667.68
Dundas St Booster Pump Station Maintenance and Repairs	\$ 15,218.33
SCADA Upgrade Down Payment	\$ 26,218.26
Distribution System Piping Repairs	\$ 45,008.88

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 the Spills Action Centre during this Reporting Period:

One (1) Notice under Schedule 16 was submitted on June 20, 2022 for a Category 2 watermain repair. AWQI # 158756

Microbiological Testing completed in accordance with Schedule 10, 11, or 12 of O.Reg.170/03 during this Reporting Period:**Schedule 10 Microbiological Testing Summary**

	Number of Samples	Range of E.Coli (EC) (min-max)	Range of Total Coliform (TC) (min-max)	Number of Heterotrophic Plate Count (HPC)	Range of HPC results (min-max)
Raw Water	156	0 - 0	0 - 0	N/A	N/A
Treated Water	52	0 - 0	0 - 0	52	0 - 10
Distribution	259	0 - 0	0 - 0	104	0 - 122

Operational Testing completed in accordance with Schedule 7, 8, or 9 of O.Reg.170/03 during this Reporting Period:

Schedule 7 Operational Checks Testing Summary

Parameter	Number of Grab Samples	Range of Results (min-max)
Turbidity on Gravity Discharge (NTU ¹)	8,760 ²	0.00 – 2.00
Primary Disinfection FAC ³ , (mg/L)	8,760	0.81 – 1.28
Secondary Disinfection Total Chlorine ⁴ (TRC), (mg/L)	365	1.00 – 1.32
Secondary Disinfection FAC, (mg/L)	365	0.95 – 1.24

Summary of additional testing and sampling carried out in accordance with the requirement of an Approval, Order, or other Legal Instrument:

Condition 5.0 of Schedule C of the MDWL #135-101, issue number: 5, requires the municipality to sample from the By-Pass Detention Pond outlet monthly, and test for Total Suspended Solids and Total Chlorine Residual. This sampling and testing are completed to evaluate the waste discharge environmental impact(s).

Condition 1.5 of the MDWL outlines the maximum allowable annual average concentration of Total Suspended Solids and Total Chlorine residual to be discharged to the environment through the By-pass detention pond. Outlined on pg. 7, are sample results measured over the course of the Reporting Period.

On November 19, 2021, the Municipality of Brighton submitted a request to the MECP District Office to suspend sampling at the By-pass Detention Pond due to safety concerns and requested that the approved sampling location be moved to a sample tap (dedicated to the waste discharge line), located inside the water treatment building. On November 29, 2021, the MECP agreed to this move in sampling location. As of December 21, 2021 samples have been collected from the sample tap inside the building.

¹ NTU stands for Nephelometric Turbidity Unit. This is a unit used to measure the turbidity of a fluid or presence of suspended particles in water.

² If Continuous Monitoring is used to satisfy the monitoring required, this number represents the number of samples collected.

³ FAC stands for Free Available Chlorine. It is defined as the free amount of chlorine available in water to deactivate potentially pathogenic organisms.

⁴ While Total Chlorine residual monitoring is not required by Schedule 7 of O.Reg.170/03, it has been municipal past practice to sample and test Total Residual Chlorine (TRC) at the same time Free Chlorine testing takes place.

MDWL Condition 5.0 Monitoring

Monitoring Month	Total Flow to Waste Detention Pond (cu.m.)	Total Suspended Solids (mg/L)	Total Chlorine Residual (mg/L)
January 11, 2022	461.0	3	0
February 08, 2022	472.1	2	0
March 08, 2022	534.9	3	0
April 5, 2022	1613.7	2	0
May 03, 2022	796.2	2	0
June 14, 2022	679.0	18	0
July 12, 2022	640.5	3	0
August 09, 2022	609.2	2	0
September 13, 2022	474.6	2	0
October 18, 2022	483.0	2	0
November 15, 2022	504.8	4	0
December 13, 2022	516.5	2	0
Annual Average	648.8	3.75	0

Summary of Inorganic Parameters tested during this Reporting Period⁵

Inorganic Compound Results

Parameter	Sample Date (dd/mm/yy)	Result Value	Unit of Measure	Exceedance
Antimony	28-JUL-20	<0.0001	mg/L	No
Arsenic	28-JUL-20	0.001	mg/L	No
Barium	28-JUL-20	0.075	mg/L	No
Boron	28-JUL-20	0.005	mg/L	No
Cadmium	28-JUL-20	<0.000015	mg/L	No
Chromium	28-JUL-20	<0.002	mg/L	No
Mercury	28-JUL-20	<0.00002	mg/L	No
Selenium	28-JUL-20	0.001	mg/L	No
Uranium	28-FEB-20	0.000055	mg/L	No
Sodium	25-JAN-22	5.2	mg/L	No
Fluoride	25-JAN-22	<0.1	mg/L	No

⁵ In accordance with Schedule 13 of O.Reg.170/03, Owners of a raw water supply that is ground water shall collect samples outlined in Schedule 23 of the Regulation, once every **36 months**.

Parameter	Sample Date (dd/mmm/yy)	Result Value	Unit of Measure	Exceedance
Nitrate	08-FEB-22	3.2	mg/L	No
	03-MAY-22	3.2		
	09-AUG-22	2.95		
	01-NOV-22	2.9		
Nitrite	08-FEB-22	0.003	mg/L	No
	03-MAY-22	0.003		
	09-AUG-22	0.003		
	01-NOV-22	0.003		

Summary of Lead Testing under Schedule 15.1 during this Reporting Period:

Section 15.1-5(9) of O.Reg.170/03. Sampling and testing for lead were taken in Winter 2021/2022 and Summer 2022 Sampling Period. pH and Alkalinity samples were collected in accordance with the Regulation on January 24, 2022 and August 22, 2022 as per their respective sampling periods.

Lead Sampling Results

Sampling Period	Location Type	Number of Samples	Range of Lead Results (ug/L)	Number of Exceedances
Winter Sampling Period ⁶ January 24/22	Hydrants	3	0.07 – 0.15	0
Summer Sampling Period ⁷ August 22/22	Hydrants	3	0.01 – 0.75	0

⁶ Winter Sampling Period runs from December 15 through April 15

⁷ Summer Sampling Period runs from June 15 through October 15

Summary of Organic parameters sampled during this Reporting Period:⁸

Organic Compounds results

Parameter	Sample Date (dd/mm/yy)	Result Value	Unit of Measure	Exceedance?
Alachor	28-JUL-20	<0.3	ug/L	No
Atrazine + N-dealkylated metabolites	28-JUL-20	<0.5	ug/L	No
Azinphos-methyl	28-JUL-20	<1	ug/L	No
Benzene	28-JUL-20	<0.5	ug/L	No
Benzo(a)pyrene	28-JUL-20	<0.005	ug/L	No
Bromoxynil	28-JUL-20	<0.5	ug/L	No
Carbaryl	28-JUL-20	<3	ug/L	No
Carbofuran	28-JUL-20	<1	ug/L	No
Carbon Tetrachloride	28-JUL-20	<0.2	ug/L	No
Chlorpyrifos	28-JUL-20	<0.5	ug/L	No
Diazinon	28-JUL-20	<1	ug/L	No
Dicamba	28-JUL-20	<10	ug/L	No
1, 2-Dichlorobenzene	28-JUL-20	<0.5	ug/L	No
1, 4-Dichlorobenzene	28-JUL-20	<0.5	ug/L	No
1, 2-Dichloroethane	28-JUL-20	<0.5	ug/L	No
1, 1-Dichloroethylene (vinylidene chloride)	28-JUL-20	<0.5	ug/L	No
Dichloromethane	28-JUL-20	<5	ug/L	No
2, 4-Dichlorophenol	28-JUL-20	<0.2	ug/L	No
2, 4-Dichlorophenoxy acetic acid (2,4-D)	28-JUL-20	<10	ug/L	No
Diclofop-methyl	28-JUL-20	<0.9	ug/L	No
Dimethoate	28-JUL-20	<1	ug/L	No
Diquat	28-JUL-20	<5	ug/L	No
Diuron	28-JUL-20	<5	ug/L	No
Glyphosate	28-JUL-20	<25	ug/L	No
Malathion	28-JUL-20	<5	ug/L	No
2-Methyl-4- chlorophenoxyacetic acid (MCPA)	28-JUL-20	<10	ug/L	No

⁸ In accordance with Schedule 13 of O.Reg.170/03, Owners of a raw water supply that is ground water shall collect samples outlined in Schedule 23 of the Regulation, once every **36 months**.

Parameter	Sample Date (dd/mm/yy)	Result Value	Unit of Measure	Exceedance?
Metolachlor	28-JUL-20	<3	ug/L	No
Metribuzin	28-JUL-20	<3	ug/L	No
Monochlorobenzene	28-JUL-20	<0.5	ug/L	No
Paraquat	28-JUL-20	<1	ug/L	No
Pentachlorophenol	28-JUL-20	<0.2	ug/L	No
Phorate	28-JUL-20	<0.3	ug/L	No
Picloram	28-JUL-20	<15	ug/L	No
Polychlorinated Biphenyls (PCB)	28-JUL-20	<0.05	ug/L	No
Prometryne	28-JUL-20	<0.1	ug/L	No
Simazine	28-JUL-20	<0.5		
Terbufos	28-JUL-20	<0.5		
Tetrachloroethylene (perchloroethylene)	28-JUL-20	<0.5		
2,3,4, 6-Tetrachlorophenol	28-JUL-20	<0.2		
Triallate	28-JUL-20	<10		
Trichloroethylene	28-JUL-20	<0.5		
2,4, 6-Trichlorophenol	28-JUL-20	<0.2		
Trifluralin	28-JUL-20	<0.5		
Vinyl Chloride	28-JUL-20	<0.2		
Trihalomethanes (THM)	01-NOV-22	8.9		
Haloacetic Acid (HAA)	01-NOV-22	5.3		

Inorganic or Organic parameter(s) that have exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards O.Reg.169/03

None.

2022 Summary Report to Council

In accordance with Schedule 22 requirements outlined in Ontario Regulation 170/03, a Summary Report shall be prepared no later than March 31 for the preceding year and supplied to members of municipal Council.

The Report shall list the requirements of the Act, Regulations, Drinking Water Works Permit, Municipal Drinking Water Licence, and any Orders applicable to the system that were not met at any time during the period covered by the Report.

The Report must also include a summary of the quantities and flow rates of potable (drinking) water supplied during the Reporting Period, including monthly average and maximum daily flows. A comparison of these flows to the Rated Capacity and flow rates approved in the system Drinking Water Works Permit, and Municipal Drinking Water Licence, must also be provided.

Prescribed Instruments applicable to the Brighton Springs Drinking Water System

The following list of Acts and Regulations outline the legal instruments which govern daily operation and management of the facility. These are not to be construed as all encompassing of municipal DWS regulatory compliance requirements.

- Safe Drinking Water Act, 2002;
 - O. Reg. 128/04 – Certification of Drinking Water System Operators and WQA;
 - O. Reg. 170/03 – Drinking Water Systems;
 - O. Reg. 169/03 – Ontario Drinking Water Quality Standards;
 - Brighton Springs DWS, Drinking Water Works Permit # 135-201, Issue: 4
 - Brighton Springs DWS, Municipal Drinking Water Licence # 135-101, Issue: 5
- Ontario Water Resources Act, 1990;
 - Permit to take Water # 3210-9P3LCQ, expires October 15, 2024
- Clean Water Act, 2006;
- Environmental Protection Act, 1990

Councillors wishing to obtain a copy of any Act or Regulation are welcome to contact the Water Department, or visit the Ontario Government e-Law website at www.ontario.ca/Laws.

Compliance with Prescribed Instruments, Acts and Regulations

In addition to the Annual Report dataset outlined in the first section of this report, the following activities occurred throughout the Reporting Period.

Safe Drinking Water Act

Drinking Water Quality Management Standard (DWQMS)

SAI global conducted a Surveillance Audit on April 4, 2022. The Audit Report contained two (2) Minor Non-conformities and, three (3) Opportunities for Improvement. The Environmental Services team has addressed the 2 Minor Non-conformities and will evaluate the opportunities for improvement.

The Municipality's Quality Management System Representative conducted an Internal Audit on December 8, 2022 in accordance with DWQMS requirements. Two (2) OFI's were identified, and one (1) non-conformance was identified. A Corrective Action was issued with a six (6) month timeline for implementation.

In 2023, SAI global will be conducting a System's Audit (desktop audit) in May and will conduct an onsite Re-Accreditation Audit in May, 2024. The municipality's Certificate of Accreditation is set to expire on January 6, 2025.

Annual Compliance Inspection Results

On July 7, 2022, the Ministry of Environment, Conservation and Parks Environmental Officer conducted an inspection of the Brighton Springs Drinking Water System. The facility received a 99.21% compliance inspection rating. A Risk Rating of 0.79% was deducted for an administration error of not having the System Profile updated within 10 days of the departures of Preston Parkinson and Amy Russell. The MECP also recommended the following:

- 1) The Municipality ensure that the water department operational staff are sufficiently resourced ahead of the MECP – Annual Compliance Inspection of your drinking water system to ensure that they are able to produce the MECP requested information by due dates identified.
- 2) That data provided to the Ministry for purposes of assessing compliance mirror the naming formats identified within the documentation request forms sent out ahead of the field inspection.
- 3) That staff make entries into the facility logbooks based upon their duties, activities and be sure to differentiate each others entries.
- 4) That a separate log sheet be created for capturing records with regards to the diesel test run operation. This should include; date, start & end run times, load/no load, operating temps, battery condition, oil levels, operator, comments, issues, ect.
- 5) That the Municipality obtain & review the Annual Brighton Landfill Report (as soon as possible) each year to determine if any details within have direct or suspected impacts to the water quality for the Brighton Springs Drinking Water System and, where concern is raised, discuss those findings immediately with GeoKamp Ltd. prior to taking next steps.

Drinking Water Works Permit and Municipal Drinking Water Licence

The municipality currently operates in accordance with Issue Number: 4 of DWWP #135-201 issued on May 21, 2020, and Issue Number: 5 of MDWL 135-101 issued on May 21, 2020. The municipality's Licence will expire on May 20, 2025.

Clean Water Act

The Source Protection Plan was approved by the Minister of Environment, Conservation and Parks on January 1, 2015. The municipality contracts its Risk Management Official/Risk Manager Inspector duties to Lower Trent Conservation. Some work is required to streamline the internal review and approval process, update by-laws, and municipal Emergency Response procedures. Septic inspection at the Water Treatment Plant (WTP) was conducted March 16, 2023

Ontario Water Resources Act

The Municipality currently takes water from a groundwater supply in accordance with Permit to Take Water number 3210-9P3LCQ issued on October 21, 2014. This Permit will expire on October 15, 2024. The municipality is permitted to take water from all three (3) Production Wells at rates up to 1,494 L/min (or 24.9 L/s) for a total daily taking of 6,453,960 L/day. In order to ensure that the non-GUDI conditions are monitored and maintained, a Fail Safe Control System to monitor groundwater hydraulic gradients was designed for the Brighton Well Field.

Throughout the course of the Reporting Period, a maximum daily taking of 4,512 cu.m./day was recorded on June 20, 2022. This Peak Daily Flow accounts for 70% of the Maximum Allowable Taking. Flow rates were maintained below the Max allowable taking, and each individual Production Well took less than 2,151.3 cubic meters that day.

2022 Water Quantities and Flow Rates (Raw Water Assessment)

2022 Raw Water Quantities and Flow Rates

Month	Average Daily Flow (cu.m./day)	Maximum daily Flow (cu.m./day)	Total Monthly Flow (cu.m.)
January	2,061	2,271	63,888
February	2,167	2,414	60,684
March	2,334	2,456	72,344
April	2,318	2,571	69,541
May	2,910	3,724	90,209
June	3,415	4,512	102,459
July	3,260	4,076	101,057
August	3,277	4,107	101,606
September	2,319	2,857	69,571
October	1,938	2,184	60,071
November	1,855	2,152	55,642
December	1,964	2,178	60,875
Annual Average Water Taking	2,488	Total Raw Water Flow	907,947

2022 Water Quantities and Flow Rates (Treated Water Assessment)

2022 Treated Water Quantities and Flow Rates

Month	Average Daily Flow (cu.m./day)	Maximum daily Flow (cu.m./day)	Total Monthly Flow (cu.m.)
January	2,016.0	2,146.6	62,495.6
February	2,123.3	2,358.7	59,451.1
March	2,283.2	2,450.3	70,780.4
April	2,344.6	2,530.6	70,337.3
May	2,771.7	3,321.7	85,928.2
June	3,338.1	4,351.3	100,142.1
July	3,186.0	3,981.9	98,764.7
August	3,200.3	4,083.0	99,209.0
September	2,268.9	2,658.7	68,066.5
October	1,904.2	2,162.3	59,031.3
November	1,834.1	2,037.0	55,022.5
December	1,914.5	2,152.8	59,350.8
Annual Average Daily Flow	2,432.1	Total Treated Water Flows	888,579.5

The Annual Average Daily Flow of water distributed to customers equates to 2,432.1 cu.m./day during this Reporting Period. Condition 1.1 of the MDWL states that, “the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system, shall not exceed 6,454 cu.m./day”. **The measured Annual Average Daily Flow accounts for 38% of this Rated Capacity.**

The Maximum Daily Flow in this Reporting Period was 4,351.3 cu.m./day. This accounts for 67% of the facility Rated Capacity.

Five-year Treated Water Flow evaluation

Over the past five (5) years, the facility has operated at approximately 38% of its Rated Capacity during Average Daily Flows, and 67% during Peak (Max) Daily flow conditions. Figures in the table below illustrate this.

Five-year Flow Evaluation Compared to Rated Capacity

	2018	2019	2020	2021	2022
Calculated Annual Average Daily Flow (AADF) (cu.m./day)	2,299	2,347	2,649	2,409	2,432
AADF % Rated Capacity	36%	36%	41%	37%	38%
Recorded Maximum Daily Flow (cu/m./day)	4,258	4,122	4,599	4,307	4,351
Maximum Daily Flow % Rated Capacity	66%	64%	71%	67%	67%