

# Long Sault – Ingleside Drinking Water System

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Waterworks # 260066417  
System Category – Large Municipal Residential

## 2025 Annual Water Report

Prepared For: Township of South Stormont

Reporting Period of January 1<sup>st</sup> – December 31<sup>st</sup> 2025

Issued: February 18, 2026

Revision: 0

Operating Authority:



This report has been prepared to satisfy the annual reporting requirements in O.Reg 170/03 Section 11 and Schedule 22

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## Revision History

Date	Revision #	Revision Notes
February 18, 2025	0	Annual report issued

## Report Availability

This system does not serve more than 10,000 residence and the annual reports will be available to residents at the municipal office, located at 2 Mille Roches road, Long Sault, ON. The report will also be available on the municipal website. ([www.southstormont.ca](http://www.southstormont.ca))

## Compliance Report Card

Compliance Event	# of Events
Ministry of Environment Inspections	- February 14, 2025 - 2 Non Conformances - December 3, 2025 - Awaiting report
Ministry of Labour Inspections	- No Ministry of Labour Inspections in 2025
QEMS External Audit	- Certificate of Accreditation issued May 30, 2025 - Full scope and Desk top audits completed
AWQI's/BWA	- BWA – March 17, 2025
Non-Compliance	- No non-compliance in 2025
Spills	- No spills in 2025
Watermain Breaks	- 8 watermain breaks in 2025
Community Complaints	- 5 Water related complaints

## System Process Description

### Raw Source

Water is drawn from the St. Lawrence River through a 360 mm diameter intake pipe equipped with a sodium hypochlorite feed system for zebra mussel control. The raw water intake crib is located off shore, south of the low lift building located on Lakeside dr Long Sault. Three vertical turbine pumps convey water from the low lift building to the water treatment plant located at 15955 Moulinette Island Causeway St,

Long Sault.

### Treatment

Inside the water treatment facility, water undergoes ultra-filtration through membrane cassettes (ZeeWeed membranes, manufactured by Veolia) which are housed in large concrete tanks. There are three concrete filter tanks, each of which contains two ultra-filtration cassettes. Each filter has a chemical clean and backwash system. They are each equipped with a turbidity analyzer. Three granular activated carbon (GAC) contactors provide taste and odour control. Sodium hypochlorite is used for disinfection. A multi-cell baffled clearwell provides chlorine contact time.

#### Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Sodrox

### Distribution

Water is transported through an 11 km transmission main from Long Sault to Ingleside. The water is re-chlorinated at a booster station in Ingleside. A steel elevated storage tank is located in Ingleside with a capacity of 944 m<sup>3</sup>. The watermains are composed of PVC, cast iron and ductile iron. The combination of clear wells, the reservoir and the elevated tanks provide for peak hour demands and fire flows.

## Summary of Non-Compliance

### Adverse Water Quality Incidents

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
March 17, 2025	167513	WTP	Pressure loss due to power loss	Precautionary BWA	170/03	Samples, Changes made to HLP programing, notices we handed out

### Non-Compliance

Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
There was no non-compliance issues reported during the reporting period.				

### Non-Compliance Identified in a Ministry Inspection:

Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
MDWL	Hard copy O&M Manual not readily available	February 14, 2025	O&M Manual was brought on site to the WTP	Complete

Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
170/03	Changes to the system registration information were not provided within ten (10) days of the change	By April 22, 2025, contact information was updated	Updated contact information for the system registration information	Complete

## Community Complaints

Date (dd/mm/yy)	Location	Details of Complaint
17/03/25	Web Complaint	Water Colour
15/10/25	14935 County Rd 2	Water colour
21/11/25	28 Cherry Avenue	Water Colour
28/11/25	5453 County Rd 12	Water Odor
12/01/25	26 Barnhart Dr	Water Pressure

\*Community complaints were received by the Town Staff

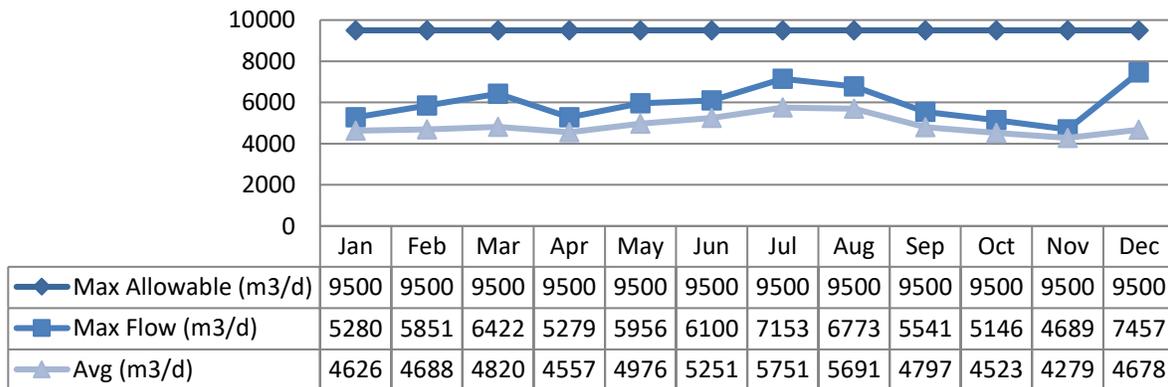
## Flows

### Raw Water Flows

Raw water flows are regulated under the Permit to Take Water (PTTW). The raw flow data for 2025 was submitted to the Ministry electronically under Permit #4278-9XSHHK. The submission confirmation can be found attached in Appendix A.

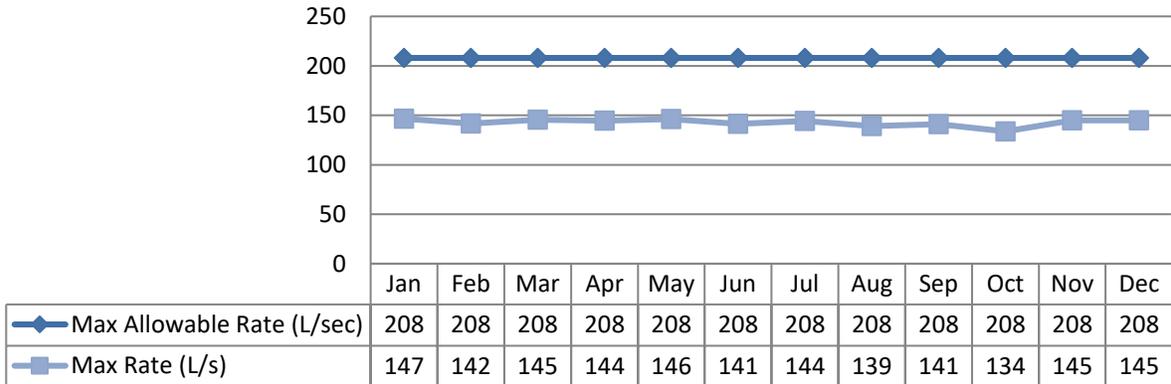
### Raw Flows

Max Allowable Flow - PTTW



Maximum Flow Rates

Max Allowable Rate - PTTW

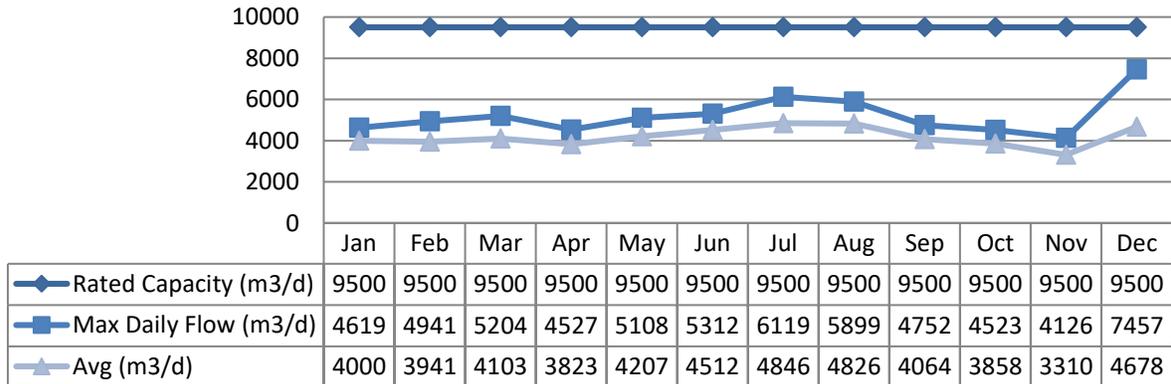


Treated Water Flows

The Treated Water flows are regulated under the Municipal Licence. (MDWL)

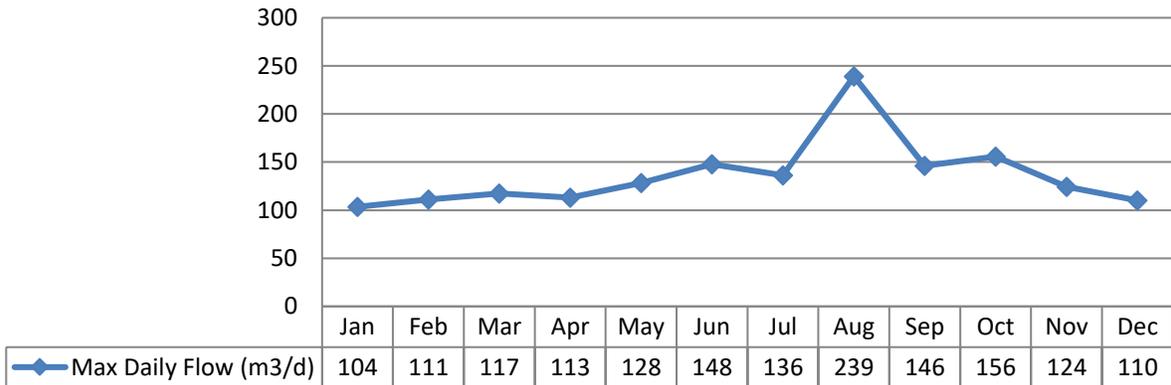
Treated Flows

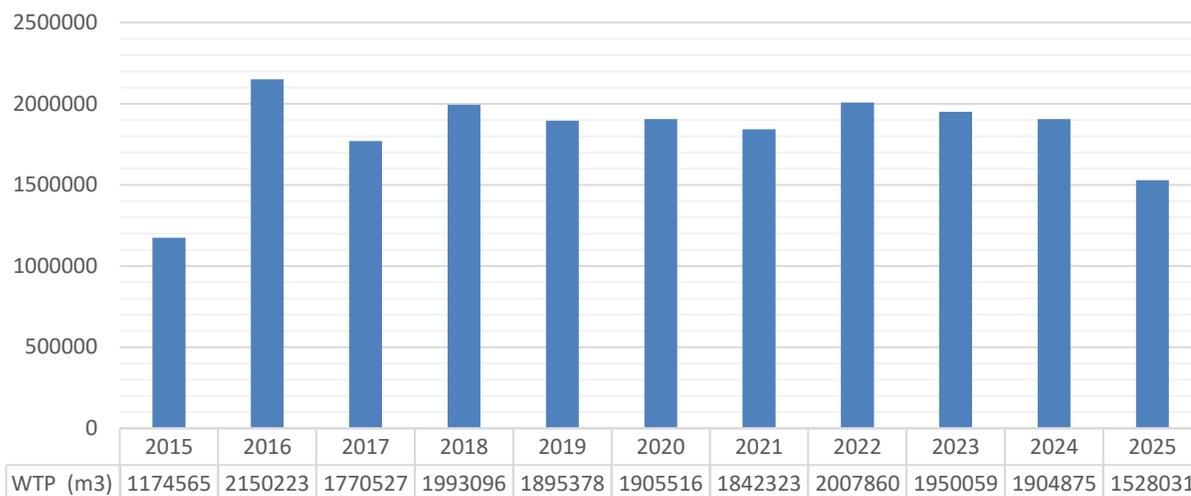
Rated Capacity - MDWL



Treated Flows

Max Rate - MDWL



**Annual Total Flow Comparison****Regulatory Sample Results Summary****Microbiological Testing**

	No. of Samples Collected	Range of E.Coli Results		Range of Total Coliform Results		Range of HPC Results	
		Min	Max	Min	Max	Min	Max
Raw Water	52	0	1	0	29		
Treated Water	53	0	0	0	0	<2	2
Distribution Water	146	0	0	0	0	<2	2

**Operational Testing**

	No. of Samples Collected	Range of Results		
		Minimum	Average	Maximum
Turbidity, On-line (NTU) - RW	8760	N/A	N/A	10
Turbidity, On-Line (NTU) - TW	8760	0.05	0.10	0.45
Turbidity, On-Line (NTU) - Filt1	8760	0.02	N/A	0.37
Turbidity, On-Line (NTU) - Filt2	8760	0.02	N/A	0.15
Turbidity, On-Line (NTU) - Filt3	8760	0.02	N/A	0.09
Free Chlorine Residual, On-Line (mg/L) - TW	8760	0.49	1.33	2.17

NOTE: spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O.Reg 170/03

**Inorganic Parameters**

These parameters are tested as a requirement under 170/03. Sodium and Fluoride are required to be tested every 60 months. Nitrate and Nitrite are tested quarterly and the metals are tested annually as

required under 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O.Reg 169/03
- MDL = Method Detection Limit

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Antimony: Sb (ug/L) - TW	2025/05/07	0.1	6	No	No
Arsenic: As (ug/L) - TW	2025/05/07	0.7	10	No	No
Barium: Ba (ug/L) - TW	2025/05/07	25	1000	No	No
Boron: B (ug/L) - TW	2025/05/07	23	5000	No	No
Cadmium: Cd (ug/L) - TW	2025/05/07	< MDL 0.015	5	No	No
Chromium: Cr (ug/L) - TW	2025/05/07	< MDL 1	50	No	No
Mercury: Hg (ug/L) - TW	2025/05/07	< MDL 0.02	1	No	No
Selenium: Se (ug/L) - TW	2025/05/07	< MDL 1	50	No	No
Uranium: U (ug/L) - TW	2025/05/07	0.33	20	No	No
<b>Additional Inorganics</b>					
Nitrate : (mg/L) - TW	2025/02/12	0.31	10	No	No
Nitrate : (mg/L) - TW	2025/05/07	0.33	10	No	No
Nitrate : (mg/L) - TW	2025/08/21	0.17	10	No	No
Nitrate : (mg/L) - TW	2025/11/18	0.22	10	No	No
Nitrite : (mg/L) - TW	2025/02/12	0.07	1	No	No
Nitrite : (mg/L) - TW	2025/05/07	< MDL 0.05	1	No	No
Nitrite : (mg/L) - TW	2025/08/21	0.14	1	No	No
Nitrite : (mg/L) - TW	2025/11/18	< MDL 0.05	1	No	No
*There is no MAC for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.					

#### Schedule 15 Sampling:

The Schedule 15 Sampling is required under O.Reg 170/03. This system is under reduced sampling. The last lead sample was taken in October 2025 and the next Lead sampling is due between Next Sample - (Dec 15 - Apr 15 2028) (Jun 15 - Oct 15 2028).

Location Type	Number of Samples	Range of Results		MAC (ug/L)	Number of Exceedances
		Minimum	Maximum		
Distribution - Lead - Pb: (µg/l)	2	0.1	0.1	10	0
Distribution - pH Field IH	6	7.8	8.13	N/A	N/A

Location Type	Number of Samples	Range of Results		MAC (ug/L)	Number of Exceedances
		Minimum	Maximum		
Distribution - pH Lab	6	7.27	7.68	N/A	N/A
Alkalinity	3	94	94	N/A	0

### Organic Parameters

These parameters are tested annually as a requirement under O.Reg 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

MDL = method Detection Limit

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	# of Exceedances	
				MAC	1/2 MAC
1,1-Dichloroethylene (ug/L)-TW	2025/05/07	< MDL 0.5	14	No	No
1,2-Dichlorobenzene (ug/L)-TW	2025/05/07	< MDL 0.5	200	No	No
1,2-Dichloroethane (ug/L)-TW	2025/05/07	< MDL 0.5	5	No	No
1,4-Dichlorobenzene (ug/L)-TW	2025/05/07	< MDL 0.5	5	No	No
2,3,4,6-Tetrachlorophenol (ug/L)-TW	2025/05/07	< MDL 0.2	100	No	No
2,4,6-Trichlorophenol (ug/L)-TW	2025/05/07	< MDL 0.2	5	No	No
2,4-Dichlorophenol (ug/L)-TW	2025/05/07	< MDL 0.2	900	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L)-TW	2025/05/07	< MDL 1	100	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L)-TW	2025/05/07	< MDL 10	100	No	No
Alachlor (ug/L) -TW	2025/05/07	< MDL 0.3	5	No	No
Atrazine + N-dealkylated metabolites (ug/L)-TW	2025/05/07	< MDL 0.5	5	No	No
Azinphos-methyl (ug/L)-TW	2025/05/07	< MDL 1	20	No	No
Benzene (ug/L)-TW	2025/05/07	< MDL 0.5	1	No	No
Benzo(a)pyrene (ug/L)-TW	2025/05/07	< MDL 0.006	0.01	No	Yes
Bromoxynil (ug/L)-TW	2025/05/07	< MDL 0.5	5	No	No
Carbaryl (ug/L)-TW	2025/05/07	< MDL 3	90	No	No
Carbofuran (ug/L) -TW	2025/05/07	< MDL 1	90	No	No
Carbon Tetrachloride (ug/L) -TW	2025/05/07	< MDL 0.2	2	No	No
Chlorpyrifos (ug/L) -TW	2025/05/07	< MDL 0.5	90	No	No
Diazinon (ug/L)-TW	2025/05/07	< MDL 1	20	No	No
Dicamba (ug/L)-TW	2025/05/07	< MDL 1	120	No	No
Dichloromethane (Methylene Chloride) (ug/L)-TW	2025/05/07	< MDL 5	50	No	No
Diclofop-methyl (ug/L)-TW	2025/05/07	< MDL 0.9	9	No	No
Dimethoate (ug/L)-TW	2025/05/07	< MDL 1	20	No	No

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	# of Exceedances	
				MAC	1/2 MAC
Diquat (ug/L)-TW	2025/05/07	< MDL 5	70	No	No
Diuron (ug/L)-TW	2025/05/07	< MDL 5	150	No	No
Glyphosate (ug/L)-TW	2025/05/07	< MDL 25	280	No	No
Malathion (ug/L)-TW	2025/05/07	< MDL 5	190	No	No
Metolachlor (ug/L)-TW	2025/05/07	< MDL 3	50	No	No
Metribuzin (ug/L)-TW	2025/05/07	< MDL 3	80	No	No
Monochlorobenzene (Chlorobenzene) (ug/L)-TW	2025/05/07	< MDL 0.5	80	No	No
Paraquat (ug/L)-TW	2025/05/07	< MDL 1	10	No	No
PCB (ug/L)-TW	2025/05/07	< MDL 0.05	3	No	No
Pentachlorophenol (ug/L)-TW	2025/05/07	< MDL 0.2	60	No	No
Phorate (ug/L)-TW	2025/05/07	< MDL 0.3	2	No	No
Picloram (ug/L)-TW	2025/05/07	< MDL 5	190	No	No
Prometryne (ug/L)-TW	2025/05/07	< MDL 0.1	1	No	No
Simazine (ug/L)-TW	2025/05/07	< MDL 0.5	10	No	No
Terbufos (ug/L)-TW	2025/05/07	< MDL 0.5	1	No	No
Tetrachloroethylene (ug/L)-TW	2025/05/07	< MDL 0.5	10	No	No
Triallate (ug/L) -TW	2025/05/07	< MDL 10	230	No	No
Trichloroethylene (ug/L)-TW	2025/05/07	< MDL 0.5	5	No	No
Trifluralin (ug/L)-TW	2025/05/07	< MDL 0.5	45	No	No
Vinyl Chloride (ug/L)-TW	2025/05/07	< MDL 0.2	1	No	No
HAA Total (ug/L) Annual Average-DW	2025	14	80	No	No
Trihalomethane: Total (ug/L) Annual Average-DW	2025	57	100	No	Yes

### Additional Legislated Samples

Document	Parameter	Limit (mg/L)	Result (mg/L)
MDWL	Backwash Pond Suspended Solids	Annual Average < 25	5.08
MDWL	Backwash Pond Total Chlorine	Maximum mg/L	0.02
MDWL	Backwash Pond pH	6.5 – 8.5	7.50 -7.99

### Major Maintenance Summary

Work Order	Description
N/A	Raw intake, low lift well, clearwell inspections (LS & ING)
4335961	Chlorine injector platform installed
4380899	Replace train #2 flow meter

Work Order	Description
N/A	New PSV installed LS/Ingleside distribution system
4335937	Valves – Process Valves and Actuators replaced
4335940	Inspection WTP Clear Wells
4748650	Water Intake Crib and Cl2 Diffuser Inspection
4335766	Turbidity Meters Purchased
4335952	SCADA Repairs & Computer work
4657578	Generator Services Complete

### Distribution Maintenance

Date	Location Reference	Category	Details	Corrective Repair
27/02/25	21 St Laurent Ave, Long Sault	1	6" ductile iron, Corrosion	Repair clamp
19/03/25	2 Structured Products Dr, Long Sault	1	10" ductile iron, Circumferential break	Repair clamp
28/07/25	16045 CTY Rd 2, Long Sault	1	10" ductile iron, Corrosion	Repair clamp
29/11/25	43 Dickinson Dr, Ingleside	1	8" ductile iron, Circumferential break	Repair clamp
04/12/25	10 Saunders Ave, Long Sault	1	6" ductile iron Circumferential break	Repair clamp
05/12/25	37 St Laurent, Long Sault	1	6" ductile iron, Circumferential break	Repair clamps
27/12/25	68 Saunders Ave, Long Sault	1	6" ductile iron, Circumferential break	Repair clamps
27/12/25	42 Saunders Ave, Long Sault	1	6" ductile iron, Circumferential break	Repair clamps

# Appendix A

## Appendix A - WTRS Data and Submission Confirmation



Ministry of the Environment,  
Conservation and Parks

| [WT DATA](#) | [REPORTS](#) | [SEARCH WT DATA](#) | [ADMINISTRATION](#) | [USER PROFILE](#) | [CONTACT US](#) | [HELP](#) | [HOME](#) | [LOGOUT](#) |

Location: [WTRS](#) / [WT DATA](#) / [Edit Submitted WT Records](#) WTRS-WT-008

**Water Taking Data submitted successfully.**

**Confirmation:**

Thank you for submitting your water taking data online.

Permit Number: 4278-9XSHHK  
Permit Holder: THE CORPORATION OF THE TOWNSHIP OF SOUTH STORMONT.  
Received on: Feb 4, 2026 8:59 AM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.



Ministry of the Environment,  
Conservation and Parks

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Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#) WTRS-WT-008

**Water Taking Data submitted successfully.**

**Confirmation:**

Thank you for submitting your water taking data online.

Permit Number: 0286-DKSJDJ  
Permit Holder: THE CORPORATION OF THE TOWNSHIP OF SOUTH STORMONT.  
Received on: Feb 4, 2026 9:00 AM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.