



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

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February 24, 2025

Alton Hobbs, Chief Administrative Officer  
The Corporation of the Township of Assiginack  
156 Arthur St. P.O. Box 238  
Manitowaning, Ontario P0P 1N0

Re: O. Reg. 170 Section 11 & Schedule 22 Annual Reporting under SDWA  
O. Reg 387 Section 9 Annual Reporting under OWRA  
For the Sunsite Estates Water Treatment Plant  
Waterworks No.: 220008471

Dear Mr. Hobbs;

Attached are the 2024 Annual and Summary Reports for the Sunsite Estates Water System. The Reports are based on information provided by Operators as of February 20, 2025 in accordance with Section 11 and Schedule 22 of O. Reg. 170/03, under the Safe Drinking Water Act. A confirmation of submission of the PTTW reporting, as required by O.Reg 387, is included as part of the report.

Please note that any Orders that you have received directly from the MECP, or any major expense incurred by the Municipality which are not listed, should be reviewed and added to the report.

As per Schedule 22 of O. Reg. 170/03, this Summary Report is to be provided to the members of the municipal council no later than March 31, 2025. Please ensure this distribution occurs.

Section 12 of O. Reg. 170/03, requires both the Summary Report and the Annual Report be made available for inspection by any member of the public during normal business hours, without charge. The reports should be made available for inspection at the office of the municipality or at a location that is reasonably convenient to the users of the water system.

Sincerely,

Keith Stringer  
Senior Operations Manager  
Ontario Clean Water Agency  
(705)626-5557

RECEIVED  
FEB 27 2025

# *Sunsite Estates*

# *Drinking Water System*

Small Municipal Residential Drinking Water System

*January 1, 2024 – December 31, 2024*

***O.Reg 170/03 Schedule 22 Summary Report***  
***O.Reg 170/03 Section 11 Annual Report***  
***&***  
***O.Reg 387/04 Annual Record of Water Taking***

Prepared by the Ontario Clean Water Agency  
for The Corporation of the Municipality of Assiginack



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



Drinking-Water System Number:	210008426
Drinking-Water System Name:	Sunsite Estates Drinking Water System
Drinking-Water System Owner:	Corporation of the Municipality of Assiginack
Drinking-Water System Category:	Small Municipal Residential

## **SECTION 1: INTRODUCTION**

This document is prepared in accordance with Section 11 and Schedule 22 of O.Reg.170/03 under the Safe Drinking Water Act and with Section 9 of O.Reg.387/04 under the Ontario Water Resources Act. The reports have been prepared by the Ontario Clean Water Agency. Acronyms and definitions are found at the end of the report. A copy of the Summary Report must be provided to the members of the municipal council by March 31, 2025.

## **SECTION 2: REQUIREMENTS OF THE REPORTS**

### **Schedule 22 Report**

The report must list the requirements of the Act, the regulations, the system's approval and any order that the system **failed to meet** at any time during the period covered by the report. It must also specify the duration of the failure, and for each failure referred to, describe the measures that were taken to correct the failure.

For the purpose of enabling the owner of the system to assess the rated capability of their system to meet existing and future planned water uses, the following information is required to be included in this report:

- A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.
- A comparison of the summary to the rated capacity and flow rates approved in the systems approval.

### **Section 11 Report**

The annual report must contain the following:

- A brief description of the drinking water system and a list of chemicals used by the system.
- A description of any major expenses incurred during the period covered by the report to install, repair or replace required equipment.
- A summary of all adverse water quality incidents (AWQI) reported to the Ministry
- A summary of corrective actions taken in response all AWQIs
- A summary of all test results required under the regulation, under an approval, municipal drinking water licence or order, including an OWRA order.
- A statement of where a Schedule 22 report will be available for inspection.

The report must be prepared by February 28th of the year following the year to which the report pertains.

### **Regulation 387 Report**

On or before March 31 in every year, every holder of a permit to take water (PTTW) shall submit to a Director the data collected and recorded for the previous year.

A record of annual water taking can be found in **Appendix A**.



## SECTION 3: SCHEDULE 22 REPORT

### Flows - Treated

In accordance with the Municipal Drinking Water License (MDWL), the Sunsite Estates WTP shall not be operated to exceed a maximum daily volume of 220 m<sup>3</sup>/d to the distribution system.

The daily treated water maximum flow was 104.40 m<sup>3</sup> in June and represents 47.5% of capacity. In 2024, the total volume of water sent to the distribution system was 18,612.11 m<sup>3</sup>

The quantity of treated water supplied during the reporting period **did not** exceed the rated maximum capacity.

Treated Water Flow Data				
Month	Total Monthly Flow (m <sup>3</sup> )	Average Flow (m <sup>3</sup> /d)	Maximum Flow (m <sup>3</sup> /d)	Limit Rated Capacity m <sup>3</sup> /d
January	2,516.79	81.19	89.35	220
February	1,191.31	41.08	45.45	220
March	1,291.42	41.66	50.58	220
April	1,241.11	41.37	45.10	220
May	1,552.58	50.08	66.14	220
June	1,787.62	59.59	104.40	220
July	1,747.98	58.27	79.62	220
August	1,916.30	61.82	81.68	220
September	1,352.16	45.07	66.06	220
October	1,340.13	43.23	51.15	220
November	1,291.35	43.05	47.03	220
December	1,383.35	44.62	57.05	220
<b>Total</b>	18,612.11			220
<b>Average</b>	1,551.01	50.92		220
<b>Maximum</b>	2,516.79		104.40	220

### Flows - Raw

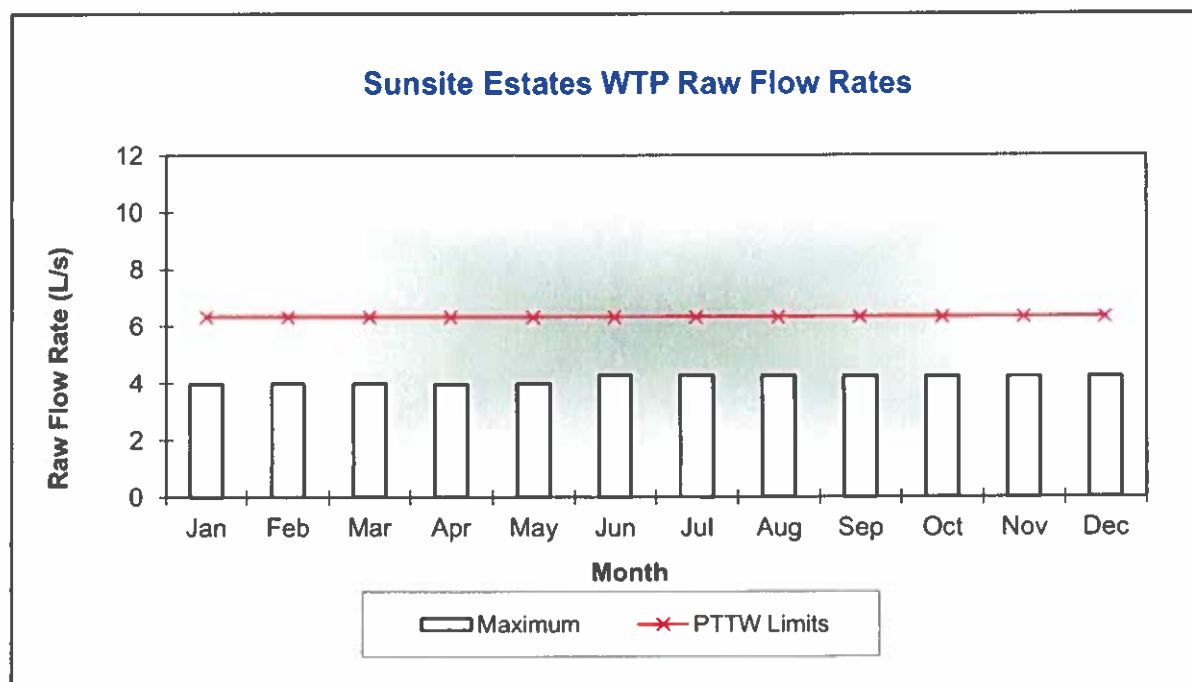
Daily raw maximum instantaneous flow is stated in the PTTW at a maximum rate of flow of 6.32 L/s and a maximum daily volume of 276.48 m<sup>3</sup>/d.

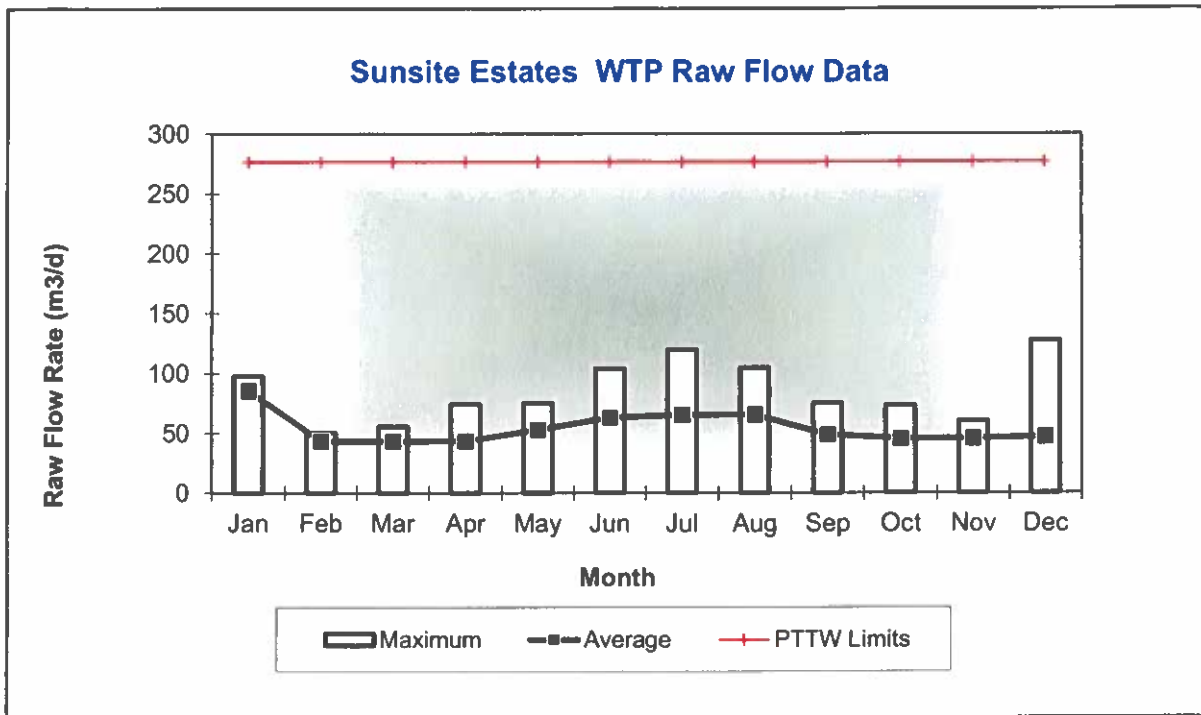
The average monthly raw water flow for this reporting period was 54.06 m<sup>3</sup>/d. The maximum daily flow was 127.48 m<sup>3</sup>/d representing 46% of water taking limits. In 2024, the total volume of water taken from the environment was 19,822.58 m<sup>3</sup>.

The quantity of raw water taken **did not** exceed any limits stipulated within the PTTW.



RAW WATER FLOW DATA - TOTAL ALL SOURCES						
Month	Total Monthly Flow ( m3)	Average Flow (m3/3573d)	Maximum Flow (m3/d)	Maximum Flow Rate (L/s)	Limits	
					L/s (PTTW)	m³/d (PTTW)
January	2,649.88	85.48	97.85	3.98	6.32	276.48
February	1,251.16	43.14	50.38	3.99	6.32	276.48
March	1,338.39	43.17	55.57	3.99	6.32	276.48
April	1,308.35	43.61	74.29	3.97	6.32	276.48
May	1,635.68	52.76	75.05	3.98	6.32	276.48
June	1,890.21	63.01	103.84	4.28	6.32	276.48
July	2,027.98	65.42	119.73	4.28	6.32	276.48
August	2,031.74	65.54	104.77	4.26	6.32	276.48
September	1,459.09	48.64	74.98	4.25	6.32	276.48
October	1,407.90	45.42	73.12	4.24	6.32	276.48
November	1,367.15	45.57	60.38	4.23	6.32	276.48
December	1,455.04	46.94	127.48	4.23	6.32	276.48
Total	19,822.58					
Average		54.06				
Maximum			127.48	4.28	6.32	276.48





## Annual Raw Water Review

Raw Water Taking	Total Taking m3/d	Average Day m3/d	Max Day m3/d	Max Day % of PTTW allowable 276.48 m3/d
2024	19,822.58	54.06	127.48	46%
2023	29,730.46	81.45	144.94	52%
2022	29,295.8	80.26	244.7	88.5%
2021	24,390.13	66.82	146.72	53%
2020	21,928.56	59.91	161.18	58%

## System Failures and Corrective Actions

The latest inspection of the drinking water facility took place on [September 26, 2024](#). The facility scored [0/485](#) providing a rating of [100%](#)

The following non-compliances were reported to the MECP during the [2024](#) reporting period:

1. The WTP operator completed the monthly filter efficiency review for the Sunsite Estates WTP for the month of May after the required 72 hour window. The review was completed on Tuesday, June 4<sup>th</sup>, 2024 and all filters passed. The reason for the late review is that we were short staffed on Monday June 3<sup>rd</sup>, 2024 and the operator was dealing with a low chlorine alarm at another facility. The PDF sampling calendar, which is the document the operator was using to determine which sampling needed to be performed on any given day, was printed and located at the plant. As the operator did not physically





attend the Sunsite Estates WTP on Monday, June 3<sup>rd</sup> the review was missed. We discovered that the operator had not been given access to the online Outlook sampling calendars and we have since rectified that so that the required sampling for a facility can be viewed online from offsite going forward.

2. On Monday, June 3<sup>rd</sup> the operator completed a required 72 hour data review for the Sunsite Estates WTP 40 minutes past the allowable 72 hour timeframe. The review was completed at 13:03 and the previous review had been completed on Friday, May 31<sup>st</sup> at 12:23. The reason for the late review is that we were short staffed on Monday June 3<sup>rd</sup>, 2024 and the operator was dealing with a low chlorine alarm at another facility.

#### AWQIs reported to the Ministry

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
15-Mar-24	N/A	N/A	N/A	AWQI # 164639 - Eastlink internet outage causing facility to have no working alarms. We had operators monitoring the sites until the internet was restored and alarms were tested and working properly again.	15-Mar-24
29-Jul-24	N/A	N/A	N/A	AWQI # 165826 - The alarm dialer malfunctioned was not communicating with the PLC resulting in alarms not calling out properly. We resulted to filling the clearwell at the end of the day and not making water due to not being able to be notified by alarms. Plant was stopped from making water over night. Operator went early into the plant to monitor water making and to start the plant. Electrician was on site to fix the alarm system which was concluded before the end of the day. No water was made without an operator on site ensuring it met all standards.	30-Jul-24
18-Aug-24	Pressure	0	PSI	AWQI # 166024 – During a major power outage the water plant generator failed to start resulting in a pressure loss in the system. It was determined that the generator issues was related to a battery issue. A drinking water advisory was issued by the MOH. Following the issue of the advisory the people of the town were notified and fresh water was made available, including a hose. Once power was restored the distribution system was flushed and numerous chlorine residual samples were taken. Two sets of two samples were taken and sent to TestMark labs as requested by the health unit. Following both sets of sample results coming in non detect for EC/TC the health unit was notified and the advisory was lifted.	21-Aug-24



## **SECTION 4: SECTION 11 REPORT**

### **Information to be provided**

Population Served	65
Does your Drinking-Water System serve more than 10,000 people?	No
Is your annual report available to the public at no charge on a web site on the Internet?	Yes
Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.	Township of Assignack, Municipal Office 156 Arthur Street Sunsite Estates, Ontario P0P 1N0
Number of Designated Facilities served:	0
Did you provide a copy of your annual report to all Designated Facilities you serve?	NA
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?	NA
List all Drinking-Water Systems (if any), and their DWS Number which receive all of their drinking water from your system:	N/A
Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?	N/A
Indicate how you notified system users that your annual report is available, and is free of charge.	Public access/notice via the web, newspaper and public library
Indicate if you notified system users that your annual report is available and is free of charge using an alternate method	Yes

Facility consists of an Evoqua Filter membrane filtration plant supplying water to Sunsite Estates drawing water from Manitowaning Bay, Lake Huron. The low lift building supplies water to the WTP via a single LLP. The LL Building also contains a sodium hypochlorite dosing system for seasonal control of zebra mussels. The water treatment plant consists of two membrane filter trains a chlorine contact reservoir, clear well and three submersible high lift pumps supplying the village. Primary disinfection is achieved through the use of liquid sodium hypochlorite. The Municipal Drinking Water License has a capacity of 220m<sup>3</sup>/d. Waste water sludge is stored on site and periodically removed to disposal while the supernatant is discharged back to the Lake.

The utility serves the Town of Sunsite Estates and has approximately 2.0 kilometers of 4 inch PVC pipeline, there are no hydrants and approximately 3 valves. The Sunsite Estates Water Treatment Facility's distribution system includes various chlorine residual checkpoints.





## Chemicals Used

Sodium Hypochlorite (12%)	Disinfection and clean-in-place
Sodium Hydroxide	Neutralization of wastewater
Citric Acid	Clean-in-place
Calcium Thiosulphate (Captor)	Dechlorination of reject water & wastewater

## Significant Expenses

Significant expenses incurred to

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

Work Order	Date Completed	Comment
3765156	18-Jun-24	Low pressure switch installation – \$4,574.68
3702942	18-Jun-24	Low lift pump troubleshooting/repair– \$3,634.26
	22-Nov-24	Ethernet switch for SCADA system, replace & rebuild SCADA computer software & hard drives - \$10,792.00

## Adverse Water Quality Incidents

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

Incident Date	Parameter	Result	Unit of Measure	Comment / Corrective Action	Corrective Action Date
15-Mar-24	N/A	N/A	N/A	AWQI # 164639 - Eastlink internet outage causing facility to have no working alarms. We had operators monitoring the sites until the internet was restored and alarms were tested and working properly again.	18-Mar-24
29-Jul-24	N/A	N/A	N/A	AWQI # 165826 - The alarm dialer malfunctioned was not communicating with the PLC resulting in alarms not calling out properly. We resulted to filling the clearwell at the end of the day and not making water due to not being able to be notified by alarms. Plant was stopped from making water over night. Operator went early into the plant to monitor water making and to start the plant. Electrician was on site to fix the alarm system which was concluded before the end of the day. No water was made without an operator on site ensuring it met all standards.	30-Jul-24
18-Aug-24	Pressure	0	PSI	AWQI # 166024 – During a major power outage the water plant generator failed to start resulting in a pressure loss in the system. It was determined that the generator issues was related to a battery issue. A drinking water advisory was issued by the MOH. Following the issue of the	21-Aug-24



				advisory the people of the town were notified and fresh water was made available, including a hose. Once power was restored the distribution system was flushed and numerous chlorine residual samples were taken. Two sets of two samples were taken and sent to TestMark labs as requested by the health unit. Following both sets of sample results coming in non detect for EC/TC the health unit was notified and the advisory was lifted.	
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### Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03.

	No. of Samples Collected	Range of E.Coli		Range of Total Coliform Results		Number of HPC Samples	Range of HPC Results	
		Min #	Max #	Min #	Max #		Min #	Max #
Raw Water	N/A							
Treated Water	N/A							
Distribution	26	0	0	0	0	26	0	10

### Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03

	No. of Samples Collected	Range of Results		Units of Measure
		Minimum	Maximum	
Turbidity – Filter 1	8760	0	0.23	(NTU)
Turbidity – Filter 2	8760	0	1.00	(NTU)
Free Chlorine Residual – TW	8760	0	1.72	(mg/L)
Free Chlorine Residual, Distribution	105	1.10	2.13	(mg/L)

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

Date of legal instrument issued	Parameter and limits	Month Sampled	Day Sampled	Result	Running Annual Average	Unit of Measure
254-101  Issue Date: January 24, 2022  Expiry Date: January 23, 2027	<b>Filter Backwash Total Suspended Solids</b>  <b>25 mg/L Running Annual Average (RAA)</b>  <b>Quarterly samples</b>  *RAA is calculated using all results from samples taken in the last 4 quarters divided by the number of samples.	Jan	15	7	2	mg/L
		Feb				mg/L
		Mar				mg/L
		Apr	24	5	1	mg/L
		May				mg/L
		Jun				mg/L
		Jul	29	4	1	mg/L
		Aug				mg/L
		Sep				mg/L
		Oct				mg/L
		Nov	26	4	1	mg/L
		Dec				mg/L



Date of legal instrument issued	Parameter and limits	Month Sampled	Day Sampled	Result	Running Annual Average	Unit of Measure
254-101  Issue Date: January 24, 2022  Expiry Date: January 23, 2027	<b>Filter Backwash Total Chlorine Residual</b>  <b>0.02 mg/L Running Annual Average (RAA)</b>  <b>Quarterly samples</b>  *RAA is calculated using all results from samples taken in the last 4 quarters divided by the number of samples. Results in red exceed the MDWL RAA limit.	Jan	15	0.03	0.02	mg/L
		Feb				mg/L
		Mar				mg/L
		Apr	24	0.03	0.03	mg/L
		May				mg/L
		Jun				mg/L
		Jul	29	0.01	0.02	mg/L
		Aug				mg/L
		Sep				mg/L
		Oct				mg/L
		Nov	26	0.02	0.02	mg/L
		Dec				mg/L

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

TREATED WATER	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Antimony: Sb (ug/L) - TW	2024/01/15	< MDL 0.6	6.0	No	No
Arsenic: As (ug/L) - TW	2024/01/15	0.3	25.0	No	No
Barium: Ba (ug/L) - TW	2024/01/15	12.4	1000.0	No	No
Boron: B (ug/L) - TW	2024/01/15	18	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2024/01/15	0.005	5.0	No	No
Chromium: Cr (ug/L) - TW	2024/01/15	0.11	50.0	No	No
Mercury: Hg (ug/L) - TW	2024/01/15	< MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2024/01/15	0.09	10.0	No	No
Uranium: U (ug/L) - TW	2024/01/15	0.166	20.0	No	No

TREATED WATER	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Fluoride (mg/L) - TW	2024/01/15	< MDL 0.06	1.5	No	No
Nitrate : (mg/L) - TW	2024/01/15	0.162	10	No	No
Nitrate : (mg/L) - TW	2024/04/15	0.157	10	No	No
Nitrate : (mg/L) - TW	2024/07/29	0.145	10	No	No
Nitrate : (mg/L) - TW	2024/10/21	0.137	10	No	No
Nitrite : (mg/L) - TW	2024/01/15	< MDL 0.003	1	No	No
Nitrite : (mg/L) - TW	2024/04/15	< MDL 0.003	1	No	No
Nitrite : (mg/L) - TW	2024/07/29	< MDL 0.003	1	No	No
Nitrite : (mg/L) - TW	2024/10/21	< MDL 0.003	1	No	No
Sodium / Na (mg/L) - TW	2024/01/15	7.57	20*	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.



### Summary of Lead testing under Schedule 15.1 during this reporting period

Location Type	Number of Samples	Range of Results		MAC (ug/L)	Number of Exceedances
		Minimum	Maximum		
Distribution - Lead Results (ug/L)	2	0.1	0.27	10	0
Distribution - Alkalinity (mg/L)	2	68	74	n/a	n/a
Distribution - pH In-House	2	6.84	8.03	n/a	n/a

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

TREATED WATER	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
Alachlor (ug/L) - TW	2024/01/15	< MDL 0.33	5.0	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2024/01/15	< MDL 0.41	5.0	No	No
Azinphos-methyl (ug/L) - TW	2024/01/15	< MDL 0.35	20.0	No	No
Benzene (ug/L) - TW	2024/01/15	< MDL 0.36	1.0	No	No
Benzo(a)pyrene (ug/L) - TW	2024/01/15	< MDL 0.2	0.01	No	No
Bromoxynil (ug/L) - TW	2024/01/15	< MDL 0.25	5.0	No	No
Carbaryl (ug/L) - TW	2024/01/15	< MDL 0.15	90.0	No	No
Carbofuran (ug/L) - TW	2024/01/15	< MDL 0.19	90.0	No	No
Carbon Tetrachloride (ug/L) - TW	2024/01/15	< MDL 0.12	2.0	No	No
Chlorpyrifos (ug/L) - TW	2024/01/15	< MDL 0.02	90.0	No	No
Diazinon (ug/L) - TW	2024/01/15	0.02	20.0	No	No
Dicamba (ug/L) - TW	2024/01/15	< MDL 0.05	120.0	No	No
1,2-Dichlorobenzene (ug/L) - TW	2024/01/15	< MDL 0.32	200.0	No	No
1,4-Dichlorobenzene (ug/L) - TW	2024/01/15	< MDL 0.004	5.0	No	No
1,2-Dichloroethane (ug/L) - TW	2024/01/15	< MDL 0.33	5.0	No	No
1,1-Dichloroethylene (ug/L) - TW	2024/01/15	< MDL 0.05	14.0	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2024/01/15	< MDL 0.01	50.0	No	No
2,4-Dichlorophenol (ug/L) - TW	2024/01/15	< MDL 0.17	900.0	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2024/01/15	< MDL 0.02	100.0	No	No
Diclofop-methyl (ug/L) - TW	2024/01/15	< MDL 0.02	9.0	No	No
Dimethoate (ug/L) - TW	2024/01/15	< MDL 0.2	20.0	No	No
Diquat (ug/L) - TW	2024/01/15	< MDL 0.35	70.0	No	No
Diuron (ug/L) - TW	2024/01/15	< MDL 0.4	150.0	No	No
Glyphosate (ug/L) - TW	2024/01/15	< MDL 0.06	280.0	No	No
Malathion (ug/L) - TW	2024/01/15	< MDL 1	190.0	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (mg/L) - TW	2024/01/15	< MDL 0.03	50.0	N/A	N/A
Metolachlor (ug/L) - TW	2024/01/15	< MDL 1	80.0	No	No
Metribuzin (ug/L) - TW	2024/01/15	< MDL 0.02	80.0	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2024/01/15	< MDL 0.01	10.0	No	No
Paraquat (ug/L) - TW	2024/01/15	< MDL 0.02	3.0	No	No



PCB (ug/L) - TW	2024/01/15	< MDL 0.3	60.0	No	No
Pentachlorophenol (ug/L) - TW	2024/01/15	< MDL 1	2.0	No	No
Phorate (ug/L) - TW	2024/01/15	< MDL 0.04	190.0	No	No
Picloram (ug/L) - TW	2024/01/15	< MDL 0.15	1.0	No	No
Prometryne (ug/L) - TW	2024/01/15	< MDL 0.01	10.0	No	No
Simazine (ug/L) - TW	2024/01/15	< MDL 1	1.0	No	No
Terbufos (ug/L) - TW	2024/01/15	< MDL 0.03	10.0	No	No
Tetrachloroethylene (ug/L) - TW	2024/01/15	< MDL 0.01	100.0	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2024/01/15	< MDL 0.01	230.0	No	No
Triallate (ug/L) - TW	2024/01/15	< MDL 0.35	5.0	No	No
Trichloroethylene (ug/L) - TW	2024/01/15	< MDL 0.01	5.0	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2024/01/15	< MDL 0.44	100.0	No	No
Trifluralin (ug/L) - TW	2024/01/15	< MDL 0.02	45.0	No	No
Vinyl Chloride (ug/L) - TW	2024/01/15	< MDL 0.17	1.0	No	No
<b>DISTRIBUTION WATER</b>					
Trihalomethane: Running Annual Average – DW1(ug/L)	2024/12/31	38.5	100.00	No	No
HAA: Running Annual Average – DW1 (ug/L)	2024/12/31	25.5	80.0	No	No

## SECTION 5: RAW WATER SUBMISSIONS

Raw water flows were submitted to the Ministry on January 27, 2025.



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: 7151-ABEK4P

Permit Holder: THE CORPORATION OF THE TOWNSHIP OF ASSIGNACK.

Received on: Jan 27, 2025 11:32 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.

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## **SECTION 6: CONCLUSION**

The drinking water inspection found the plant to be producing good quality water. A review of the treated water samples showed the plant met or exceeded the requirements of ODWS (Ontario's Drinking-Water Standards). Treated water samples at the plant and in the distribution system were shown to be free of bacteriological contaminants.

Based on information available for the 2024 operating year, the Sunsite Estates WTP was able to meet the demand of water use within the town without exceeding the Municipal Drinking Water Licence and Permit to Take Water max daily liter stipulations.





## **List of Acronyms and Definitions**

Alkalinity	The capacity of water for neutralizing an acid solution
AWQI	Adverse Water Quality Incident- when a water sample test result exceeds the Ontario Drinking Water Quality Standards
Backwash	Water pumped backwards to clean filters
BWA	Boil Water Advisory; Issued when risk of contamination is possible in drinking water
CFU	Colony Forming Units
Chlorine Residual	A low level of chlorine remaining in water after disinfection occurs
DW	Distribution Water
DWA	Drinking Water Advisory; Issued when water cannot be consumed by any means
DWWP	Drinking Water Works Permit - provides a description of the overall system
E.Coli	Bacteria used as indicators to measure the degree of pollution and sanitary quality of water
GUDI 170/03	Groundwater Under Direct Influence – Considered to be surface water under O.Reg
HPC	Heterotrophic Plant Count
L/s	Litres per Second
m3/d	Cubic Metres per Day
MAC	Maximum Acceptable Concentration
MDL	Minimum Detection Level
MDWL requirements	Municipal Drinking Water Licence - relates to the operation and performance
mg/L	Miligrams per Litre
Ministry	Ministry of the Environment, Conservation and Parks
MECP	Ministry of the Environment, Conservation and Parks
NDOGN	No Data: Overgrown with Non Target Bacteria
NDOGT	No Data: Overgrown with Target Bacteria
O.Reg	Ontario Regulation
PTTW water	Permit to Take Water – Permit which allows water taking from groundwater or surface
RW	Raw Water
TC	Total Coliforms
TSS	Total Suspended Solids
Turbidity	Cloudiness or haziness of water
TW	Treated Water