

February 9<sup>th</sup>, 2022

Mr. Jean-François Durocher Water Inspector Drinking Water and Environmental Compliance Division Ministry of the Environment, Conservation and Parks

#### Subject:

### 2021 - Annual Report for the St-Isidore Drinking Water System

Dear Mr. Durocher,

Please see attached, the summary report for the St-Isidore Drinking Water System that covers the period from January 1 to December 31, 2021.

This summary report has been completed in accordance with O. Reg. 170/03 Schedule 22 under the Safe Drinking Water Act. The target due date for this report is March 31<sup>st</sup>, 2022.

This summary report includes the quantities and flow rates of the water supplied by the Township of Alfred-Plantagenet to The Nation Municipality.

This report is also distributed to the Members of the Municipal Council and the Executive committee of the Nation Municipality.

Sincerely,

Nicholas Pigeon, CET

O.I.C. Water and Wastewater

Doug Renaud,

Director of Water & Wastewater, O.R.O

#### In the preparation of this summary report, we have complied with the following requirements:

- List the requirements of the Act, the regulations, the systems approval, drinking water works permit, municipal drinking water license and any orders applicable to the system that were not met at any time during the period covered by the report;
- For each requirement referred to in clause (a) that was not met, specify the duration of the failure and the measurements that were taken to correct the failure;
- 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 referred to in paragraph 1 to the rated capacity and flow rates approved in the system approval, drinking water works permit or municipal drinking water license, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), to the flow rates specified in the written agreement.

### Comparison:

During the period of January 1 to December 31, 2021:

- The maximum daily flow to the St-Isidore distribution system was 908 m³/day. This occurred in June, and it represented 71% of the rated available capacity of 1277 m³/day. The rated capacity is the amount of water that has been agreed upon to be supplied from the Alfred-Plantagenet Township to the Nation Municipality.
- The average daily distribution flow in the St. Isidore Drinking Water System was 228 m<sup>3</sup>/day.



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

## **System Information**

-	
Drinking Water System Name:	St-Isidore Water Distribution System
<b>Drinking Water System Number:</b> 260091026	
Drinking Water System Owner:	The Corporation of the Nation Municipality
Operathing Authority:	The Nation municipality
Drinking Water System Category:	Large municipal Residential
Period being reported:	Jan. 1, 2021 to Dec. 31, 2021

Does you	r Drinking-Water System serve more than 10 000 people?
Yes ( )	No ( X )
ls your ar	nnual report available to the public at no charge on a web site on the internet?
Yes ( X )	No ( )

Summary Report (170/03 Schedule 22) will be available for inspection at:

Municipal Office
The Corporation of the Nation municipality
958 Route 500 West
Casselman, ON
K0A1M0

List all Drinking-Water System, which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number		
N/A	N/A		

Did you provide a copy of your annual report to all Drinking Water System owners that are connected to you and to whom you provide all of its drinking water?

Yes ( ) No ( ) N/A

St-Isidore Drinking Water System Ontario Regulation 170/03, Section 11 Annual Report 2021

Indicate how you notified system users that your	annual report is available, and is free of charge.
( X ) Public access / Notice via the web	
( ) Public access / notice via government Office	
( ) Public access / notice via a newspaper	
( ) Public access / notice via Public Request	
( ) Public access / notice via a Public Library	
( ) Public access / notice via another method	
Describe your Drinking Water System	
	rith chloraminated water from the Lefaivre WTP in
·	hes the Plantagenet booster station which consists
	each rated at 20 L/sec.; a chemical feed system
	eded; one flow meter; two Cl2 analyzers (free and
	tor. The high lift pumps deliver water from the
_	sidore, from where the water is gravity fed to the
	e flow meter; and two Cl2 analyzer (Free and Total)
	s fully automated and remotely monitored by the
	al checks, log data, take water samples for water
	f the system. This facility operates under C of A #
7256-6	NEMJ7.
List all water treatment chemicals used over this	reporting period
Chemical Name	Supplier
Sodium Hypochlorite	Brenntag
Ammonium Sulfate	Brenntag
(Primary and secondary disinfection is achieved at	Lefaivre WTP)
Were any significant expenses incurred to?	
( ) Install required equipment	
( X ) Repair required equipment	
( ) Replace required equipment	

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

Calibration of Flow meter	\$ 500.00
Fire Hydrant inspection and flushing	\$ 2,000.00
Replacement of online analyser in Plantagenet	\$ 6,400.00

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 Spill Action Centre.

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

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

	Number of samples	Range of E.Coli Or Fecal Results	Range of Total Coliform Number of Results HPC samples		Range of HPC Results
		(min#)-(max#)	(min#)-(max#)		(min#)-(max#)
Distribution	156	0 - 0	0 - 0	52	0 - 0

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

	Number of Grab	Range of	For continuous monitors use
	samples	Results	8760 as the number of
		(min#)-(max#)	samples.
Chlorine Combined Dist. Syst,	8760	1.01 - 2.94	

<u>Note</u>: Record the unit of measure if it is not milligrams per liter. \*Average per day of combine chlorine in distribution system

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

Date of Legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
N/A				

St-Isidore Drinking Water System

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

Parameter	Sample date	Result value (mg/L)	Limit (mg/L)	Exceedance
Alkalinity	21-Apr-21	28		
Hardness	21-Apr-21	42		
Conductivity	21-Apr-21	184		
Iron	21-Apr-21	<0.005		
Magnesium	21-Apr-21	2.98		
Manganese	21-Apr-21	0.006		
PH	21-Apr-21	7.37		

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

Location Type	Number of samples	Limit of Lead Results		ead Results - (max #)	Number of Exceedance
Plumbing	N/A				N/A
Distribution	4	0.01	0.00014	0.00160	No

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

Parameter	Sample date	Result value (mg/L)	Limit	Exceedance
Trihalomethanes (THM)	2021 RAA	0.044	0.100 mg/L	No
Haloacetic acids (HAA)	2021 RAA	0.036	0.80 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	Unit of measure	Date of sample

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