

January 31<sup>st</sup>, 2024

**M. Jean-François Durocher**

*Water Inspector – Provincial Officer*

Ministry of the Environment, Conservation and Parks

**Subject:**

**2023 - Performance Report for the St-Bernardin Wastewater Facility**

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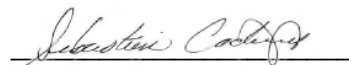
M. Durocher,

The following document includes the 2023 Performance Report for the St-Bernardin Wastewater Facility, covering the period from January 1<sup>st</sup> to December 31<sup>st</sup>, 2023. This facility is currently receiving domestic waste from 15 dwellings.

This Report summarizes activities undertaken in 2023 at the St-Bernardin Wastewater Facility.

This document follows condition 9 of the operation and maintenance program which states “ A yearly letter report will be prepared and submitted to the EOHU and the MOEE” (No.CAL-94-07) approved on June 24<sup>th</sup>, 1994 by the Eastern Ontario Health Unit (EOHU).


Sincerely,



(Prepared by)

Sébastien Cadieux,

Senior Water & Wastewater Operator



(Reviewed & Approved)

Nicholas Pigeon,

Director of Water & Wastewater (acting)

## 2023 - Annual Performance Report for the St-Bernardin Wastewater Facility

### 1) Operation and Maintenance

St-Bernardin wastewater facility is being monitored for the daily average flow of raw sewage and effluent in m<sup>3</sup>. A summary data report is attached in Appendix I.

#### **March**

- SPS Cleaning with the Nation personnel

#### **May**

- Flushed and cleaned sanitary system with Nation personnel.
- Cleaned SPS and pumped out 11 000 gallons of sludge from primary tanks.

#### **June**

- Built 2 concrete slab and installed two propane tank and a new generator

### 2) Weekly inspection required; visually inspect panels and wet well.

A weekly inspection program is followed by the Nation Municipality Wastewater Operators.

- Electric panel and cabinets are inspected for any damage, water infiltration and ambient temperature inside cabinet during winter months, weekly
- Pumps, Milltronic's are tested and maintained, weekly.
- Visual inspection of all tanks and wet wells are inspected. weekly
- Floats are tested and maintained, monthly.

Both Wet wells are monitored with a SCADA system "MISSION COMMUNICATION".

### 3) The septic tanks will be pumped out once every year. The sewage pumps will be inspected every year.

The septic tanks were pumped out during the month of May; a total of 11 000 gallons of sludge was removed. The Nation municipality personnel did the removal of sludge, which they disposed of at the St-Isidore Lagoon.

Both wet wells were cleaned and pumped out in June and September. The Nation municipality personnel performed the work.

### 4) The sewer lines will be cleaned out every second year.

The gravity sewer lines were cleaned in June 2023.

**5) The grass over the septic tile beds will be maintained during the growing season by mowing once per week.**

The grass over the septic beds was maintained during the growing season.

**6) Keeping the access clear to all pumps and chamber throughout the year.**

Snow removal was maintained during the 2023 period, access was clear for the facility.

**7) As per conditional approval from the MOEE, 5 piezometers will be sampled twice per year and analyzed for certain parameters.**

The Nation municipality personnel and the engineering firm EXP. perform the St-Bernardin wastewater facility ground water monitoring program. A report will be sent to EOHU and MECP from the firm mentioned, summarizing the ground water sampling and Analysis conducted throughout the year.

**8) The no-name creek will be sampled twice per year at the down gradient location and the Caledonia creek will be sampled at the upstream side. The samples collected will be analyzed for certain parameters.**

The no-name and the Caledonia creek are sampled twice per year (spring and fall) only biannually, based on the memorandum letter dated April 15<sup>th</sup>, 2008, from MECP. EXP and the Nation municipality personnel are responsible for all data and sampling analysis and correspondence with EOHU and MECP.

## **Appendix I: Analytical Survey**

# APPENDIX I

2.1.2

Waste water - Analytical survey



St-Bernardin

2023		Limit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
<b>RAW SEWAGE</b>															
Total Flow	$m^3$		454.0	316.8	533.7	706.4	385.6	326.4	443.9	401.7	307.5	321.6	321.6	454.0	4973.04
Daily Ave. Flow	$m^3/d$		14.65	11.31	17.22	23.55	12.44	10.88	14.32	12.96	10.25	10.37	10.7	14.6	13.61

Effluent

Total Flow	$m^3$		603.1	450.0	672.3	980.1	461.4	267.9	500.7	458.2	341.5	416.27	422.54	583.6	6157.6
Daily Ave. Flow	$m^3/d$		19.46	16.07	21.69	32.67	14.88	8.93	16.15	14.78	11.38	13.43	14.1	18.8	16.86

