

MUNICIPALITY OF STRATHROY-CARADOC

Sewage Collection System 2025 Annual Report

January 1, 2025 to December 31, 2025

as per ECA # 058-W601 Section 4.6



1. Summary of all Required Monitoring Data (Certificate of Approval 4.6.3)

The Operating data is summarized in Appendix A. The collection system operated as expected throughout the reporting period. No future modifications are needed at this time.

2. Operating Issues and Corrective Actions (Certificate of Approval 4.6.4)

The were no operational issue to report in 2025.

3. Calibration/Maintenance Summary (Certificate of Approval 4.6.5)

Flow meter calibrations were completed by SCG in February 2025. Throughout the year, operators conducted all routine maintenance activities. A comprehensive list of maintenance activities is provided in Appendix B.

4. Complaints Summary (Certificate of Approval 4.6.6)

The following is a list of customer complaints and actions taken regarding the wastewater collection system.

Date	Issues	Location	Action
25-May-05	sewer backup	147 Adelaide St	cleaned out, camera from clean out to main
12-May-25	sewer backup	44 Adelaide St	cleaned out
06-Oct-25	sewer backup	79 Doune St	cleaned out
25-Nov-05	sewer backup	98 North St	augured roots
11-Dec-25	sewer backup	78 Henry	cleaned out

5. Summary of Alterations (Certificate of Approval 4.6.7)

The Albert St Pump Station construction project started in 2023 and continued into 2025. This project included:

- Replacement of electrical equipment (MCC, ATS, etc.)
- Replacement of surge suppression system,
- Modifications to the building to comply with NFPA 820 requirements, including:
 - Exterior works in support of the works.
 - Replacement of HVAC equipment as it is at the end of useful life.
 - Replacement of roof due to age related deterioration.

Queen St Phase 2– This project involved the replacement of sanitary sewers, including services and all associated appurtenances. Construction began in 2024 and was completed in 2025. The scope of work included completing the sanitary

sewer installation on Arthur Street and proceeding south along Queen Street, ending just south of the railroad tracks where the Queen Street Phase 1 project concluded. As part of Phase 2, the project also required tunneling the new sanitary sewer beneath the CN railway tracks.

Buchanan Crossing – Installation of 200mm and 250mm gravity sewers on McTavish St. from Albert Street to Beer Cres. And Beer Cres. Additional stubs to the proposed condo development via Street I. An additional stub on Pembleton St. will be used to service future development. The proposed gravity sewers discharge to the Buchanan Crossing Pumping Station. A 150mm forcemain from the Buchanan Crossing Pumping Station to the existing 300mm sewer on Albert St. The new Buchanan Crossing Pump Station will service Buchanan Crossings, the two condo blocks and future development to the northwest of the site. Construction of Buchanan Crossing infrastructure started in 2025 and will be completed in 2026.

6. Overflows/Spills (Certificate of Approval 4.6.8)

On March 16, 2025, the Operator was repairing a sanitary PDC that the Owner of 132 Front St had complained of not draining properly. Upon further investigation, it was found that the PDC connection to the sanitary main had not been cut out when sewer main line was lined on October 16, 2024.

The pipe was replaced from the property line to the sanitary main, a hole was cut into the liner and returned to service. The estimated volume that was spilled was not known at the time of reporting.

7. Reduction of Overflows/Spills/Bypasses (Certificate of Approval 4.6.9)

There were no overflows or spills of sewage during the reporting period.

As part of the Municipality's Masterplan Project, the Municipality completed the Pollution Control Prevention Plan.

APPENDIX A

Strathroy-Caradoc Sanitary Sewer Collection System
Year: 2025

		January	February	March	April	May	June	July	August	September	October	November	December	Average
Albert St PS														
Pump #1 Avg	hrs	2.9	2.8	3.2	3.5	2.8	3.3	3.6	3.6	3.6	3.4	3.7	3.6	3.3
Pump #2 Avg	hrs	2.9	2.8	3.3	3.3	3.0	3.3	3.6	3.6	3.6	3.4	3.8	3.8	3.4
Pump #3 Avg	hrs	3.0	2.7	3.3	3.8	3.0	3.3	3.6	3.6	3.7	3.4	3.8	3.8	3.4
Avg Daily Flow	m ³ /day	2,830	2,702	3,239	3,549	2,820	3,213	3,507	3,188	3,436	3,345	3,648	3,608	3,257.1
Arnella PS														
Pump #1 Avg	hrs	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Bella PS														
Pump #1 Avg	hrs	0.5	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Pump #2 Avg	hrs	3.74	0.23	0.23	0.19	0.22	0.19	0.21	0.21	0.21	0.20	0.21	0.23	0.5
Arnella St														
Pump #1 Avg	hrs	1.2	1.4	1.6	1.6	0.9	1.0	1.2	0.9	0.8	0.7	0.5	0.9	1.1
Avg Daily Flow	m ³ /day	58	67	74	76	41	48	53	43	38	33	22	43	49.6
McNab PS														
Pump #1 Avg	hrs	1.5	1.4	1.5	1.8	1.6	3.6	6.3	7.2	7.9	7.7	7.8	5.7	4.5
Pump #2 Avg	hrs	1.4	1.4	1.5	1.7	1.5	3.4	6.0	6.7	7.4	7.2	7.3	5.3	4.2
Avg Daily Flow	m ³ /day	526	512	535	594	529	1,170	2,188	2,500	2,765	2,678	2,725	1,974	1,557.9
Millpond PS														
Pump #1 Avg	hrs	0.3	0.2	0.3	0.4	0.3	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2
Pump #2 Avg	hrs	0.26	0.19	1.24	0.31	0.23	0.18	0.59	0.16	0.11	0.10	0.11	0.14	0.3
Park PS														
Pump #1 Avg	hrs	1.9	1.5	1.8	2.4	1.8	1.6	1.4	1.4	1.5	1.5	1.6	1.5	1.7
Pump #2 Avg	hrs	1.8	1.5	1.8	2.4	1.7	1.6	1.4	1.4	1.4	1.5	1.6	1.6	1.6
Avg Daily Flow	m ³ /day	279	257	302	387	281	248	226	217	220	228	236	239	260.0
Metcalfe PS														
Pump #1 Avg	hrs	1.9	1.8	1.9	2.0	1.8	1.7	1.5	590.9	3.3	4.8	4.3	2.3	51.5
Pump #2 Avg	hrs	1.8	1.7	1.9	2.0	1.8	1.6	1.6	531.7	1.5	0.0	0.0	2.7	45.7
Avg Daily Flow	m ³ /day	1,188	1,041	1,082	1,230	1,103	1,002	994	#DIV/0!	1,113	1,153	994	1,078	#DIV/0!
North West PS														
Avg Daily Flow	m ³ /day	212	216	232	224	199	193	180	187	190	181	187	186	199
Main PS														
Avg Daily Flow	m ³ /day	353	337	348	380	334	314	306	299	300	298	388	314	331

APPENDIX B

2025 Pump Station Maintenance Report

Metcalfe Pump Station:

- Generator run every month for checks
- Generator yearly service by Alberts Generator
- Calibrate Flow Meter
- Wet Wells cleaned every 3 months (Feb, May, Aug, Nov)
- Remove and Replace explosion prove light fixture on wet well side
- Annual back flow preventer certification
- PLC upgrade
- Valve shaft repaired to wet well #1
- ESA inspection
- Installed Shims in Check Valve #1
- Annual Electrical Inspection

Park St Pump Station:

- Generator run every month for checks
- Generator yearly service by Alberts Generator
- Calibrate flow meter
- Remove and Replace fuel return lines on Generator
- Annual wet well cleaning
- ESA inspection
- Installed new receptacle in Generator housing
- Remove and replace block heater on Generator
- Annual Electrical Inspection

Albert St Pump Station:

- Under construction with electrical upgrades
- Generator run every month for checks
- Generator yearly service by Alberts generator
- Installed pump drains to sump
- Wet wells cleaned every 3 months (Feb, May, Aug, Nov)
- Annual back flow preventer certification
- ESA inspection
- Annual Electrical Inspection

McNab St Pump Station:

- Generator run every month for checks
- Generator yearly service by Alberts Generator
- Installed a check valve in fuel system on Generator
- Annual wet well cleaning
- ESA inspection
- Annual Electrical Inspection

2025 Pump Station Maintenance Report

High St Pump Station:

- Annual wet well cleaning
- ESA inspection
- Annual electrical inspection

Mill Pond Cres Pump Station:

- Annual wet well cleaning
- ESA inspection
- Annual electrical inspection

Bella St Pump Station:

- Annual wet well cleaning
- ESA inspection
- Annual electrical inspection

Arnella Cres Pump Station:

- Annual wet well cleaning
- ESA inspection
- Annual electrical inspection

Ewart St Pump Station:

- Cleaned pump station (twice)
- ESA inspection
- Annual electrical inspection
- PLC upgrade

Main Pump Station – Mount Brydges:

- Pulled and cleaned pump # 2 (3 times)
- Calibrate flow meter
- Run generators every month for checks
- Annual generator service by Alberts Generator
- Annual back flow preventer certification
- Wet wells cleaned every 3 months (Feb, May, Aug, Nov)
- Pulled and cleaned pump #1 (5 times)
- Replaced batteries in emergency lights
- Pulled Pump #1 and sent away for repair
- Annual electrical inspection
- Annual air monitor calibration
- ESA inspection

2025 Pump Station Maintenance Report

Northwest Pump Station – Mount Brydges:

- Run generators every month for checks
- Change batteries in emergency lights
- Calibrate flow meter
- Annual back flow preventer certification
- Wet wells cleaned every 3 months (Feb, May, Aug, Nov)
- Annual generator service by Alberts Generator
- Install rebuild kit in backflow preventer
- ESA inspection
- Replaced relay for EFI
- Pulled and cleaned pump #2 (15 times)
- Pulled and cleaned pump #1 (twice)
- Pulled pump #2 and sent in for rebuild
- Annual electrical inspection