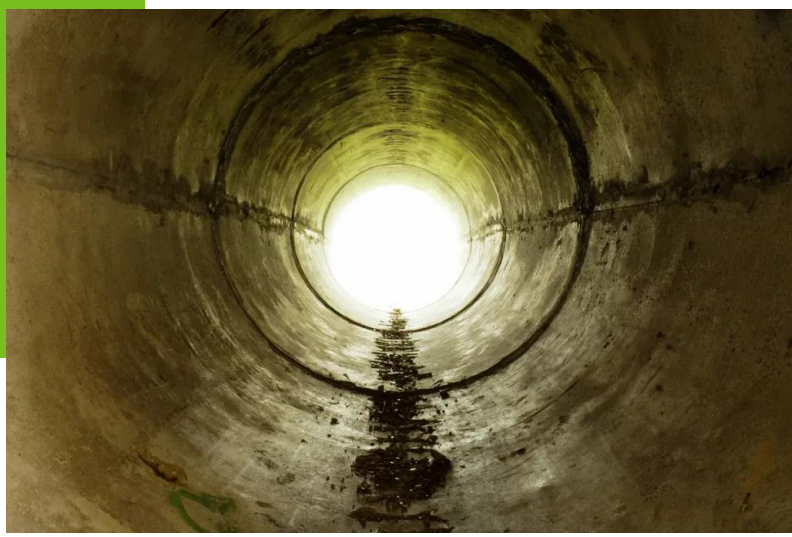
CLEARVIEW TOWNSHIP



Wastewater Collection System 2024 Annual Performance Report

Period Covering: January 1 to December 31, 2024

(Prepared in accordance with CLI-ECA 099-W601, Schedule E)

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INTRODUCTION

This report has been prepared by the Township of Clearview to satisfy the requirements of Schedule E, Section 4.6 of the Environmental Compliance Approval for a Municipal Sewage Collection System that has been issued to the Township of Clearview by the Ontario Ministry of Environment, Conservation and Parks (MECP).

The report covers the period from January 1 to December 31, 2024, for the following municipally owned and operated wastewater collection system:

Wastewater Collection System Information

Consolidated Linear Infrastructure – Environmental Compliance Approval (CLI-ECA):

ECA Number: 099-W601

Issue Number: 2

Issue Date: January 22, 2024

Report Content

Under Schedule E, Section 4.6 CLI-ECA 099-W601, the Owner of the municipal sewage collection system is required to prepare an annual performance report covering the period of January 1 to December 31 by March 31st of the following year. The report is to be submitted to the MECP Director and if a collection system overflow or spill of sewage occurred during the reporting period it will also be submitted to the District Manager. The annual performance report must contain the following information:

- If applicable, includes a summary of all required monitoring data along with an interpretation of the data and any conclusion drawn from the data evaluation about the need for future modifications to the Authorized System or system operations.
- A summary of any operating problems encountered, and corrective actions taken.
- A summary of all calibration, maintenance, and repairs carried out on any major structure, equipment, apparatus, mechanism, or thing forming part of the Municipal Sewage Collection System.
- A summary of any complaints related to the Sewage Works received during the reporting period and any steps taken to address the complaints.
- A summary of all Alterations to the Authorized System within the reporting period that are authorized by this approval including a list of Alterations that pose a Significant Drinking Water Threat.

- A summary of all Collection System Overflow(s) and Spill(s) of Sewage including:
    - Dates;
    - Volumes and durations;
    - If applicable, loadings for total suspended solids, BOD, total phosphorus, and total Kjeldahl nitrogen, and sampling results for E.coli;
    - Disinfection, if any; and
    - Any adverse impact(s) and any corrective actions, if applicable.
- A summary of efforts made to reduce Collection System Overflows, Spills, STP Overflows, and/or STP Bypasses, including the following items, as applicable:
    - A description of projects undertaken and completed in the Authorized System that result in overall overflow reduction or elimination including expenditures and proposed projects to eliminate overflows with estimated budget forecast for the year following that for which the report is submitted.
    - Details of the establishment and maintenance of a PPCP including a summary of project progresses compared to the PPCP's timelines.
    - An assessment of the effectiveness of each action taken.
    - An assessment of the ability to meet Procedure F-5-1 or Procedure F-5-5 objectives (as applicable) and if able to meet the objectives, an overview of next steps and estimated timelines to meet the objectives.
    - Public reporting approach including proactive efforts.

Report Format

This report provides details on measures taken by staff to ensure compliance with Terms and Conditions of the control documents, Act, Regulations, or any orders the system may have been under during the reporting period.

Report Availability

In accordance with Schedule E, Section 4.7 of CLI-ECA 099-W601, a copy of the report is available to the public, free of charge, at the following locations by June 1st:

- Township of Clearview's website www.clearview.ca
- By request at the Township Administration Building, located at 217 Gideon St., Stayner.
- By request at the Township Public Works Building, located at 5833 County Road 96, Stayner.

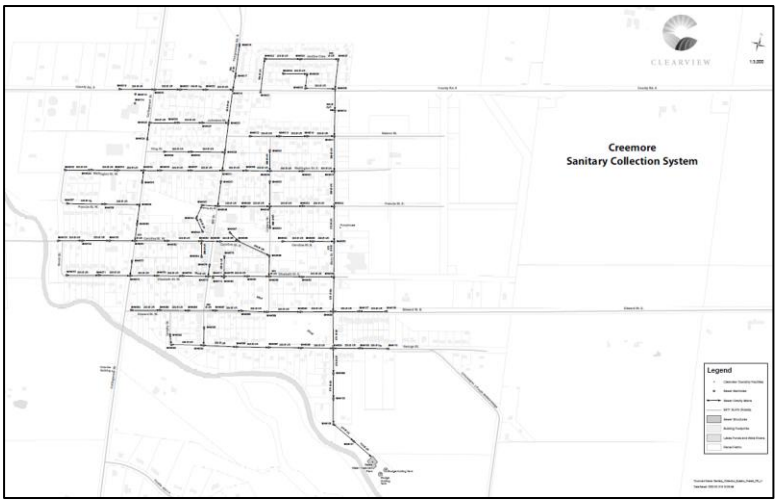
CLEARVIEW WASTEWATER COLLECTION SYSTEM

System Description

The Township of Clearview owns the wastewater collection system which provides services to residents in the Stayner and Creemore settlement areas. The works consist of infrastructure which collects and conveys wastewater from homes and businesses to the Stayner Sewage Treatment Plant, the Creemore Sewage Treatment Plant, and has the capability to direct sewage to the Town of Wasaga Beach wastewater collection system when deemed necessary in the future.

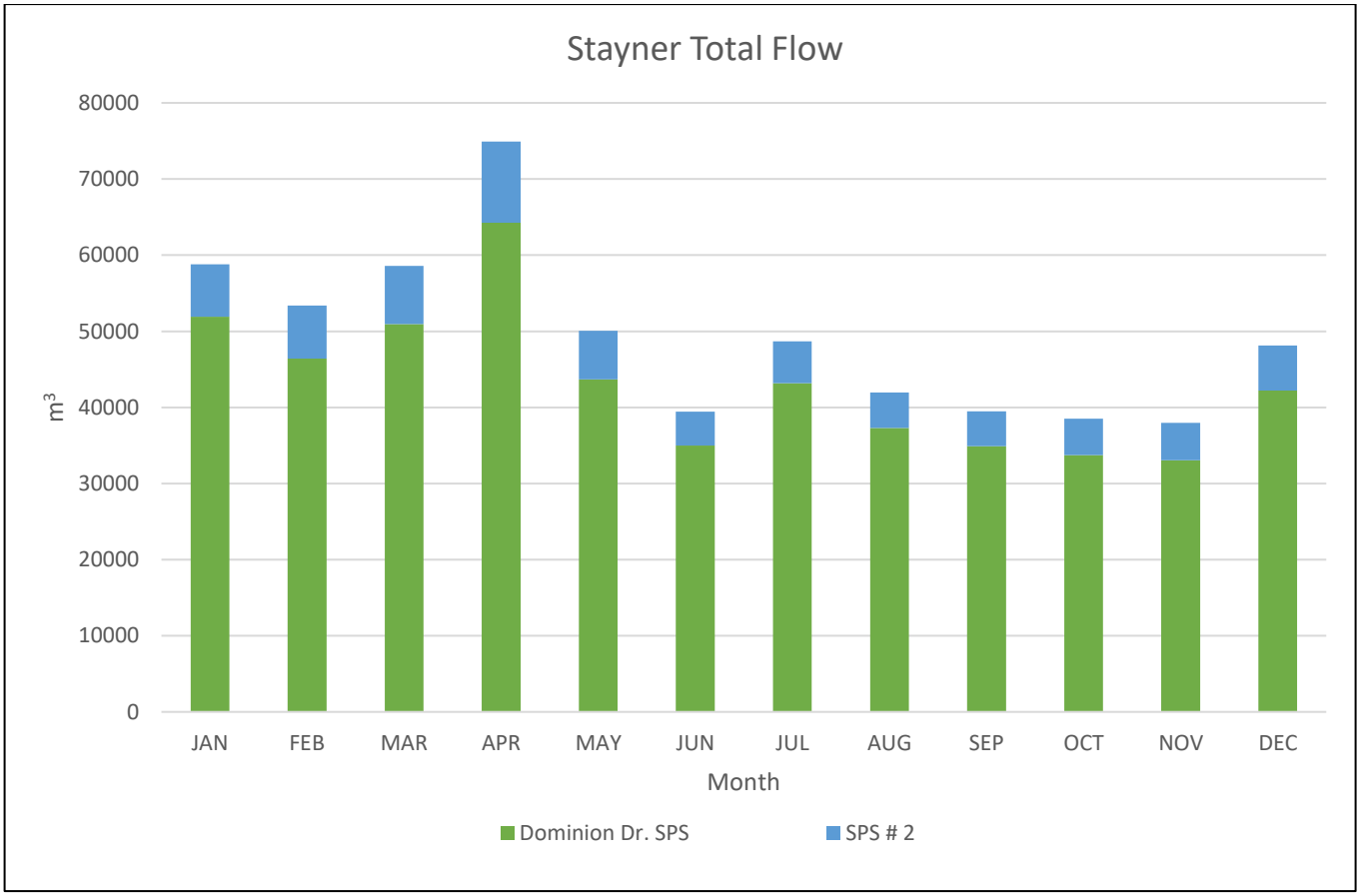
The system consists of approx. 45.5 km of gravity sewer and trunk mains and 16 km of forcemains, with two pumping stations servicing a population of approximately 6,200 people.

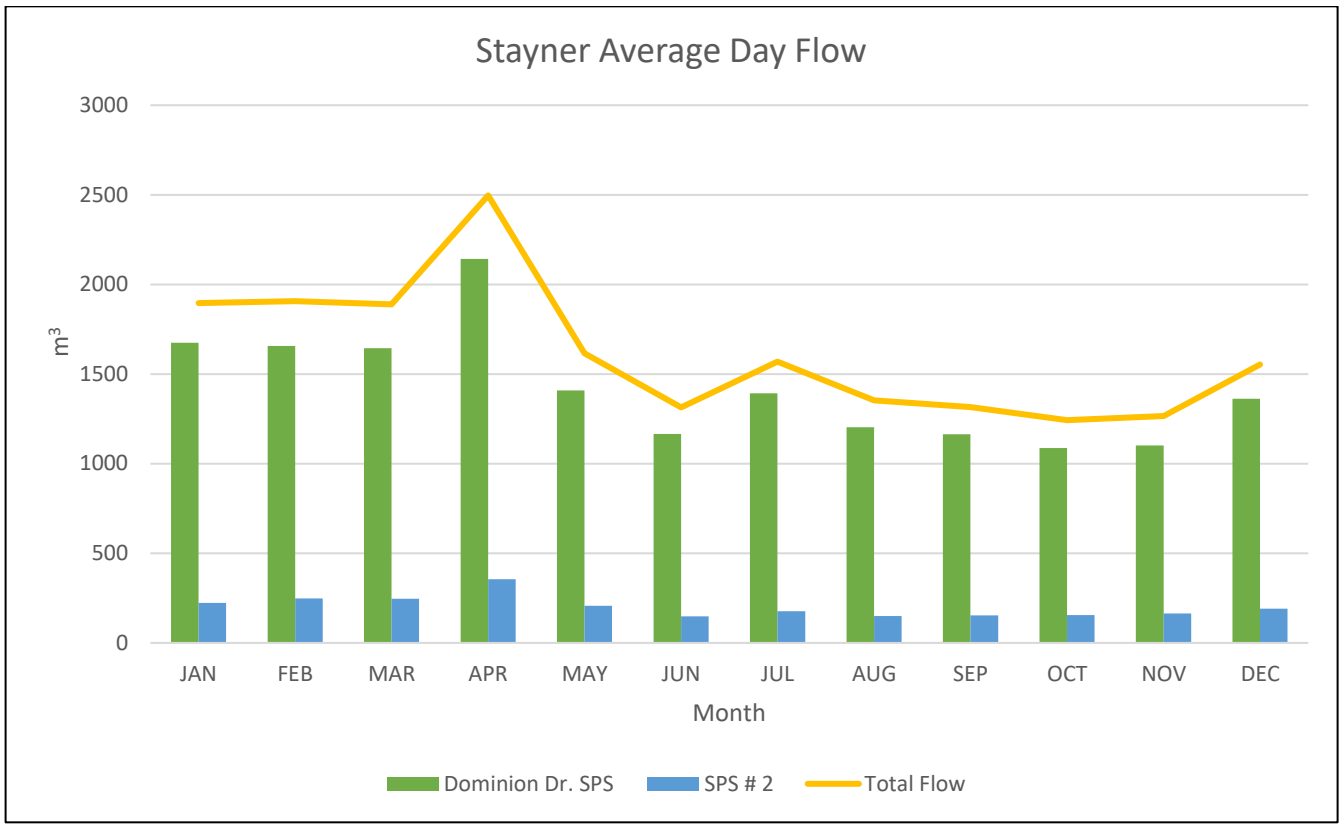
The Township of Clearview is the operating authority for the linear infrastructure and the Town of Collingwood is contracted to act as the operating authority for the pumping stations.

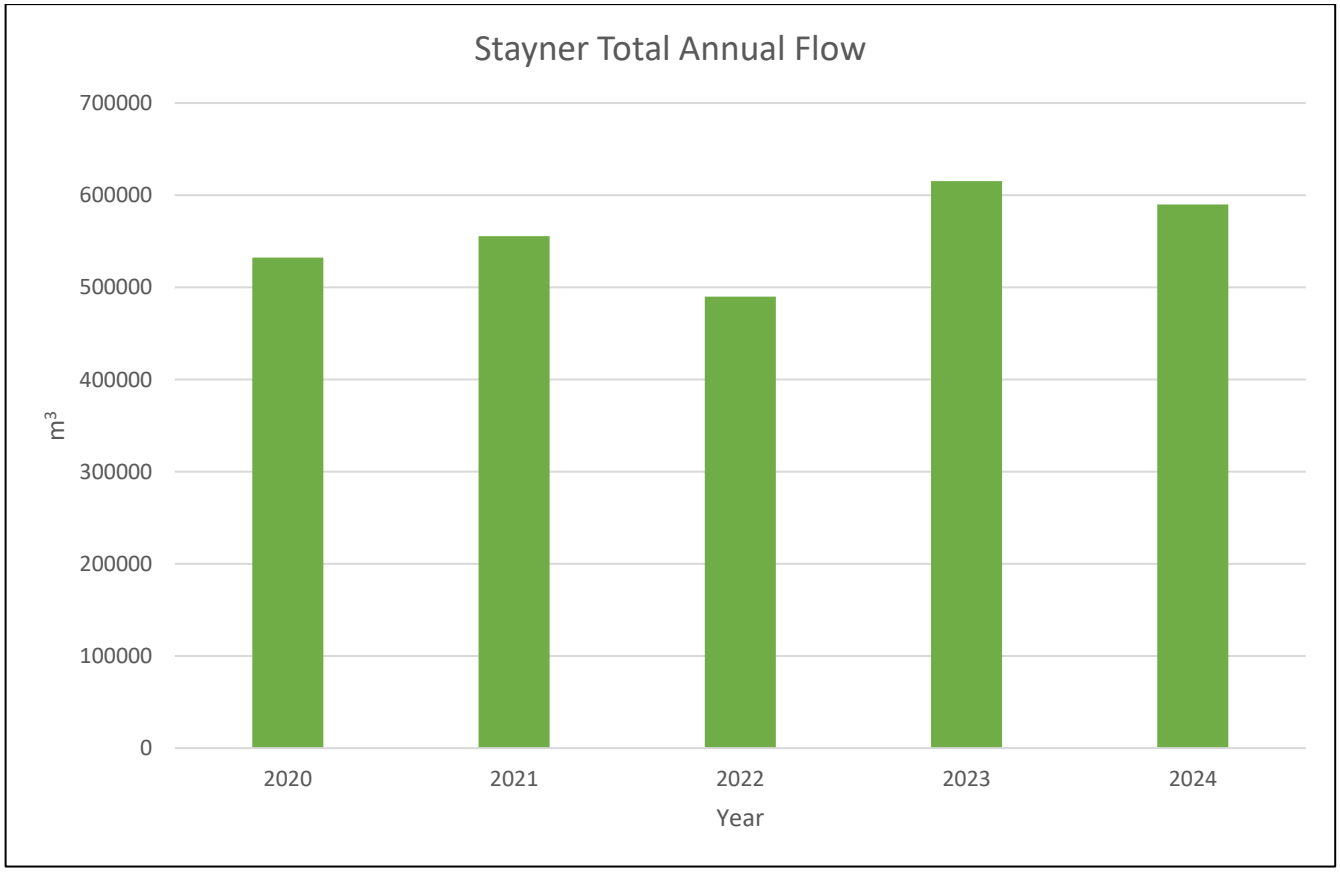


Monitoring Data

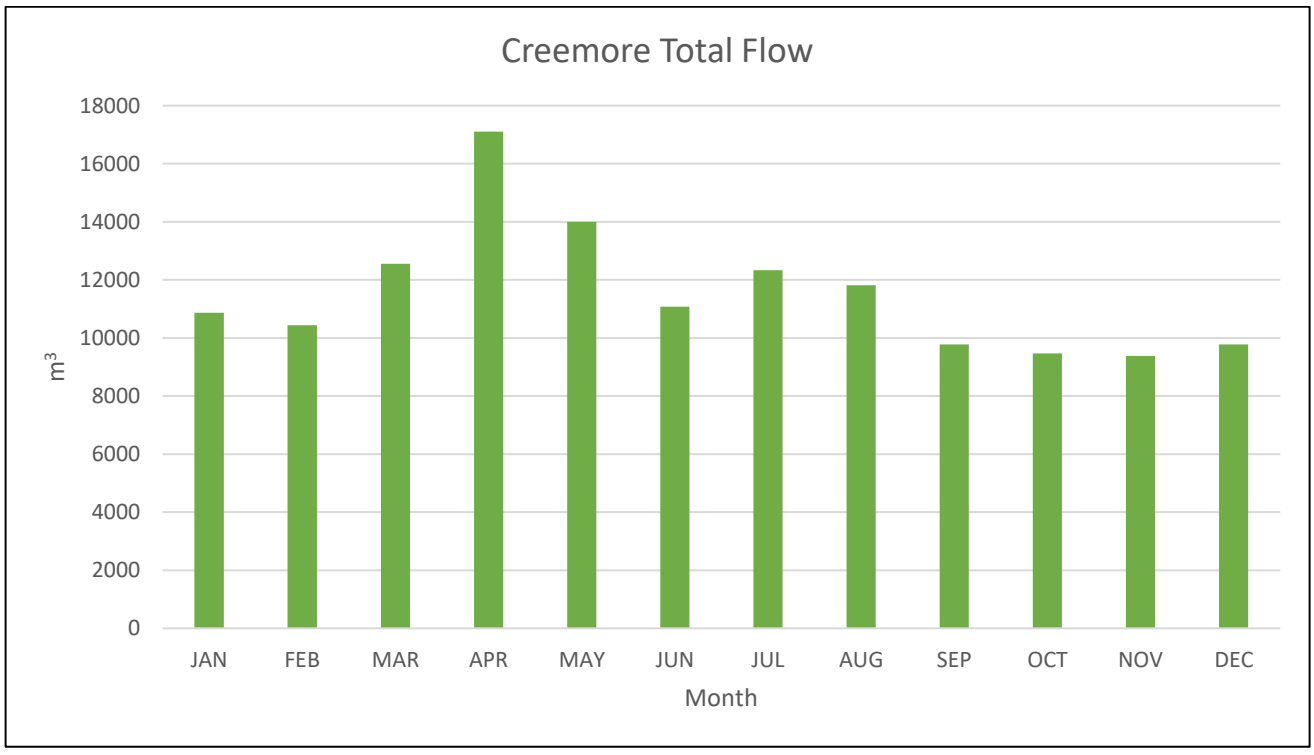
STAYNER	Dominion Dr. SPS			SPS # 2			Stayner Total Flow		
	Total Flow m^3	Average Day Flow m^3	Maximum Day Flow m^3	Total Flow m^3	Average Day Flow m^3	Maximum Day Flow m^3	Total Flow m^3	Average Day Flow m^3	Maximum Day Flow m^3
JAN	51899	1674	2280	6904	223	308	58803	1897	2588
FEB	46401	1657	1938	6967	249	299	53368	1906	2223
MAR	50956	1644	2009	7628	246	303	58584	1890	2236
APR	64255	2142	3560	10651	355	655	74906	2497	4208
MAY	43670	1409	1918	6405	207	332	50075	1615	2250
JUN	34977	1166	1455	4463	149	167	39440	1315	1622
JUL	43164	1392	3224	5495	177	381	48659	1570	3605
AUG	37291	1203	1486	4662	150	191	41953	1353	1651
SEP	34898	1163	1330	4600	153	181	39498	1317	1503
OCT	33718	1088	1273	4811	155	177	38529	1243	1430
NOV	33040	1101	1223	4943	165	193	37983	1266	1415
DEC	42221	1362	2356	5917	191	252	48138	1553	2605
Total/Yr.	**516490**	**1417**	**3560**	**73446**	**202**	**655**	**589936**	**1618**	**4208**

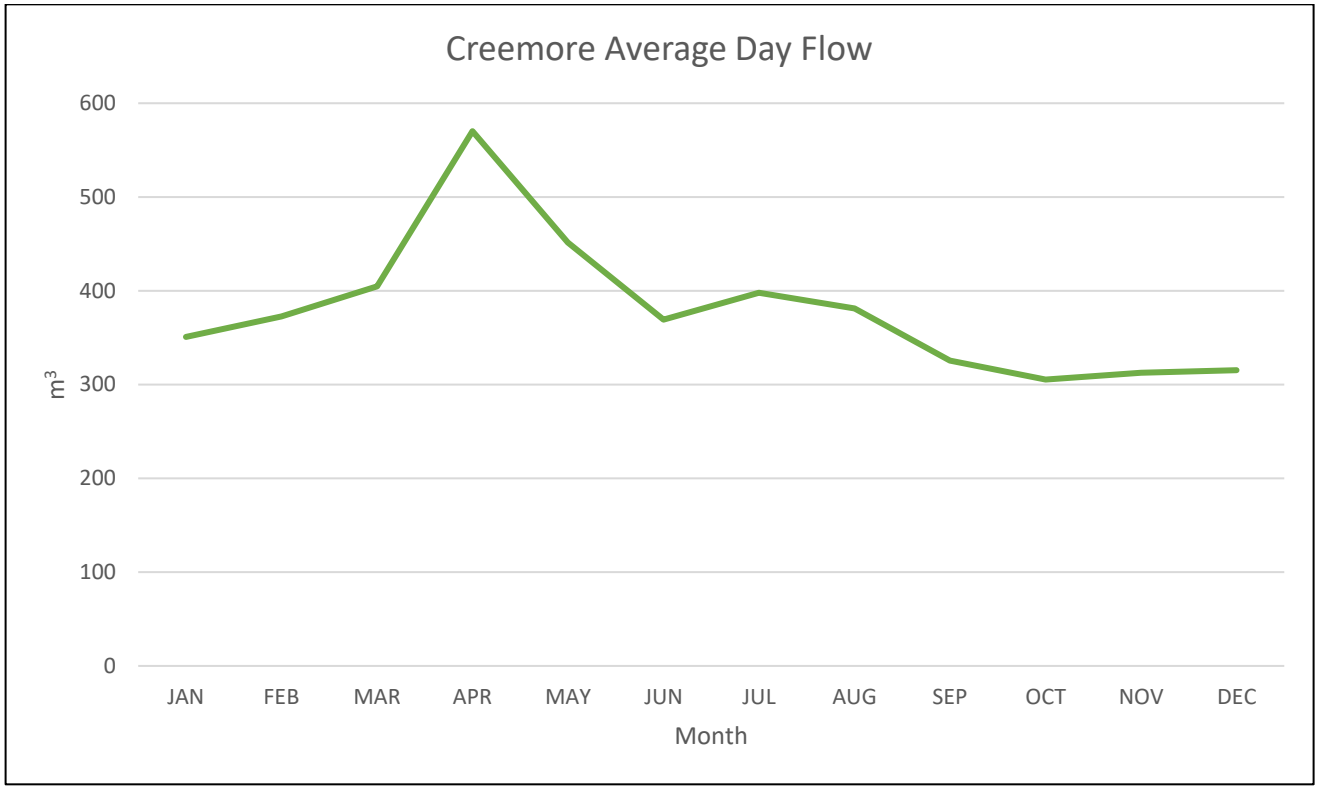


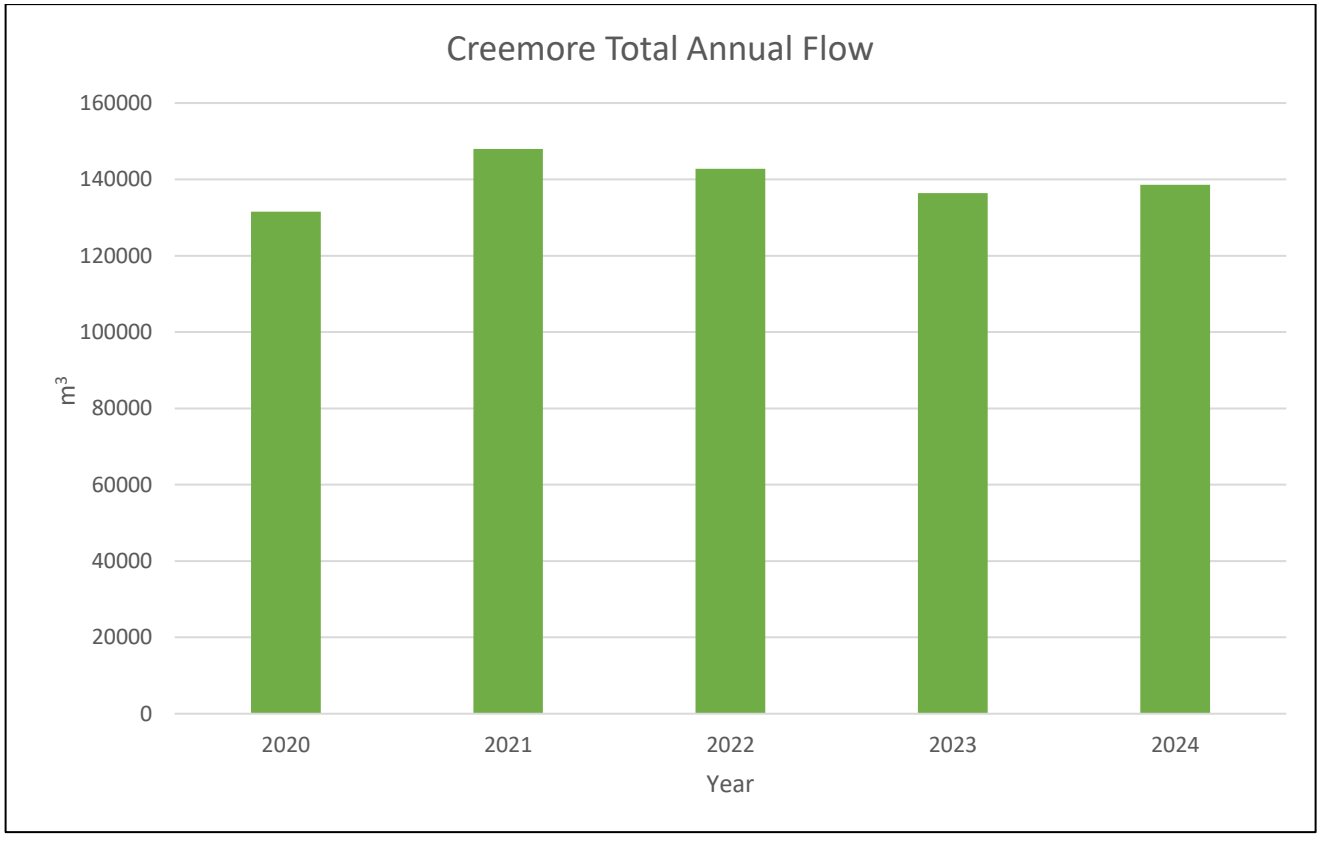

Stayner Average Day Flow
3000
2500
2000
1500
1000
500
0
m3
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
Month
Dominion Dr. SPS
SPS # 2
Total Flow


Stayner Total Annual Flow
700000
600000
500000
400000
300000
200000
100000
0
m3
2020
2021
2022
2023
2024
Year

CREEMORE	Creemore WWTP Influent		
	Total Flow m^3	Average Day Flow m^3	Maximum Day Flow m^3
JAN	10871	351	410
FEB	10436	373	415
MAR	12549	405	527
APR	17106	570	716
MAY	13997	452	666
JUN	11081	369	485
JUL	12334	398	512
AUG	11819	381	504
SEP	9772	326	419
OCT	9466	305	394
NOV	9377	313	399
DEC	9776	315	398
Total/Yr.	**138584**	**380**	**716**




Creemore Average Day Flow
600
500
400
300
200
100
0
m3
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
SEP
OCT
NOV
DEC
Month


Creemore Total Annual Flow
160000
140000
120000
100000
80000
60000
40000
20000
0
m3
2020
2021
2022
2023
2024
Year

Flows within the collection system were considered normal in 2024. The typical increase in monthly flows during the spring thaw and months with higher precipitation is noted in the flow monitoring data. Annual flows for both the Stayner and Creemore collection areas were in line with the 5-year average annual flow totals. The collection system appears to be well equipped to handle the current flow volumes. As more development occurs in Stayner, there will be an increase in the volume of flow directed to SPS # 2. At some point in the future, it will be necessary to begin utilizing the forcemains from this station to the Town of Wasaga Beach and sending them some of the collected wastewater for treatment.

Operating Problems Encountered and Corrective Actions

In the spring of 2024, an inspection of the Creemore collection system was completed. The inspection revealed six significant sources of infiltration: three coming from manholes, one from a sewer main joint, and two from laterals. All locations were repaired as soon as possible by an outside contractor.

Routine inspection of the standby generator at the Dominion Dr. pumping station revealed a problem with the control board, resulting in the generator not starting when called for. A temporary generator was hooked up to the pumping station from November 22, 2023 to February 7, 2024 while parts were being obtained to repair the permanent unit. A temporary generator was utilized again in November 2024 while the water pump was being rebuilt. Radiator hoses and the block heater were replaced during this time as well.

Also at the Dominion Dr. pumping station, the variable frequency drive (VFD) for Pump 2 was replaced. A flow differential between the two pumps occurred, caused by the mechanical seal for Pump 1 leaking. The level sensor could not be properly calibrated and requires replacement.

Upgrades to the exhaust system fan programming and alarm have been recommended to improve hazardous atmosphere safety and awareness.

Calibration, Maintenance and Repairs

Collection System

- All manholes (570) were inspected and flushed/cleaned.
- 10,740 m of sewer main was flushed.
- MH-CR-0097 was repaired for infiltration.
- MH-CR-0110 was repaired for infiltration.
- MH-CR-0116 was repaired for infiltration.
- SM-CR-0049 was repaired for infiltration at a joint just east of MH-CR-0091.

- All air relief valves (9) on forcemains were inspected and serviced.
- Brushing was completed along easements containing sewer mains in Stayner.

Dominion Dr. SPS

- Weekly station inspections were completed.
- Monthly high-level alarm and standby generator testing were completed.
- Flow meter was calibrated.
- Level sensor inspected.
- Gas monitoring system inspected.
- Lifting equipment inspected.
- Wet well was cleaned.
- Standby generator control board, block heater and water pump were all replaced.
- Pump 2 VFD replaced.
- Sump pump replaced.

Sewage Pumping Station #2

- Weekly station inspections were completed.
- Monthly high-level alarm and standby generator testing were completed.
- Flow meters were calibrated.
- Level sensors were calibrated.
- Gas monitoring system inspected.
- Lifting equipment inspected.
- Wet well inspected, cleaning was not required.

Complaints

Four complaints were received from customers in 2024.

- All four complaints were due to blockages in the lateral servicing the property and were promptly cleared by local plumbers. Where necessary, Township operators assisted in locating / determining the cause of the blockage through use of CCTV equipment.

Pre-Authorized Alterations

Sunnidale St., Stayner – Authorized in 2023, construction started in 2024.

- Replacement and new construction of gravity sewers on Sunnidale St. between Phillips St. and Centreline Rd.

- New 200 mm forcemain from South East Stayner SPS to outlet manhole near 235 Sunnidale St.
- New 26.2 L/s South East Stayner SPS just off Sunnidale St. for the servicing of existing properties on Sunnidale St. and the Manortown Homes subdivision.

Manortown Homes Subdivision, Stayner – Authorized in 2023, construction started in 2024

- New gravity sewers to service the Manortown Homes subdivision.

Alterations That Pose a Significant Drinking Water Threat

- Forcemain and gravity sewer on Sunnidale St. passes through WHPA-A for Stayner Wells 1 & 3.

Collection System Overflow(s) and Spill(s) of Sewage

There was no collection system overflows or spills of sewage in 2024.

Efforts to Reduce Collection System Overflows, Spills, STP Overflows and STP Bypasses

As previously discussed in the Calibration, Maintenance and Repairs section, six areas of infiltration were identified and repaired. These repairs were effective in reducing the volume of water being directed to the Creemore WWTP.

The Clearview collection system is entirely made up of separate sewers dedicated to sanitary sewage collection. There are no combined sewers or partially separated sewers. Due to the type of system, its performance history, and the service population, no additional studies or assessments of the collection system are required to be performed under the ECA.