

**THE TOWN OF RAINY RIVER  
2025 ANNUAL SEWAGE REPORT**

**For The Period:**

**January 1, 2025, to December 31, 2025**

**Prepared For:**

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**MOE**

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**Prepared February 2026 by:**

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ORO  
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**2025 Annual Sewage Report  
Town of Rainy River**

**Certificate of Approval # 9581-7EVR3S – Dated June 26, 2008.**

January 2025 One sample is taken at the beginning of each month.

Total Flow	11,817	m <sup>3</sup>
Average Daily Flow	381	m <sup>3</sup>
Max Daily Flow	507	m <sup>3</sup>
BOD Carbonaceous	102	mg/L
BOD's	95.5	mg/L
Suspended Solids	70.5	mg/L
Total Phosphorus	4.64	mg/L
TKN	37.20	mg/L

February 2025 One sample is taken at the beginning of each month.

Total Flow	9,374	m <sup>3</sup>
Average Daily Flow	334	m <sup>3</sup>
Max Daily Flow	457	m <sup>3</sup>
BOD Carbonaceous	126.0	mg/L
BOD's	136.0	mg/L
Suspended Solids	107.0	mg/L
Total Phosphorus	3.70	mg/L
TKN	48.90	mg/L

March 2025 One sample is taken at the beginning of each month.

Total Flow	13,736	m <sup>3</sup>
Average Daily Flow	443	m <sup>3</sup>
Max Daily Flow	664	m <sup>3</sup>
BOD Carbonaceous	115.0	mg/L
BOD's	107.0	mg/L
Suspended Solids	93.2	mg/L
Total Phosphorus	6.10	mg/L
TKN	51.40	mg/L

April 2025 One sample is taken at the beginning of each month.

Total Flow	23,030	m <sup>3</sup>
Average Daily Flow	767	m <sup>3</sup>
Max Daily Flow	2,300	m <sup>3</sup>
BOD Carbonaceous	64.3	mg/L
BOD's	76.7	mg/L
Suspended Solids	57.7	mg/L
Total Phosphorus	3.66	mg/L
TKN	30.80	mg/L

May 2025

Total Flow	16,486	m <sup>3</sup>
Average Daily Flow	531	m <sup>3</sup>
Max Daily Flow	1,192	m <sup>3</sup>
BOD Carbonaceous	44.6	mg/L
BOD's	46.2	mg/L
Suspended Solids	55.0	mg/L
Total Phosphorus	2.48	mg/L
TKN	23.70	mg/L

One sample is taken at the beginning of each month.

June 2025

Total Flow	11,128	m <sup>3</sup>
Average Daily Flow	370	m <sup>3</sup>
Max Daily Flow	507	m <sup>3</sup>
BOD Carbonaceous	71.9	mg/L
BOD's	69.6	mg/L
Suspended Solids	84.7	mg/L
Total Phosphorus	3.93	mg/L
TKN	48.20	mg/L

One sample is taken at the beginning of each month.

July 2025

Total Flow	14,877	m <sup>3</sup>
Average Daily Flow	479	m <sup>3</sup>
Max Daily Flow	874	m <sup>3</sup>
BOD Carbonaceous	88.0	mg/L
BOD's	75.4	mg/L
Suspended Solids	56.9	mg/L
Total Phosphorus	4.65	mg/L
TKN	39.80	mg/L

One sample is taken at the beginning of each month.

August 2025

Total Flow	10,144	m <sup>3</sup>
Average Daily Flow	327	m <sup>3</sup>
Max Daily Flow	430	m <sup>3</sup>
BOD Carbonaceous	69.4	mg/L
BOD's	68.5	mg/L
Suspended Solids	71.3	mg/L
Total Phosphorus	4.64	mg/L
TKN	46.70	mg/L

One sample is taken at the beginning of each month.

September 2025

Total Flow	10,328	m <sup>3</sup>
Average Daily Flow	344	m <sup>3</sup>
Max Daily Flow	540	m <sup>3</sup>
BOD Carbonaceous	64.6	mg/L
BOD's	70.0	mg/L
Suspended Solids	58.2	mg/L

One sample is taken at the beginning of each month.

Total Phosphorus	4.80	mg/L
TKN	51.70	mg/L

October 2025

One sample is taken at the beginning of each month.

Total Flow	14,356	m <sup>3</sup>
Average Daily Flow	463	m <sup>3</sup>
Max Daily Flow	850	m <sup>3</sup>
BOD Carbonaceous	94.5	mg/L
BOD's	98.4	mg/L
Suspended Solids	75.3	mg/L
Total Phosphorus	4.86	mg/L
TKN	43.50	mg/L

November 2025

One sample is taken at the beginning of each month.

Total Flow	13,416	m <sup>3</sup>
Average Daily Flow	447	m <sup>3</sup>
Max Daily Flow	564	m <sup>3</sup>
BOD Carbonaceous	79.7	mg/L
BOD's	72.8	mg/L
Suspended Solids	65.7	mg/L
Total Phosphorus	2.79	mg/L
TKN	28.30	mg/L

December 2025

One sample is taken at the beginning of each month.

Total Flow	11,539	m <sup>3</sup>
Average Daily Flow	372	m <sup>3</sup>
Max Daily Flow	523	m <sup>3</sup>
BOD Carbonaceous	93.6	mg/L
BOD's	119.0	mg/L
Suspended Solids	86.5	mg/L
Total Phosphorus	3.70	mg/L
TKN	37.90	mg/L

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**Yearly Average 2025**

Total Flow	160,231	m <sup>3</sup>	<b>Total Flow for 2025</b>	<b>13,352</b>	<b>m<sup>3</sup></b>
Average Daily Flow	407	m <sup>3</sup>	Average for the year per		
Max Daily Flow	784	m <sup>3</sup>	month.		
BOD Carbonaceous	84.46	mg/L			
BOD's	86.25	mg/L			
Suspended Solids	73.5	mg/L			
Total Phosphorus	3.75	mg/L			
TKN	45.52	mg/L			

## 2025 Final Effluent

### June 2025

### Effluent Limits

Total EFFL Volume to Watercourse	108,845 m <sup>3</sup>	CBO5	30.0 mg/L
Flow Duration	696 hours	Total Suspended Solid	40.0
Cell Depth	1.6 m	pH	6.0 – 9.5
BOD's	2.14 mg/L		
Suspended Solids	11.2 mg/L		
Ammonia and Ammonium	0.15 mg/L		
Total Phosphorus	0.23 mg/L		
Number of Samples During Flow Duration	4		
BOD Carbonaceous	2.32 mg/L		
Average pH	8.0		

### Final Effluent

### October 2025

Total EFFL Volume to Watercourse	96,455 m <sup>3</sup>
Flow Duration	624 hours
Cell Depth	1.6 m
BOD's	2.0 mg/L
Suspended Solids	3.5 mg/L
Ammonia and Ammonium	1.48 mg/L
Total Phosphorus	0.14 mg/L
Number of Samples During Flow Duration	4
BOD Carbonaceous	2.22 mg/L
Average pH	7.80

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### Yearly Average 2025

BOD's	2.07 mg/L	<b>Total Final Effluent</b>	<b>205,300 m<sup>3</sup></b>
Suspended Solids	7.35 mg/L		
Ammonia and Ammonium	0.81 mg/L		
Total Phosphorus	0.18 mg/L		
CBOD	2.27 mg/L		
pH	7.9		

#### **(b) Operating Problems Encountered and Corrective Actions Taken;**

- New policy – change UPS every two years.

#### **(c) Summary of All Maintenance Carried Out on Any Major Structure, Equipment, Apparatus, Mechanism or Thing Forming Part of The *Works*;**

- Alarm and generator set and tested weekly.
  - Calibrated influent flow meters.
- (d) A Summary of Any Effluent Quality Assurance or Control Measures Undertaken in the Reporting Period;**
- Content sample taken before discharge.
- (e) Summary of the Calibration and Maintenance Carried Out on All Effluent Monitoring Equipment;**
- pH meter calibrated by Lakeside and flow meters at lift station August 2025.
- (f) A Description of Efforts Made and Results Achieved in Meeting the Effluent Objectives of Condition 5;**
- 6 month holding time – content sample taken before discharge.
- (g) Tabulation of the Volume of Sludge Generated in the Reporting Period, An Outline of Anticipated Volumes to Be Generated in the Next Reporting Period and a Summary of the Locations to Where the Sludge Was Disposed;**
- Not Applicable.
- (h) A Tabulation of the Quantity of Septage Deposited to the Sewage Lagoon for Co-Treatment During the Reporting Period;**
- 30.0 m<sup>3</sup> was deposited in 2025.
- (i) A Summary of Any Complaints Received During the Reporting Period and Any Steps Taken to Address the Complaints;**
- (j) A Summary of All By-Pass, Overflow, Spill or Abnormal Discharge Events;**
- No bypass.