Deep River Wastewater System

Waterworks # 120000612

Annual Report

Prepared For: Town of Deep River

Reporting Period of January 1st – December 31st, 2025

Issued: Feb 20, 2026

Revision: 0

Operating Authority:

OCWA

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

This report has been prepared to meet the requirements set out in:

Document	Document #	Issue Date	Issue Number
Facility ECA	9291-D4PNN9	August 1, 2024	1
ECA for Municipal Sewage Collection System	189-W601	May 16, 2023	1

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1 Revision History

Date	Rev #	Revisions	Revised By
26-Feb-2025	0	Template Issued	Brenda Royce, PCT
22-May-2025	1	Edited for TSS Q2-WSER Exceedance only and not a Non-Compliance due to a monthly ECA Limit & Objective (May 2024), as it is an annual average Limit/Objective	Brenda Royce, PCT

2 Operations and Compliance Reliability Indices

Compliance Event	Details
Ministry of Environment Inspections	• Last Inspection was Oct 28, 2015
Ministry of Labour Inspections	• None for this reporting period
Non-Compliance	• None for this reporting period
Community Complaints	• None for this reporting period
Spills	• None for this reporting period
Overflows	• None for this reporting period
Bypass	• None for this reporting period

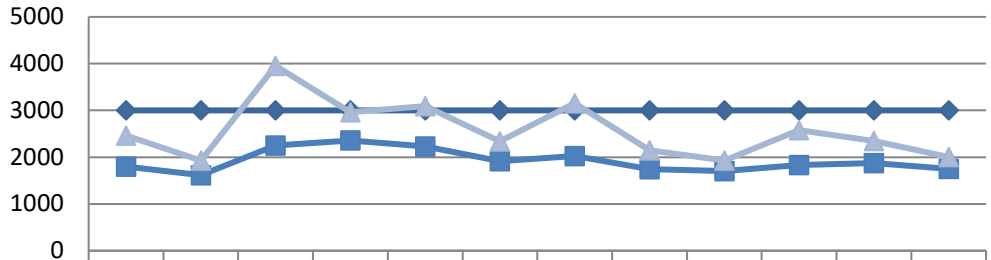
3 Process Description

Wastewater from the Town of Deep River flows directly to the Class 3 Wastewater Treatment Facility. Upon entering the facility, the incoming wastewater receives primary treatment consisting of screening and grit removal. Secondary treatment is achieved through the Sequential Batch Reactor (SBR) process with chemical addition for phosphorus removal. Disinfection is achieved by UV disinfection prior to being discharged back into the Ottawa River. Biosolids are aerobically digested, stored on site and land applied under the Nutrient Management Act.

4 Treatment Flows

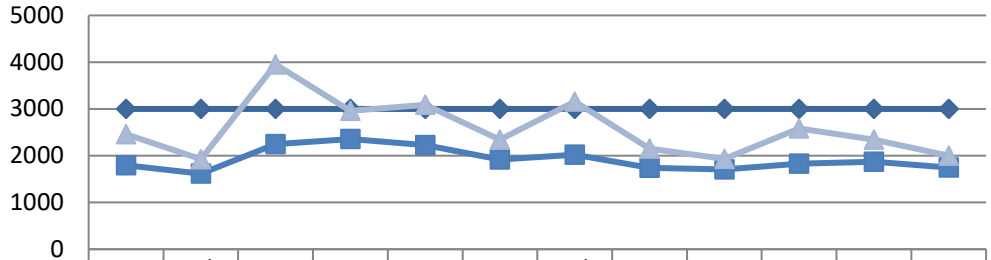
4.1 Raw Flows (m3/d)

In 2025, the average daily raw flow was approx. 64.2% of the current design capacity.



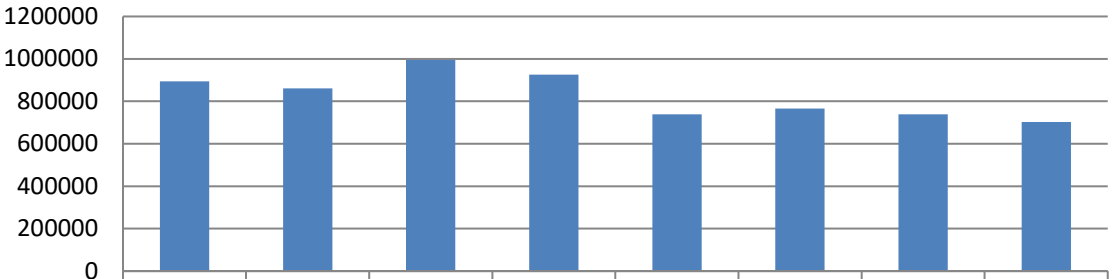
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Limit	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Average Daily Flow	1796	1615	2249	2356	2228	1917	2023	1743	1704	1831	1870	1747
Maximum Daily Flow	2459	1927	3952	2961	3090	2342	3155	2149	1929	2581	2344	2002

4.2 Effluent Flow (m3/d)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Limit	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Average Daily Flow	1796	1615	2249	2356	2228	1917	2023	1743	1704	1831	1870	1747
Maximum Daily Flow	2459	1927	3952	2961	3090	2342	3155	2149	1929	2581	2344	2002

4.2.1 Annual Comparison (m3)



	2018	2019	2020	2021	2022	2023	2024	2025
Total Annual Flow (m3)	893702	861242	995250	926170	738502	766063	738833	702818

4.3 Imported Waste/Sewage

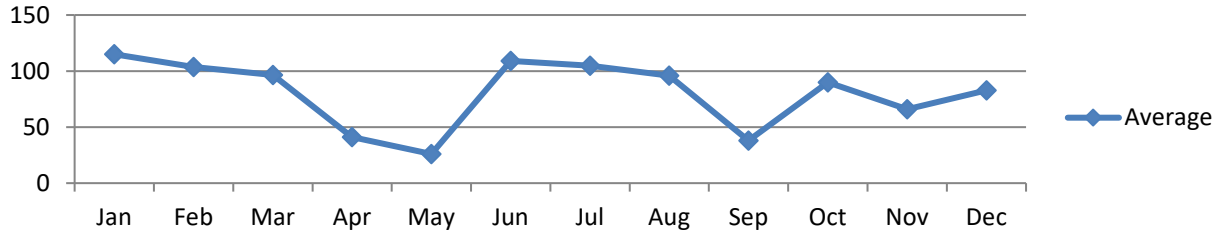
There are no imported wastes accepted at this facility.

5 Raw Sewage Quality

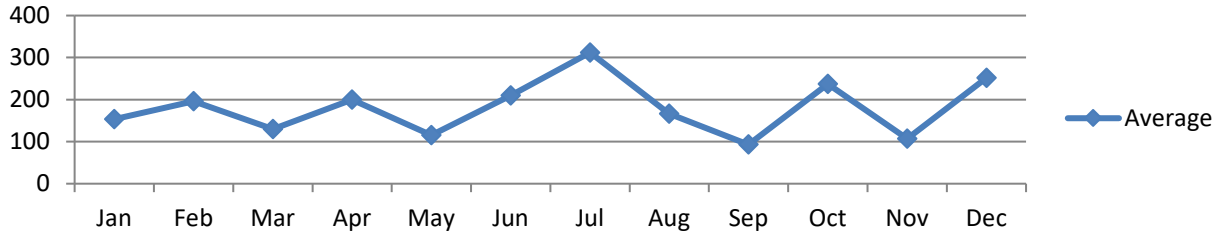
Current year minimum, maximum and averages are available in Appendix A – Performance Assessment Report.

5.1 Influent Trending

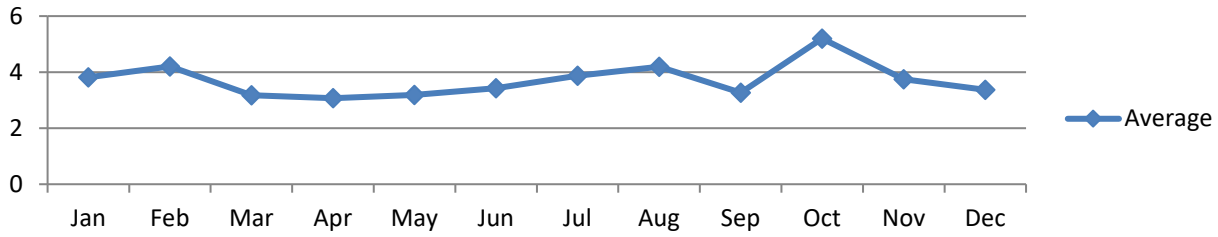
5.1.1 BOD5 (mg/L)



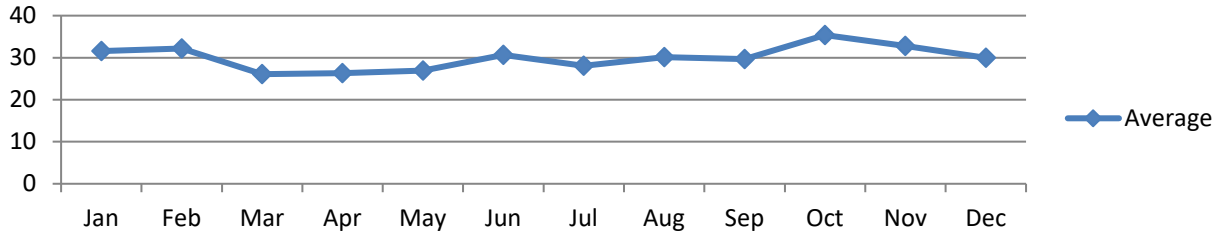
5.1.2 Total Suspended Solids (mg/L)



5.1.3 Total Phosphorus (mg/L)



5.1.4 Total Kjeldahl Nitrogen (mg/L)



5.2 Imported Waste Quality

None for this reporting year.

6 Effluent Quality

The Deep River STP received a new ECA #9291-D4PNN9 on August 1, 2024. The rated capacity of the plant was increased from 2,727 m3/d to 3,000 m3/d. The plant is now required to provide By-Pass Quarterly Reports to the MECP district office. Final Effluent objectives and limits were adjusted and can be found in the applicable tables below by parameter. The loading limits did not change from the previous ECA #1655-7P8SPE issued on Feb 26, 2009. Parameters that were added to the Monitoring Program in the new ECA included for the influent, BOD5, and for the effluent, Total Kjeldahl Nitrogen (TKN), and Nitrate and Nitrite as Nitrogen. You will see these parameters in the tables below.

The plant performed quite well in 2025, with no ECA Limit exceedances, however, there were (4) Objective exceedances:

- Three (3) for Total Ammonia Nitrogen (TAN) for the months of June, July and December; and
- One (1) for Total Suspended Solids (TSS) for the month of October. A summary of these can be found in Section 7.1.

6.1 Effluent Quality Assurance and Control Measures Taken

This system is part of OCWA's Laurentian View Cluster. The cluster is supported by the Eastern Regional Hub, and corporate resources. Operational Services are delivered by OCWA staff that live and work in the community. The systems are operated to meet compliance with applicable regulations. The system has comprehensive manuals detailing operations, maintenance, instrumentation, and emergency procedures. All procedures are treated as active documents and are updated as required. These documents are also part of OCWA's Quality & Environmental Management System.

The process is reviewed and maintained by certified operators. These operator's complete in-house rounds and testing to monitor the process. All Sampling and analysis follow approved methods and protocols for sampling, analysis and recording as specified in the Ministry's Procedure F-10-1, "Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works", the Ministry's publication, "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" and the publication, "Standard Methods for the Examination of Water and Wastewater".

All final effluent samples collected during the reporting period to meet legislated sampling requirements are submitted to Eurofins laboratory in Ottawa for analysis, with the exception of disinfection residuals and temperature. Eurofins laboratory in Ottawa has been deemed accredited by the Canadian Association for Laboratory Accreditation (CALA), meeting strict provincial guidelines including an extensive quality assurance/quality control program. By choosing this laboratory, the Ontario Clean Water Agency is ensuring appropriate control measures are undertaken during sample analysis. The disinfection residuals and temperature parameters are analyzed in the field at the time of sample collection by certified operators, to ensure accuracy and precision of the results obtained.

OCWA uses several computer systems which include:

- Process Data Management (PDM)

- This database program consolidates all operational data from a variety of sources including field data, online instrumentation, and electronic receipt of lab test results for reporting, tracking and analysis.

- Maximo – OCWA's Work Management System (WMS)
  - This program is used to track and schedule maintenance activities for all equipment in the system. It is also used to assign tasks for specific operational tasks.
- SCADA
  - Wide-area SCADA system allows for process optimization and data logging, process trending, remote alarming.

The operations team also has access to a network of operational compliance and process specialists to assist for emerging process issues. This aids in establishing additional control measures to ensure a quality effluent product.

Detailed individual sample results for both raw sewage and final effluent can be requested from the operating authority.

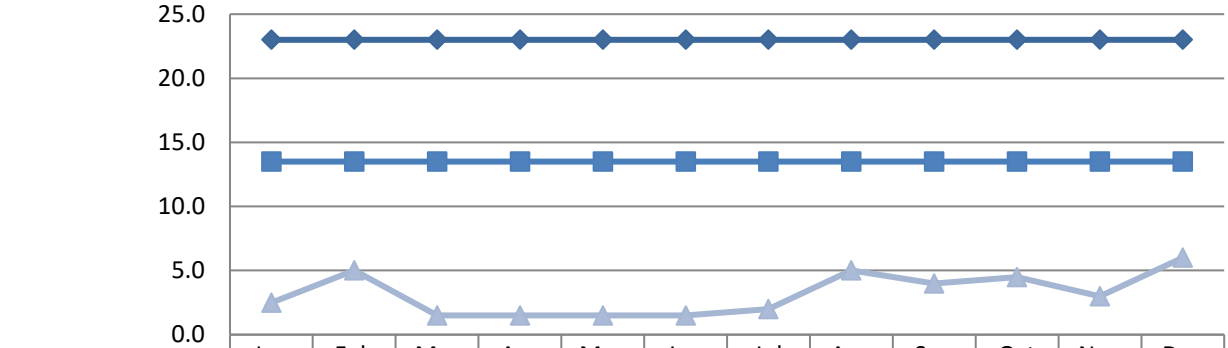
6.2 CBOD5

Compliance concentration limit for this parameter is based on the annual average being below 23.0 mg/L. The annual average for 2025 was 3.29 mg/L indicating compliance with the limit MET.

Compliance loading limit for this parameter is based on the annual average being below 68.2 kg/d. The annual average for 2025 was 6.33 kg/d indicating compliance with the limit MET.

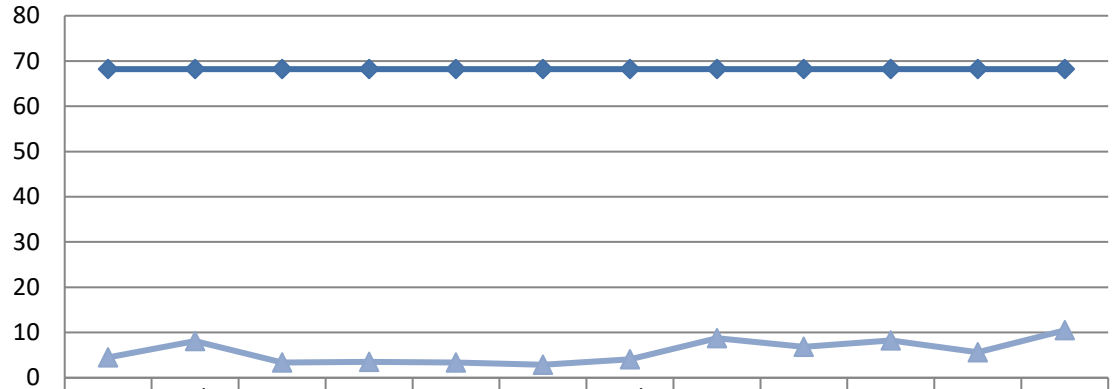
Compliance Objective (13.5 mg/L) for this parameter MET.

6.2.1 Concentration (mg/L)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
ECA Objective	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
Average	2.5	5.0	1.5	1.5	1.5	1.5	2.0	5.0	4.0	4.5	3.0	6.0

6.2.2 Loading (kg/d)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
Average	4.5	8.1	3.4	3.5	3.3	2.9	4.0	8.7	6.8	8.2	5.6	10.5

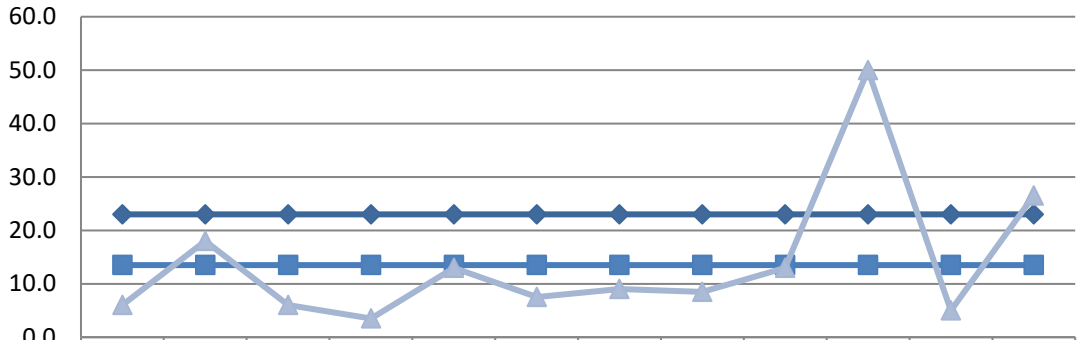
6.3 Total Suspended Solids

Compliance concentration limit for this parameter is based on the annual average being below 23.0 mg/L. The annual average for 2025 was 14.39 mg/L. Compliance Limit for this parameter MET.

Compliance loading limit for this parameter is based on the annual average being below 68.2 kg/d. The annual average for 2025 was 27.71 kg/d indicating compliance with the limit MET.

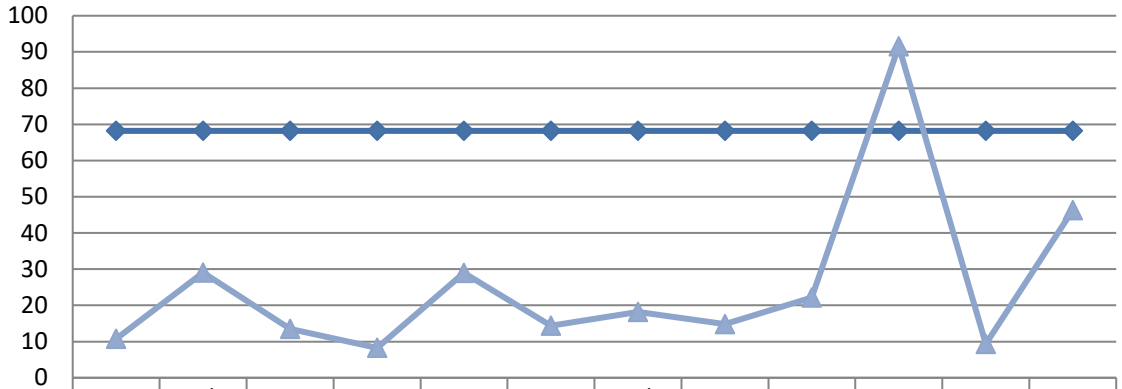
Compliance Objective is an annual average (13.5 mg/L) for this parameter and was not MET.

6.3.1 Concentration (mg/L)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
ECA Objective	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
Average	6.0	18.0	6.0	3.5	13.0	7.5	9.0	8.5	13.0	50.0	5.0	26.5

6.3.2 Loading (kg/d)



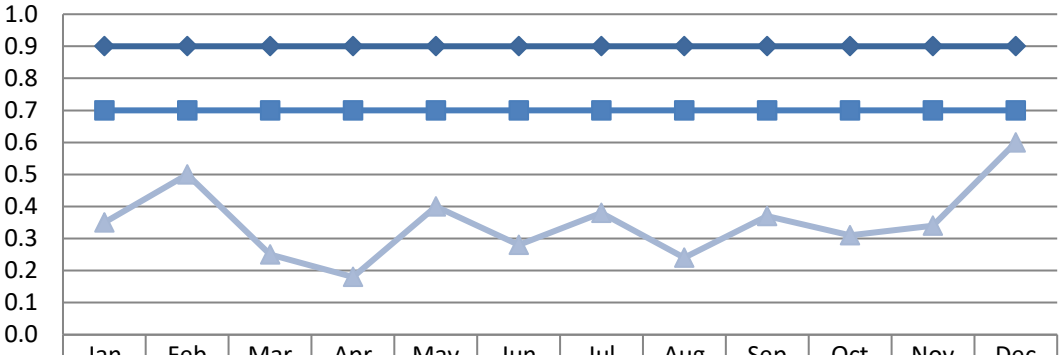
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
Average	10.77	29.08	13.49	8.25	28.97	14.38	18.21	14.81	22.16	91.57	9.35	46.30

6.4 Total Phosphorus

Compliance concentration limit for this parameter is based on the monthly average being below 0.9 mg/L. The monthly average for 2025 was 0.35 mg/L indicating compliance with the limit MET.

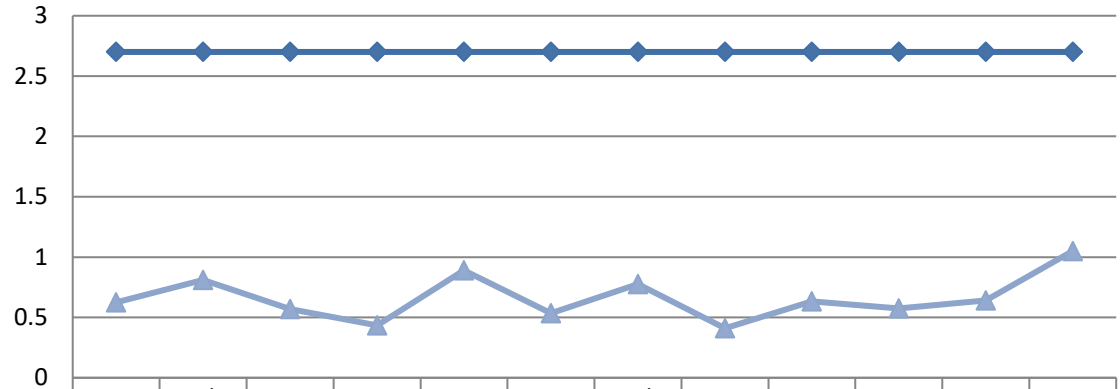
Compliance loading limit for this parameter is based on the annual average being below 2.7 kg/d. The annual average for 2025 was 0.68 kg/d indicating compliance with the limit MET.

Compliance Objective is a monthly average (0.7 mg/L) for this parameter and was MET.



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
ECA Objective	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Average	0.35	0.50	0.25	0.18	0.40	0.28	0.38	0.24	0.37	0.31	0.34	0.60

6.4.1 Loading (kg/d)



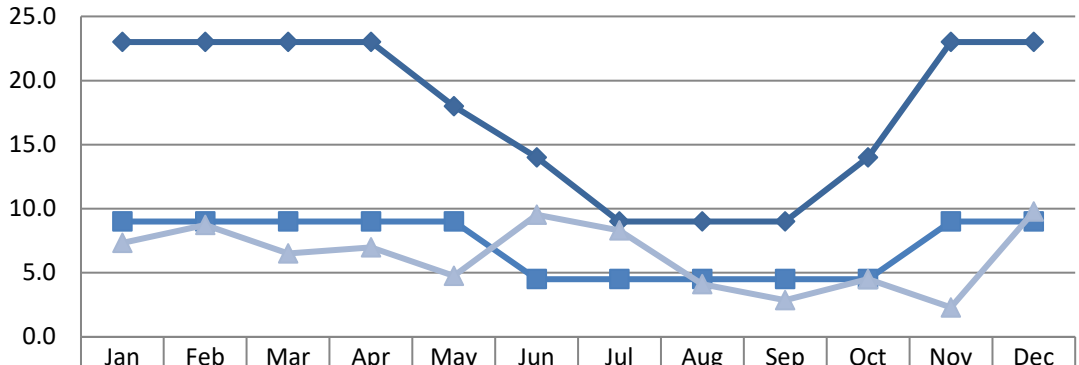
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
Average	0.63	0.81	0.57	0.43	0.89	0.54	0.78	0.41	0.63	0.58	0.64	1.05

6.5 Total Ammonia Nitrogen

Compliance concentration limit for this parameter is based on the differing monthly averages being below 23 mg/L. The annual average for 2025 was 6.43 mg/L indicating compliance with the limit MET.

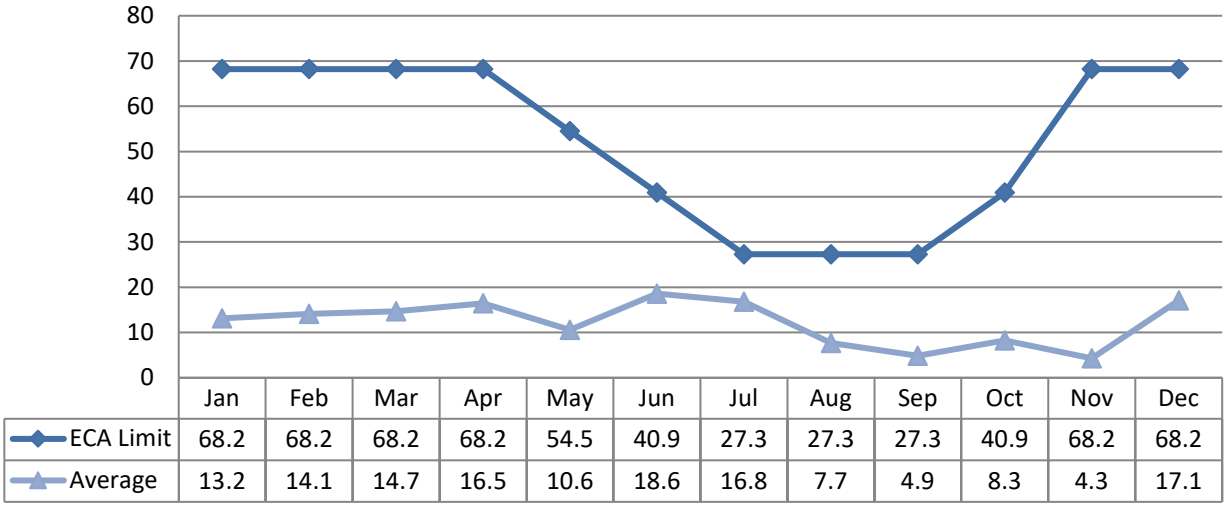
Compliance loading limit for this parameter is based on the differing monthly averages being between 27.3 – 68.2 kg/d. The annual average for 2025 was 12.38 kg/d indicating compliance with the limit MET.

Compliance Objectives (4.5/9.0 mg/L) for this parameter were not MET. The objective limit was not met in the months of June, July, October and December.



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	23.0	23.0	23.0	23.0	18.0	14.0	9.0	9.0	9.0	14.0	23.0	23.0
ECA Objective	9.0	9.0	9.0	9.0	9.0	4.5	4.5	4.5	4.5	4.5	9.0	9.0
Average	7	9	7	7	5	10	8	4	3	5	2	10

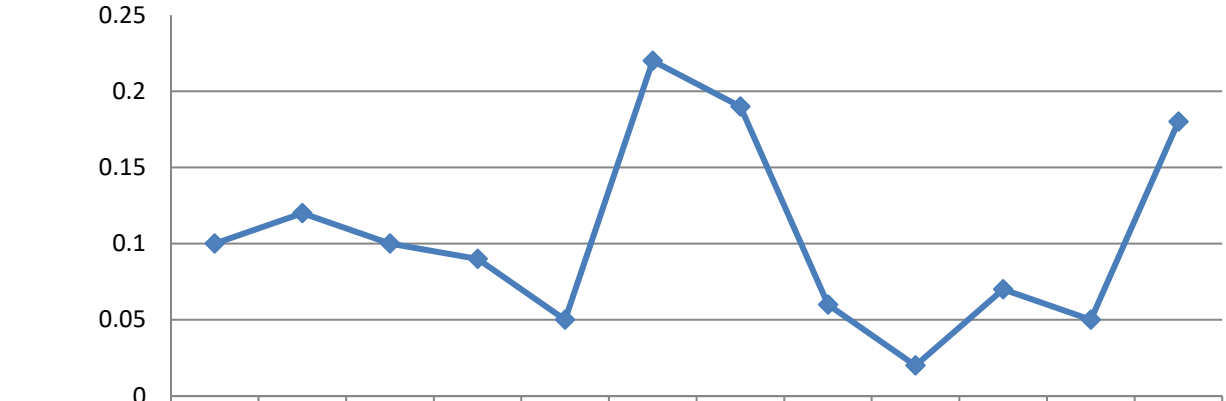
6.5.1 Loading (kg/d)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	68.2	68.2	68.2	68.2	54.5	40.9	27.3	27.3	27.3	40.9	68.2	68.2
Average	13.2	14.1	14.7	16.5	10.6	18.6	16.8	7.7	4.9	8.3	4.3	17.1

6.6 Un-ionized Ammonia

There are no compliance limits for this parameter.



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average	0.1	0.12	0.1	0.09	0.05	0.22	0.19	0.06	0.02	0.07	0.05	0.18

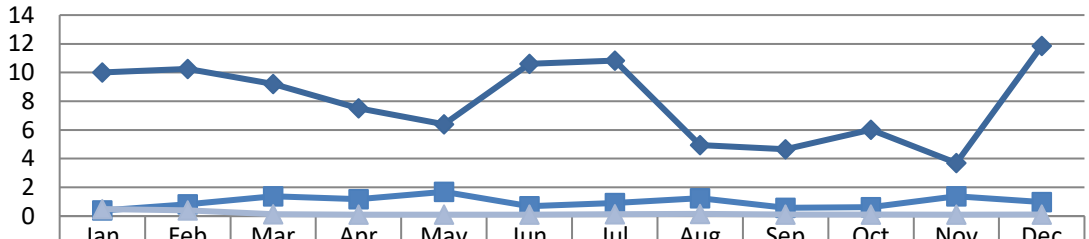
6.7 Acute Lethality

There was one (1) sample collected in 2024 and tested for acute lethality for both Rainbow Trout and Daphnia magna. This sampling is required annually, both provincially and federally. Results are displayed as % mortality. An adverse result is a > 50% mortality rate.

Date	Rainbow Trout	Daphnia Magna
July 15, 2025	0	0

6.8 Nitrate/Nitrite/TKN

There are no compliance or objective limits for these parameters. Final Effluent TKN, Nitrate and Nitrite were not required to be sampled and tested by an accredited lab, until the new ECA was issued in August 2024.

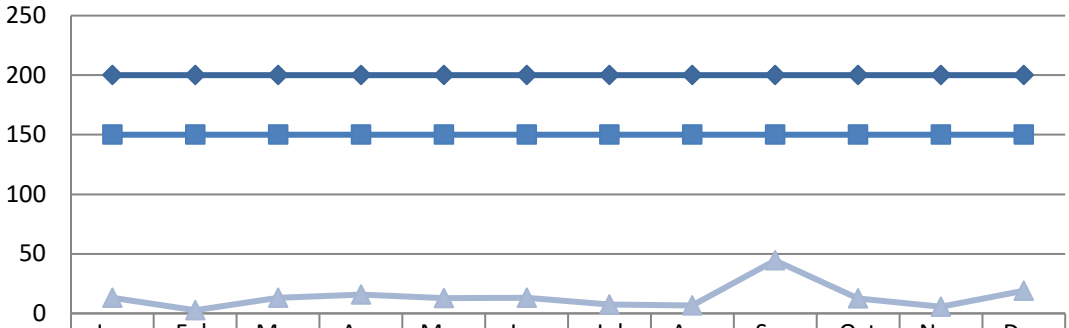


	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TKN	10	10.25	9.21	7.5	6.4	10.6	10.83	4.95	4.65	6.01	3.7	11.86
Nitrate	0.39	0.83	1.39	1.17	1.69	0.68	0.92	1.25	0.57	0.63	1.37	0.98
Nitrite	0.490	0.390	0.140	0.100	0.100	0.100	0.130	0.160	0.110	0.110	0.100	0.110

6.9 E-coli

Compliance Limit for this parameter MET.
Compliance Objective for this parameter MET.

Geometric Mean (cfu/100mL)

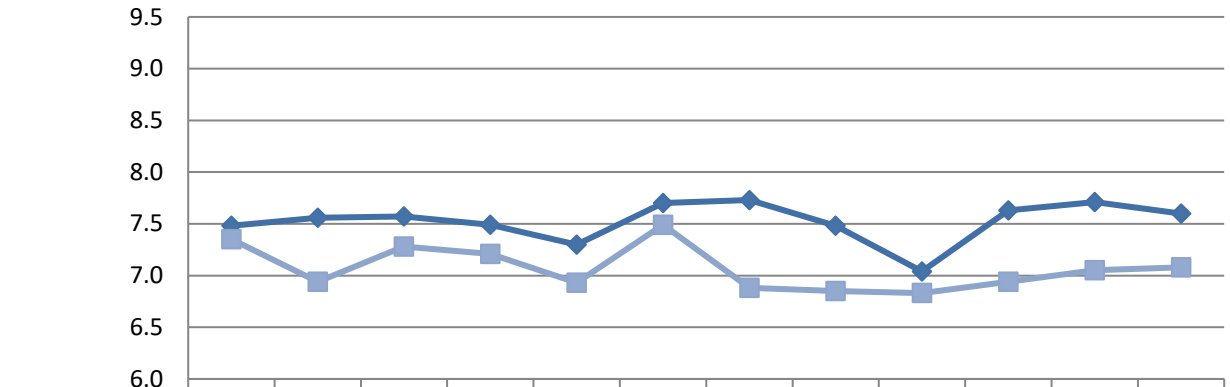


	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
ECA Limit	200	200	200	200	200	200	200	200	200	200	200	200
ECA Objective	150	150	150	150	150	150	150	150	150	150	150	150
Average	13.2	2.7	13.2	15.9	12.94	13.2	7.6	6.7	44.4	12.5	5.6	19.1

6.10 pH

Compliance Limit range for this parameter is 6.0 – 9.5. The parameter MET. Each instance the pH is outside of that range, it is reported as a non-compliance.

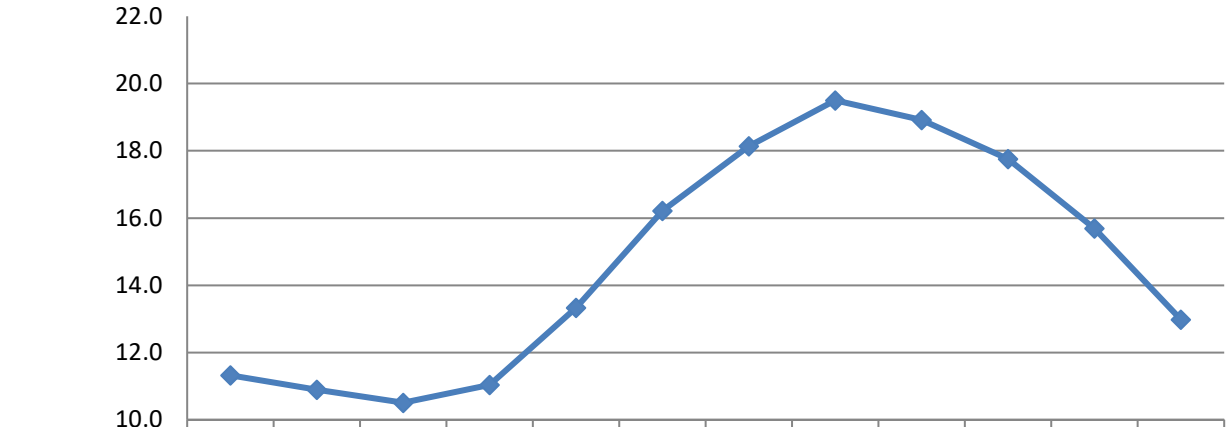
Compliance Objective range for this parameter is 6.5-8.5. The parameter MET.



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Maximum	7.5	7.6	7.6	7.5	7.3	7.7	7.7	7.5	7.0	7.6	7.7	7.6
Minimum	7.4	6.9	7.3	7.2	6.9	7.5	6.9	6.9	6.8	6.9	7.1	7.1

6.11 Temperature

There are no compliance limits or objectives defined for Effluent.



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Average C	11.3	10.9	10.5	11.0	13.3	16.2	18.1	19.5	18.9	17.8	15.7	13.0

7 Operating Issues/Problems

There were no major operating issues during 2025 at the Deep River sewage plant. However, there was three incidents where the final effluent objective of Total Ammonia Nitrogen (TAN) were exceeded, in June, July and December. The causes of these exceedances were a result of higher than normal influent ammonia concentrations, blower capacity problems that resulted in improper aeration rates and sludge blanket depths. Corrective actions included increased monitoring, increasing aeration time settings and running double blowers. These actions resulted in a more consistent dissolved oxygen (DO) to the process, enhancing the ammonia removal.

There was also one incident where the final effluent objective of Total Suspended Solids was exceeded in the month of October. Increased monitoring of the SBR's and increased aeration in the SBR's were

corrective actions taken. See below Section 7.1 for details.

7.1 Effluent Quality Non-Compliance Summary

Date	Exceedance of	Limit	Value	Corrective Action
Jun 2025	ECA Objective - TAN	4.5 mg/L	10 mg/L	Checked SBR aeration rates, sludge blanket depths, and monitored DO performance
Jul 2025	ECA Objective- TAN	4.5mg/L	8 mg/L	
Dec 2025	ECA Objective - TAN	9.0 mg/L	10 mg/L	
Oct 2025	ECA Objective - TSS	50.0 mg/L	13.5 mg/L	Increased monitoring of SBR's and increased aeration

7.2 Summary of Abnormal Sewage Discharge Events

There were no Abnormal Discharge Events (Bypass', Overflows, Diversions and Spills of Sewage) during 2025 for the Deep River STP.

7.3 Spills (Other than Sewage)

Date	Location	Details	Volume (m3)	Start Date and Time	End Date and Time
None to report for this year					

8 Maintenance

Routine planned maintenance activities are scheduled in WMS and include:

- Inspect, adjust and calibrate process control equipment to ensure proper operation of water distribution systems, pumps, chemical feeders, and all other equipment installed at the facilities.
- Carry out a routine maintenance program including greasing and oiling, as specified in the lubrication schedule.
- Perform day-to-day maintenance duties to equipment including checking machinery and electrical equipment when required.
- Maintain an equipment inventory.
- Maintain accurate records of work conducted, activities, and achievements.

Planned maintenance activities are communicated to the person responsible for completing the task through the issuance of WMS work orders. Work orders are automatically generated on a schedule as determined based on manufacturer's recommendations and site specific operational and maintenance needs and are assigned directly to the appropriate operations personnel. This schedule is set up by the designated WMS Primary. Work orders are completed and electronically entered into WMS, by the person responsible for completing the task.

Unplanned maintenance is conducted, as required.

8.1 Normal Maintenance and Repairs

Work Order	Details
4782142/4302619	Monthly and quarterly workplace inspections
4809656	Monthly building and ground maintenance and inspections
4540113	Annual Grating inspections
4556232	SBR #3 clean out by contractor
4578024	Annual Corporate H&S checklist inspection
4381188	CIMA building assessment for upgrades
4302625	Annual facility lighting inspections
4326322	Monthly diesel engine generator inspection and running offload
4326354/4326356/4326358	Monthly dissolved oxygen cleaning of the analyzer probes for the SBR's (3)
4326360	Monthly alarm testing of the alarms/dialer
4372998	Annual inspection and greasing of the centrifuge grit servicing
4474644	Annual diesel engine generator service by contractor
4474669	Third year inspection of fuel tanks by contractor
4474690	Annual inspections for the positive displacement digester and SBR blowers (5)
4474837	Annual inspection of the SBR tanks
4480918	Bi-annual inspection of the HVAC dehumidifier
4508307	Annual review of chemicals at the plant
4545699	Annual service of the final effluent sampler
4545708	Annual service of the raw sewage sampler
4545727/4545736	Annual service of submersible raw sewage pumps at headworks
4545745	Annual service of HVAC
4598724	Third year service of alum day tank
4598737	Annual service of the chlorine diaphragm pump
4643256	Annual Significant Drinking Water Assessment
4754260	Annual service of the flow meter for the raw sewage by contractor
4754302	Annual service of the flow meter for the WAS by contractor
4754324	Annual service of the compressor
4754344/4754350	Annual service of flow meter for the final effluent (FE) and the FE bypass by contractor
4757009	Annual lifting inspection by contractor
4772090/4772095/4772100	Annual service of the backflow preventors (3) at the plant
4808478	Annual service for the hot water tank
4808492/4808501	Annual service for the digester sludge transfer pump and the submersible sludge loading pump
4808510	Annual service of the aerobic digester by pumping out and inspecting in the spring

8.2 Emergency Maintenance and Repairs

Work Order	Details
4662537	Call in due to general alarm for SBR #2 mixing valve failed to close
4664097	Call in due to SBR #2 failure
4664797	Call in due to general alarm for SBR #2 valve failure
4910746	Call in due to FCV-224 failure to close
4910988	Call in due to FCV-224 failure to close

8.3 Flow Meter Calibrations and Maintenance

Location	Date of Calibration	Additional Maintenance
Influent Flow Meter	Oct. 10, 2025	N/A
Effluent Flow Meter	Oct. 10, 2025	N/A
Collection Flow Meters	No collection flow meters	

8.4 Authorized Alterations in Collection System

Work Order	Details	Significant Drinking Water Threat (Y/N)
No authorized alterations were made to the collection system in this reporting period.		

8.5 Notice of Modifications

Date	Process	Modification	Status
No notifications provided in this reporting period.			

9 Sludge Generation

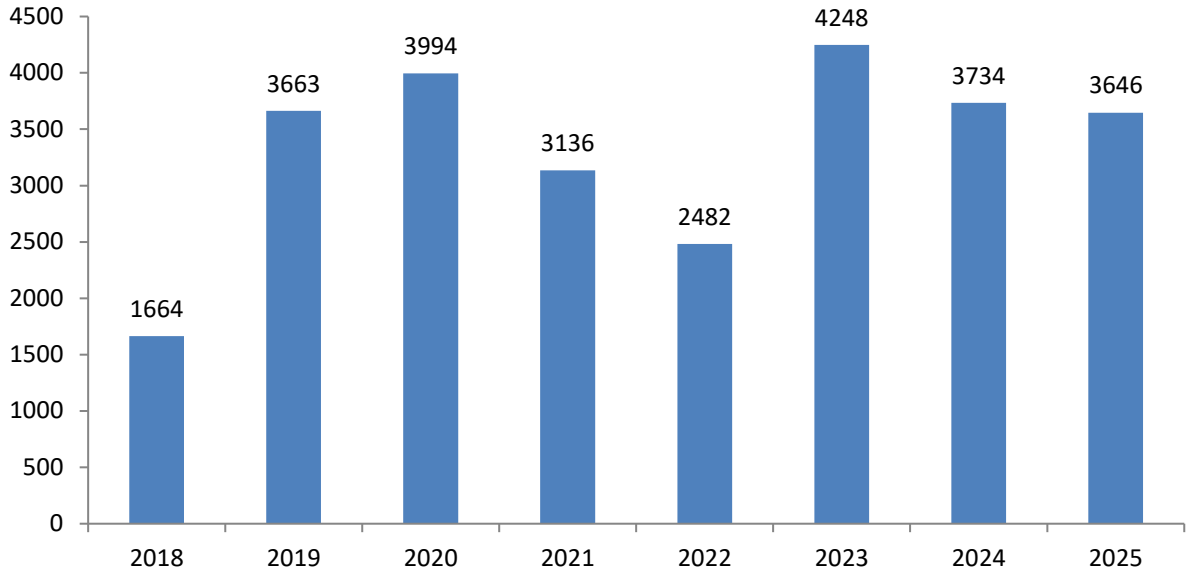
9.1 Sludge Volume Generation Summary

Month	Volume (m3)
January	
February	
March	
April	
May	2 115
June	
July	
August	
September	
October	1 261.89
November	269.96
December	
TOTAL	**3 646.85**

9.2 Sludge Disposal Summary – NASM Land Applications

Date	Disposal Location	NASM Approval Number	Total Volume (m3)
May 12	Scott Tabbert - Biggs Farm	25039	315
May 13	Scott Tabbert - Biggs Farm	25039	630
May 14	Scott Tabbert - Biggs Farm	25039	540
May 15	Scott Tabbert - Biggs Farm	25039	90
May 15	Scott Tabbert – Moore Farm	24707	225
May 16	Scott Tabbert - Moore Farm	24707	180
May 20	Scott Tabbert - Moore Farm	24707	135
Oct 27	Adam Yantha – Dave Yantha Farm	62947	179.56
Oct 28	Adam Yantha – Dave Yantha Farm	62947	406.06
Oct 29	Adam Yantha – Dave Yantha Farm	62947	406.34
Oct 30	Adam Yantha – Dave Yantha Farm	62947	269.93
Nov 3	Adam Yantha – Dave Yantha Farm	62947	179.88
Nov 4	Adam Yantha – Dave Yantha Farm	62947	90.08
		Total Sludge	**3 646.85**

9.3 Annual Comparison (m3/year)



It is anticipated that sludge volumes will be similar in the 2026 season, as in 2025.

10 Summary of Complaints

Location	Date	Nature of Complaint	Actions Taken
There were no complaints in this reporting year.			

Appendix A

Appendix A - Performance Assessment Report (PAR)

Ontario Clean Water Agency
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Performance Assessment Report

From 1/1/2025 to 12/31/2025 11:59:59 PM

5853 DEEP RIVER WASTEWATER TREATMENT FACILITY 120000612

	1 / 2025	2/ 2025	3/ 2025	4/ 2025	5/ 2025	6/ 2025	7/ 2025	8/ 2025	9/ 2025	10/ 2025	11/ 2025	12/ 2025	<--Total-->	<--Avg-->	<--Max-->	<-Criteria->
Flows																
Raw Flow: Total - Raw Sewage m³/d	55,667.91	45,227.77	69,713.99	70,691.51	69,074.02	57,524.77	62,714.30	54,027.89	51,134.11	56,772.27	56,111.32	54,158.00	702,817.86			0.00
Raw Flow: Avg - Raw Sewage m³/d	1,795.74	1,615.28	2,248.84	2,356.38	2,228.19	1,917.49	2,023.04	1,742.84	1,704.47	1,831.36	1,870.38	1,747.03		1,925.53		
Raw Flow: Max - Raw Sewage m³/d	2,458.97	1,926.70	3,952.46	2,961.47	3,089.62	2,342.08	3,155.38	2,148.58	1,928.81	2,580.52	2,343.53	2,002.40			3,952.46	0.00
Raw Flow: Count - Raw Sewage m³/d	31.00	28.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00	365.00			0.00
Eff. Flow: Total - Final Effluent m³/d	55,667.91	45,227.77	69,713.99	70,691.51	69,074.02	57,524.77	62,714.30	54,027.89	51,134.11	56,772.27	56,111.32	54,158.00	702,817.86			0.00
Eff. Flow: Avg - Final Effluent m³/d	1,795.74	1,615.28	2,248.84	2,356.38	2,228.19	1,917.49	2,023.04	1,742.84	1,704.47	1,831.36	1,870.38	1,747.03		1,925.53		3,000.00
Eff. Flow: Max - Final Effluent m³/d	2,458.97	1,926.70	3,952.46	2,961.47	3,089.62	2,342.08	3,155.38	2,148.58	1,928.81	2,580.52	2,343.53	2,002.40			3,952.46	0.00
Eff Flow: Count - Final Effluent m³/d	31.00	28.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00	365.00			0.00
Carbonaceous Biochemical Oxygen Demand: CBOD																
Raw: Avg cBOD5 - Raw Sewage mg/L	0.00	0.00	0.00	0.00	0.00	0.00	61.00	0.00	0.00	0.00	0.00	0.00		61.00	61.00	0.00
Raw: # of samples of cBOD5 - Raw Sewage	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00			0.00
Eff: Avg cBOD5 - Final Effluent mg/L	2.50	5.00	1.50	1.50	1.50	1.50	< 2.00	5.00	4.00	4.50	< 3.00	6.00		3.29	6.00	25.00
Eff: # of samples of cBOD5 - Final Effluent	2.00	2.00	2.00	2.00	2.00	2.00	4.00	2.00	2.00	2.00	2.00	4.00	28.00			0.00
Loading: cBOD5 - Final Effluent kg/d	4.489	8.076	3.373	3.535	3.342	2.876	< 4.046	8.714	6.818	8.241	< 5.611	10.482		6.33	10.48	
Biochemical Oxygen Demand: BOD5																
Raw: Avg BOD5 - Raw Sewage mg/L	115.00	103.50	96.50	41.00	26.00	109.00	104.67	96.00	38.00	90.00	66.00	82.75		81.74	115.00	0.00
Raw: # of samples of BOD5 - Raw Sewage	2.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	2.00	2.00	2.00	4.00	27.00			0.00
Percent Removal: BOD5 - Raw Sewage %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00		0.00
Total Suspended Solids: TSS																
Raw: Avg TSS - Raw Sewage mg/L	153.33	196.00	129.50	200.00	115.00	209.50	312.00	166.50	93.00	237.00	107.00	251.33		187.30	312.00	0.00
Raw: # of samples of TSS - Raw Sewage	3.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	2.00	2.00	2.00	3.00	27.00			0.00
Eff: Avg TSS - Final Effluent mg/L	6.00	18.00	6.00	3.50	13.00	7.50	9.00	8.50	13.00	< 50.00	5.00	26.50		14.39	50.00	25.00
Eff: # of samples of TSS - Final Effluent	2.00	2.00	2.00	2.00	2.00	2.00	4.00	2.00	2.00	2.00	2.00	4.00	28.00			0.00
Loading: TSS - Final Effluent kg/d	10.774	29.075	13.493	8.247	28.967	14.381	18.207	14.814	22.158	< 91.568	9.352	46.296		27.71	91.57	
Percent Removal: TSS - Raw Sewage %	96.09	90.82	95.37	98.25	88.70	96.42	97.12	94.89	86.02	78.90	95.33	89.46		92.28	98.25	0.00
Total Phosphorus: TP																
Raw: Avg TP - Raw Sewage mg/L	3.81	4.20	3.18	3.07	3.19	3.43	3.87	4.19	3.27	5.20	3.75	3.37		3.72	5.20	0.00
Raw: # of samples of TP - Raw Sewage	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	52.00			0.00
Eff: Avg TP - Final Effluent mg/L	0.35	0.50	0.25	0.18	0.40	0.28	0.38	0.24	0.37	0.31	0.34	0.60		0.35	0.60	1.00
Eff: # of samples of TP - Final Effluent	4.00	4.00	4.00	5.00	4.00	4.00	6.00	4.00	4.00	5.00	4.00	5.00	53.00			0.00

Loading: TP - Final Effluent kg/d	0.625	0.810	0.570	0.433	0.889	0.535	0.776	0.410	0.633	0.575	0.641	1.050		0.68	1.05	
Percent Removal: TP - Raw Sewage %	90.87	88.07	92.02	94.02	87.48	91.87	90.08	94.39	88.63	93.96	90.85	82.17		90.37	94.39	0.00
Nitrogen Series																
Raw: Avg TKN - Raw Sewage mg/L	31.55	32.20	26.08	26.30	26.95	30.65	28.06	30.13	29.68	35.38	32.78	30.00		29.98	35.38	0.00
Raw: # of samples of TKN - Raw Sewage	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	52.00			0.00
Eff: Avg TAN - Final Effluent mg/L	7.33	8.74	6.52	6.99	4.76	9.53	8.30	4.12	2.87	4.51	2.30	9.77		6.43	9.77	25.00
Eff: # of samples of TAN - Final Effluent	4.00	4.00	4.00	5.00	4.00	4.00	6.00	4.00	4.00	5.00	4.00	5.00	53.00			0.00
Loading: TAN - Final Effluent kg/d	13.154	14.118	14.651	16.471	10.601	18.269	16.798	7.176	4.883	8.263	4.293	17.075		12.38	18.27	
Disinfection																
Eff: GMD E. Coli - Final Effluent cfu/100mL	13.16	2.66	13.16	15.85	12.94	13.16	7.52	6.69	44.44	12.46	5.62	19.07				200.00
Eff: # of samples of E. Coli - Final Effluent	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	52.00			0.00

Appendix B

Appendix B - 2025 Monitoring Schedule

Ontario Clean Water Agency
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Deep River Wastewater Treatment
Sample Schedule 2025

January	Week 1	Wednesday Stat-1st	1-3
	Week 2		6-10
	Week 3		13-17
	Week 4		20-24
	Week 5		27-31
February	Week 1		1
	Week 2		3-7
	Week 3		10-14
	Week 4	Monday Stat-17th	17-21
	Week 5		24-28
March	Week 1		3-7
	Week 2		10-14
	Week 3		17-21
	Week 4		24-28
	Week 5		31

April	Week 1		1-4
	Week 2		7-11
	Week 3	Friday Stat-18th	14-18
	Week 4	Monday Stat-21st	20-25
	Week 5		28-30
May	Week 1		1-2
	Week 2		5-9
	Week 3		12-16
	Week 4	Monday Stat-19th	19-23
	Week 5		26-30
June	Week 1		2-6
	Week 2		9-13
	Week 3		16-20
	Week 4		23-27
	Week 5		30

July	Week 1	Tuesday Stat-1st	1-4
	Week 2		7-11
	Week 3		14-18
	Week 4		21-25
	Week 5		28-31
August	Week 1		1
	Week 2	Monday Stat-4th	4-8
	Week 3		11-15
	Week 4		18-22
	Week 5		25-29
September	Week 1	Monday Stat-1st	1-5
	Week 2		8-12
	Week 3		15-19
	Week 4		22-26
	Week 5	Tuesday Stat-30th	29-30

October	Week 1		1-3
	Week 2		6-10
	Week 3	Monday Stat-13th	13-17
	Week 4		20-24
	Week 5		27-31
November	Week 1		1
	Week 2		3-7
	Week 3	Tuesday Stat-11th	10-14
	Week 4		17-21
	Week 5		24-28
December	Week 1		1-5
	Week 2		8-12
	Week 3		15-19
	Week 4	Thurs/Fri Stats-25th/26th	22-26
	Week 5		29-31

Revisions

Date	Revision#	Author	Revision
07-Dec-2018	0	B.Royce	Created
18-Dec-2019	1	B.Royce	Edited for 2020
04-Nov-2020	2	B.Royce	Edited for 2021
09-Dec-2021	3	B.Royce	Edited for 2022
01-Dec-2022	4	B.Royce	Edited for 2023
07-Dec-2023	5	B.Royce	Edited for 2024
09-Dec-2024	6	B.Royce	Edited for 2025

WSER - Wastewater Systems Effluent Regulations
Annual Lethality Testing for Rainbow Trout & Daphnia magna
>2500 - <17500 (ADF) Average Day Effluent Flow of Previous Year - Bi-weekly Sampling of TSS & CBOD5

QEMS Ontario Clean Water Agency	External Laboratory Sample Schedule **Deep River Wastewater Treatment** **January 2025**	Issued: 09-Dec-2024 Rev.#: 6 Page 1 of 12
Reviewed by: Brenda Royce (PCT)		Approved by: Senior Ops Manager

Sample days = Tuesday

In the event of STAT, sample day moved to next working day

STAT- Wed. Jan. 1st

	Week 1			Week 2			Week 3			Week 4			Week 5		
	Stat-Wed 1st														
				7			**14**			**21**			**28**		
	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded
Final Effluent - EC (1 sample/week) 1 bottle required															
Final Effluent FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Final Effluent REG. RUN - (1 sample/Bi-weekly) 1 bottle required															
Raw Sewage FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Raw Sewage REG. RUN - (1 sample/Bi-weekly) 1 Bottle required															
Test Wells (Both Wells - EC) (1 sample/month) 2 bottles required															
Sludge Holding Tank (2 samples/month) 1 bottle required															
Sludge Holding Tank - E. COLI (2 samples/month) 1 bottle required															

GMD =

Additional Samples/Notes
If planning to spread sludge in April, take 2 samples in January to meet the 90-day requirement
This schedule is for guidance purposes only
Please refer to all regulatory requirements that affect the sampling schedule

QEMS Ontario Clean Water Agency	External Laboratory Sample Schedule **Deep River Wastewater Treatment** **February 2025**	Issued: 09-Dec-2024 Rev.#: 6 Page 2 of 12
Reviewed by: Brenda Royce (PCT)	Approved by: Senior Ops Manager	

Sample days = Tuesday

In the event of STAT sample day moved to next working day

STAT - Mon. Feb. 17th

	Week 1			Week 2			Week 3			Week 4			Week 5		
										Stat-Mon 17th					
				4			**11**			**18**			**25**		
	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded
Final Effluent - EC (1 sample/week) 1 bottle required															
Final Effluent FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Final Effluent REG. RUN - (1 sample/Bi-weekly) 1 bottle required															
Raw Sewage FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Raw Sewage REG. RUN - (1 sample/Bi-weekly) 1 Bottle required															
Test Wells (Both Wells - EC) (1 sample/month) 2 bottles required															
Sludge Holding Tank (2 samples/month) 1 bottle required															
Sludge Holding Tank - E. COLI (2 samples/month) 1 bottle required															

GMD =

Additional Samples/Notes
If planning to spread sludge in April, take 2 samples in February to meet the 60-day requirement
If planning to spread sludge in May, take 2 samples in February to meet the 90-day requirement
This schedule is for guidance purposes only
Please refer to all regulatory requirements that affect the sampling schedule

QEMS Ontario Clean Water Agency	External Laboratory Sample Schedule **Deep River Wastewater Treatment** **March 2025**	Issued: 09-Dec-2024 Rev.#: 6 Page 3 of 12
Reviewed by: Brenda Royce (PCT)	Approved by: Senior Ops Manager	

Sample day = Tuesday

In the event of STAT sample day moved to next working day

	Week 1			Week 2			Week 3			Week 4			Week 5		
				4			**11**			**18**			**25**		
	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded
Final Effluent - EC (1 sample/week) 1 bottle required															
Final Effluent FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Final Effluent REG. RUN - (1 sample/Bi-weekly) 1 bottle required															
Raw Sewage FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Raw Sewage REG. RUN - (1 sample/Bi-weekly) 1 Bottle required															
Test Wells (Both Wells - EC) (1 sample/month) 2 bottles required															
Sludge Holding Tank (2 samples/month) 1 bottle required															
Sludge Holding Tank - E. COLI (2 samples/month) 1 bottle required															

GMD =

Additional Samples/Notes
If planning to spread sludge in April, take 2 samples in March to meet the 30-day requirement
If planning to spread sludge in May, take 2 samples in March to meet the 60-day requirement
If planning to spread sludge in June, take 2 samples in March to meet the 90-day requirement
This schedule is for guidance purposes only
Please refer to all regulatory requirements that affect the sampling schedule

QEMS Ontario Clean Water Agency	External Laboratory Sample Schedule **Deep River Wastewater Treatment** **April 2025**	Issued: 09-Dec-2024 Rev.#: 6 Page 4 of 12
Reviewed by: Brenda Royce (PCT)	Approved by: Senior Ops Manager	

Sample days = Tuesday

In the event of STAT sample day moved to next working day

STAT - Mon. Apr. 1st

	Week 1			Week 2			Week 3			Week 4			Week 5		
							Stat-Fri 18th			***Stat-Mon 21st***					
	1			**8**			**15**			**22**			**29**		
	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded
Final Effluent - EC (1 sample/week) 1 bottle required															
Final Effluent FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Final Effluent REG. RUN - (1 sample/Bi-weekly) 1 bottle required															
Raw Sewage FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Raw Sewage REG. RUN - (1 sample/Bi-weekly) 1 Bottle required															
Test Wells (Both Wells - EC) (1 sample/month) 2 bottles required															
Sludge Holding Tank (2 samples/month) 1 bottle required															
Sludge Holding Tank - E. COLI (2 samples/month) 1 bottle required															

GMD =

Additional Samples/Notes

2 sludge holding samples MUST be completed monthly until the end of the hauling season

If planning to spread sludge in May, take 2 samples in April to meet the 30-day requirement

If planning to spread sludge in June, take 2 samples in April to meet the 60-day requirement

This schedule is for guidance purposes only

Please refer to all regulatory requirements that affect the sampling schedule

QEMS Ontario Clean Water Agency	External Laboratory Sample Schedule **Deep River Wastewater Treatment** **May 2025**	Issued: 09-Dec-2024 Rev.#: 6 Page 5 of 12
Reviewed by: Brenda Royce (PCT)	Approved by: Senior Ops Manager	

Sample days = Tuesday

In the event of STAT sample day moved to next working day

STAT- Monday, May 19th

	Week 1			Week 2			Week 3			Week 4			Week 5		
										Stat-Mon 19th					
				6			**13**			**20**			**27**		
	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded
Final Effluent - EC (1 sample/week) 1 bottle required															
Final Effluent FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Final Effluent REG. RUN - (1 sample/Bi-weekly) 1 bottle required															
Raw Sewage FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Raw Sewage REG. RUN - (1 sample/Bi-weekly) 1 Bottle required															
Test Wells (Both Wells - EC) (1 sample/month) 2 bottles required															
Sludge Holding Tank (2 samples/month) 1 bottle required															
Sludge Holding Tank - E. COLI (2 samples/month) 1 bottle required															

GMD =

Additional Samples/Notes
2 sludge holding samples must be completed monthly until the end of the hauling season
If planning to spread sludge in June, take 2 samples in May to meet the 30-day requirement
This schedule is for guidance purposes only
Please refer to all regulatory requirements that affect the sampling schedule

QEMS Ontario Clean Water Agency	External Laboratory Sample Schedule **Deep River Wastewater Treatment** **June 2025**	Issued: 09-Dec-2024 Rev.#: 6 Page 6 of 12
Reviewed by: Brenda Royce (PCT)	Approved by: Senior Ops Manager	

Sample days = Tuesday

In the event of STAT sample day moved to next working day

	Week 1			Week 2			Week 3			Week 4			Week 5		
	3			**10**			**17**			**24**					
	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded
Final Effluent - EC (1 sample/week) 1 bottle required															
Final Effluent FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Final Effluent REG. RUN - (1 sample/Bi-weekly) 1 bottle required															
Raw Sewage FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Raw Sewage REG. RUN - (1 sample/Bi-weekly) 1 Bottle required															
Test Wells (Both Wells - EC) (1 sample/month) 2 bottles required															
Sludge Holding Tank (2 samples/month) 1 bottle required															
Sludge Holding Tank - E. COLI (2 samples/month) 1 bottle required															

GMD =

Additional Samples/Notes
2 sludge holding samples must be completed monthly until the end of the hauling season
This schedule is for guidance purposes only
Please refer to all regulatory requirements that affect the sampling schedule

Sample days = Tuesday

In the event of STAT sample day moved to next working day

STAT - Tues. July 1st

	Week 1			Week 2			Week 3			Week 4			Week 5		
	STAT-Tues 1st														
	2			**8**			**15**			**22**			**29**		
	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded
Final Effluent - EC (1 sample/week) 1 bottle required															
Final Effluent FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Final Effluent REG. RUN - (1 sample/Bi-weekly) 1 bottle required															
Raw Sewage FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Raw Sewage REG. RUN - (1 sample/Bi-weekly) 1 Bottle required															
Test Wells (Both Wells - EC) (1 sample/month) 2 bottles required															
Sludge Holding Tank (2 samples/month) 1 bottle required															
Sludge Holding Tank - E. COLI (2 samples/month) 1 bottle required															
Final Effluent - Acute Lethality Test - (1 sample/year) 1 bucket required**															

GMD =

Additional Samples/Notes
2 sludge holding samples must be completed monthly until the end of the hauling season
****Sample to be sent by Purolator Courier to Aquatox - BE SURE TO USE APPROPRIATE CHAIN OF CUSTODY & SAMPLING FOR BOTH RAINBOW TROUT AND DAPHNIA MAGNA.**
IF EFFLUENT IS NOT GOOD, HOLD OFF ANOTHER MONTH OR SO, BUT ADVISE PCT.
This schedule is for guidance purposes only
Please refer to all regulatory requirements that affect the sampling schedule

QEMS Ontario Clean Water Agency	External Laboratory Sample Schedule **Deep River Wastewater Treatment** **August 2025**	Issued: 09-Dec-2024 Rev.#: 6 Page 8 of 12
Reviewed by: Brenda Royce (PCT)	Approved by: Senior Ops Manager	

Sample days = Tuesday

In the event of STAT sample day moved to next working day

STAT - Mon. Aug. 4th

	Week 1			Week 2			Week 3			Week 4			Week 5		
				Stat-Mon 4th											
				5			**12**			**19**			**26**		
	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded
Final Effluent - EC (1 sample/week) 1 bottle required															
Final Effluent FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Final Effluent REG. RUN - (1 sample/Bi-weekly) 1 bottle required															
Raw Sewage FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Raw Sewage REG. RUN - (1 sample/Bi-weekly) 1 Bottle required															
Test Wells (Both Wells - EC) (1 sample/month) 2 bottles required															
Sludge Holding Tank (2 samples/month) 1 bottle required															
Sludge Holding Tank - E. COLI (2 samples/month) 1 bottle required															

GMD =

Additional Samples/Notes
2 sludge holding samples must be completed monthly until the end of the hauling season
This schedule is for guidance purposes only
Please refer to all regulatory requirements that affect the sampling schedule

QEMS Ontario Clean Water Agency	External Laboratory Sample Schedule **Deep River Wastewater Treatment** **September 2025**	Issued: 09-Dec-2024 Rev.#6 Page 9 of 12
Reviewed by: Brenda Royce (PCT)	Approved By: Senior Ops Manager	

Sample days = Tuesday

In the event of STAT sample day moved to next working day

STAT - Mon. Sept. 1st & Tues. Sept. 30th

	Week 1			Week 2			Week 3			Week 4			Week 5		
	Stat-Mon 1st												***Stat-Tues 30th***		
	2			**9**			**16**			**23**					
	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded
Final Effluent - EC (1 sample/week) 1 bottle required															
Final Effluent FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Final Effluent REG. RUN - (1 sample/Bi-weekly) 1 bottle required															
Raw Sewage FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Raw Sewage REG. RUN - (1 sample/Bi-weekly) 1 Bottle required															
Test Wells (Both Wells - EC) (1 sample/month) 2 bottles required															
Sludge Holding Tank (2 samples/month) 1 bottle required															
Sludge Holding Tank - E. COLI (2 samples/month) 1 bottle required															

GMD =

Additional Samples/Notes
2 sludge holding samples must be completed monthly until the end of the hauling season
This schedule is for guidance purposes only
Please refer to all regulatory requirements that affect the sampling schedule

QEMS Ontario Clean Water Agency	External Laboratory Sample Schedule **Deep River Wastewater Treatment** **October 2025**	Issued: 09-Dec-2024 Rev.#: 6 Page 10 of 12
Reviewed by: Brenda Royce (PCT)	Approved by: Senior Ops Manager	

Sample days = Tuesday

In the event of STAT sample day moved to next working day

STAT - Mon. Oct. 13th

	Week 1			Week 2			Week 3			Week 4			Week 5		
							Stat-Mon 13th								
	1			**7**			**14**			**21**			**28**		
	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded
Final Effluent - EC (1 sample/week) 1 bottle required															
Final Effluent FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Final Effluent REG. RUN - (1 sample/Bi-weekly) 1 bottle required															
Raw Sewage FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Raw Sewage REG. RUN - (1 sample/Bi-weekly) 1 Bottle required															
Test Wells (Both Wells - EC) (1 sample/month) 2 bottles required															
Sludge Holding Tank (2 samples/month) 1 bottle required															
Sludge Holding Tank - E. COLI (2 samples/month) 1 bottle required															

GMD =

Additional Samples/Notes
2 sludge holding samples must be completed monthly until the end of the hauling season
This schedule is for guidance purposes only
Please refer to all regulatory requirements that affect the sampling schedule

QEMS Ontario Clean Water Agency	External Laboratory Sample Schedule **Deep River Wastewater Treatment** **November 2025**	Issued: 09-Dec-2024 Rev.#: 6 Page 11 of 12
Reviewed by: Brenda Royce (PCT)	Approved by: Senior Ops Manager	

Sample days = Tuesday

In the event of STAT sample day moved to next working day

STAT - Tues. Nov. 11th

	Week 1			Week 2			Week 3			Week 4			Week 5		
							Stat-Tues 11th								
				4			**12**			**18**			**25**		
	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded
Final Effluent - EC (1 sample/week) 1 bottle required															
Final Effluent FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Final Effluent REG. RUN - (1 sample/Bi-weekly) 1 bottle required															
Raw Sewage FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Raw Sewage REG. RUN - (1 sample/Bi-weekly) 1 Bottle required															
Test Wells (Both Wells - EC) (1 sample/month) 2 bottles required															
Sludge Holding Tank (2 samples/month) 1 bottle required															
Sludge Holding Tank - E. COLI (2 samples/month) 1 bottle required															

GMD =

Additional Samples/Notes
2 sludge holding samples must be completed monthly until the end of the hauling season
This schedule is for guidance purposes only
Please refer to all regulatory requirements that affect the sampling schedule

QEMS Ontario Clean Water Agency	External Laboratory Sample Schedule **Deep River Wastewater Treatment** **December 2025**	Issued: 09-Dec-2024 Rev.#: 6 Page 12 of 12
Reviewed by: Brenda Royce (PCT)	Approved by: Senior Ops Manager	

Sample days = Tuesday

In the event of STAT sample day moved to next working day

STAT - Thurs. Dec. 25th & Fri. Dec. 26th

	Week 1			Week 2			Week 3			Week 4			Week 5		
										Stats-Thurs 25th & Fri 26th					
	2			**9**			**16**			**23**			**30**		
	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded	Sampled	Received	Uploaded
Final Effluent - EC (1 sample/week) 1 bottle required															
Final Effluent FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Final Effluent REG. RUN - (1 sample/Bi-weekly) 1 bottle required															
Raw Sewage FULL RUN (includes CBOD5 & TSS) - (2 samples/monthly) 2 bottles required															
Raw Sewage REG. RUN - (1 sample/Bi-weekly) 1 Bottle required															
Test Wells (Both Wells - EC) (1 sample/month) 2 bottles required															
Sludge Holding Tank (2 samples/month) 1 bottle required															
Sludge Holding Tank - E. COLI (2 samples/month) 1 bottle required															

GMD =

Additional Samples/Notes
2 sludge holding samples must be completed monthly until the end of the hauling season
Ensure there are materials to complete Acute Lethality Testing in 2025 (July)
This schedule is for guidance purposes only
Please refer to all regulatory requirements that affect the sampling schedule

Appendix C

Appendix C - Details of Abnormal Sewage Discharge Events

(NONE TO REPORT FOR 2025)

Event Details Summary

Facility Bypass

Date	Location	Details	Volume (m3)	Start Time	End Time	Duration (h)	Discharge Receiver	Disinfection Provided
N/A								

Facility Overflow

Date	Location	Details	Volume (m3)	Start Time	End Time	Duration (h)	Discharge Receiver	Disinfection Provided
N/A								

Collection Overflow

There are no authorized overflow locations in this system.

Spills of Sewage

Date	Location	Details	Volume (m3)	Start Time	End Time	Duration (h)	Discharge Receiver	Disinfection Provided
N/A								

Collection System Monitoring Data

Event Date	Event Location	Volume (m3)	Parameter	mg/L	Source Loading	Any Adverse Impacts & Corrective Actions
N/A			BOD			
			Total Suspended Solids			
			Total Phosphorus			
			Total Kjeldahl Nitrogen (TKN)			
			E.Coli			

Appendix C

Appendix C - ECA Annual Report Requirements

Facility ECA #1655-7P8SPE **Section 10(6)**	**Section in Report**
A summary and interpretation of all monitoring data and a comparison to the effluent limits outlined in Condition 7, including an overview of the success and adequacy of the works;	Treatment Flows Effluent Quality
A description of any operating problems encountered and corrective actions taken;	Operating Issues/Problems
A summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the works;	Maintenance
A summary of any effluent quality assurance or control measures undertaken in the reporting period;	Effluent Quality
A summary of the calibration and maintenance carried out on all effluent monitoring equipment; and	Maintenance
A description of efforts made and results achieved in meeting the Effluent Objectives of Condition 6	Effluent Quality
A tabulation of the volumes to be generated in the next reporting period and a summary of the location to where the sludge was disposed;	Sludge Generation
A summary of any complaints received during the reporting period and any steps taken to address the complaints	Summary of Complaints
A summary of all By-pass, spill or abnormal discharge events; and	Operating Issues/Problems
Any other information the District Manager requires from time to time;	N/A

Collection ECA # **Schedule E**	**Section in Report**
4.6.3 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.	Operating Issues and Problems
4.6.4 Includes a summary of any operating problems encountered and corrective actions taken.	Operating Issues and Problems
4.6.5 Includes 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.	Maintenance
4.6.6 Includes a summary of any complaints related to the Sewage Works received during the reporting period and any steps taken to address the complaints.	Summary of Complaints
4.6.7 Includes 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.	Maintenance
4.6.8 Includes a summary of all Collection System Overflow(s) and Spill(s) of Sewage, including:	Operating Issues/Problems

Collection ECA # **Schedule E**	**Section in Report**
a) Dates; b) Volumes and durations; c) If applicable, loadings for total suspended solids, BOD, total phosphorus, and total Kjeldahl nitrogen, and sampling results for E. Coli; d) Disinfection, if any; and e) Any adverse impact(s) and any corrective actions, if applicable.	
4.6.9 Includes a summary of efforts made to reduce Collection System Overflows, Spills, STP Overflows, and/or STP Bypasses, including the following items, as applicable: a) 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. b) Details of the establishment and maintenance of a PPCP, including a summary of project progresses compared to the PPCP's timelines. c) An assessment of the effectiveness of each action taken. d) 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. e) Public reporting approach including proactive efforts.	Maintenance Operating Issues and Problems