Ontario Clean Water Agency
Agence Ontarienne Des Eaux

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March 30, 2026

Re: 2025 Annual Performance Report for the Paris Water Pollution Control Plant

Attached is the 2025 Annual Performance Report for the Paris Water Pollution Control Plant located at 120 Race Street, Paris Ontario. This report has been completed in accordance with:

- Condition No. 11(4)(a)-(n) cited in Amended Environmental Compliance Approval #5134-CN5PSC

This report was prepared by the Ontario Clean Water Agency on behalf of the County of Brant based on the information we have in our records. The report covers the period from January 1, 2025 to December 31, 2025.

Sincerely,

Raisa Blitterswyk
Process and Compliance Technician
Ontario Clean Water Agency

Cc.
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2025

ANNUAL PERFORMANCE REPORT

PARIS WATER POLLUTION CONTROL PLANT

120 RACE STREET, BRANT COUNTY

MECP ENVIRONMENTAL COMPLIANCE APPROVALS:

5134-CN5PSC (Wastewater – Dated October 11, 2023)

7078-D5HR3P (Air & Noise – Dated November 15, 2024)

BY THE OPERATING AUTHORITY: ONTARIO CLEAN WATER AGENCY

PREPARED FOR: THE MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS

ON BEHALF OF: THE COUNTY OF BRANT

TABLE OF CONTENTS

Executive Summary 5

Introduction 5

TABLE 1 – INFLUENT SAMPLING REQUIREMENTS 8

TABLE 2 – IMPORTED LEACHATE – LEACHATE RECEIVING STATION 8

TABLE 3 - FINAL EFFLUENT SAMPLING REQUIREMENTS 8

(II) Summary and Interpretation of All Monitoring Data and Comparison to the Effluent Limits 8

TABLE 4 – FINAL EFFLUENT AVERAGE MONTHLY CONCENTRATIONS 8

TABLE 5 – COMPARISON TO EFFLUENT OBJECTIVES 9

TABLE 6 – COMPARISON TO EFFLUENT LIMITS 9

TABLE 7 – TREATMENT EFFICIENCY FOR $CBOD_5$ REMOVAL 9

TABLE 8 – TREATMENT EFFICIENCY FOR SUSPENDED SOLIDS REMOVAL 10

TABLE 9 – TREATMENT EFFICIENCY FOR PHOSPHORUS REMOVAL 10

TABLE 10 – EFFLUENT FLOW DATA 11

GRAPH 1 – 2025 MONTHLY AVERAGE DAILY AND PEAK EFFLUENT FLOWS (m^3) 11

(IV) SUMMARY OF LEACHATE VOLUMES 12

TABLE 11– LEACHATE RECEIVED (m^3) 12

(V) OPERATING PROBLEMS ENCOUNTERED 13

(VI) MAINTENANCE PERFORMED ON MAJOR EQUIPMENT, STRUCTURES, EQUIPMENT 14

TABLE 12– UPGRADES/MAINTENANCE 14

(VII) EFFLUENT QUALITY ASSURANCE AND CONTROL MEASURES 16

TABLE 13–INFLUENT AVERAGE MONTHLY CONCENTRATIONS 16

TABLE 14 – INFLUENT- HISTORICAL COMPARISON 16

TABLE 15– 2025 PER CAPITA FLOWS AND LOADINGS 17

(VIII) CALIBRATIONS 17

(IX) MEETING THE EFFLUENT OBJECTIVES OF CONDITION 6 17

(X) SOLIDS/SLUDGE HANDLING AND DISPOSAL 17

TABLE 16– QUANTITY OF DEWATERED BIOSOLIDS HAULED TO STORAGE 17

TABLE 17– 2025 PARIS BIOSOLIDS HAULAGE AND CONDITIONING SITES 18

TABLE 18– TOTAL LIQUID BIOSOLIDS RECEIVED FROM EXTERNAL SITES 18

TABLE 19– PARIS LIQUID AEROBIC BIOSOLIDS ANALYTICAL* 19

TABLE 20– METAL CONCENTRATIONS – LIQUID AEROBIC BIOSOLIDS 19

TABLE 21– PARIS DEWATERED AEROBIC BIOSOLIDS 20
TABLE 22– METAL CONCENTRATIONS – DEWATERED AEROBIC BIOSOLIDS 20
TABLE 23- METAL WEIGHTS AEROBIC DEWATERED BIOSOLIDS (MG/KG) 21
(XI) SUMMARY OF COMPLAINTS RECEIVED 21
TABLE 24– COMMUNITY COMPLAINTS 21
(XII) SUMMARY OF BY-PASS, SPILL OR ABNORMAL DISCHARGE EVENTS 22
(XIII) NOTICE OF MODIFICATIONS TO SEWAGE WORKS 22
(XIV) SUMMARY OF EFFORTS MADE TO ACHIEVE CONFORMANCE WITH F-5-1 22
(XV) CHANGES OR UPDATES FOR CONSTRUCTION AT PLANT 22
APPENDIX A 24
CALIBRATION REPORTS 24
APPENDIX B 32
ACUTE LETHALITY RESULTS 32
APPENDIX C 35
2026 PARIS WPCP SAMPLE CALENDAR 35

Executive Summary

The County of Brant is committed to providing a high level of service in the collection, treatment and management of wastewater. The Ontario Clean Water Agency (OCWA) is currently contracted by the County of Brant to operate the County's wastewater treatment facilities, pumping stations and provide Overall Responsible Operator and Operator in Charge services for the wastewater collection systems.

The Paris Water Pollution Control Plant (Paris WPCP) provides treatment of commercial, residential, and institutional wastewater collected for the community of Paris in the County of Brant. The Treatment facility is located at 120 Race Street and is an extended aeration sewage treatment plant with a rated capacity of 7,056 m^3/day.

This report documents the performance of the sewage works in 2025, as required by the Ministry of the Environment, Conservation and Parks (MECP) Environmental Compliance Approval (ECA) (ECA) 5134-CN5PSC (Dated October 11, 2023) and 7078-D5HR3P (Air and Noise, Dated November 15, 2024).

The Paris WPCP is an extended aeration plant providing primary and secondary treatment. Final effluent is discharged to the Grand River. Wasted activated sludge travels through an aerobic digestion process, prior to dewatering.

The average daily wastewater flow for this reporting period was 4,037 m^3/day, which is down 16% compared to 2024 flows and is 57% of the rated capacity.

The Paris WPCP performed well during the 2025 reporting period satisfying all ECA compliance conditions.

The facility recorded the following treatment efficiencies: carbonaceous biochemical oxygen demand ($CBOD_5$) 97.9% reduction, Total Suspended Solids (TSS) 96.7% reduction, and Total Phosphorous (TP) 91.4% reduction.

The Paris WPCP utilizes a three-stage aerobic digestion process and a liquid biosolids dewatering centrifuge. Liquid biosolids are dewatered through a centrifuge and transferred to the biosolids storage facility located at the Closed Paris landfill (40 Railway Street, Paris). A total of 1,134,079 kg of dewatered biosolids were generated during the 2025 reporting period. The biosolids are transported for use on agricultural land as a conditioning agent.

The facility has the provision for raw sewage bypass directly to the Grand River. During this reporting period there were no bypass events.

INTRODUCTION

Wastewater treatment and collection systems in Ontario are governed by the Ministry of the Environment, Conservation and Parks (MECP) and are also subject to federal legislation. The purpose of a wastewater treatment system is to remove solids and nutrients in order to minimize the impact of the effluent on the receiving waterbody.

The Environmental Compliance Approval's (ECAs), issued under the Environmental Protection Act, are facility or system-specific documents through which the MECP sets discharge quality limits for that facility based on the sensitivity of the receiving natural environment. To comply with the ECAs, OCWA, on Behalf of the County of Brant (the County) prepares an Annual Performance Report covering the operation and overall performance of the Paris WPCP.

This Annual Performance Report, for the period of January 1st to December 31st, 2025, is a legislative requirement under Condition 10 (6) of ECA numbers 5134-CN5PSC and 7078-D5HR3P (Air and Noise). This report must be forwarded to the MECP no later than March 31st.

FACILITY AND SYSTEM OVERVIEW

The Paris WPCP, located in the County of Brant at 120 Race Street, is an extended aeration sewage treatment plant. The Paris WPCP is classified as a Class II plant (OWWCO Certificate #4867), dated March 27, 2013 has a rated capacity of 7,056 m^3/day. The Paris WPCP consists of:

Liquid Treatment Process

- One (1) Raw sewage composite sampler
- One (1) Raw Sewage Communitor/in-line grinder
- One (1) Raw sewage wet well
- One Ferrous Chloride dosing system for Phosphorus Removal that consists of:
    - Two (2) Chemical feed pumps that inject into the wet well
    - One (1) FRP Chemical storage tank that is rated for 26,000 L
- Three (3) raw sewage pumps, with a firm parallel capacity of 735 m^3/h
- One (1) Detritor
- Two (2) "six-pass configuration" plug-flow aeration tanks equipped with fine bubble diffused aeration system
- Three (3) centrifugal blowers including one (1) duty rated at 4,759 m^3/hr and two (2) standbys, each rated at 4,100 m^3/h
- Two (2) 15.2 m diameter circular clarifiers with 3.5 m SWD, each providing a surface area of approximately 182 m^2
- Two (2) clarifier activated sludge transfer pumps each rated at 45 L/s at a TDH of 5 m to pump activated sludge from the secondary clarifier to the aeration tanks or to the aerobic digestion process
- Two (2) 1,800 L polyethylene storage tanks to store bulk sodium hypochlorite surrounded by a concrete secondary containment area for spill prevention
- Two (2) chemical feed pumps (one (1) duty and one (1) standby) each rated at 0.49 L/min to dose chlorine to the chlorine contact chamber
- One (1) chlorine contact chamber
- One (1) de-chlorination system consisting of two (2) Calcium thiosulphate dosing pumps and one (1) mixer downstream of the dosing point
- Two (2) Effluent discharge standby pumps for use when the Grand River Level is high
- One (1) Effluent composite sampler
- One (1) Parshall Flume to measure effluent flow
- One (1) 50 m long effluent pipe discharging into the Grand River

Biosolids Treatment and Management Process

- A three-stage aerobic digestion process consisting of the following:
  - Stage 1: three (3) cells providing a total volume of 790 m^3;
  - Stage 2: three (3) cells providing a total volume of 790 m^3. Each cell is equipped with a telescopic valve to allow gravity supernating to the headworks; and
  - Stage 3: two (2) cells providing a total volume of 800 m^3
- One (1) liquid biosolids transfer pump rated at 25 m^3/h for transporting liquid biosolids between digesters
- One (1) liquid biosolids transfer pump rated at 25 m^3/h for transporting liquid biosolids between digesters and liquid biosolids from stage 3 to dewatering centrifuge
- Three (3) positive displacement blowers including two (2) duty and one (1) standby, each rated at 1,500 m^3/h at 64 kPa to provide air to each of the three digestion stages
- One (1) liquid polymer make-up system rated at 5.6 kg/h of polymer for conditioning digested sludge to the centrifuge consisting of the following:
  - one (1) bulk polymer dosing pump rated at 18.75 L/h;
  - one (1) high energy activation chamber

-one (1) polymer storage tank with a volume of 2 m^3; and
- one (1) progressive cavity polymer feed pump rated at 1,125 L/h at 60 m TDH

- One (1) dewatering centrifuge rated at 375 kg/h of dry solids including one (1) 7 m long inclined shaftless screw conveyor to carry cake to a 5 m long distribution screw which will direct solids to a solid receiving bin

Leachate Receiving Station

- One (1) Leachate Receiving station equipped with:
    - One (1) end suction horizontal centrifugal leachate tanker truck offloading pump rated for 30 L/s at 3.6 m head
    - One (1) Chemical feed pump that injects Ferrous Chloride on the line prior to the storage tanks
    - Two (2) double walled 30,000 L leachate storage tanks
    - One (1) actuated valve on leachate discharge pipe for control of flow to the raw sewage wet well
    - One (1) carbon odour control unit

Raw sewage enters the facility via gravity into the grit channel equipped an auger for rag and debris removal. Raw sewage then travels via gravity into a wet well, where ferrous chloride is dosed for phosphorous control. The dry well is equipped with 3 lift pumps which pumps the sewage up to the Detroiter, which provides additional grit removal. Sewage then flows by gravity into the two extended aeration basins that use fine bubble diffusers fed from the centrifugal blowers. From the aeration basins, the sewage travels by gravity to the two secondary clarifiers which are equipped with scum collection. There are two self-priming pumps that remove waste activated sludge (liquid biosolids) from the bottom of the clarifiers and return to the head of the aeration tanks, or when required the pumps can waste to digester 1. The clarifier effluent then flows through a contact chamber where sodium hypochlorite is provided for disinfection. At the end of the contact chamber calcium thiosulphate is dosed to provide dechlorination at the secondary treatment level before being discharged to the Grand River via gravity. In the event of high flows in the Grand River final effluent can be discharged to the Grand River using pumps.

Wasted activated sludge (liquid biosolids) travel through a three-stage aerobic digestion process prior to dewatering. Liquid biosolids are pumped from the aerobic digestion process are conditioned with polymer to aid with the dewatering process and dewatered through a centrifuge. The centrifuge spins at 3,250 RPM to spin off liquid and dewatered biosolids are deposited into a bin via a conveyor system. The liquid flows back to the raw inlet channel by gravity. The bin of dewatered biosolids is transferred to the biosolids storage facility located at the Closed Paris landfill (40 Railway Street, Paris). The biosolids are transported for use on agricultural land as a conditioning agent during the period of April 1 to November 30.

The Paris WPCP is also equipped with a Leachate Receiving station where leachate is accepted from the County of Brant landfill Site located at 128 Biggars Lane. To prevent a plant upset, leachate is dosed with ferrous chloride for pre-treatment as well as odour control, and is stored equally among the two storage tanks while it is slowly distributed via an automated gate valve to the raw sewage wet well to enter the treatment system. The station is also equipped with a carbon odour control unit to manage potential venting odours.

The following report is presented such that it corresponds with ECA 5134-CN5PSC, Section 11(4) (a) through (n).

PART 1 - SEWAGE TREATMENT SYSTEM REQUIREMENTS

As per ECA 5134-CN5PSC samples are to be collected from the Paris WPCP in accordance with Tables 1-3 below, utilizing a combination of grab and composite sampling procedures. Analysis for these parameters is conducted at SGS Lakefield Analytical (SGS) in Lakefield, Ontario. SGS is a member of the Canadian Association for Laboratory Accreditation Incorporated, certificate # 1999.

TABLE 1 – INFLUENT SAMPLING REQUIREMENTS

Parameters	*Sample type*	*Minimum frequency*
BOD_5	24-hr Composite	Monthly
Total Suspended Solids	24-hr Composite	Monthly
Total Phosphorus	24-hr Composite	Monthly
Total Kjeldahl Nitrogen	24-hr Composite	Monthly

TABLE 2 – IMPORTED LEACHATE – LEACHATE RECEIVING STATION

Parameters	*Sample type*	*Minimum frequency*
BOD_5	Grab	Monthly
Total Suspended Solids	Grab	Monthly
Total Phosphorus	Grab	Monthly
Total Kjeldahl Nitrogen	Grab	Monthly

TABLE 3 - FINAL EFFLUENT SAMPLING REQUIREMENTS

Final effluent	*Sample type*	*Minimum frequency*
$CBOD_5$	24-hr Composite	Monthly
Total Suspended Solids	24-hr Composite	Monthly
Total Phosphorus	24-hr Composite	Weekly
Total Ammonia Nitrogen	24-hr Composite	Monthly
pH	Grab	Weekly
Temperature	Grab	Weekly
E. coli	Grab	Monthly

(I) SUMMARY AND INTERPRETATION OF ALL MONITORING DATA AND COMPARISON TO THE EFFLUENT LIMITS

As outlined in ECA#5134-CN5PSC Section 11(4)(a) the following is a summary and interpretation of all monitoring data and a comparison to the effluent limits outlined in Table 3 of this report, including an overview of the success and adequacy of the Paris WPCP.

TABLE 4 – FINAL EFFLUENT AVERAGE MONTHLY CONCENTRATIONS

	$CBOD_5$ mg/L	*TSS mg/L*	*TP mg/L*	*TAN mg/L*	*Unionized Ammonia mg/L**	*pH*	*DO mg/L*	*Temp °C*	*E. coli cfu/100ml*	*TRC min-max mg/L*
Objective	**15**	**15**	**1.0**	**Seasonal**	**0.1**	**6.5-8.5**	**>4.0**	**-**	**150**	**non-detect**
Limits	**25**	**25**	**1.0**	**-**	**-**	**6.0-9.5**	**-**	**-**	**200**	**0.02**
Jan	3.20	8.60	0.29	0.10	0.0005	6.71-7.70	4.94	9.68	183.00	0.00-0.02
Feb	3.75	5.25	0.23	0.23	0.0008	6.78-7.70	6.80	10.05	109.00	0.00-0.02
Mar	4.17	8.00	0.22	0.18	0.0005	6.75-8.00	6.91	12.13	140.00	0.00-0.02
Apr	4.00	9.88	0.19	0.15	0.0002	6.86-8.23	5.65	14.30	39.17	0.00-0.02
May	4.30	14.0	0.19	0.17	0.0025	7.43-7.60	5.30	18.55	29.00	0.00-0.02
June	3.50	6.50	0.26	0.15	0.0007	7.00-7.58	5.83	20.75	4.00	0.00-0.02
July	4.00	3.80	0.21	0.26	0.0004	6.89-7.04	5.02	22.50	0.00	0.00-0.02
Aug	3.50	4.50	0.32	0.20	0.0025	6.83-7.63	5.10	23.40	6.00	0.00-0.02
Sept	3.50	4.25	0.40	0.13	0.0007	6.87-7.58	5.76	20.30	105.00	0.00-0.02
Oct	3.33	4.40	0.77	0.12	0.0001	6.84-7.70	6.37	15.80	103.19	0.00-0.02
Nov	5.25	3.00	0.77	0.13	0.0007	7.01-7.75	6.60	13.03	23.00	0.00-0.02
Dec	4.00	9.50	0.87	0.13	0.0005	6.82-7.52	5.29	12.68	117.19	0.00-0.02
Avg	**3.91**	**7.04**	**0.47**	**0.16**	**0.0008**	**7.13**	**5.91**	**14.58**	**71.55**	**0.00-0.02**

**Ontario's Provincial Water Quality Objectives (PWQO)*

** ECA Objective exceedances are highlighted above*

**TRC = Total Residual Chlorine, non-detectable 0.02 or below*

As part of the federal governments Wastewater Systems Effluent Regulations (WSER), annual Acute Toxicity sampling was completed on June 12, 2025. The sample was not acutely lethal. Results can be found in *Appendix B.*

As shown in Tables 5 and 6 the Paris WPCP was operated and maintained such that the average monthly concentrations for all final effluent parameters did not exceed the effluent limits or objectives outlined in Schedule B and C of ECA 5134-CN5PSC.

TABLE 5 – COMPARISON TO EFFLUENT OBJECTIVES

Parameter	***Objective (mg/L)***	***2025 Monthly Average Concentrations (mg/L)***
$CBOD_5$ (mg/L)	15.0	3.86
Total Suspended Solids (mg/L)	15.0	6.81
Total Phosphorus (mg/L)	1.0	0.39
Total Ammonia Nitrogen	2.4mg/L (Jan-Mar) 1.0mg/L (Apr-May) 0.8mg/L (Jun-Sept) 2.1mg/L (Oct-Dec)	0.17mg/L (Jan-Mar) 0.16mg/L (Apr-May) 0.19mg/L (Jun-Sept) 0.13mg/L (Oct-Dec)
E. coli (cfu/100ml)	150 MPN/100mL	71.55 MPN/100mL
pH	6.5-8.5	min-max: 6.71-8.23
DO	Greater than 4.0	5.80
*Total Residual Chlorine	Non-detectable	min-max: 0.00-0.02

*Total Residual Chlorine shall be non-detectable as measured by a method with a sensitively of at least 0.02mg/L as per ECA#5154-CN5PSC

TABLE 6 – COMPARISON TO EFFLUENT LIMITS

Parameter	***Limit (mg/L)***	***2025 Monthly Average Result Ranges (mg/L)***
$CBOD_5$ (mg/L)	25.0	3.86
Total Suspended Solids (mg/L)	25.0	6.81
Total Phosphorus (mg/L)	1.0	0.39
E. coli (cfu/100ml)	200 MPN/100mL	71.55 MPN/100mL
pH	6.0-9.5	min-max: 6.71-8.23
*Total Residual Chlorine	0.02	min-max: 0.00-0.02

*Total Residual Chlorine shall be non-detectable as measured by a method with a sensitively of at least 0.02mg/L as per ECA#5154-CN5PSC

The following tables show the percentage removal for $CBOD_5$, TSS and TP for 2025.

TABLE 7 – TREATMENT EFFICIENCY FOR $CBOD_5$ REMOVAL

Month	***Incoming $CBOD_5$ (mg/L)***	***Effluent $CBOD_5$ (mg/L)***	***Percent Removal (%)***
January	184	3.20	98.3
February	201	3.75	98.1
March	122	4.17	96.6
April	119	4.00	96.6
May	252	4.30	98.3
June	269	3.50	98.7
July	174	4.00	97.7
August	174	3.50	97.9
September	244	3.50	98.6
October	155	3.20	97.9
November	198	5.25	97.3
December	244	4.00	98.3
Annual Average	**193.3**	**3.86**	**97.9**

TABLE 8 – TREATMENT EFFICIENCY FOR SUSPENDED SOLIDS REMOVAL

Month	*Incoming TSS (mg/L)*	*Effluent TSS (mg/L)*	*Percent Removal (%)*
January	162	8.60	94.7
February	270	5.25	98.1
March	104	8.00	92.3
April	141	9.88	92.9
May	273	14.0	94.8
June	276	6.50	97.6
July	142	3.80	97.3
August	238	4.50	98.1
September	572	4.25	99.3
October	183	4.40	97.6
November	174	3.00	98.3
December	282.5	9.50	96.6
Annual Average	**207.2**	**6.81**	**96.7**

TABLE 9 – TREATMENT EFFICIENCY FOR PHOSPHORUS REMOVAL

Month	*Incoming TP (mg/L)*	*Effluent TP (mg/L)*	*Percent Removal (%)*
January	4.10	0.29	92.9
February	4.88	0.23	95.3
March	2.97	0.22	92.6
April	3.13	0.19	93.9
May	4.85	0.19	96.1
June	6.66	0.26	96.1
July	3.86	0.21	94.5
August	4.31	0.32	92.6
September	6.55	0.40	93.9
October	7.46	0.77	89.7
November	4.34	0.77	82.2
December	5.62	0.87	84.5
Annual Average	**4.51**	**0.39**	**91.4**

Overall, the Paris WPCP performed well during the 2025 reporting period.

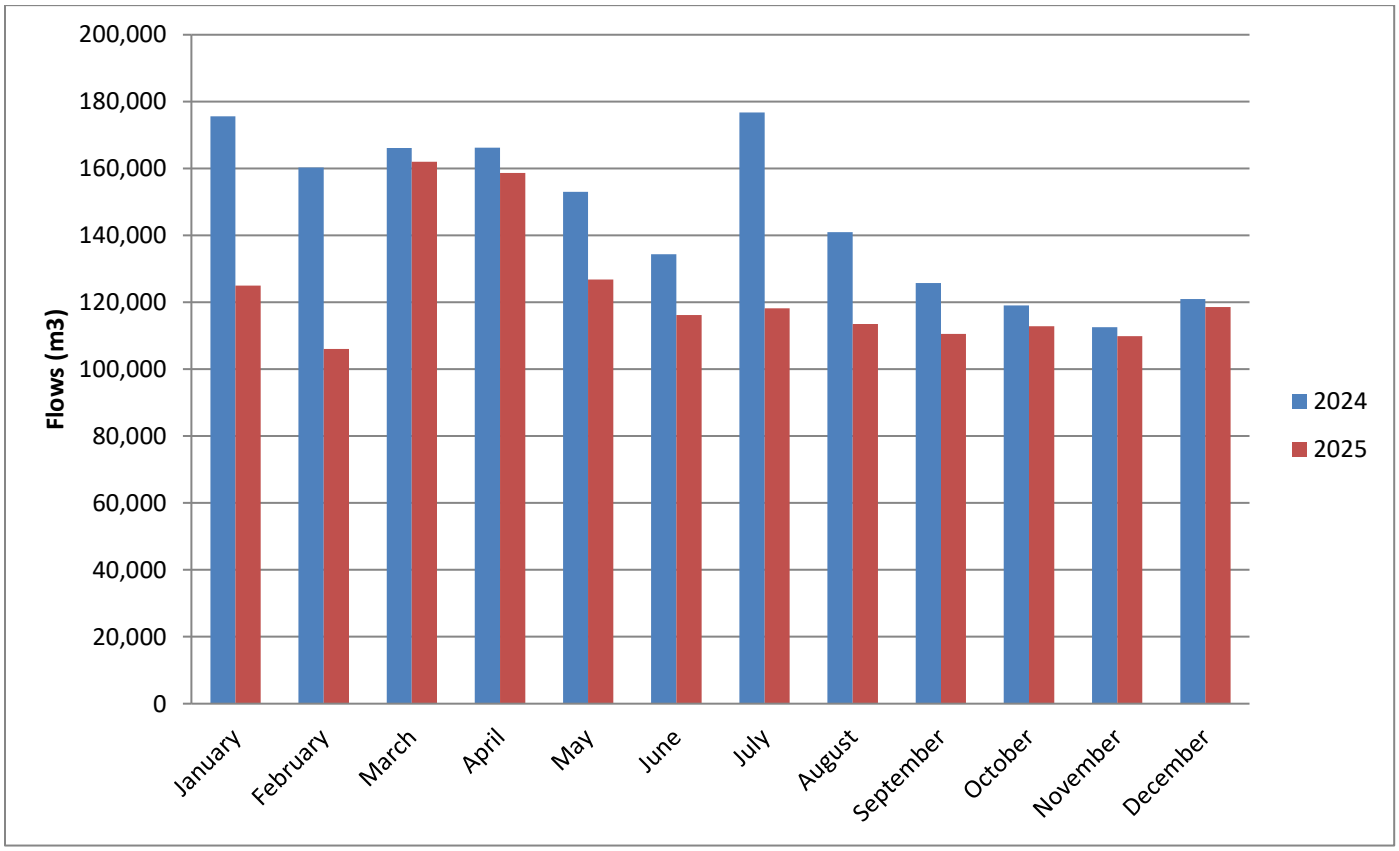
(II) FLOW DATA

This section summarizes the effluent flow data of the Paris WPCP for the 2025 reporting period. Table 13 shows the average daily flow, the maximum monthly peak flow and the total monthly flow for the 2025 reporting period. Graph 1 shows the average daily flow and maximum daily flow for each month (Monthly Peak Flow) in comparison to the rated design capacity for 2025. Graph 2 shows the total monthly flow comparison for 2024 and 2025.

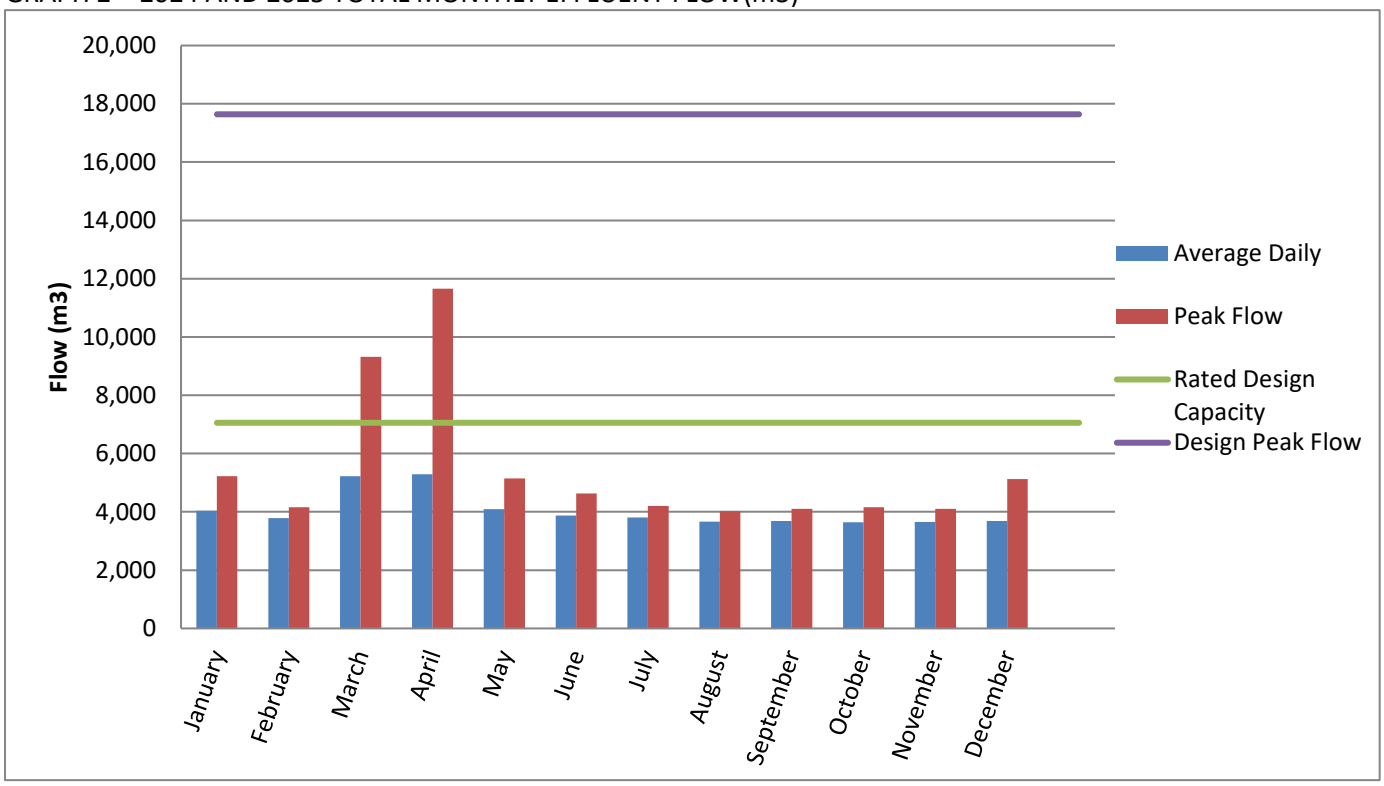
TABLE 10 – EFFLUENT FLOW DATA

Month	*Average Daily Flow (m^3)*	*Maximum Peak Flow (m^3)*	*Total Month Flow (m^3)*
January	4,032	5,221	124,993
February	3,789	4,156	106,102
March	5,226	9,317	162,027
April	5,289	11,662	158,671
May	4,090	5,151	126,778
June	3,874	4,626	116,219
July	3,811	4,201	118,162
August	3,661	4,030	113,492
September	3,686	4,107	110,585
October	3,638	4,156	112,803
November	3,658	4,107	109,836
December	3,690	5,128	118,592
Total	--	--	**1,478,260**
Average	**4,037**	--	--

GRAPH 1 – 2025 MONTHLY AVERAGE DAILY AND PEAK EFFLUENT FLOWS (m^3)



GRAPH 2 – 2024 AND 2025 TOTAL MONTHLY EFFLUENT FLOW(m3)



During the 2025 reporting period, the peak flows were significantly above the Annual Average Daily Influent Flow capacity in March and April. In March, the high flows were caused by above freezing temperatures, a rainfall event and subsequent snowmelt which increased inflow and infiltration into the sanitary collection system. In April, the high flow was caused by a significant rainfall event which increased inflow into the sanitary collection system. Effluent quality and plant performance was not impacted as a result of these elevated flows.

(III) SUMMARY OF LEACHATE VOLUMES

Table 14 below shows the volume of leachate that was discharged into the influent at the Paris WPCP in 2025:

TABLE 11– LEACHATE RECEIVED (m^3)

Month	***Volume (m^3)***
January	0
February	0
March	90
April	540
May	270
June	135
July	0
August	0
September	0
October	0
November	0
December	0

Total	**1,035**

(IV) OPERATING PROBLEMS ENCOUNTERED

The Paris WPCP performed well during the 2025 reporting period. There were a few operational issues that occurred, as outlined below. All issues were resolved and the facility achieved compliance targets.

On February 14, 2025 the headworks grinder and auger were found to be not operational. The raw channel liquid level was high at this time. A contractor was scheduled to remove the grinder and investigate the issue. Some minor repairs were made and the grinder was operational until July 2025. The grinder then was suspected of having a bearing failure. The grinder was investigated further and repairs were made. The removal of the inlet channel grinder allows a larger number of rags to enter the raw sewage pumps resulting in over temperature alarms, pump cavitation and lowered pump performance, due to rag build up. This led to weekly maintenance from operations to open and clean out rag blockages and clearing alarms. After repairs were made, the grinder was re-installed in November 2025. No compliance issues occurred due to the grinder removal and maintenance.

On February 24, 2025 operations noted inconsistent flow observed while operating Digester 8 pump and the polymer dosing pump. Increasing the frequency of Digester pump 8 fixed the problem temporarily but the flow would decrease overtime while running. This issue is not characteristic of the system. A contractor visited the site on February 26 to try and remedy the problem by running Digester pump 8 in reverse to clear a possible blockage. The contractor also inspected the VFD drive and motor and found no issues. Operations removed the sludge flow meter to flush and verify operation. There were no issues or blockages found. The issue persisted upon reinstallation. On February 28, the contractor returned to diagnose the issue further. Operations had removed the sludge feed line and utilized a sewer camera to determine no blockages were present in the line between the pump and flow meter. Operators along with the contractor set up a temporary pump for sludge dewatering to continue until the issue was resolved. The issue was found to be the isolation knife gate valve that had failed closed. Replacement parts were ordered in June 2025 and the repair was made on August 28, 2025. Once the repair was completed, the sludge feed resumed back to the duty pump and was closely monitored afterwards for anything abnormal. No compliance issues occurred from this work being performed.

In early May 2025 the Clarifier 1 scum arm fell into the clarifier. Operations drained the clarifier to retrieve and make repairs. The clarifier was put back into service on May 26, 2025. In late July 2025 the drive assembly on Clarifier 1 appeared to have failed, and OCWA's regional millwright was brought in to investigate further. Operations took a closer look at the drive and mechanism to diagnose the problem. Flushing and changing the oil did not resolve the issue and the drive was disassembled and taken off-site for repair in August. Clarifier 1 remains out of service until the drive and mechanism are reassembled. The Paris WPCP is capable of running adequately with only Clarifier 2 in service. No compliance issues occurred in 2025 due to Clarifier 1 being out of service for this extended period of time.

Throughout 2025 multiple issues were experienced with the polymer dosing system. Air locks can be common with the current equipment which can lead to a decrease in dewatered biosolids quality. On December 24, 2025 the polymer make-up pump was not dosing and a spare pump was installed. The spare pump was having the same issue so the polymer mixing system was looked at next. This prevented operations from running the centrifuge for 3 days while troubleshooting took place. During this time Digester 3 was utilized for extra capacity to maintain wasting rates. The polymer pump was operational again on December 29, 2025 after new tubing, connections and check valve were installed. No compliance issues occurred due to the polymer pump being temporarily out of service.

(V) MAINTENANCE PERFORMED ON MAJOR EQUIPMENT, STRUCTURES, EQUIPMENT

TABLE 12– UPGRADES/MAINTENANCE

Date	Work Performed	Status
Feb 14-June 24	Raw Sewage Communitor/in-line grinder found not working, contractor diagnosed that the Plant Logic Controller (PLC) had failed, PLC was bypassed while new PLC could be sourced so grinder could be ran in manual mode. PLC replaced on June 24.	Completed
Feb 19	Contractor on site to repair the seal on course bubble blower #3	Completed
Feb 19	Contractor on site to replace failed Centrifuge controller , centrifuge offline until controller was replaced on February 20. Due to short duration of centrifuge offline no operational impacts occurred.	Completed
Feb 26-August 28	Stage 3 Liquid Biosolids transfer pump found to not be adequately transferring sludge to dewatering centrifuge. Investigated the liquid biosolids transfer pump sludge feed line with sewer camera and ran pump in reverse, no issues found. Removed and investigated sludge feed flow meter, no issues found, reinstalled. Removed liquid biosolids transfer pump from digester 8 to investigate, no issues found, reinstalled. Additional troubleshooting was carried out by operational staff and IEC contractor until a temporary liquid biosolids transfer pump was set up on February 28th for dewatering to continue. Liquid biosolids centrifuge feed pump replaced on February 28th with a temporary centrifugal pump and feed line, to continue dewatering and prevent process upset. Upon further inspection, the issue was determined to be the failed isolation valve on the original sludge feed line. The valve stem and coupler were replaced on August 28th; the valve now operates normally and there are no issues with the stage 3 liquid biosolids transfer pump. No operational impacts occurred as dewatering was completed with temporary equipment set up.	Completed
Mar 4	Digester 3 airline coupler failed, replaced coupler	Completed
Mar 7	Digester #1 liquid biosolids transfer pump pulled for inspection and cleaned due to poor performance	Completed
May 2	Digester #1 liquid biosolids transfer pump pulled again for inspection due to worsening performance, issue found to be with transfer pipe blockage set up new transfer pipe.	Completed
May 5	Contractor on site due to centrifuge issue which interlocked the dewater biosolid sludge feed conveyor. Limit switch found to be faulty and was replaced on May 9th. Due to short duration of centrifuge offline no operational impacts occurred.	Completed
May 9	Contractor replaced raw sewage wet well pump 2 motor with new Class 1 Div 2 Motor.	Completed
May 15	Annual inspection of the fine bubble turbo blower completed; inspection passed	Completed
June 3	Contractor replaced raw sewage wet well pump 1 motor with new Class 1 Div 2 Motor	Completed
June 4	Removed scum pump for inspection, sent for rebuild, portable trash pump is being used for the interim. Scum pump arrived during winter and will be installed in spring 2026.	Completed
June 9	Replaced polymer makeup pump for centrifuge with spare pump as original pump was not operating to specification.	Completed
June 19	Contractor on site to inspect raw sewage communitor/in-line grinder motor wobbling, replaced motor mount	Completed
June 24	Fuse for centrifuge motor failed, contractor on site to replace fuse.	Completed

June 26	Contractor replaced raw sewage wet well pump 3 motor with new Class 1 Div 2 Motor	Completed
July 10	Replaced ferrous filter housing due to age of old unit	Completed
July 11	Contractor removed raw sewage communitor/in-line grinder, for inspection on July 11th, refer to Section D for more information Returned Oct 21.	Completed
July 16	Contractor on site to clean/flush/vacuum polymer room and drains after polymer spill from chemical shipper. Shipper dropped the polymer tote off the back of the tailgate, causing approximately 200L of polymer to spill onsite. The spill was contained and SAC and MOL were notified due to shipper injury. No harm to surrounding environment as polymer was contained to concrete pad.	Completed
Aug 1	Replaced fine bubble turbo blower intake air filter	Completed
Aug 5	Ferrous pump stopped operating due to being tripped from new leachate offloading station electrical panel. Plug was replaced and operation verified.	Completed
Aug 21	Ferrous metering pump signal cable causing sporadic faults. Electrician inspected and removed cable causing the issue, another cable was tried but faults still existed. Pump operates currently in manual and removing cable allowed further use of the chemical pump	Completed
Sept 3	Electrical Safety Authority on site performing annual inspection	Completed
Sept 17	Replaced odour control media in the collection system odour control unit located on the Paris WPCP property	Completed
Oct 17	Contractor completed annual lifting device inspections	Completed
Oct 20	Contractor completed annual generator inspections	Completed
Oct 21	Contractor on site for raw sewage channel and wet well clean out.	Completed
Oct 21	Raw sewage communitor/in-line grinder returned from repairs and placed back into service.	
Oct 23	Contractor on site diagnosing communication loss issues with the effluent ORP sensor, sensor found to be faulty on October 23rd and was replaced on November 5th. While the sensor was offline, the ORP value was monitored prior to the dechlorination point, as that sensor was still in good operation. No operational impacts occurred and compliance was maintained with secondary sensor ahead of dechlorination.	Completed
Oct 26	Ferrous chlorine line had blockage, section of line removed and replaced	Completed
Oct 30	Clarifier 1 drive and shaft removed for rebuild due to failure. Minimal impact to operations as plant is capable of maintaining compliance with only Clarifier 2 in service until rebuild is complete. Upgrades and repairs to Clarifier 1 will continue into 2026 with estimated completion end of April 2026 due to weather limitations.	In Progress
Nov 10	Electrician on site to install new polymer pump as old pump required rebuild due to performance lessening. New VFDs for the Polymer and liquid biosolids transfer stage 3 feed pump were also installed as the old ones were obsolete.	Completed
Dec 3	Replaced failed speed knob on Stage 3 liquid biosolids transfer pump VFD	Completed
Dec 3	Contractor completed annual municipal water backflow preventor inspection, all passed	Completed
Dec 8	Contractor hit multiple conduits with power lines to polymer room during ESA Upgrades project work. Temporary line installed and restarted polymer pump. Conduits and wires repaired	Completed
Dec 24	Polymer makeup pump stopped working, inspected and found check valve had failed, centrifuge left offline over Christmas Holidays and was repaired on Dec 29. No operational impacts due to short term shut down.	Completed

(VII) EFFLUENT QUALITY ASSURANCE AND CONTROL MEASURES

Considerable effort goes into monitoring the characteristics of the Paris WPCP influent, effluent and intermediate process streams. This monitoring provides essential data for process optimization by operational staff and is required to meet the ECA monitoring and reporting conditions. Grab and composite samples are routinely collected and analyzed through in-house analysis.

The influent is monitored for $CBOD_5$, BOD_5, TSS, TP and TKN. Effluent quality assurance is evaluated by monitoring parameters and changes throughout the plants processes. The operators monitor the aeration basin by performing weekly tests on the mixed liquor. These tests include dissolved oxygen, pH, temperature, settling tests and Mixed Liquor Suspended Solids (MLSS). As well, monitoring of the chemical dosages. Data collected from these tests provide valuable information to the operators to make the appropriate adjustments in the treatment process and take corrective actions before the plant reaches its effluent limits. The Paris WPCP met all effluent objectives and limits during the 2025 reporting period.

Table 13 below summarizes and compares the average monthly concentrations of influent parameters for $CBOD_5$, BOD_5, TSS, TP and TKN for 2024 versus 2025.

TABLE 13–INFLUENT AVERAGE MONTHLY CONCENTRATIONS

	2024 $CBOD_5$ (mg/L)	*2025 $CBOD_5$ (mg/L)*	*2024 BOD_5 (mg/L)*	*2025 BOD_5 (mg/L)*	*2024 TSS (mg/L)*	*2025 TSS (mg/L)*	*2024 TP (mg/L)*	*2025 TP (mg/L)*	*2024 TKN (mg/L)*	*2025 TKN (mg/L)*
January	284	184	314	222	379	162	5.38	4.10	34.50	42.40
February	308	201	334	258	516	270	10.60	4.88	50.80	48.50
March	196	122	220	138	317	104	4.34	2.97	32.90	32.40
April	223	119	429	199	362	141	5.64	3.13	43.30	32.60
May	209	252	279	268	327	273	3.59	4.85	34.70	41.00
June	207	269	269	272	298	276	4.64	6.66	39.15	50.50
July	287	174	309	221	388	142	5.78	3.86	43.83	40.90
August	175	174	250	226	255	238	4.05	4.31	33.88	43.08
September	211	244	234	308	335	572	4.98	6.55	42.70	54.30
October	192	155	284	216	322	183	4.52	7.46	42.42	47.70
November	182	198	235	252	267	174	4.64	4.34	44.00	50.00
December	220	244	296	276	324	283	4.90	5.62	44.48	52.43
Average	**225**	**193**	**288**	**234**	**341**	**207**	**5.26**	**4.51**	**40.56**	**44.01**

Table 14 summarizes a comparison of 2024 and 2025 annual average concentrations of the influent sampling parameters. $CBOD_5$, BOD_5, TSS, and TP show a reduction while TKN shows an increase. Table 15 summarizes the Per Capita Flows and Loadings; the monitoring program will continue into 2026.

TABLE 14 – INFLUENT- HISTORICAL COMPARISON

Parameter	*2024 Average Concentration to Date*	*2025 Average Concentration to Date*	*% Difference*
$CBOD_5$ (mg/L)	225	193	-14%
BOD_5 (mg/L)	288	234	-19%
Total Suspended Solids (mg/L)	341	207	-39%
Total Phosphorus (mg/L)	5.26	4.51	-14%
Total Kjeldahl Nitrogen (mg/L)	40.56	44.01	+9%

TABLE 15– 2025 PER CAPITA FLOWS AND LOADINGS

Parameter	*Units*	*Value*	*Typical Range*
*Per Capita Flow	L/d per person	268	350-500
Peak Day: Annual Average Flow		2.91	2.5-3.5
Per Capita BOD_5	g/d per person	75.0	80
Per Capita TSS	g/d per person	55.5	90
Per Capita TKN	g/d per person	11.79	13
Per Capita TP	g/d per person	1.21	3.3
TSS: BOD_5	--	0.74	0.80-1.2
TKN: BOD_5	--	0.16	0.1-0.2

*Population for Paris – 14,956 as per 2021 Stats Canada

(VIII) CALIBRATIONS

In house meters for pH and dissolved oxygen are verified/calibrated by OCWA operators as per manufacturer's instructions. Annual calibrations were performed on June 30, 2025 for the raw influent, final effluent, and sludge flow meters; as well as the laboratory equipment. Calibration reports may be found in *Appendix A.*

(IX) MEETING THE EFFLUENT OBJECTIVES OF CONDITION 6

The Paris WPCP achieved all effluent objectives outlined in ECA 5134-CN5PSC during the 2025 reporting period. Additionally, there was no notable deterioration of final effluent quality. Design objectives were achieved for the reporting year and there were no increasing trends in the deterioration of the final effluent quality. See Tables 5 and 6 above for further details.

(X) SOLIDS/SLUDGE HANDLING AND DISPOSAL

The Paris WPCP utilizes a three-stage aerobic digestion process and a dewatering centrifuge. Aerobic sludge (biosolids) is dewatered with the centrifuge and transferred to the biosolids storage facility located at the Paris landfill transfer station. The biosolids are then removed and utilized on agricultural land as a conditioning agent. The agricultural lands that utilize the biosolids have provincial approval through the Nutrient Management Act, O. Regulation 267/03. The provincial approval approves the quality, quantity, method of application and rate of application through a Non-Agricultural Source Materials (NASM) Plan which is prepared for each agricultural property that utilizes biosolids.

TABLE 16– QUANTITY OF DEWATERED BIOSOLIDS HAULED TO STORAGE

Month	Biosolids to Storage (kg)
January	117,460
February	63,920
March	79,050
April	94,120
May	113,970
June	74,300
July	106,779
August	104,694
September	94,160
October	116,716
November	86,960
December	81,950
Total	**1,134,079**

It is estimated that there will be 1,200,000 kg generated in 2026. The decrease from estimated and actuals for 2025 was because there were issues with the centrifuge system in 2025 which caused considerable downtime, reducing the biosolids production. Additional downtime will likely occur in 2026 due to the possible centrifuge replacement, which will allow for increased throughput. The decreased biosolids production did not prevent the facility from achieving its compliance targets. The centrifuge operational challenges are discussed further in *Section (IV)- Operating Problems Encountered*.

TABLE 17– 2025 PARIS BIOSOLIDS HAULAGE AND CONDITIONING SITES

Date	***NASM #***	***Location***	***Quantity Land Applied (kg)***
April 28	61831	Not Disclosed	104 550
April 29 & May 1	62148	Not Disclosed	165 690
May 7,8 9	62145	Not Disclosed	289 770
Sept 23	62326	Lot 13, Concession 2 South of Stoney Creek Rd, Seneca, Haldimand County	239,470
Oct 1-3	62840	Lot 48, Concession 1 north, Cayuga, Haldimand County	288, 440
Nov 19-20	60631	Lot 16, 17 & 18, Concession 4 West, South-West Oxford, Oxford County	148,970

Table 18 represents the volume of liquid biosolids transported to the Paris WPCP from the St. George WPCP and the Airport Sewage Treatment System in 2025. Wessuc managed haulage and the land application until September 1 2025, when it was awarded to GFL under a new contract. The amount that Wessuc applied falls under ECA 1603-4LGJBN (dated May 12, 2011), the amount that GFL Environmental Inc. applied falls under their subsidiary company, Terratec Environmental Ltd. ECA 4400-4LBLXD.

TABLE 18– TOTAL LIQUID BIOSOLIDS RECEIVED FROM EXTERNAL SITES

Date	***St. George WPCP Amount Hauled to Paris (m^3)***	***Airport STS Amount Hauled to Paris (m^3)***
January	215	0
February	166	14
March	203	0
April	295	10
May	390	0
June	270	0
July	355	0
August	310	0
September	133	60
October	308	0
November	220	0
December	176	20
Total	**3,041**	**104**

To satisfy Schedule D of ECA 5134-CN5PSC, Aerobic Sludge and Dewatered Aerobic Biosolids are required to be sampled for the parameters listed in Table 4 above, on a quarterly basis. To comply with Land Application ECA 1603-4LGJBN, and GFL Environmental Inc. falls under their subsidiary company, Terratec Environmental Ltd. ECA 4400-4LBLXD.

OCWA collects monthly samples to provide further data in preparation for land application. There are no limits currently in place for Aerobic Sludge, only the requirement to sample. The results are outlined below in Tables 19-23.

Table 23 compares Paris WPCP Aerobic Dewatered Biosolids metal weights to the limits of the Nutrient Management Act Ontario Regulation 267/03, Section 98 and Schedule 5 Table 2 "Regulated Metals Content of NASM". No metal concentration exceedances occurred in the 2025 reporting period.

TABLE 19– PARIS LIQUID AEROBIC BIOSOLIDS ANALYTICAL*

	Total Phosphorus (mg/L)	*Total Solids (mg/L)*	*Ammonia + Nitrate (mg/L)*	*Total Kjeldahl Nitrogen (mg/L)*	*Nitrite (mg/L)*	*Nitrate (mg/L)*
January	418	15,300	37.10	722	3	28
February	429	17,200	16.00	927	3	3
March	335	16,700	33.90	1,050	3	23
April	381	15,300	21.00	828	3	9
May	355	16,300	21.30	861	3	8
June	386	15,000	17.00	475	3	3
July	385	14,000	184.9	224	3	180
August	374	15,400	158.1	430	3	150
September	430	16,600	215.4	539	3	210
October	438	16,200	157.8	461	8	158
November	413	14,400	147.6	380	7	150
December	471	18,000	56.6	828	3	53
Average	**401.3**	**15,866**	**88.9**	**643.8**	**3.8**	**81.3**

*There are no limits for the parameters listed in Table 21 above; there is only a requirement to complete sampling.

TABLE 20– METAL CONCENTRATIONS – LIQUID AEROBIC BIOSOLIDS

	As mg/L	*Cd mg/L*	*Co mg/L*	*Cr mg/L*	*Cu mg/L*	*Hg mg/L*	*K mg/L*	*Mo mg/L*	*Ni mg/L*	*Pb mg/L*	*Se mg/L*	*Zn mg/L*
Limits	**1.7**	**0.34**	**3.4**	**28**	**17**	**0.11**	**140**	**0.94**	**4.2**	**11**	**0.34**	**42**
January	<0.1	0.006	0.06	0.95	5.54	0.007	69.6	0.13	0.35	0.15	<0.1	8
February	<0.1	0.008	0.05	0.87	5.33	0.006	75.9	0.14	0.32	0.14	<0.1	8
March	<0.1	0.008	0.02	0.15	3.90	0.008	55.0	0.05	0.10	0.20	0.2	3
April	<0.1	0.008	0.05	0.94	5.10	0.005	69.0	0.12	0.33	0.10	<0.1	7
May	<0.1	0.008	0.04	0.88	4.50	0.007	65.0	0.11	0.31	0.10	<0.1	6
June	<0.1	0.008	0.05	1.00	5.10	0.007	67.0	0.12	0.37	0.10	<0.1	7
July	<0.1	0.007	0.05	1.00	4.60	0.008	64.0	0.13	0.36	0.20	<0.1	7
August	<0.1	0.007	0.06	1.10	5.00	0.005	49.0	0.12	0.40	0.10	<0.1	7
Sept	<0.1	0.008	0.07	1.30	6.00	0.008	55.0	0.14	0.43	0.20	<0.1	9
October	<0.1	0.008	0.06	1.20	6.30	0.011	54.0	0.13	0.37	0.20	<0.1	8
November	<0.1	0.008	0.07	1.10	6.20	0.007	56.0	0.13	0.33	0.20	<0.1	8
December	<0.1	0.1	0.07	1.00	6.50	0.006	63.0	0.14	0.33	0.2	<0.1	9
Average	**<0.1**	**0.015**	**0.05**	**0.96**	**5.34**	**0.007**	**61.8**	**0.12**	**0.33**	**0.16**	**<0.1**	**7.28**

< represents a non-detect lab results

TABLE 21– PARIS DEWATERED AEROBIC BIOSOLIDS

	*Total Phosphorus (mg/L) (*mg/kg)*	*Total Solids (mg/L) (*mg/kg)*	*Ammonia + Nitrate (mg/L) (*mg/kg)*	*Total Kjeldahl Nitrogen (mg/L) (*mg/kg)*	*Nitrite (mg/L) (*mg/kg)*	*Nitrate (mg/L) (*mg/kg)*
January	4,754	146,420	385	6,800	3.0	5.0
February	4,633	184,666	200	9,300	3.0	3.0
March	5,600	203,250	477	10,000	3.5	9.5
April	5,275	192,000	508	7,900	3.0	3.0
May	5,660	199,800	441	11,000	6.4	3.0
June	6,200	210,000	284	6,600	4.0	3.3
July	7,420	223,600	290	5,800	4.4	20.0
August	6,875	222,250	284	6,600	5.5	23.3
September	*12,375	*196,500	*386.75	*25,150	*14.5	*38.75
October	*31,000*	*181,500	*1,530	*36,500	*30	*30
November	*30,333*	*132,866	*1,730	*36,000	*30	*30
December	*30,000*	*207,000	*2,080	*47,000	*30	*30
Average	**5,894/*30,300**	**193,015**	**359/*1,432**	**7,811/*39,333**	**4.11/*29.27**	**9.15/*32.69**

*There are no limits for the parameters listed in Table 21 above; there is only a requirement to complete sampling.

*Our new land application contractor required lab results to be switched from mg/L to mg/kg

*Nitrite and Nitrate MDL is 30 mg/kg

TABLE 22– METAL CONCENTRATIONS – DEWATERED AEROBIC BIOSOLIDS

	*As mg/L *mg/kg*	*Cd mg/L *mg/kg*	*Co mg/L *mg/kg*	*Cr mg/L *mg/kg*	*Cu mg/L *mg/kg*	*Hg mg/L *mg/kg*	*K mg/L *mg/kg*	*Mo mg/L *mg/kg*	*Ni mg/L *mg/kg*	*Pb mg/L *mg/kg*	*Se mg/L *mg/kg*	*Zn mg/L *mg/kg*
January	0.5	0.10	0.83	12	74	0.10	520	1.8	4.6	2.2	0.7	110
February	0.5	0.08	0.56	9	57	0.09	450	1.3	3.3	1.6	0.6	82
March	0.5	0.10	0.73	11	72	0.07	630	1.7	4.3	2.1	0.7	100
April	0.5	0.12	0.63	12	68	0.12	510	1.5	43	2.0	0.7	96
May	0.5	0.10	0.65	13	67	0.10	480	1.7	4.5	1.9	0.8	93
June	0.5	0.11	0.66	14	70	0.07	490	1.8	5.0	1.6	0.8	92
July	0.6	0.11	0.80	16	76	0.13	330	2.0	5.3	2.1	1.0	110
August	0.6	0.15	1.10	19	94	0.13	320	2.3	6.7	2.7	1.0	140
September	*2.8	*0.36	*2.99	*52	*275.5	*0.4	*840	*6	*16.9	*6.8	*2.5	*375
October	*5	*0.7	*5	*89	*475	*0.75	*1600	*9.5	*28	*13	*4.5	*630
November	*5	*0.75	*5	*80	*465	*0.55	*2250	*10.5	*24	*13	*4.5	*630
December	*5	*0.6	*4	*66	*420	*0.6	*2500	*9	*21	*12	*4	*570
Average	**3.9/ *4.5**	**0.1/ *0.6**	**0.7/ *4.3**	**13.3/ *71.8**	**72.3/ *408.9**	**0.1/ *0.6**	**466.2/ *898.8**	**1.8/ *8.8**	**9.6/ *22.5**	**2.0/ *11.2**	**0.8/ *3.9**	**102.9/ *551.3**

< represents a non-detect lab result

* Land application contractor required lab results to be switched from mg/L to mg/kg

*Please refer to Table 25 for the Nutrient Management Act O. Reg 267/03, 'Regulated Metals Content' Limits for dry weight (mg/kg) requirements. Dewatered Biosolids do not have limits.

TABLE 23- METAL WEIGHTS AEROBIC DEWATERED BIOSOLIDS (MG/KG)

	As mg/kg	*Cd mg/kg*	*Co mg/kg*	*Cr mg/kg*	*Cu mg/kg*	*Hg mg/kg*	*K mg/kg*	*Mo mg/kg*	*Ni mg/kg*	*Pb mg/kg*	*Se mg/kg*	*Zn mg/kg*
Limits	**170**	**34**	**340**	**2800**	**1700**	**11**	**13 000**	**94**	**420**	**1100**	**34**	**4200**
Jan	3.41	0.68	5.67	81.96	505.40	0.68	3551	12.29	31.42	15.03	4.78	751
Feb	2.71	0.43	3.03	48.74	308.66	0.49	2437	7.04	17.87	8.66	3.25	444
Mar	2.46	0.49	3.59	54.12	354.24	0.34	3099	8.36	21.16	10.33	3.44	492
Apr	2.60	0.63	3.28	62.50	354.19	0.63	2656	7.81	22.40	10.42	3.65	500
May	2.50	0.50	3.25	65.07	335.34	0.50	2402	8.51	22.52	9.51	4.00	465
June	2.38	0.52	3.14	66.67	333.33	0.33	2333	8.57	23.81	7.62	3.81	438
July	2.68	0.49	3.58	71.56	339.89	0.58	1476	8.94	23.70	9.39	4.47	492
Aug	2.70	0.67	4.95	85.49	422.95	0.58	1439	10.35	30.15	12.15	4.50	630
Sept	2.80	0.36	2.99	52.00	275.5	0.40	840	6.00	16.90	6.80	2.50	375
Oct	5.00	0.70	5.00	89.00	475.0	0.75	1600	9.50	28.00	13.00	4.50	630
Nov	5.00	0.75	5.00	80.00	465.0	0.55	2250	10.50	24.00	13.00	4.50	630
Dec	5.00	0.60	4.00	66.00	420.0	0.60	2500	9.00	21.00	12.00	4.00	570
Avg	**3.27**	**0.57**	**3.96**	**68.59**	**382.46**	**0.54**	**2215**	**8.91**	**23.58**	**10.66**	**3.95**	**535**

*Metal Concentrations for the aerobic sludge were converted from mg/L to mg/kg to coincide with the limits acquired from the Nutrient Management Act Ontario Regulation 267/03, Section 98 and Schedule 5 Table 2 "Regulated Metals Content of NASM".

(XI) SUMMARY OF COMPLAINTS RECEIVED

In 2025, the Paris WPCP received the following complaints:

TABLE 24– COMMUNITY COMPLAINTS

Date	*Complaint*	*Response/Follow-Up*
June 25	A resident notified the County of Brant of a strong chemical smell present on Race St in Paris, ON that was described as a weed killer or some sort of 'toxic spray'.	The area was investigated, the resident walked the property, it was identified as likely stray cats in the area nesting/urinating behind their fence line.
July 6	Resident on Race St south of plant entrance notified County of Brant of having issues with a sewage smell in their house after the road construction project was completed.	Operations investigated onsite Odour Controller unit and there were no issues noted with the Paris WPCP treatment process. Collection system odour loggers were pulled and there were some H_2S hits above 20 ppm during time of complaint. Notified homeowner to contact plumber to inspect sanitary service.
September 4	Resident at north end of Gilston Way emailed County of Brant to notify having issues with an increase frequency of odours in the area.	Operators confirmed that the odour control units were functioning properly, though easement odour loggers did record several elevated readings around the time of the complaint. Bioxide odour control dosing rates and residual levels were reviewed at the upstream pumping stations, dosing rates were increased to address H_2S concentrations in the collection system.
September 10	Resident at north end of Gilston Way emailed County of Brant to notify of an obnoxious odour that evening on their street.	Manhole in front of resident's house was investigated, nothing obvious discovered, no issues at the WPCP. Collection system odour logger H_2S values < 20ppm from Sept 10-13. Manhole monitored following week with no further issues noted.

The following odour control measures are in place to mitigate potential odours at the plant and are checked when odour control complaints are received:

- Two carbon filters units to control emissions from the trunk sewer and the leachate receiving facility. The carbon filter units are inspected weekly and their media is monitored for replacement when required.
- Inlet works equipment is visually inspected daily and cleaned out as required.
- The liquid digesters are inspected, monitored daily, and cleaned out annually.
- 4 pumping stations, located upstream of the plant, doses an additive called bioxide, which assists in hydrogen sulphide reduction.
- New Leachate Receiving Station was completed in October 2025, this system doses Ferrous Chloride for odour control as well as has an multi media Odour Control Unit.

(XII) Summary of By-pass, Spill or Abnormal discharge Events

The Paris WPCP did not experience any bypasses, and/or overflows. There were also no spills or abnormal discharge events in 2025.

In March and April, the plant experienced high flows outside the Normal Operating Conditions due to rainfall events and subsequent snowmelt. In accordance with Section 9.2 samples were collected from the events, which fell on a regular scheduled monitoring day and no non-compliances occurred due to these events. These samples were within compliance limits and did not note anything abnormal in terms of raw water quality and effluent quality was not impacted. Sample results may be found in Appendix C –Outside Normal Operating Conditions Additional Sampling.

(XIII) Notice of Modifications to Sewage Works

There were no modifications to the Paris WPCP that required a Notice of Modification form to be submitted during 2025.

(XIV) Summary of Efforts made to achieve conformance with F-5-1

The Paris WPCP is an extended aeration facility with secondary treatment provided by aeration tanks and final disinfection provided by sodium hypochlorite. Supplementary phosphorus removal is also achieved with the addition of ferrous chloride. The treatment components are capable of producing effluent quality that exceeds the effluent design objectives specified in F-5-1. The Paris WPCP is required to achieve higher effluent quality standards than the effluent guideline criteria as specified in the ECA.

Below is a summary of the efforts made to achieve conformance with Procedure F-5-1 which includes, but is not limited to, projects completed in the sanitary sewer system that resulted in overall bypass/overflow elimination:
The County of Brant completes the following activities each year:

- CCTV flushing and camera inspections 16.7% of system completed each year, at end of 6 years entire system done – annual cost of CCTV inspections is approximately $80,000
- Manhole inspections are completed on a 6-year rotation similar to the CCTV inspections
- Flow monitoring and trending at all pump stations.

(XV) Changes or Updates For Construction at Plant

The construction of a Leachate Receiving Station began onsite in August 2024. The Leachate Receiving Station was completed in 2025 and is in operation.

Municipal Class Environmental Assessment for the additional treatment capacity was completed in 2025.

The following are updates that are planned to occur in 2026:

- Project Design for a Paris WPCP upgrade and expansion as well as agency approvals are underway and are expected to be completed by 2027.
- The Electrical Safety Authority (ESA) completes annual inspections of the *Works*. ESA issued an Inspection Defect Notice requiring electrical upgrades for specific hazardous areas at the plant. Upgrades to the facility have started in 2025 are scheduled to be completed in 2026. ESA has been kept appraised of the updated schedule for the work.
- A new centrifuge system is expected to be sourced and installed in 2026, replacing the current Alfa Laval Aldec 506.
- A new inlet channel grinder is expected to arrive in early 2026 and be installed in spring 2026.
- A new Digester #1 transfer pump is expected to arrive in March 2026 and be installed in spring 2026.
- Clarifier #1 rehabilitation started in Fall 2025 and is expected to be completed in spring 2026, this includes a rebuild of the drive gear, baffle, scraper/scum arm, catwalk and new weirs.

APPENDIX A

CALIBRATION REPORTS

Certificate of Calibration — Electro-Magnetic Flow Meter

JBF CONTROLS LTD.
595758 Hwy 59 North RR6
Woodstock, ON. N4S 7W1
Ph#: 519-535-9835
Email: Jfranssen@jbfcontrols.com

☑ Verification
☐ Calibration
Calibration Date: June 30, 2025
Due Date: June 30, 2026

Client Information
Ontario Clean Water Agency - Southwest Region / Paris Cluster
120 Race Street,
Paris, Ontario, N3L 3X2

SCADA Reading Confirmation		
Instrument	SCADA	% Deviation
52.700	52.700	0.000%

Project:	OCWA202201	Manufacturer:	Endress & Hauser	As Found:	52.710 L/s
Client:	OCWA	Transmitter Model:	Promag 400	As Left:	52.700 L/s
Client Contact:	Ben Madill	Transmitter S/N:	P9027A16000	Totalizer Reading:	7176923 m3
Location:	Paris	Flow Tube Model:	Promag W	K-Factor:	1.0668
Facility:	Paris WWTP	Flow Tube S/N:	P9027A16000	Current Output (mA):	4 to 20
Technician:	Jeremy Franssen	Pipe Material:	Stainless Steel	Flow Range:	0 to 60
Meter Purpose:	RAS Flow	Meter Size:	6"	Units:	L/s
Application:	Waste Water	Tag Number:	FIT 387527	Accuracy:	0.50% Reading

mA Output

Reference: mA	As Found: mA	% Deviation	As Left: mA	% Deviation	PASS/FAIL
4.000	3.997	0.019%	3.997	0.019%	PASS
8.000	7.992	0.050%	7.992	0.050%	PASS
12.000	11.997	0.019%	11.997	0.019%	PASS
16.000	16.035	0.219%	16.035	0.219%	PASS
20.000	20.033	0.206%	20.033	0.206%	PASS

Flow Rate Output

Reference: L/s	As Found: L/s	% Deviation	As Left: L/s	% Deviation	PASS/FAIL
0.000	-0.011	0.019%	-0.011	0.019%	PASS
15.000	14.970	0.050%	14.970	0.050%	PASS
30.000	29.989	0.019%	29.989	0.019%	PASS
45.000	45.131	0.219%	45.131	0.219%	PASS
60.000	60.124	0.206%	60.124	0.206%	PASS

Remarks:
Verification of Flow Meter Parameters. Confirm, OK.
Verification of 4-20 mA Output, Confirm, OK.
Verification of Instrument to SCADA Readings, Confirm, OK.
Cleaned and Certified

Calibration Standards Used

Description	Serial n°	Certificate n°	Calibration Date	Due Date
Fluke 705 Loop Calibrator	4624185	59234-B	April 2025	April 2026

Calibration standards used in the certificate are traceable to the National Institute of Standards and Technology (NIST).

Service Technician: Jeremy Franssen
Signature

Certificate of Calibration — Electro-Magnetic Flow Meter

JBF CONTROLS LTD.
595758 Hwy 59 North RR6
Woodstock, ON. N4S 7W1
Ph#: 519-535-9835
Email: Jfranssen@jbfcontrols.com

☑ Verification
☐ Calibration
Calibration Date: June 30, 2025
Due Date: June 30, 2026

Client Information
Ontario Clean Water Agency - Southwest Region / Paris Cluster
120 Race Street,
Paris, Ontario, N3L 3X2

SCADA Reading Confirmation		
Instrument	SCADA	% Deviation
52.090	52.090	0.000%

Project:	OCWA202201	Manufacturer:	Endress & Hauser	As Found:	52.070 L/s
Client:	OCWA	Transmitter Model:	Promag 400	As Left:	52.090 L/s
Client Contact:	Ben Madill	Transmitter S/N:	P81DCD19000	Totalizer Reading:	7311337.5 m3
Location:	Paris	Flow Tube Model:	Promag W	K-Factor:	1.1354
Facility:	Paris WWTP	Flow Tube S/N:	P81DCD19000	Current Output (mA):	4 to 20
Technician:	Jeremy Franssen	Pipe Material:	Stainless Steel	Flow Range:	0 to 60
Meter Purpose:	TAS Flow	Meter Size:	6"	Units:	L/s
Application:	Waste Water	Tag Number:	FIT 387524	Accuracy:	0.50% Reading

mA Output

Reference: mA	As Found: mA	% Deviation	As Left: mA	% Deviation	PASS/FAIL
4.000	4.003	0.019%	4.003	0.019%	PASS
8.000	8.001	0.006%	8.001	0.006%	PASS
12.000	12.002	0.013%	12.002	0.013%	PASS
16.000	16.018	0.113%	16.018	0.113%	PASS
20.000	20.017	0.106%	20.017	0.106%	PASS

Flow Rate Output

Reference: L/s	As Found: L/s	% Deviation	As Left: L/s	% Deviation	PASS/FAIL
0.000	0.011	0.019%	0.011	0.019%	PASS
15.000	15.004	0.006%	15.004	0.006%	PASS
30.000	30.008	0.013%	30.008	0.013%	PASS
45.000	45.068	0.113%	45.068	0.113%	PASS
60.000	60.064	0.106%	60.064	0.106%	PASS

Remarks:
Verification of Flow Meter Parameters. Confirm, OK.
Verification of 4-20 mA Output, Confirm, OK.
Verification of Instrument to SCADA Readings, Confirm, OK.
Cleaned and Certified

Calibration Standards Used

Description	Serial n°	Certificate n°	Calibration Date	Due Date
Fluke 705 Loop Calibrator	4624185	59234-B	April 2025	April 2026

Calibration standards used in the certificate are traceable to the National Institute of Standards and Technology (NIST).

Service Technician: Jeremy Franssen
Signature

Certificate of Calibration — Electro-Magnetic Flow Meter

JBF CONTROLS LTD.
595758 Hwy 59 North RR6
Woodstock, ON. N4S 7W1
Ph#: 519-535-9835
Email: Jfranssen@jbfcontrols.com

☑ Verification
☐ Calibration
Calibration Date: June 30, 2025
Due Date: June 30, 2026

Client Information
Ontario Clean Water Agency - Southwest Region / Paris Cluster
120 Race Street,
Paris, Ontario, N3L 3X2

SCADA Reading Confirmation		
Instrument	SCADA	% Deviation
0.000	0.000	0.000%

Project:	OCWA202201	Manufacturer:	Ultra Mag	As Found:	0.000 L/s
Client:	OCWA	Transmitter Model:	UM06-03-05	As Left:	0.000 L/s
Client Contact:	Ben Madill	Transmitter S/N:	UM20040103	Totalizer Reading:	441969 m3
Location:	Paris	Flow Tube Model:	Ultra Mag	K-Factor:	1.14372
Facility:	Paris WWTP	Flow Tube S/N:	UM20040103	Current Output (mA):	4 to 20
Technician:	Jeremy Franssen	Pipe Material:	Stainless Steel	Flow Range:	0 to 20
Meter Purpose:	Sludge Flow	Meter Size:	3"	Units:	L/s
Application:	Waste Water	Tag Number:	FIT 207546	Accuracy:	0.50% Reading

mA Output

Reference: mA	As Found: mA	% Deviation	As Left: mA	% Deviation	PASS/FAIL
4.000	3.995	0.031%	3.995	0.031%	PASS
8.000	7.990	0.062%	7.990	0.062%	PASS
12.000	11.986	0.087%	11.986	0.087%	PASS
16.000	15.980	0.125%	15.980	0.125%	PASS
20.000	19.975	0.156%	19.975	0.156%	PASS

Flow Rate Output

Reference: L/s	As Found: L/s	% Deviation	As Left: L/s	% Deviation	PASS/FAIL
0.000	-0.006	0.031%	-0.006	0.031%	PASS
5.000	4.988	0.062%	4.988	0.062%	PASS
10.000	9.983	0.087%	9.983	0.087%	PASS
15.000	14.975	0.125%	14.975	0.125%	PASS
20.000	19.969	0.156%	19.969	0.156%	PASS

Remarks:
Verification of Flow Meter Parameters. Confirm, OK.
Verification of 4-20 mA Output, Confirm, OK.
Verification of Instrument to SCADA Readings, Confirm, OK.
Cleaned and Certified

Calibration Standards Used

Description	Serial n°	Certificate n°	Calibration Date	Due Date
Fluke 705 Loop Calibrator	4624185	59234-B	April 2025	April 2026

Calibration standards used in the certificate are traceable to the National Institute of Standards and Technology (NIST).

Service Technician: Jeremy Franssen
Signature

Certificate of Calibration

Electro-Magnetic Flow Meter

JBF CONTROLS LTD.
595758 Hwy 59 North RR6
Woodstock, ON. N4S 7W1
Ph#: 519-535-9835
Email: Jfranssen@jbfcontrols.com

☑ Verification
☐ Calibration

Calibration Date: June 30, 2025
Due Date: June 30, 2026

SCADA Reading Confirmation		
Instrument	SCADA	% Deviation
0.000	0.000	0.000%

Client Information
Ontario Clean Water Agency - Southwest Region / Paris Cluster
120 Race Street,
Paris, Ontario, N3L 3X2

Project:	OCWA202201	Manufacturer:	Endress & Hauser	As Found:	0.000 L/min
Client:	OCWA	Transmitter Model:	Promag 50	As Left:	0.000 L/min
Client Contact:	Ben Madill	Transmitter S/N:	5B002516000	Totalizer Reading:	9684534 L
Location:	Paris	Flow Tube Model:	Promag W	K-Factor:	1.1354
Facility:	Paris WWTP	Flow Tube S/N:	P81DCD19000	Current Output (mA):	4 to 20
Technician:	Jeremy Franssen	Pipe Material:	Stainless Steel	Flow Range:	0 to 25
Meter Purpose:	Polymer Flow	Meter Size:	1/2"	Units:	L/min
Application:	Waste Water	Tag Number:	FIT 207537	Accuracy:	0.50% Reading

mA Output

Reference: mA	As Found: mA	% Deviation	As Left: mA	% Deviation	PASS/FAIL
4.000	3.999	0.006%	3.999	0.006%	PASS
8.000	7.999	0.006%	7.999	0.006%	PASS
12.000	11.999	0.006%	11.999	0.006%	PASS
16.000	15.999	0.006%	15.999	0.006%	PASS
20.000	19.999	0.006%	19.999	0.006%	PASS

Flow Rate Output

Reference: L/min	As Found: L/mir	% Deviation	As Left: L/min	% Deviation	PASS/FAIL
0.000	-0.002	0.006%	-0.002	0.006%	PASS
6.250	6.248	0.006%	6.248	0.006%	PASS
12.500	12.498	0.006%	12.498	0.006%	PASS
18.750	18.748	0.006%	18.748	0.006%	PASS
25.000	24.998	0.006%	24.998	0.006%	PASS

Remarks:
Verification of Flow Meter Parameters. Confirm, OK.
Verification of 4-20 mA Output, Confirm, OK.
Verification of Instrument to SCADA Readings, Confirm, OK.
Cleaned and Certified

Calibration Standards Used

Description	Serial n°	Certificate n°	Calibration Date	Due Date
Fluke 705 Loop Calibrator	4624185	59234-B	April 2025	April 2026

Calibration standards used in the certificate are traceable to the National Institute of Standards and Technology (NIST).

Service Technician: Jeremy Franssen
Signature

Certificate of Calibration

Open Channel Flow Meter

JBF CONTROLS LTD.
595758 Hwy 59 North RR6
Woodstock, ON. N4S 7W1
Ph#: 519-535-9835
Email: Jfranssen@jbfcontrols.com

☑ Verification
☐ Calibration

Calibration Date: June 30, 2025
Due Date: June 30, 2026

Client Information

Ontario Clean Water Agency - Southwest Region / Paris Cluster
120 Race Street,
Paris, Ontario, N3L 3X2

SCADA Reading Confirmation		
Instrument	SCADA	% Deviation
194.080	194.080	0.000%

Project:	OCWA202201	Manufacturer:	Siemens	As Found:	194.220 m3/hr
Client:	OCWA	Transmitter Model:	LT500	As Left:	194.080 m3/hr
Client Contact:	Ben Madill	Transmitter S/N:	PBD-S529008	Totalizer Reading:	1173254.37 m3
Location:	Paris	Transducer Model:	XRS-5	K-Factor:	N/A
Facility:	Paris WWTP	Transducer S/N:	N/A	Current Output (mA):	4 to 20
Technician:	Jeremy Franssen	OCM Device Type:	Parshall Flume	Flow Range:	0 to 1645.8300
Meter Purpose:	Effluent Flow	OCM Device Size:	12"	Units:	m3/hr
Application:	Waste Water	Tag Number:	**FIT 529008**	Accuracy:	2.00% Reading

mA Output

Reference: mA	As Found: mA	% Deviation	As Left: mA	% Deviation	PASS/FAIL
4.000	4.093	0.581%	4.093	0.581%	PASS
8.000	8.032	0.200%	8.032	0.200%	PASS
12.000	12.105	0.656%	12.105	0.656%	PASS
16.000	16.251	1.569%	16.251	1.569%	PASS
20.000	20.285	1.781%	20.285	1.781%	PASS

Flow Rate Output

Reference: cm	Measured: cm	Calc. Flow m3/hr	Display Reading m3/hr	Calculated: mA	Measured: mA	% Deviation	Result
18.700	18.600	193.730	194.080	5.886	5.942	0.131%	PASS

Parameters			Parameters		
P1	Dimensional units	cm	P45	Low Flow Cut-off	0
P2	Temperature Units	Celcius	P46	Range at Zero Head	132.7
P3	Primary Element	Exponential Device	P47	Blanking Distance	56.5
P4	Method of Calculation	Ratiometric			
P5	Flow Rate Units	m3/hr	a reads 1680.00 r		
P6	Flow at Max Head	1645.83		Relays	
P7	Height of Max Head	76.199	Parameter	P15	P16 P17
U0	Exponent	1.522	Relay 1	0	- -
P24	mA Assignment	Flow rate	Parameter	P18	P19 P20
P26	mA Span	4-20mA	Relay 2	0	- -
P32	Totalizer Multiplier	x1	Parameter	P21	P22 P23
P42	Head Determination	OCM III	Relay 3	0	- -

Remarks:
Verification of Flow Meter Parameters. Confirm, OK.
Verification of 4-20 mA Output, Confirm, OK.
Verification of Instrument to SCADA Readings, Confirm, OK.
Cleaned and Certified

Ratiometric Calculation
$Q=KH^n$
Q=2487(0.187)1.522
Q=193.73 m3/hr

Calibration Standards Used

Description	Serial n°	Certificate n°	Calibration Date	Due Date
Fluke 705 Loop Calibrator	**4624185**	**59234-B**	**April 2025**	**April 2026**

Calibration standards used in the certificate are traceable to the National Institute of Standards and Technology (NIST).

Service Technician: Jeremy Franssen
Signature

Certificate of Calibration

Open Channel Flow Meter

JBF CONTROLS LTD.
595758 Hwy 59 North RR6
Woodstock, ON. N4S 7W1
Ph#: 519-535-9835
Email: Jfranssen@jbfcontrols.com

☑ Verification
☐ Calibration
Calibration Date: June 30, 2025
Due Date: June 30, 2026

Client Information

Ontario Clean Water Agency - Southwest Region / Paris Cluster
120 Race Street,
Paris, Ontario, N3L 3X2

SCADA Reading Confirmation		
Instrument	SCADA	% Deviation
164.900	164.900	0.000%

Project:	OCWA202201	Manufacturer:	Siemens	As Found:	149.200 m3/hr
Client:	OCWA	Transmitter Model:	LUT400	As Left:	164.900 m3/hr
Client Contact:	Ben Madill	Transmitter S/N:	PBD-E9190345	Totalizer Reading:	8484368.55 m3
Location:	Paris	Transducer Model:	XRS-5	K-Factor:	N/A
Facility:	Paris WWTP	Transducer S/N:	N/A	Current Output (mA):	4 to 20
Technician:	Jeremy Franssen	OCM Device Type:	Parshall Flume	Flow Range:	0 to 616.9000
Meter Purpose:	Influent Flow	OCM Device Size:	9"	Units:	m3/hr
Application:	Waste Water	Tag Number:	**FIT 311166**	Accuracy:	2.00% Reading

mA Output

Reference: mA	As Found: mA	% Deviation	As Left: mA	% Deviation	PASS/FAIL
4.000	3.998	0.012%	3.998	0.012%	PASS
8.000	7.997	0.019%	7.997	0.019%	PASS
12.000	11.996	0.025%	11.996	0.025%	PASS
16.000	15.995	0.031%	15.995	0.031%	PASS
20.000	19.994	0.038%	19.994	0.038%	PASS

Flow Rate Output

Reference: mm	Measured: mm	Calc. Flow m3/hr	Display Reading m3/hr	Calculated: mA	Measured: mA	% Deviation	Result
201.000	200.000	165.330	164.900	8.276	8.259	0.211%	PASS

Parameters			Parameters		
P1	Dimensional units	mm	P45	Low Flow Cut-off	0
P2	Temperature Units	Celcius	P46	Range at Zero Head	950
P3	Primary Element	Exponential Device	P47	Blanking Distance	300
P4	Method of Calculation	Ratiometric			
P5	Flow Rate Units	m3/hr	a reads 14831 m		
P6	Flow at Max Head	616.9		Relays	
P7	Height of Max Head	475	Parameter	P15	P16 P17
U0	Exponent	1.53	Relay 1	0	- -
P24	mA Assignment	Flow rate	Parameter	P18	P19 P20
P26	mA Span	4-20mA	Relay 2	0	- -
P32	Totalizer Multiplier	x1	Parameter	P21	P22 P23
P42	Head Determination	OCM III	Relay 3	0	- -

Remarks:
Verification of Flow Meter Parameters. Confirm, OK.
Verification of 4-20 mA Output, Confirm, OK.
Verification of Instrument to SCADA Readings, Confirm, OK.
Cleaned and Certified

Ratiometric Calculation
$Q=KH^n$
$Q=1927(0.201)^{1.53}$
$Q=165.33$ m3/hr

Calibration Standards Used

Description	Serial n°	Certificate n°	Calibration Date	Due Date
Fluke 705 Loop Calibrator	**4624185**	**59234-B**	**April 2025**	**April 2026**

Calibration standards used in the certificate are traceable to the National Institute of Standards and Technology (NIST).

Found exponent was set up for a 12" flume. Unit is a 9" Parshall flume.
changed exponent from 1.522 to 1.53

Service Technician: Jeremy Franssen
Signature

Certificate of Calibration

Open Channel Flow Meter

JBF CONTROLS LTD.
595758 Hwy 59 North RR6
Woodstock, ON. N4S 7W1
Ph#: 519-535-9835
Email: Jfranssen@jbfcontrols.com

☑ Verification
☐ Calibration

Calibration Date: June 30, 2025
Due Date: June 30, 2026

Client Information

Ontario Clean Water Agency - Southwest Region / Paris Cluster
120 Race Street,
Paris, Ontario, N3L 3X2

SCADA Reading Confirmation		
Instrument	SCADA	% Deviation
0.000	0.000	0.000%

Project:	OCWA202201	Manufacturer:	Siemens	As Found:	0.000 m3/day
Client:	OCWA	Transmitter Model:	LUT400	As Left:	0.000 m3/day
Client Contact:	Ben Madill	Transmitter S/N:	PBD-E9190346	Totalizer Reading:	87.88 m3
Location:	Paris	Transducer Model:	XRS-5	K-Factor:	N/A
Facility:	Paris WWTP	Transducer S/N:	N/A	Current Output (mA):	4 to 20
Technician:	Jeremy Franssen	OCM Device Type:	Rectangular Weir	Flow Range:	0 to 10000.0000
Meter Purpose:	Bypass Flow	OCM Device Size:	0.4m	Units:	m3/day
Application:	Waste Water	Tag Number:	**FIT 311166**	Accuracy:	2.00% Reading

mA Output

Reference: mA	As Found: mA	% Deviation	As Left: mA	% Deviation	PASS/FAIL
4.000	3.998	0.012%	3.998	0.012%	PASS
8.000	7.997	0.019%	7.997	0.019%	PASS
12.000	11.996	0.025%	11.996	0.025%	PASS
16.000	15.995	0.031%	15.995	0.031%	PASS
20.000	19.994	0.038%	19.994	0.038%	PASS

Flow Rate Output

Reference: mm	Measured: mm	Calc. Flow m3/day	Display Reading m3/day	Calculated: mA	Measured: mA	% Deviation	Result
0.000	0.000	0.000	0.000	4	3.999	0.000%	PASS

Parameters			Parameters		
P1	Dimensional units	mm	P45	Low Flow Cut-off	0
P2	Temperature Units	Celcius	P46	Range at Zero Head	1086
P3	Primary Element	Exponential Device	P47	Blanking Distance	300
P4	Method of Calculation	Ratiometric			
P5	Flow Rate Units	m3/day	a reads 8000 m3		
P6	Flow at Max Head	10000		Relays	
P7	Height of Max Head	786	Parameter	P15	P16 P17
U0	Exponent	1.5	Relay 1	0	- -
P24	mA Assignment	Flow rate	Parameter	P18	P19 P20
P26	mA Span	4-20mA	Relay 2	0	- -
P32	Totalizer Multiplier	x1	Parameter	P21	P22 P23
P42	Head Determination	OCM III	Relay 3	0	- -

Remarks:
Verification of Flow Meter Parameters. Confirm, OK.
Verification of 4-20 mA Output, Confirm, OK.
Verification of Instrument to SCADA Readings, Confirm, OK.
Cleaned and Certified

Ratiometric Calculation
$Q=KLH^n$
$Q=6618(0.4)(0)^{1.5}$
Q=0 m3/hr Q=0 m3/day

Calibration Standards Used

Description	Serial n°	Certificate n°	Calibration Date	Due Date
Fluke 705 Loop Calibrator	**4624185**	**59234-B**	**April 2025**	**April 2026**

Calibration standards used in the certificate are traceable to the National Institute of Standards and Technology (NIST).

Service Technician: Jeremy Franssen
Signature

APPENDIX B

ACUTE LETHALITY RESULTS

NAUTILUS ENVIRONMENTAL
8-11 Nicholas Beaver Road
Puslinch, ON N0B 2J0
Tel. (519) 763-4412
Fax. (519) 763-4419

TOXICITY TEST REPORT
Rainbow Trout
EPS 1/RM/13

Work Order : 258027
Sample Number : 87238

SAMPLE IDENTIFICATION

Company :	Ontario Clean Water Agency, Paris	Sampling Date :	2025-06-12
Location :	Paris ON	Sampling Time :	08:35
Substance :	Paris WPCP Effluent	Date Received :	2025-06-12
Sampling Method :	Grab	Time Received :	13:00
Sampled By :	R. Rathod	Temperature at Receipt :	20 °C
Sample Description :	Clear, colourless	Date Tested :	2025-06-13

Test Method(s) : Reference Method for Determining Acute Lethality of Liquid Effluents to Rainbow Trout. Environment Canada, EPS 1/RM/13 (2nd Edition, December 2000, with May 2007, February 2016, and December 2023 amendments).

96-HOUR TEST RESULTS

Substance	Effect	Value
Control	Mean Impairment	0.0 %
	Mean Mortality	0.0 %
100%	Mean Impairment	0.0 %
	Mean Mortality	0.0 %

The results reported relate only to the sample tested and as received.

TEST ORGANISM

Test Organism :	*Oncorhynchus mykiss*	Mean Fork Length :	35.5 mm
Organism Batch :	T25-13	Range of Fork Lengths :	32 - 39 mm
Control Sample Size :	10	Mean Wet Weight :	0.4 g
Cumulative stock mortality rate :	0% (previous 7 days)	Organism Loading Rate :	0.2 g/L
Control organisms showing stress :	0 (at test completion)		

TEST CONDITIONS

Test Type :	Single concentration	Number of Replicates :	1
Sample pH Adjustment :	None	Organisms Per Replicate :	10
Sample Pre-aeration/Aeration Rate :	6.5 ± 1 mL/min/L	Organisms Per Test Level :	10
Duration of Sample Pre-Aeration :	30 minutes	Volume of Sample :	15 L
Control Pre-aeration/Aeration Rate :	6.5 ± 1 mL/min/L	Volume of Control :	17 L
Duration of Control Pre-aeration:	30 minutes	Test Method Deviation(s) :	None

REFERENCE TOXICANT DATA

Toxicant :	Potassium Chloride		
Organism Batch :	T25-13	LC50 :	2935 mg/L*
Date Tested :	2025-06-02	95% Confidence Limits :	2547 - 3335 mg/L
Analyst(s) :	NWP, GF, JGR	Historical Mean LC50 :	4175 mg/L
Statistical Method :	Linear Regression (MLE)	Warning Limits (± 2SD) :	3286 - 5304 mg/L

COMMENTS

•All test validity criteria as specified in the test method were satisfied.
*The reference toxicant test result exceeded the 95% warning limits, but fell within the 99.7% control limits, for historical data. No other unusual circumstances were observed and therefore the test result is considered acceptable.

Approved By : Cinda Glasner Ragis I am approving this document Nautilus Environmental 2025-06-20 14:48-04:00
Project Manager

Accredited to ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA)

NAUTILUS ENVIRONMENTAL

TOXICITY TEST REPORT
Rainbow Trout
EPS 1/RM/13

Work Order : 258027
Sample Number : 87238

TEST DATA

	pH	Dissolved O_2 (mg/L)	Conductivity (µmhos/cm)	Temperature (°C)	O_2 Saturation (%)[3]
Initial Water Chemistry (100%) :	7.0	6.7	2482	15	70
After 30 min pre-aeration :	7.1	7.4	2479	15	77

0 HOURS

Date & Time 2025-06-13 8:45
Analyst(s) : GF (JGR)

Concentration	Dead	Impaired	pH	Dissolved O_2	Conductivity	Temperature	O_2 Saturation[3]
100%	0	0	7.1	7.4	2479	15	77
Control	0	0	8.1	9.4	679	15	98

Notes:

24 HOURS

Date & Time 2025-06-14 8:30
Analyst(s) : GF (VC)

Concentration	Dead	Impaired	pH	Dissolved O_2	Conductivity	Temperature
100%	0	0	–	–	–	15
Control	0	0	–	–	–	15

Notes:

48 HOURS

Date & Time 2025-06-15 7:50
Analyst(s) : GF (VC)

Concentration	Dead	Impaired	pH	Dissolved O_2	Conductivity	Temperature
100%	0	0	–	–	–	15
Control	0	0	–	–	–	15

Notes:

72 HOURS

Date & Time 2025-06-16 9:00
Analyst(s) : CB (NWP)

Concentration	Dead	Impaired	pH	Dissolved O_2	Conductivity	Temperature
100%	0	0	–	–	–	14
Control	0	0	–	–	–	14

Notes:

96 HOURS

Date & Time 2025-06-17 7:50
Analyst(s) : CB (JGR)

Concentration	Dead	Impaired	pH	Dissolved O_2	Conductivity	Temperature
100%	0	0	8.1	9.5	2481	14
Control	0	0	8.4	9.7	667	14

Notes:

"–" = not measured/not required
Number impaired does not include number dead.
[3] adjusted for temperature and barometric pressure

Test Data Reviewed By : FM
Date : 2025-06-18

APPENDIX C

2026 PARIS WPCP SAMPLE CALENDAR

QEMS Ontario Clean Water Agency	2026 Paris WPCP Sample Calendar	Issued: 2025-??-?? Rev.#: 0 Pages: 1 of 12
Reviewed by: Process & Compliance Technician	Approved by: Senior Operations Manager	

January 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 ☐ IH Reduced **STAT**	2 ☐ IH Reduced	3
4	5 ☐ IH Full	6 ☐ IH Full ☐ MONTHLY Sample	7 ☐ IH Reduced	8 ☐ IH Reduced	9 ☐ IH Reduced	10
11	12 ☐ IH Full	13 ☐ IH Full ☐ **WEEKLY Sample**	14 ☐ IH Reduced	15 ☐ IH Reduced	16 ☐ IH Reduced	17
18	19 ☐ IH Full	20 ☐ IH Full ☐ **WEEKLY Sample**	21 ☐ IH Reduced	22 ☐ IH Reduced	23 ☐ IH Reduced	24
25	26 ☐ IH Full	27 ☐ IH Full ☐ **WEEKLY Sample**	28 ☐ IH Reduced	29 ☐ IH Reduced	30 ☐ IH Reduced	31

IH (In House) Full: Grab Raw (pH, Temp)
Grab Effluent (pH, Temp, DO, TRC)
Composite Effluent (TSS, TP, TAN)
Grab Clarifier (Blanket depths, TSS)
Grab Aeration A&B (Set Test, MLSS, DO, Temp)
Grab RAS/WAS (TSS, Volume Wasted)
Grab Liquid Biosolids (%TS)
Grab Dewatered Biosolids (%TS)
Grab Centrate (%TS)

IH (In House) Reduced: Grab Effluent (pH, Temp, DO, TRC)
Grab Aeration (Set Test, DO, Temp.)
Grab RAS/WAS (TSS, Volume Wasted)

Raw Monthly/Weekly Sample: 24 hr Composite (BOD5, TSS, TP, TKN)
Effluent Monthly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN, Nitrite, Nitrate, Ortho-P)
Effluent Weekly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN)
Effluent Monthly/Weekly Sample Grab (E. coli, pH, temp, TRC)
Biosolids Liquid/Dewatered Samples (Monthly): TS, TP, TAN, Nitrate, Metals (As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn), E. coli's
Centrate Monthly/Weekly Sample: Grab (TSS, TP, TAN, BOD5)
Annual Acute Toxicity Sample: Grab (Rainbow Trout, Single Concentration)
Leachate: Grab (BOD5, TSS, TP, TKN)

QEMS Ontario Clean Water Agency	2026 Paris WPCP Sample Calendar	Issued: 2025-??-?? Rev.#: 0 Pages: 2 of 12
Reviewed by: Process & Compliance Technician	Approved by: Senior Operations Manager	

February 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2 ☐ IH Full	3 ☐ IH Full ☐ MONTHLY Sample	4 ☐ IH Reduced	5 ☐ IH Reduced	6 ☐ IH Reduced	7
8	9 ☐ IH Full	10 ☐ IH Full ☐ **WEEKLY Sample**	11 ☐ IH Reduced	12 ☐ IH Reduced	13 ☐ IH Reduced	14
15	16 ☐ IH Full **STAT**	17 ☐ IH Full ☐ **WEEKLY Sample**	18 ☐ IH Reduced	19 ☐ IH Reduced	20 ☐ IH Reduced	21
22	23 ☐ IH Full	24 ☐ IH Full ☐ **WEEKLY Sample**	25 ☐ IH Reduced	26 ☐ IH Reduced	27 ☐ IH Reduced	28

IH (In House) Full:
Grab Raw (pH, Temp)
Grab Effluent (pH, Temp, DO, TRC)
Composite Effluent (TSS, TP, TAN)
Grab Clarifier (Blanket depths, TSS)
Grab Aeration A&B (Set Test, MLSS, DO, Temp)
Grab RAS/WAS (TSS, Volume Wasted)
Grab Liquid Biosolids (%TS)
Grab Dewatered Biosolids (%TS)
Grab Centrate (%TS)

IH (In House) Reduced:
Grab Effluent (pH, Temp, DO, TRC)
Grab Aeration (Set Test, DO, Temp.)
Grab RAS/WAS (TSS, Volume Wasted)

Raw Monthly/Weekly Sample: 24 hr Composite (BOD5, TSS, TP, TKN)
Effluent Monthly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN, Nitrite, Nitrate, Ortho-P)
Effluent Weekly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN)
Effluent Monthly/Weekly Sample Grab (E. coli, pH, temp, TRC)
Biosolids Liquid/Dewatered Samples (Monthly): TS, TP, TAN, Nitrate, Metals (As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn), E. coli's
Centrate Monthly/Weekly Sample: Grab (TSS, TP, TAN, BOD5)
Annual Acute Toxicity Sample: Grab (Rainbow Trout, Single Concentration)
Leachate: Grab (BOD5, TSS, TP, TKN)

QEMS Ontario Clean Water Agency	2026 Paris WPCP Sample Calendar	Issued: 2025-??-?? Rev.#: 0 Pages: 3 of 12
Reviewed by: Process & Compliance Technician	Approved by: Senior Operations Manager	

March 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2 ☐ IH Full	3 ☐ IH Full ☐ MONTHLY Sample	4 ☐ IH Reduced	5 ☐ IH Reduced	6 ☐ IH Reduced	7
8	9 ☐ IH Full	10 ☐ IH Full ☐ WEEKLY Sample	11 ☐ IH Reduced	12 ☐ IH Reduced	13 ☐ IH Reduced	14
15	16 ☐ IH Full	17 ☐ IH Full ☐ BIWEEKLY Sample	18 ☐ IH Reduced	19 ☐ IH Reduced	20 ☐ IH Reduced	21
22	23 ☐ IH Full	24 ☐ IH Full ☐ WEEKLY Sample	25 ☐ IH Reduced	26 ☐ IH Reduced		28
29	30 ☐ IH Full	31 ☐ IH Full ☐ WEEKLY Sample				

IH (In House) Full: Grab Raw (pH, Temp)
Grab Effluent (pH, Temp, DO, TRC)
Composite Effluent (TSS, TP, TAN)
Grab Clarifier (Blanket depths, TSS)
Grab Aeration A&B (Set Test, MLSS, DO, Temp)
Grab RAS/WAS (TSS, Volume Wasted)
Grab Liquid Biosolids (%TS)
Grab Dewatered Biosolids (%TS)
Grab Centrate (%TS)

IH (In House) Reduced: Grab Effluent (pH, Temp, DO, TRC)
Grab Aeration (Set Test, DO, Temp.)
Grab RAS/WAS (TSS, Volume Wasted)

Raw Monthly/Weekly Sample: 24 hr Composite (BOD5, TSS, TP, TKN)
Effluent Monthly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN, Nitrite, Nitrate, Ortho-P)
Effluent Weekly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN)
Effluent Monthly/Weekly Sample Grab (E. coli, pH, temp, TRC)
Biosolids Liquid/Dewatered Samples (Monthly): TS, TP, TAN, Nitrate, Metals (As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn), E. coli's
Centrate Monthly/Weekly Sample: Grab (TSS, TP, TAN, BOD5)
Annual Acute Toxicity Sample: Grab (Rainbow Trout, Single Concentration)
Leachate: Grab (BOD5, TSS, TP, TKN)

QEMS Ontario Clean Water Agency	2026 Paris WPCP Sample Calendar	Issued: 2025-??-?? Rev.#: 0 Pages: 4 of 12
Reviewed by: Process & Compliance Technician	Approved by: Senior Operations Manager	

April 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 ☐ IH Reduced	2 ☐ IH Reduced	3 ☐ IH Reduced **STAT**	4
5	6 ☐ IH Full **STAT**	7 ☐ IH Full ☐ **MONTHLY Sample**	8 ☐ IH Reduced	9 ☐ IH Reduced	10 ☐ IH Reduced	11
12	13 ☐ IH Full	14 ☐ IH Full ☐ **WEEKLY Sample**	15 ☐ IH Reduced	16 ☐ IH Reduced	17 ☐ IH Reduced	18
19	20 ☐ IH Full	21 ☐ IH Full ☐ **BIWEEKLY Sample**	22 ☐ IH Reduced	23 ☐ IH Reduced	24 ☐ IH Reduced	25
26	27 ☐ IH Full	28 ☐ IH Full ☐ **WEEKLY Sample**	29 ☐ IH Reduced	30 ☐ IH Reduced		

IH (In House) Full:
Grab Raw (pH, Temp)
Grab Effluent (pH, Temp, DO, TRC)
Composite Effluent (TSS, TP, TAN)
Grab Clarifier (Blanket depths, TSS)
Grab Aeration A&B (Set Test, MLSS, DO, Temp)
Grab RAS/WAS (TSS, Volume Wasted)
Grab Liquid Biosolids (%TS)
Grab Dewatered Biosolids (%TS)
Grab Centrate (%TS)

IH (In House) Reduced:
Grab Effluent (pH, Temp, DO, TRC)
Grab Aeration (Set Test, DO, Temp.)
Grab RAS/WAS (TSS, Volume Wasted)

Raw Monthly/Weekly Sample: 24 hr Composite (BOD5, TSS, TP, TKN)
Effluent Monthly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN, Nitrite, Nitrate, Ortho-P)
Effluent Weekly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN)
Effluent Monthly/Weekly Sample Grab (E. coli, pH, temp, TRC)
Biosolids Liquid/Dewatered Samples (Monthly): TS, TP, TAN, Nitrate, Metals (As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn), E. coli's
Centrate Monthly/Weekly Sample: Grab (TSS, TP, TAN, BOD5)
Annual Acute Toxicity Sample: Grab (Rainbow Trout, Single Concentration)
Leachate: Grab (BOD5, TSS, TP, TKN)

QEMS Ontario Clean Water Agency	2026 Paris WPCP Sample Calendar	Issued: 2025-??-?? Rev.#: 0 Pages: 5 of 12
Reviewed by: Process & Compliance Technician	Approved by: Senior Operations Manager	

May 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 ☐ IH Reduced	2
3	4 ☐ IH Full	5 ☐ IH Full ☐ MONTHLY Sample	6 ☐ IH Reduced	7 ☐ IH Reduced	8 ☐ IH Reduced	9
10	11 ☐ IH Full	12 ☐ IH Full ☐ WEEKLY Sample	13 ☐ IH Reduced	14 ☐ IH Reduced	15 ☐ IH Reduced	16
17	18 ☐ IH Full STAT	19 ☐ IH Full ☐ BIWEEKLY Sample	20 ☐ IH Reduced	21 ☐ IH Reduced	22 ☐ IH Reduced	23
24	25 ☐ IH Full	26 ☐ IH Full ☐ WEEKLY Sample	27 ☐ IH Reduced	28 ☐ IH Reduced	29 ☐ IH Reduced	30

IH (In House) Full: Grab Raw (pH, Temp)
Grab Effluent (pH, Temp, DO, TRC)
Composite Effluent (TSS, TP, TAN)
Grab Clarifier (Blanket depths, TSS)
Grab Aeration A&B (Set Test, MLSS, DO, Temp)
Grab RAS/WAS (TSS, Volume Wasted)
Grab Liquid Biosolids (%TS)
Grab Dewatered Biosolids (%TS)
Grab Centrate (%TS)

IH (In House) Reduced: Grab Effluent (pH, Temp, DO, TRC)
Grab Aeration (Set Test, DO, Temp.)
Grab RAS/WAS (TSS, Volume Wasted)

Raw Monthly/Weekly Sample: 24 hr Composite (BOD5, TSS, TP, TKN)
Effluent Monthly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN, Nitrite, Nitrate, Ortho-P)
Effluent Weekly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN)
Effluent Monthly/Weekly Sample Grab (E. coli, pH, temp, TRC)
Biosolids Liquid/Dewatered Samples (Monthly): TS, TP, TAN, Nitrate, Metals (As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn), E. coli's
Centrate Monthly/Weekly Sample: Grab (TSS, TP, TAN, BOD5)
Annual Acute Toxicity Sample: Grab (Rainbow Trout, Single Concentration)
Leachate: Grab (BOD5, TSS, TP, TKN)

QEMS Ontario Clean Water Agency	2026 Paris WPCP Sample Calendar	Issued: 2025-??-?? Rev.#: 0 Pages: 6 of 12
Reviewed by: Process & Compliance Technician	Approved by: Senior Operations Manager	

June 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
May 31	1 ☐ IH Full	2 ☐ IH Full ☐ MONTHLY Sample	3 ☐ IH Reduced	4 ☐ IH Reduced	5 ☐ IH Reduced	6
7	8 ☐ IH Full	9 ☐ IH Full ☐ WEEKLY Sample ☐ ACUTE TOXICITY SAMPLING	10 ☐ IH Reduced	11 ☐ IH Reduced	12 ☐ IH Reduced	13
14	15 ☐ IH Full	16 ☐ IH Full ☐ WEEKLY Sample	17 ☐ IH Reduced	18 ☐ IH Reduced	19 ☐ IH Reduced	20
21	22 ☐ IH Full	23 ☐ IH Full ☐ WEEKLY Sample	24 ☐ IH Reduced	25 ☐ IH Reduced	26 ☐ IH Reduced	27
28	29 ☐ IH Full	30 ☐ IH Full ☐ WEEKLY Sample				

IH (In House) Full:
Grab Raw (pH, Temp)
Grab Effluent (pH, Temp, DO, TRC)
Composite Effluent (TSS, TP, TAN)
Grab Clarifier (Blanket depths, TSS)
Grab Aeration A&B (Set Test, MLSS, DO, Temp)
Grab RAS/WAS (TSS, Volume Wasted)
Grab Liquid Biosolids (%TS)
Grab Dewatered Biosolids (%TS)
Grab Centrate (%TS)

IH (In House) Reduced:
Grab Effluent (pH, Temp, DO, TRC)
Grab Aeration (Set Test, DO, Temp.)
Grab RAS/WAS (TSS, Volume Wasted)

Raw Monthly/Weekly Sample: 24 hr Composite (BOD5, TSS, TP, TKN)
Effluent Monthly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN, Nitrite, Nitrate, Ortho-P)
Effluent Weekly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN)
Effluent Monthly/Weekly Sample Grab (E. coli, pH, temp, TRC)
Biosolids Liquid/Dewatered Samples (Monthly): TS, TP, TAN, Nitrate, Metals (As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn), E. coli's
Centrate Monthly/Weekly Sample: Grab (TSS, TP, TAN, BOD5)
Annual Acute Toxicity Sample: Grab (Rainbow Trout, Single Concentration)
Leachate: Grab (BOD5, TSS, TP, TKN)

QEMS Ontario Clean Water Agency	2026 Paris WPCP Sample Calendar	Issued: 2025-??-?? Rev.#: 0 Pages: 7 of 12
Reviewed by: Process & Compliance Technician	Approved by: Senior Operations Manager	

July 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 ☐ IH Reduced **STAT**	2 ☐ IH Reduced	3 ☐ IH Reduced	4
5	6 ☐ IH Full	7 ☐ IH Full ☐ MONTHLY Sample	8 ☐ IH Reduced	9 ☐ IH Reduced	10 ☐ IH Reduced	11
12	13 ☐ IH Full	14 ☐ IH Full ☐ **WEEKLY Sample**	15 ☐ IH Reduced	16 ☐ IH Reduced	17 ☐ IH Reduced	18
19	20 ☐ IH Full	21 ☐ IH Full ☐ **WEEKLY Sample**	22 ☐ IH Reduced	23 ☐ IH Reduced	24 ☐ IH Reduced	25
26	27 ☐ IH Full	28 ☐ IH Full ☐ **WEEKLY Sample**	29 ☐ IH Reduced	30 ☐ IH Reduced	31 ☐ IH Reduced	

IH (In House) Full: Grab Raw (pH, Temp)
Grab Effluent (pH, Temp, DO, TRC)
Composite Effluent (TSS, TP, TAN)
Grab Clarifier (Blanket depths, TSS)
Grab Aeration A&B (Set Test, MLSS, DO, Temp)
Grab RAS/WAS (TSS, Volume Wasted)
Grab Liquid Biosolids (%TS)
Grab Dewatered Biosolids (%TS)
Grab Centrate (%TS)

IH (In House) Reduced: Grab Effluent (pH, Temp, DO, TRC)
Grab Aeration (Set Test, DO, Temp.)
Grab RAS/WAS (TSS, Volume Wasted)

Raw Monthly/Weekly Sample: 24 hr Composite (BOD5, TSS, TP, TKN)
Effluent Monthly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN, Nitrite, Nitrate, Ortho-P)
Effluent Weekly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN)
Effluent Monthly/Weekly Sample Grab (E. coli, pH, temp, TRC)
Biosolids Liquid/Dewatered Samples (Monthly): TS, TP, TAN, Nitrate, Metals (As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn), E. coli's
Centrate Monthly/Weekly Sample: Grab (TSS, TP, TAN, BOD5)
Annual Acute Toxicity Sample: Grab (Rainbow Trout, Single Concentration)
Leachate: Grab (BOD5, TSS, TP, TKN)

QEMS Ontario Clean Water Agency	2026 Paris WPCP Sample Calendar	Issued: 2025-??-?? Rev.#: 0 Pages: 8 of 12
Reviewed by: Process & Compliance Technician	Approved by: Senior Operations Manager	

August 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3 ☐ IH Full **STAT**	4 ☐ IH Full ☐ **MONTHLY Sample**	5 ☐ IH Reduced	6 ☐ IH Reduced	7 ☐ IH Reduced	8
9	10 ☐ IH Full	11 ☐ IH Full ☐ **WEEKLY Sample**	12 ☐ IH Reduced	13 ☐ IH Reduced	14 ☐ IH Reduced	15
16	17 ☐ IH Full	18 ☐ IH Full ☐ **BIWEEKLY Sample**	19 ☐ IH Reduced	20 ☐ IH Reduced	21 ☐ IH Reduced	22
23	24 ☐ IH Full	25 ☐ IH Full ☐ **WEEKLY Sample**	26 ☐ IH Reduced	27 ☐ IH Reduced	28 ☐ IH Reduced	29
30	31					

IH (In House) Full: Grab Raw (pH, Temp)
Grab Effluent (pH, Temp, DO, TRC)
Composite Effluent (TSS, TP, TAN)
Grab Clarifier (Blanket depths, TSS)
Grab Aeration A&B (Set Test, MLSS, DO, Temp)
Grab RAS/WAS (TSS, Volume Wasted)
Grab Liquid Biosolids (%TS)
Grab Dewatered Biosolids (%TS)
Grab Centrate (%TS)

IH (In House) Reduced: Grab Effluent (pH, Temp, DO, TRC)
Grab Aeration (Set Test, DO, Temp.)
Grab RAS/WAS (TSS, Volume Wasted)

Raw Monthly/Weekly Sample: 24 hr Composite (BOD5, TSS, TP, TKN)
Effluent Monthly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN, Nitrite, Nitrate, Ortho-P)
Effluent Weekly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN)
Effluent Monthly/Weekly Sample Grab (E. coli, pH, temp, TRC)
Biosolids Liquid/Dewatered Samples (Monthly): TS, TP, TAN, Nitrate, Metals (As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn), E. coli's
Centrate Monthly/Weekly Sample: Grab (TSS, TP, TAN, BOD5)
Annual Acute Toxicity Sample: Grab (Rainbow Trout, Single Concentration)
Leachate: Grab (BOD5, TSS, TP, TKN)

QEMS Ontario Clean Water Agency	2026 Paris WPCP Sample Calendar	Issued: 2025-??-?? Rev.#: 0 Pages: 9 of 12
Reviewed by: Process & Compliance Technician	Approved by: Senior Operations Manager	

September 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1 ☐ IH Full	1 ☐ IH Full ☐ MONTHLY Sample	2 ☐ IH Reduced	3 ☐ IH Reduced	4 ☐ IH Reduced	5
6	7 ☐ IH Full STAT	8 ☐ IH Full ☐ WEEKLY Sample	9 ☐ IH Reduced	10 ☐ IH Reduced	11 ☐ IH Reduced	12
13	14 ☐ IH Full	15 ☐ IH Full ☐ BIWEEKLY Sample	16 ☐ IH Reduced	17 ☐ IH Reduced	18 ☐ IH Reduced	19
20	21 ☐ IH Full	22 ☐ IH Full ☐ WEEKLY Sample	23 ☐ IH Reduced	24 ☐ IH Reduced	25 ☐ IH Reduced	26
27	28 ☐ IH Full	29 ☐ IH Full ☐ WEEKLY Sample	30 ☐ IH Reduced STAT			

IH (In House) Full:
Grab Raw (pH, Temp)
Grab Effluent (pH, Temp, DO, TRC)
Composite Effluent (TSS, TP, TAN)
Grab Clarifier (Blanket depths, TSS)
Grab Aeration A&B (Set Test, MLSS, DO, Temp)
Grab RAS/WAS (TSS, Volume Wasted)
Grab Liquid Biosolids (%TS)
Grab Dewatered Biosolids (%TS)
Grab Centrate (%TS)

IH (In House) Reduced:
Grab Effluent (pH, Temp, DO, TRC)
Grab Aeration (Set Test, DO, Temp.)
Grab RAS/WAS (TSS, Volume Wasted)

Raw Monthly/Weekly Sample: 24 hr Composite (BOD5, TSS, TP, TKN)
Effluent Monthly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN, Nitrite, Nitrate, Ortho-P)
Effluent Weekly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN)
Effluent Monthly/Weekly Sample Grab (E. coli, pH, temp, TRC)
Biosolids Liquid/Dewatered Samples (Monthly): TS, TP, TAN, Nitrate, Metals (As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn), E. coli's
Centrate Monthly/Weekly Sample: Grab (TSS, TP, TAN, BOD5)
Annual Acute Toxicity Sample: Grab (Rainbow Trout, Single Concentration)
Leachate: Grab (BOD5, TSS, TP, TKN)

QEMS Ontario Clean Water Agency	2026 Paris WPCP Sample Calendar	Issued: 2025-??-?? Rev.#: 0 Pages: 10 of 12
Reviewed by: Process & Compliance Technician	Approved by: Senior Operations Manager	

October 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 ☐ IH Reduced	2 ☐ IH Reduced	3
4	5 ☐ IH Full	6 ☐ IH Full ☐ MONTHLY Sample	7 ☐ IH Reduced	8 ☐ IH Reduced	9 ☐ IH Reduced	10
11	12 ☐ IH Full **STAT**	13 ☐ IH Full ☐ **WEEKLY Sample**	14 ☐ IH Reduced	15 ☐ IH Reduced	16 ☐ IH Reduced	17
18	19 ☐ IH Full	20 ☐ IH Full ☐ BIWEEKLY Sample	21 ☐ IH Reduced	22 ☐ IH Reduced	23 ☐ IH Reduced	24
25	26 ☐ IH Full	27 ☐ IH Full ☐ **WEEKLY Sample**	28 ☐ IH Reduced	29 ☐ IH Reduced	30 ☐ IH Reduced	31

IH (In House) Full: Grab Raw (pH, Temp)
Grab Effluent (pH, Temp, DO, TRC)
Composite Effluent (TSS, TP, TAN)
Grab Clarifier (Blanket depths, TSS)
Grab Aeration A&B (Set Test, MLSS, DO, Temp)
Grab RAS/WAS (TSS, Volume Wasted)
Grab Liquid Biosolids (%TS)
Grab Dewatered Biosolids (%TS)
Grab Centrate (%TS)

IH (In House) Reduced: Grab Effluent (pH, Temp, DO, TRC)
Grab Aeration (Set Test, DO, Temp.)
Grab RAS/WAS (TSS, Volume Wasted)

Raw Monthly/Weekly Sample: 24 hr Composite (BOD5, TSS, TP, TKN)
Effluent Monthly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN, Nitrite, Nitrate, Ortho-P)
Effluent Weekly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN)
Effluent Monthly/Weekly Sample Grab (E. coli, pH, temp, TRC)
Biosolids Liquid/Dewatered Samples (Monthly): TS, TP, TAN, Nitrate, Metals (As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn), E. coli's
Centrate Monthly/Weekly Sample: Grab (TSS, TP, TAN, BOD5)
Annual Acute Toxicity Sample: Grab (Rainbow Trout, Single Concentration)
Leachate: Grab (BOD5, TSS, TP, TKN)

QEMS Ontario Clean Water Agency	2026 Paris WPCP Sample Calendar	Issued: 2025-??-?? Rev.#: 0 Pages: 11 of 12
Reviewed by: Process & Compliance Technician	Approved by: Senior Operations Manager	

November 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2 ☐ IH Full	3 ☐ IH Full ☐ MONTHLY Sample	4 ☐ IH Reduced	5 ☐ IH Reduced	6 ☐ IH Reduced	7
8	9 ☐ IH Full	10 ☐ IH Full ☐ WEEKLY Sample	11 ☐ IH Reduced STAT	12 ☐ IH Reduced	13 ☐ IH Reduced	14
15	16 ☐ IH Full	17 ☐ IH Full ☐ WEEKLY Sample	18 ☐ IH Reduced	19 ☐ IH Reduced	20 ☐ IH Reduced	21
22	23 ☐ IH Full	24 ☐ IH Full ☐ WEEKLY Sample	25 ☐ IH Reduced	26 ☐ IH Reduced	27 ☐ IH Reduced	28
29	30 ☐ IH Full					

IH (In House) Full:
Grab Raw (pH, Temp)
Grab Effluent (pH, Temp, DO, TRC)
Composite Effluent (TSS, TP, TAN)
Grab Clarifier (Blanket depths, TSS)
Grab Aeration A&B (Set Test, MLSS, DO, Temp)
Grab RAS/WAS (TSS, Volume Wasted)
Grab Liquid Biosolids (%TS)
Grab Dewatered Biosolids (%TS)
Grab Centrate (%TS)

IH (In House) Reduced:
Grab Effluent (pH, Temp, DO, TRC)
Grab Aeration (Set Test, DO, Temp.)
Grab RAS/WAS (TSS, Volume Wasted)

Raw Monthly/Weekly Sample: 24 hr Composite (BOD5, TSS, TP, TKN)
Effluent Monthly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN, Nitrite, Nitrate, Ortho-P)
Effluent Weekly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN)
Effluent Monthly/Weekly Sample Grab (E. coli, pH, temp, TRC)
Biosolids Liquid/Dewatered Samples (Monthly): TS, TP, TAN, Nitrate, Metals (As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn), E. coli's
Centrate Monthly/Weekly Sample: Grab (TSS, TP, TAN, BOD5)
Annual Acute Toxicity Sample: Grab (Rainbow Trout, Single Concentration)
Leachate: Grab (BOD5, TSS, TP, TKN)

QEMS Ontario Clean Water Agency	2026 Paris WPCP Sample Calendar	Issued: 2025-??-?? Rev.#: 0 Pages: 12 of 12
Reviewed by: Process & Compliance Technician	Approved by: Senior Operations Manager	

December 2026

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 ☐ IH Full ☐ MONTHLY Sample	2 ☐ IH Reduced	3 ☐ IH Reduced	4 ☐ IH Reduced	5
6	7 ☐ IH Full	8 ☐ IH Full ☐ **WEEKLY Sample**	9 ☐ IH Reduced	10 ☐ IH Reduced	11 ☐ IH Reduced	12
13	14 ☐ IH Full	15 ☐ IH Full ☐ **WEEKLY Sample**	16 ☐ IH Reduced	17 ☐ IH Reduced	18 ☐ IH Reduced	19
20	21 ☐ IH Full	22 ☐ IH Full ☐ **WEEKLY Sample**	23 ☐ IH Reduced	24 ☐ IH Reduced	25 **STAT** ☐ IH Reduced	26
27	28 ☐ IH Full **STAT**	29 ☐ IH Full ☐ **WEEKLY Sample**	30 ☐ IH Reduced	31 ☐ IH Reduced		

IH (In House) Full: Grab Raw (pH, Temp)
Grab Effluent (pH, Temp, DO, TRC)
Composite Effluent (TSS, TP, TAN)
Grab Clarifier (Blanket depths, TSS)
Grab Aeration A&B (Set Test, MLSS, DO, Temp)
Grab RAS/WAS (TSS, Volume Wasted)
Grab Liquid Biosolids (%TS)
Grab Dewatered Biosolids (%TS)
Grab Centrate (%TS)

IH (In House) Reduced: Grab Effluent (pH, Temp, DO, TRC)
Grab Aeration (Set Test, DO, Temp.)
Grab RAS/WAS (TSS, Volume Wasted)

Raw Monthly/Weekly Sample: 24 hr Composite (BOD5, TSS, TP, TKN)
Effluent Monthly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN, Nitrite, Nitrate, Ortho-P)
Effluent Weekly Samples: 24 hr Composite (cBOD5, TSS, TP, TAN, TKN)
Effluent Monthly/Weekly Sample Grab (E. coli, pH, temp, TRC)
Biosolids Liquid/Dewatered Samples (Monthly): TS, TP, TAN, Nitrate, Metals (As, Cd, Co, Cr, Cu, Hg, K, Mo, Ni, Pb, Se, Zn), E. coli's
Centrate Monthly/Weekly Sample: Grab (TSS, TP, TAN, BOD5)
Annual Acute Toxicity Sample: Grab (Rainbow Trout, Single Concentration)
Leachate: Grab (BOD5, TSS, TP, TKN)