



February 22, 2024

Municipality of West Grey
402813 Grey Rd 4
RR#2
Durham, ON
N0G 1R0

Attention: Geoff Aitken, Manager of Public Works

**RE: Durham Wastewater System
2023 Annual Report**

The 2023 Annual Operations Report for the Durham Wastewater Treatment Facility is enclosed. The report is prepared in accordance with Certificate of Approval Sewage Number 9287-6GTGYS annual report criteria and contains the following required components:

- A summary and interpretation of all monitoring data and a comparison to C of A effluent limits, including an overview of the success and adequacy of the works;
- A description of any operating problems encountered and corrective actions taken;
- A summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming a part of the works;
- A summary of any effluent quality assurance or control measures undertaken in the reporting period;
- A summary of the calibration and maintenance carried out on all effluent monitoring equipment;
- A description of efforts made and results achieved in meeting the effluent objectives;
- A tabulation of the volume of sludge generated in the reporting period, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed;
- A summary of any complaints received during the reporting period and any steps taken to address the complaints; and
- A summary of all bypass, overflow, spill or abnormal discharge events.

On behalf of the municipality, a copy of this report is being sent to the MECP – Owen Sound District Office. If you have any questions, please direct your comments or concerns to the undersigned.

Sincerely,

Scott Gowan
Project Manager
Veolia Water Canada Inc.



1. Summary and Interpretation of Monitoring Data

The 2023 annual average daily flow was 0.713 MLD (713 m³/d) and represents approximately 33% of the design capacity for the treatment facility (2,184 m³/day or 2.184 ML/d). This is an increase of 1% from the 2022 flow rate (0.706 MLD). It is very close to the five year historical daily average (699 m³/d). The maximum daily flow was recorded as 1.444 ML, which occurred on April 5. The high flows were due to precipitation and snowmelt from mild temperatures.

The monthly monitoring data and analytical data are summarized in the monthly wastewater reports (R forms) for January to December 2023 (attached). The 2023 Annual Compliance Summary is also attached.

A table showing the effluent parameter limits in comparison with plant concentrations is as follows:

Effluent Parameter	Annual Average Concentration mg/L	Concentration Limit mg/L	Annual Average Loading kg/d	Loading Limit kg/d
CBOD ₅	2.6	25	3.0	54.6
Suspended Solids	5.2	25	5.4	54.6
Total Ammonia Nitrogen				
Jan 1-May 14	1.45	10	0.88	21.8
May 15-Oct 15	0.21	8	0.14	17.5
Oct 16-Dec 31	0.08	10	0.04	21.8
Total Phosphorus	0.27	1.0	0.19	2.2
Total Chlorine Residual*	0.00	0.20	n/a	-

* no longer disinfecting with chlorine. UV system installed in 2018

2. Monitoring Schedule

In 2023 every effort was made to collect monthly raw samples on the first Tuesday of each month. Samples in 2024 will be collected on the first Wednesday of each month.

3. Operational Problems

The South aerator failed in December 2022. The Gearbox and motor were replaced in January 2023. This caused elevated ammonia levels for January, which led to the effluent objective of 6 mg/l to be exceeded (however all effluent limits were met).

4. Maintenance Summary

- Effluent Flow meter calibrations were conducted in Q1

- A new gearbox and motor assembly were installed for the South Aeration Mixer
- Replaced Return Activated Sludge pump and some related valving.
- Replaced Scum pump
- The UV Bank A LED indicator board was replaced
- Timers were installed on the Return/Waste Pumps

5. Effluent Quality Assurance/Quality Control

The effluent sample is a 24-hour composite sample taken by an autosampler.

On a monthly basis, influent (raw) samples were sent to SGS Laboratories (SGS) for total suspended solids (TSS), biochemical oxygen demand (BOD₅), TKN and total phosphorus (TP).

On a monthly basis (minimum) effluent samples were sent to SGS for BOD, TSS, TP, total ammonia, nitrite, nitrate and E. coli. The operator also conducts in-house DO, pH and temperature analysis and records the results on the facility's operations sheet.

Veolia also requires some VSS and COD sampling on raw and final samples

6. Calibration/Maintenance Procedures

In order to ensure proper plant operation and avoid possible environmental problems, the alarm dial-out system is tested regularly.

All probes and sensors used in the process are cleaned, maintained and/or calibrated on an as-required basis.

SGS Laboratories is used for the required analytical chemical and biological testing of influent (raw) and effluent from the wastewater treatment facility.

7. Effluent Objectives

The annual compliance table can be found on page 4 of this document and includes comparisons to Objective concentrations identified in the ECA.

The effluent Ammonia objective of 6.0 mg/l was exceeded in January (7.0 mg/l). This was due to the South Aerator Gearbox failure that occurred in December 2022. The gearbox was replaced in January 2023, and no further objective exceedances occurred.

All other monthly averages were well within the objective limits.

The effluent pH was maintained between 6.5 and 9.0 at all times.

8. Sludge Management

Waste activated sludge is pumped to either of two on-site aerobic holding tanks. The sludge is thickened on-site and hauled directly to Lystek by a licensed hauler.

The total volume of sludge transferred from the WWTP in 2023 was approximately 3,685m³ which is a significant increase compared to 2022 . Typically anywhere from 160m³ to 250m³ is removed each month. However, in preparation for stress testing an effort was made to reduce solids which resulted in increased sludge wasting and sludge haulage. It is expected that the 2024 amount may be lower due to a return to normal sludge wasting levels.

Sludge sampling and analysis is conducted by the hauler.

9. Complaints Summary

No complaints were received.

10. Summary of By-pass, Spill or Abnormal Events

There were no bypasses in 2023

11. Modifications to Sewage Works

There were no significant modifications to the Sewage Works

12. System Conformance to Procedure F-5-1

System complied with all system criteria in 2023.

No other system changes were implemented after the new ECA was made effective in June 2018

13. Updates to Proposed Works

There were no significant updates to the proposed works

Fields marked with an asterisk (*) are mandatory.

Project Name
Durham WWTP

Facility Address

Unit Number	Street Number 455	Street Name Saddler St W	PO Box
Municipality/City/Town Durham (Municipality of West Grey)		Province ON - Ontario	Postal Code

Operating Authority
Veolia Water Canada Inc.

Mailing Address

Unit Number 1450	Street Number 555	Street Name Rene-Levesque Blvd West	PO Box
Municipality/City/Town Montreal		Province QC - Quebec	Postal Code H2Z 1B1

File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 0 9 9 9	Month 0 1 2	Year 0 2 3	3 1	2	R
1 2	3 11	16	19	20 21	22	80

C.P.	0 1				
12 13	Flows				
	Total Flow	(10 ³ m ³)	Parameter Code 50010	Dec. 3	Monthly Results 22.266
	Average Daily Flow	(10 ³ m ³ /d)	50015	3	0.718
	Maximum Daily Flow	(10 ³ m ³ /d)	50020	3	0.899
			30 34	35	38
12 13	Bypass				# of Occurrences
	Plant Bypass Volume	(10 ³ m ³)	50026	3	0
	Duration	(hours)	80563	1	
	Secondary Bypass Volume	(10 ³ m ³)	50040	3	
	Duration	(hours)	80565	1	
			30 34	35	38
12 13	Raw Sewage				# of Samples
	BOD ₅	(mg/L)	00001	0	337
	Suspended Solids	(mg/L)	00006	0	163
	TKN	(mg/L)	00020	2	37.00
	Total Phosphorus	(mg/L)	00033	1	5.6
			30 34	35	38
12 13	Final Effluent				
	BOD ₅	(mg/L)	00001	1	
	CBOD ₅	(mg/L)	00002	1	3.0
	Suspended Solids	(mg/L)	00006	1	3.0
	Ammonia + Ammonium	(mg/L)	00019	2	7.00
	TKN	(mg/L)	00020	2	
	Total Phosphorus	(mg/L)	00033	2	0.10
			30 34	35	38
12 13	Disinfection				
	Chlorine Used	(kg as Cl ₂)	50100	1	
	Chlorine Dosage	(mg/L as Cl ₂)	80410	1	
	Chlorine Residual	(mg/L as Cl ₂)	80420	1	
			30 34	35	38

Operator Telephone Number
519-369-6655

Operator Email Address *
fei.xue@veolia.com

Comments

Return completed form to:

- Environmental Monitoring and Reporting Branch, MECP, at WasteWaterReporting@ontario.ca And
- Your Environmental Officer at your local District/Area MECP Office.

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matthew.shannon@ontario.ca

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4 6	1 1 0 0 0 0 9 9 9	Month 0 2	Year 2 0 2 3	2 8	2	R
1 2	3 11	16	19	20 21	22	80

C.P.
0 1
12 13

Flows

Total Flow (10³ m³)
Average Daily Flow (10³ m³/d)
Maximum Daily Flow (10³ m³/d)

Parameter Code	Dec.	Monthly Results
50010	3	19.793
50015	3	0.707
50020	3	0.918

2 6
12 13

Bypass

Plant Bypass Volume (10³ m³)
Duration (hours)
Secondary Bypass Volume (10³ m³)
Duration (hours)

Parameter Code	Dec.	Monthly Results
50026	3	
80563	1	
50040	3	
80565	1	

of Occurrences
0

0 3
12 13

Raw Sewage

BOD₅ (mg/L)
Suspended Solids (mg/L)
TKN (mg/L)
Total Phosphorus (mg/L)

Parameter Code	Dec.	Monthly Results
00001	0	494
00006	0	323
00020	2	43.80
00033	1	5.4

of Samples
1
1
1
1

0 4
12 13

Final Effluent

BOD₅ (mg/L)
CBOD₅ (mg/L)
Suspended Solids (mg/L)
Ammonia + Ammonium (mg/L)
TKN (mg/L)
Total Phosphorus (mg/L)

Parameter Code	Dec.	Monthly Results
00001	1	
00002	1	1.0
00006	1	6.0
00019	2	0.10
00020	2	
00033	2	0.11

1
1
1
1

0 7
12 13

Disinfection

Chlorine Used (kg as Cl₂)
Chlorine Dosage (mg/L as Cl₂)
Chlorine Residual (mg/L as Cl₂)

Parameter Code	Dec.	Monthly Results
50100	1	
80410	1	
80420	1	

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4 6	1 1 0 0 0 0 9 9 9	Month 0 3	Year 2 0 2 3	3 1	2	R
1 2	3 11	16	19	20 21	22	80

C.P.

0 1

Flows

Parameter Code	Dec.	Monthly Results
Total Flow (10 ³ m ³)	50010	3 22.866
Average Daily Flow (10 ³ m ³ /d)	50015	3 0.734
Maximum Daily Flow (10 ³ m ³ /d)	50020	3 1.032

2 6

Bypass

Parameter Code	Dec.	Monthly Results	# of Occurrences
Plant Bypass Volume (10 ³ m ³)	50026	3	0
Duration (hours)	80563	1	
Secondary Bypass Volume (10 ³ m ³)	50040	3	
Duration (hours)	80565	1	

0 3

Raw Sewage

Parameter Code	Dec.	Monthly Results	# of Samples
BOD ₅ (mg/L)	00001	0 248	1
Suspended Solids (mg/L)	00006	0 200	1
TKN (mg/L)	00020	2 38.90	1
Total Phosphorus (mg/L)	00033	1 5.1	1

0 4

Final Effluent

Parameter Code	Dec.	Monthly Results	# of Samples
BOD ₅ (mg/L)	00001	1	
CBOD ₅ (mg/L)	00002	1 1.0	1
Suspended Solids (mg/L)	00006	1 3.0	1
Ammonia + Ammonium (mg/L)	00019	2 0.05	1
TKN (mg/L)	00020	2	
Total Phosphorus (mg/L)	00033	2 0.18	1

0 7

Disinfection

Parameter Code	Dec.	Monthly Results
Chlorine Used (kg as Cl ₂)	50100	1
Chlorine Dosage (mg/L as Cl ₂)	80410	1
Chlorine Residual (mg/L as Cl ₂)	80420	1

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 0 9 9 9	Month	Year	3 1	2	R
1 2	3 11	0 3	2 0 2 3	20 21	22	80

C.P.	0 3	Raw Sewage	Parameter Code	Dec	Monthly Average Results	# of Samples
12 13		Total COD (mg/L)			550.00	1
		Volatile Suspended Solids (mg/L)			187.00	1

0 4	Final Effluent	Parameter Code	Dec	Monthly Average Results	# of Samples
12 13	Alkalinity, Total (mg/L)	00051	4		
	Conductivity 25°C (µS/cm)	91004	4		
	E. Coli (CT/100ml)	91000	4	1.0000	1
	Nitrate, Unfiltered reactive (mg/L)	00022	4		
	Nitrite, Unfiltered reactive (mg/L)	00021	4		
	pH	80770	4	7.1700	5
	Temperature, Water (°C)	80250	4	5.4000	5
	Un-ionized Ammonia (mg/L)	91012	4	0.0003	1
	Dissolved Oxygen (mg/L)	00003	4		
	Hydrogen Sulphide (mg/L)	83008	4		
	Total COD (mg/L)			28.0000	1

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Comments
E. coli is a geomean

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 0 9 9 9	Month 0 4	Year 2 0 2 3	3 0	2	R
1 2	3 11	16	19	20 21	22	80

C.P.	0 1					
12 13	Flows		Parameter Code	Dec.	Monthly Results	
	Total Flow	(10 ³ m ³)	50010	3	32.705	
	Average Daily Flow	(10 ³ m ³ /d)	50015	3	1.090	
	Maximum Daily Flow	(10 ³ m ³ /d)	50020	3	1.444	
			30 34	35	38	
2 6	Bypass					# of Occurrences
12 13	Plant Bypass Volume	(10 ³ m ³)	50026	3		0
	Duration	(hours)	80563	1		
	Secondary Bypass Volume	(10 ³ m ³)	50040	3		
	Duration	(hours)	80565	1		
			30 34	35	38	
0 3	Raw Sewage					# of Samples
12 13	BOD ₅	(mg/L)	00001	0	157	1
	Suspended Solids	(mg/L)	00006	0	146	1
	TKN	(mg/L)	00020	2	27.40	1
	Total Phosphorus	(mg/L)	00033	1	3.5	1
			30 34	35	38	
0 4	Final Effluent					
12 13	BOD ₅	(mg/L)	00001	1		
	CBOD ₅	(mg/L)	00002	1	1.0	1
	Suspended Solids	(mg/L)	00006	1	7.0	1
	Ammonia + Ammonium	(mg/L)	00019	2	0.05	1
	TKN	(mg/L)	00020	2		
	Total Phosphorus	(mg/L)	00033	2	0.22	1
			30 34	35	38	
0 7	Disinfection					
12 13	Chlorine Used	(kg as Cl ₂)	50100	1		
	Chlorine Dosage	(mg/L as Cl ₂)	80410	1		
	Chlorine Residual	(mg/L as Cl ₂)	80420	1		
			30 34	35	38	

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Montreal	QC - Quebec	H2Z 1B1

File No.	Works Number *									Data Period *			Days	Discharge Type	Update Code																								
	Month	Year		0	4	2	0	2	3	3	0																												
1	2	3	4									5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
4	6	1	1	0	0	0	0	9	9	9	0	4	2	0	2	3	3	0	2	R																			

C.P.		
0	3	Raw Sewage
12	13	Parameter Code
		Dec
		Monthly Average Results
		# of Samples
		Total COD (mg/L)
		300.00
		1
		Volatile Suspended Solids (mg/L)
		137.00
		1

0	4	Final Effluent
12	13	Parameter Code
		Dec
		Monthly Average Results
		# of Samples
		Alkalinity, Total (mg/L)
		00051
		4
		Conductivity 25°C (µS/cm)
		91004
		4
		E. Coli (CT/100ml)
		91000
		4
		1.0000
		1
		Nitrate, Unfiltered reactive (mg/L)
		00022
		4
		Nitrite, Unfiltered reactive (mg/L)
		00021
		4
		pH
		80770
		4
		7.1000
		6
		Temperature, Water (°C)
		80250
		4
		9.1000
		6
		Un-ionized Ammonia (mg/L)
		91012
		4
		0.0002
		1
		Dissolved Oxygen (mg/L)
		00003
		4
		Hydrogen Sulphide (mg/L)
		83008
		4
		12.0000
		1

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 0 9 9 9	Month 0 5	Year 2 0 2 3	3 1	2	R
1 2	3 11	16	19	20 21	22	80

C.P.						
0 1	Flows		Parameter Code	Dec.	Monthly Results	
12 13	Total Flow	(10 ³ m ³)	50010	3	25.503	
	Average Daily Flow	(10 ³ m ³ /d)	50015	3	0.823	
	Maximum Daily Flow	(10 ³ m ³ /d)	50020	3	1.067	
			30 34	35	38	
2 6	Bypass					# of Occurrences
12 13	Plant Bypass Volume	(10 ³ m ³)	50026	3		0
	Duration	(hours)	80563	1		
	Secondary Bypass Volume	(10 ³ m ³)	50040	3		
	Duration	(hours)	80565	1		
			30 34	35	38	
0 3	Raw Sewage					# of Samples
12 13	BOD ₅	(mg/L)	00001	0	144	1
	Suspended Solids	(mg/L)	00006	0	123	1
	TKN	(mg/L)	00020	2	27.10	1
	Total Phosphorus	(mg/L)	00033	1	3.4	1
			30 34	35	38	
0 4	Final Effluent					
12 13	BOD ₅	(mg/L)	00001	1		
	CBOD ₅	(mg/L)	00002	1	1.0	1
	Suspended Solids	(mg/L)	00006	1	3.0	1
	Ammonia + Ammonium	(mg/L)	00019	2	0.05	1
	TKN	(mg/L)	00020	2		
	Total Phosphorus	(mg/L)	00033	2	0.29	1
			30 34	35	38	
0 7	Disinfection					
12 13	Chlorine Used	(kg as Cl ₂)	50100	1		
	Chlorine Dosage	(mg/L as Cl ₂)	80410	1		
	Chlorine Residual	(mg/L as Cl ₂)	80420	1		
			30 34	35	38	

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 0 9 9 9	Month	Year	3 1	2	R
1 2	3 11	0 5	2 0 2 3	20 21	22	80

C.P.					
0 3	Raw Sewage	Parameter Code	Dec	Monthly Average Results	# of Samples
12 13	Total COD (mg/L)			325.00	1
	Volatile Suspended Solids (mg/L)			123.00	1

0 4	Final Effluent	Parameter Code	Dec	Monthly Average Results	# of Samples
12 13	Alkalinity, Total (mg/L)	00051	4		
	Conductivity 25°C (µS/cm)	91004	4		
	E. Coli (CT/100ml)	91000	4	1.0000	1
	Nitrate, Unfiltered reactive (mg/L)	00022	4		
	Nitrite, Unfiltered reactive (mg/L)	00021	4		
	pH	80770	4	7.1200	5
	Temperature, Water (°C)	80250	4	12.3000	5
	Un-ionized Ammonia (mg/L)	91012	4	0.0002	1
	Dissolved Oxygen (mg/L)	00003	4		
	Hydrogen Sulphide (mg/L)	83008	4		
	Total COD (mg/L)			14.0000	1

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Project Name
Durham WWTP

Facility Address

Unit Number	Street Number 455	Street Name Saddler St W	PO Box
Municipality/City/Town Durham (Municipality of West Grey)		Province ON - Ontario	Postal Code
Operating Authority Veolia Water Canada Inc.			

Mailing Address

Unit Number 1450	Street Number 555	Street Name Rene-Levesque Blvd West	PO Box
Municipality/City/Town Montreal		Province QC - Quebec	Postal Code H2Z 1B1

File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 0 9 9 9	Month 0 6	Year 2 0 2 3	3 0	2	R
1 2	3 11	16	19	20 21	22	80

C.P.
0 1
12 13

Flows

Total Flow (10³ m³)
Average Daily Flow (10³ m³/d)
Maximum Daily Flow (10³ m³/d)

Parameter Code	Dec.	Monthly Results
50010	3	20.089
50015	3	0.670
50020	3	0.738

2 6
12 13

Bypass

Plant Bypass Volume (10³ m³)
Duration (hours)
Secondary Bypass Volume (10³ m³)
Duration (hours)

Parameter Code	Dec.	Monthly Results
50026	3	
80563	1	
50040	3	
80565	1	

of Occurrences
0

0 3
12 13

Raw Sewage

BOD₅ (mg/L)
Suspended Solids (mg/L)
TKN (mg/L)
Total Phosphorus (mg/L)

Parameter Code	Dec.	Monthly Results
00001	0	255
00006	0	214
00020	2	44.70
00033	1	6.0

of Samples
1
1
1
1

0 4
12 13

Final Effluent

BOD₅ (mg/L)
CBOD₅ (mg/L)
Suspended Solids (mg/L)
Ammonia + Ammonium (mg/L)
TKN (mg/L)
Total Phosphorus (mg/L)

Parameter Code	Dec.	Monthly Results
00001	1	
00002	1	1.0
00006	1	4.0
00019	2	0.05
00020	2	
00033	2	0.44

1
1
1
1

0 7
12 13

Disinfection

Chlorine Used (kg as Cl₂)
Chlorine Dosage (mg/L as Cl₂)
Chlorine Residual (mg/L as Cl₂)

Parameter Code	Dec.	Monthly Results
50100	1	
80410	1	
80420	1	

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1450 | 555 | Rene-Levesque Blvd West |

Municipality/City/Town | Province | Postal Code
Montreal | QC - Quebec | H2Z 1B1

File No.	Works Number *							Data Period *			Days	Discharge Type	Update Code						
4 6	1	1	0	0	0	0	9	9	9	0	6	2	0	2	3	3	0	2	R
1 2	3								11	16					19	20	21	22	80

C.P.	Raw Sewage		Parameter Code	Dec	Monthly Average Results	# of Samples
0 3	Total COD (mg/L)				330.00	1
12 13	Volatile Suspended Solids (mg/L)				196.00	1

0 4	Final Effluent		Parameter Code	Dec	Monthly Average Results	# of Samples
12 13	Alkalinity, Total	(mg/L)	00051	4		
	Conductivity 25°C	(µS/cm)	91004	4		
	E. Coli	(CT/100ml)	91000	4	1.0000	1
	Nitrate, Unfiltered reactive	(mg/L)	00022	4		
	Nitrite, Unfiltered reactive	(mg/L)	00021	4		
	pH		80770	4	7.1700	4
	Temperature, Water	(°C)	80250	4	16.5000	4
	Un-ionized Ammonia	(mg/L)	91012	4	0.0002	1
	Dissolved Oxygen	(mg/L)	00003	4		
	Hydrogen Sulphide	(mg/L)	83008	4		
	Total COD (mg/L)				4.0000	1

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 0 9 9 9	Month 0 7	Year 2 0 2 3	3 1	2	R
1 2	3 11	16	19	20 21	22	80

C.P.						
0 1	Flows	Parameter Code	Dec.	Monthly Results		
12 13	Total Flow (10 ³ m ³)	50010	3	21.420		
	Average Daily Flow (10 ³ m ³ /d)	50015	3	0.691		
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	1.252		
		30 34	35	38		
2 6	Bypass	Parameter Code	Dec.	# of Occurrences		
12 13	Plant Bypass Volume (10 ³ m ³)	50026	3	0		
	Duration (hours)	80563	1			
	Secondary Bypass Volume (10 ³ m ³)	50040	3			
	Duration (hours)	80565	1			
		30 34	35	38		
0 3	Raw Sewage	Parameter Code	Dec.	# of Samples		
12 13	BOD ₅ (mg/L)	00001	0	232		
	Suspended Solids (mg/L)	00006	0	174		
	TKN (mg/L)	00020	2	39.00		
	Total Phosphorus (mg/L)	00033	1	5.1		
		30 34	35	38		
0 4	Final Effluent	Parameter Code	Dec.	# of Samples		
12 13	BOD ₅ (mg/L)	00001	1			
	CBOD ₅ (mg/L)	00002	1	4.0		
	Suspended Solids (mg/L)	00006	1	2.0		
	Ammonia + Ammonium (mg/L)	00019	2	0.80		
	TKN (mg/L)	00020	2			
	Total Phosphorus (mg/L)	00033	2	0.59		
		30 34	35	38		
0 7	Disinfection	Parameter Code	Dec.	# of Occurrences		
12 13	Chlorine Used (kg as Cl ₂)	50100	1			
	Chlorine Dosage (mg/L as Cl ₂)	80410	1			
	Chlorine Residual (mg/L as Cl ₂)	80420	1			
		30 34	35	38		

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------------------------------------	-------------------------	------------------------

File No.	Works Number *	Data Period *	Days	Discharge Type	Update Code
4 6 1 2	1 1 0 0 0 0 9 9 9 3 11	0 7 2 0 2 3 16 19	3 1 20 21	2 22	R 80

C.P.	0 3 12 13	Raw Sewage	Parameter Code	Dec	Monthly Average Results	# of Samples
		Total COD (mg/L)			430.00	1
		Volatile Suspended Solids (mg/L)			162.00	1

0 4 12 13	Final Effluent	Parameter Code	Dec	Monthly Average Results	# of Samples
	Alkalinity, Total (mg/L)	00051	4		
	Conductivity 25°C (µS/cm)	91004	4		
	E. Coli (CT/100ml)	91000	4	20.0000	1
	Nitrate, Unfiltered reactive (mg/L)	00022	4		
	Nitrite, Unfiltered reactive (mg/L)	00021	4		
	pH	80770	4	7.1900	8
	Temperature, Water (°C)	80250	4	18.8000	8
	Un-ionized Ammonia (mg/L)	91012	4	0.0030	1
	Dissolved Oxygen (mg/L)	00003	4		
	Hydrogen Sulphide (mg/L)	83008	4		
	Total COD (mg/L)			15.0000	1

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 0 9 9 9	Month 0 8	Year 2 0 2 3	3 1	2	R
1 2	3 11	16	19	20 21	22	80

C.P.	0 1			Parameter Code	Dec.	Monthly Results	
12 13	Flows						
	Total Flow	(10 ³ m ³)	50010	3	20.721		
	Average Daily Flow	(10 ³ m ³ /d)	50015	3	0.668		
	Maximum Daily Flow	(10 ³ m ³ /d)	50020	3	0.776		
			30 34	35	38		
2 6	Bypass						# of Occurrences
12 13	Plant Bypass Volume	(10 ³ m ³)	50026	3			0
	Duration	(hours)	80563	1			
	Secondary Bypass Volume	(10 ³ m ³)	50040	3			
	Duration	(hours)	80565	1			
			30 34	35	38		
0 3	Raw Sewage						# of Samples
12 13	BOD ₅	(mg/L)	00001	0	317		1
	Suspended Solids	(mg/L)	00006	0	324		1
	TKN	(mg/L)	00020	2	35.30		1
	Total Phosphorus	(mg/L)	00033	1	4.9		1
			30 34	35	38		
0 4	Final Effluent						
12 13	BOD ₅	(mg/L)	00001	1			
	CBOD ₅	(mg/L)	00002	1	1.0		1
	Suspended Solids	(mg/L)	00006	1	8.0		1
	Ammonia + Ammonium	(mg/L)	00019	2	0.05		1
	TKN	(mg/L)	00020	2			
	Total Phosphorus	(mg/L)	00033	2	0.35		1
			30 34	35	38		
0 7	Disinfection						
12 13	Chlorine Used	(kg as Cl ₂)	50100	1			
	Chlorine Dosage	(mg/L as Cl ₂)	80410	1			
	Chlorine Residual	(mg/L as Cl ₂)	80420	1			
			30 34	35	38		

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Durham (Municipality of West Grey) | ON - Ontario |

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Montreal | QC - Quebec | H2Z 1B1

File No.	Works Number *								Data Period *			Days		Discharge Type	Update Code				
4 6	1	1	0	0	0	0	9	9	9	0	8	2	0	2	3	3	1	2	R
1 2	3								11	16					19	20	21	22	80

C.P.													
0	3	Raw Sewage	Parameter Code	Dec	Monthly Average Results	# of Samples							
12	13	Total COD (mg/L)			515.00	1							
		Volatile Suspended Solids (mg/L)			292.00	1							

0	4	Final Effluent	Parameter Code	Dec	Monthly Average Results	# of Samples						
12	13	Alkalinity, Total (mg/L)	00051	4								
		Conductivity 25°C (µS/cm)	91004	4								
		E. Coli (CT/100ml)	91000	4	11.0000	1						
		Nitrate, Unfiltered reactive (mg/L)	00022	4								
		Nitrite, Unfiltered reactive (mg/L)	00021	4								
		pH	80770	4	7.0900	5						
		Temperature, Water (°C)	80250	4	19.0000	5						
		Un-ionized Ammonia (mg/L)	91012	4	0.0002	1						
		Dissolved Oxygen (mg/L)	00003	4								
		Hydrogen Sulphide (mg/L)	83008	4								
		Total COD (mg/L)			18.0000	1						

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 0 9 9 9	Month	Year	3 0	2	R
1 2	3 11	0 9	2 0 2 3	16 19	20 21	22 80

C.P.						
0 1	Flows		Parameter Code	Dec.	Monthly Results	
12 13	Total Flow (10 ³ m ³)		50010	3	18,848	
	Average Daily Flow (10 ³ m ³ /d)		50015	3	0.628	
	Maximum Daily Flow (10 ³ m ³ /d)		50020	3	0.822	
			30 34	35 38		
2 6	Bypass					# of Occurrences
12 13	Plant Bypass Volume (10 ³ m ³)		50026	3		0
	Duration (hours)		80563	1		
	Secondary Bypass Volume (10 ³ m ³)		50040	3		
	Duration (hours)		80565	1		
			30 34	35 38		
0 3	Raw Sewage					# of Samples
12 13	BOD ₅ (mg/L)		00001	0	191	1
	Suspended Solids (mg/L)		00006	0	200	1
	TKN (mg/L)		00020	2	35.40	1
	Total Phosphorus (mg/L)		00033	1	3.6	1
			30 34	35 38		
0 4	Final Effluent					
12 13	BOD ₅ (mg/L)		00001	1		
	CBOD ₅ (mg/L)		00002	1	1.0	1
	Suspended Solids (mg/L)		00006	1	5.0	1
	Ammonia + Ammonium (mg/L)		00019	2	0.10	1
	TKN (mg/L)		00020	2		
	Total Phosphorus (mg/L)		00033	2	0.19	1
			30 34	35 38		
0 7	Disinfection					
12 13	Chlorine Used (kg as Cl ₂)		50100	1		
	Chlorine Dosage (mg/L as Cl ₂)		80410	1		
	Chlorine Residual (mg/L as Cl ₂)		80420	1		
			30 34	35 38		

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 0 9 9 9	Month	Year	3 1	2	R
1 2	3 11	1 0	2 0 2 3	20 21	22	80

C.P.		0 1		Flows		Parameter Code	Dec.	Monthly Results
12	13	Total Flow	(10 ³ m ³)	50010	3	19.398		
		Average Daily Flow	(10 ³ m ³ /d)	50015	3	0.626		
		Maximum Daily Flow	(10 ³ m ³ /d)	50020	3	0.765		
				30	34	35	38	
2 6		Bypass				# of Occurrences		
12	13	Plant Bypass Volume	(10 ³ m ³)	50026	3	0		
		Duration	(hours)	80563	1			
		Secondary Bypass Volume	(10 ³ m ³)	50040	3			
		Duration	(hours)	80565	1			
				30	34	35	38	
0 3		Raw Sewage				# of Samples		
12	13	BOD ₅	(mg/L)	00001	0	221		
		Suspended Solids	(mg/L)	00006	0	239		
		TKN	(mg/L)	00020	2	47.20		
		Total Phosphorus	(mg/L)	00033	1	5.5		
				30	34	35	38	
0 4		Final Effluent				# of Samples		
12	13	BOD ₅	(mg/L)	00001	1			
		CBOD ₅	(mg/L)	00002	1	1.0		
		Suspended Solids	(mg/L)	00006	1	5.0		
		Ammonia + Ammonium	(mg/L)	00019	2	0.05		
		TKN	(mg/L)	00020	2			
		Total Phosphorus	(mg/L)	00033	2	0.32		
				30	34	35	38	
0 7		Disinfection				# of Samples		
12	13	Chlorine Used	(kg as Cl ₂)	50100	1			
		Chlorine Dosage	(mg/L as Cl ₂)	80410	1			
		Chlorine Residual	(mg/L as Cl ₂)	80420	1			
				30	34	35	38	

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 0 9 9 9	Month 1 1	Year 2 0 2 3	3 0	2	R
1 2	3 11	16	19	20 21	22	80

C.P.
0 1

Flows	Parameter Code	Dec.	Monthly Results
Total Flow (10 ³ m ³)	50010	3	17.479
Average Daily Flow (10 ³ m ³ /d)	50015	3	0.583
Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.635

Bypass	Parameter Code	Dec.	Monthly Results	# of Occurrences
Plant Bypass Volume (10 ³ m ³)	50026	3		0
Duration (hours)	80563	1		
Secondary Bypass Volume (10 ³ m ³)	50040	3		
Duration (hours)	80565	1		

Raw Sewage	Parameter Code	Dec.	Monthly Results	# of Samples
BOD ₅ (mg/L)	00001	0	234	1
Suspended Solids (mg/L)	00006	0	200	1
TKN (mg/L)	00020	2	46.90	1
Total Phosphorus (mg/L)	00033	1	5.6	1

Final Effluent	Parameter Code	Dec.	Monthly Results	# of Samples
BOD ₅ (mg/L)	00001	1		
CBOD ₅ (mg/L)	00002	1	2.0	1
Suspended Solids (mg/L)	00006	1	4.0	1
Ammonia + Ammonium (mg/L)	00019	2	0.05	1
TKN (mg/L)	00020	2		
Total Phosphorus (mg/L)	00033	2	0.19	1

Disinfection	Parameter Code	Dec.	Monthly Results
Chlorine Used (kg as Cl ₂)	50100	1	
Chlorine Dosage (mg/L as Cl ₂)	80410	1	
Chlorine Residual (mg/L as Cl ₂)	80420	1	

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File No.	Works Number *	Data Period *			Days	Discharge Type	Update Code
		Month	Year				
4 6	1 1 0 0 0 0 9 9 9	1 1	2 0 2 3	3 0	2	R	
1 2	3 11	16	19	20 21	22	80	

C.P.						
0 3	Raw Sewage	Parameter Code	Dec	Monthly Average Results	# of Samples	
12 13	Total COD (mg/L)			530.00	1	
	Volatile Suspended Solids (mg/L)			185.00	1	

0 4	Final Effluent	Parameter Code	Dec	Monthly Average Results	# of Samples	
12 13	Alkalinity, Total (mg/L)	00051	4			
	Conductivity 25°C (µS/cm)	91004	4			
	E. Coli (CT/100ml)	91000	4	0.0000	1	
	Nitrate, Unfiltered reactive (mg/L)	00022	4			
	Nitrite, Unfiltered reactive (mg/L)	00021	4			
	pH	80770	4	7.0900	5	
	Temperature, Water (°C)	80250	4	10.0000	5	
	Un-ionized Ammonia (mg/L)	91012	4	0.0001	1	
	Dissolved Oxygen (mg/L)	00003	4			
	Hydrogen Sulphide (mg/L)	83008	4			
	Total COD (mg/L)			19.0000	1	

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Project Name
Durham WWTP

Facility Address

Unit Number	Street Number 455	Street Name Saddler St W	PO Box
Municipality/City/Town Durham (Municipality of West Grey)		Province ON - Ontario	Postal Code
Operating Authority Veolia Water Canada Inc.			

Mailing Address

Unit Number 1450	Street Number 555	Street Name Rene-Levesque Blvd West	PO Box
Municipality/City/Town Montreal		Province QC - Quebec	Postal Code H2Z 1B1

File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 0 9 9 9	Month	Year	3 1	2	R
1 2	3 11	1 2	2 0 2 3	20 21	22	80

C.P.
0 1

Flows	Parameter Code	Dec.	Monthly Results
Total Flow (10 ³ m ³)	50010	3	18.970
Average Daily Flow (10 ³ m ³ /d)	50015	3	0.612
Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.808

Bypass	Parameter Code	Dec.	Monthly Results	# of Occurrences
Plant Bypass Volume (10 ³ m ³)	50026	3		0
Duration (hours)	80563	1		
Secondary Bypass Volume (10 ³ m ³)	50040	3		
Duration (hours)	80565	1		

Raw Sewage	Parameter Code	Dec.	Monthly Results	# of Samples
BOD ₅ (mg/L)	00001	0	272	1
Suspended Solids (mg/L)	00006	0	227	1
TKN (mg/L)	00020	2	42.70	1
Total Phosphorus (mg/L)	00033	1	5.0	1

Final Effluent	Parameter Code	Dec.	Monthly Results	# of Samples
BOD ₅ (mg/L)	00001	1		
CBOD ₅ (mg/L)	00002	1	4.0	1
Suspended Solids (mg/L)	00006	1	12.0	1
Ammonia + Ammonium (mg/L)	00019	2	0.10	1
TKN (mg/L)	00020	2		
Total Phosphorus (mg/L)	00033	2	0.30	1

Disinfection	Parameter Code	Dec.	Monthly Results	# of Samples
Chlorine Used (kg as Cl ₂)	50100	1		
Chlorine Dosage (mg/L as Cl ₂)	80410	1		
Chlorine Residual (mg/L as Cl ₂)	80420	1		

Operator Telephone Number
519-369-6655

Operator Email Address *
fei.xue@veolia.com

Comments

Return completed form to:

- Environmental Monitoring and Reporting Branch, MECP, at WasteWaterReporting@ontario.ca And
- Your Environmental Officer at your local District/Area MECP Office.

Ministry Contact Email Address *
matthew.shannon@ontario.ca

Durham WWTP 2023 Annual Report

Final Audit Report

2024-02-22

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