



March 28, 2023

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

Attention: Geoff Aitken, Public Works Director

**RE: Durham Wastewater System
2022 Annual Report**

The 2022 Annual Operations Report for the Durham Wastewater Treatment Facility is enclosed. The report is prepared in accordance with Environmental Compliance Approval Number 1610-AUQKU7 (issue date: June 29, 2018) annual report criteria and contains the following required components:

- A summary and interpretation of all influent monitoring data and a review of the historical trend of the sewage characteristics and flow rates;
- A summary and interpretation of all final effluent monitoring data, including concentration, flow rates, loading and a comparison to the design objectives and compliance limits in the ECA, including an overview of the success and adequacy of the works;
- A summary of any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting year;
- A summary of all operating issues encountered and corrective actions taken;
- A summary of all normal and emergency repairs and maintenance activities 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;
- A summary of the calibration and maintenance carried out on all effluent monitoring equipment to ensure that the accuracy is within the tolerance of that equipment as required in the ECA or recommended by the manufacturer;
- A summary of efforts made to achieve the design objectives, including an assessment of the issues and recommendations for pro-active actions, if any are required either when any of the design objectives are not achieved more than 50% of the time in a year, or there is an increasing trend in deterioration of final effluent quality; or when the annual average daily influent flow reaches 80% of the rated capacity;
- A tabulation of the volume of sludge generated, 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 and any steps taken to address the complaints;
- A summary of all bypass, overflows and spills
- A summary of all Notice of Modifications to Sewage Works
- A summary of efforts made to achieve conformance with Procedure F-5-1
- Any changes or updates to the schedule for the completion of construction and commissioning operation of major process(es)/equipment groups (if required)

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,

VEOLIA WATER CANADA INC.

A handwritten signature in black ink, appearing to read 'G Prangley', written over a light blue horizontal line.

Greg Prangley
Project Manager

Veolia North America

555 Rene-Levesque Blvd W Suite 1450
Montreal, QC H2Z 1B1

www.Veolianorthamerica.com

1. Summary and Interpretation of Monitoring Data

The 2022 annual average daily flow was estimated to be 0.706 MLD (706m³/d) and represents approximately 32% of the design capacity for the treatment facility (2,184 m³/day or 2.184 ML/d). This is about a 5% decrease from the 2021 flows (0.745MLD). It is very close to the five year historical daily average (697m³/d). The maximum daily flow was recorded as 2.141 ML, which occurred on March 17. These high flows were due to heavy 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 2022 (attached). The 2022 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	4.1	25	3.0	54.6
Suspended Solids	7.7	25	5.4	54.6
Total Ammonia Nitrogen				
Jan 1-May 14	0.12	10	0.10	21.8
May 15-Oct 15	0.05	8	0.03	17.5
Oct 16-Dec 31	6.73	10	4.11	21.8
Total Phosphorus	0.50	1.0	0.36	2.2
Total Chlorine Residual*	0.00	0.20	n/a	-

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

In December 2022, the effluent ammonia concentration was exceeded due to a failure of one of the aerators. Despite attempts to reintroduce sufficient air in an alternate fashion, the ammonia could not be reduced to levels to meet compliance. This event was reported to the MECP as required.

February E. coli exceeded the regulatory limit due to cold temperatures and because the system was only running on one process train due to maintenance needs

2. Monitoring Schedule

In 2022, every effort was made to collect monthly raw samples on the first Monday of each month, though for logistical, operational reasons or stat holidays, there were four months in which this was not achieved. Samples in 2023 will be collected on the first Tuesday of each month.

3. Operational Problems

One clarifier down for January, much of February, several weeks in Q3 and through parts of Q4 for maintenance (usually clarifier chains) but the system is typically able to process the flows in one train as long as they are not too high

Periodic issues with UV disinfection system. Breaker and sensor line failures in May. Dewar Electric changed breaker

Total phosphorus levels were high for much of July. Some process changes implemented (bringing second clarifier online, increasing alum dosage) to bring TP monthly concentration within limits

South aerator failed in December. Gearbox needs to be rebuilt or replaced. Temporary pump being used to circulate/aerate but it is not adequate and dissolved oxygen levels are much lower than normal. This was the cause of the ammonia non-compliance in December.

4. Maintenance Summary

Sewage pumps removed and cleaned as required

Backflush raw sewage pumps bi-weekly

Regular maintenance on UV system

Installed new lift station sump pump, repaired seized check valve at discharge end

Blower oil changed

New backup effluent flow meter installed

Repaired leaking isolation valve and replaced bar screen in Durham lift station

Replaced chain in sludge holding tank

Changed out wasting valve for sludge tank #1

Replace check valve in north clarifier

Cross collector chains in south clarifier repaired/replaced

Submersible supernatant pump automatic control repaired

Caldecott rebuilt Flygt scraper guide system on north clarifier

The operator(s) performed routine maintenance throughout the year and regular preventative maintenance procedures to all equipment (i.e. monthly cleaning of aeration agitators and monthly generator testing. Regular safety checks were also completed.

Effluent flow meter calibrations conducted in Q1 2022

Bi-annual wet well cleanouts conducted

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 TSS and E.coli objectives were exceeded in February. The single sample TSS result was 19.0mg/L (objective is 15.0mg/L). This was because the system was down to one clarifier for most of the month. This is also the reason for the E. coli exceedance. The UV disinfection system was unable to effectively treat the more turbid water. The ammonia objective (and compliance limit) was exceeded in December as explained in Section 3 above.

Otherwise, the rest of the months 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 2022 was approximately 2198m³ which is almost the same as in 2021. Typically anywhere from 160m³ to 250m³ is removed each month. It is expected that the 2023 amount may be a little higher due to the issue with the aerator in December.

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

No bypasses in 2022

11. Modifications to Sewage Works

New backup effluent flow meter was installed

12. System Conformance to Procedure F-5-1

System complied with all system criteria in 2022.

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

13. Updates to Proposed Works

Backup effluent flow meter installed at effluent outfall pipe to the Saugeen River

Municipality of West Grey
Durham Wastewater Treatment Plant

2022	FLOWS, m ³			BOD/CBOD5			TSS			TOTAL PHOS			TKN	Ammonia			pH		E Coli
	Month	Total Flow	Avg Day, m ³	Max Day, m ³	Raw BOD mg/L	Final CBOD mg/L	CBOD Loading kg/d	Raw TSS mg/L	Final TSS mg/L	TSS Loading kg/d	Raw Total P mg/L	Final Total P mg/L		Total P Loading kg/d	Raw mg/L	Final mg/L May 15-Oct 15	Final mg/L Oct 16-May 14	Final NH3 loading	
1	18,271	589	786	319.0	3.0	1.8	324.0	5.0	2.9	5.68	0.13	0.08	44.1	n/a	0.05	0.03	7.27	7.37	110
2	19,571	699	1,332	179.0	10.0	7.0	229.0	19.0	13.3	3.38	0.42	0.29	28.2	n/a	0.20	0.14	7.21	7.29	4,874
3	32,969	1,064	2,141	272.0	9.0	9.6	272.0	8.0	8.5	4.70	0.76	0.81	44.4	n/a	0.20	0.21	7.36	7.43	170
4	26,724	891	1,110	167.0	1.0	0.9	172.0	4.0	3.6	3.12	0.41	0.37	26.2	n/a	0.10	0.09	6.89	7.59	24
5	20,719	668	800	125.0	1.0	0.7	185.0	6.0	4.0	3.35	0.81	0.54	29.6	n/a	0.05	0.03	7.32	7.38	10
6	22,899	763	997	258.0	1.0	0.8	180.0	5.0	3.8	5.23	0.79	0.60	36.8	0.05	n/a	0.04	7.22	7.35	7
7	21,032	678	771	433.0	4.0	2.7	527.0	5.0	3.4	7.20	0.77	0.52	56.6	0.05	n/a	0.03	6.84	7.49	70
8	21,290	687	931	291.0	1.0	0.7	202.0	8.0	5.5	3.95	0.33	0.23	47.5	0.05	n/a	0.03	7.29	7.45	62
9	18,125	604	787	151.0	2.0	1.2	176.0	2.0	1.2	5.40	0.35	0.21	41.5	0.05	n/a	0.03	7.32	7.43	19
10	18,768	605	700	296.0	1.0	0.6	270.0	10.0	6.1	4.28	0.21	0.13	37.2	0.05	n/a	0.03	7.34	7.53	2
11	18,430	614	790	305.0	3.0	1.8	150.0	6.0	3.7	4.43	0.16	0.10	37.8	n/a	0.05	0.03	7.07	7.54	192
12	18,955	611	909	252.0	12.8	7.8	200.0	14.3	8.7	4.49	0.82	0.50	41.3	n/a	13.40	8.19	7.51	7.72	49
Average	21,479	706		254.0	4.1	3.0	240.6	7.7	5.4	4.60	0.50	0.36		n/a	2.01	0.74			
C of A Limit		2,184			25.0	54.6		25.0	54.6		1.0	2.2		8.0	10.0	17.5	6.0	9.5	
Objective					15.0	32.8		15.0	32.8		1.0	2.2		6.0	6.0	13.1	6.5	9.0	200.0
Compliance		YES			YES	YES		YES	YES		YES	YES		YES	NO	YES	YES		

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 Year: 2 0 2 2	3 1	2	R
1 2	3 11	16 19	20 21	22	80

C.P.
0 1

12	13	Flows	Parameter Code	35	38	Monthly Results
		Total Flow (10 ³ m ³)	50010	3		18.271
		Average Daily Flow (10 ³ m ³ /d)	50015	3		0.589
		Maximum Daily Flow (10 ³ m ³ /d)	50020	3		0.786

12	13	Bypass	30	34	35	38	# 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		0
		Duration (hours)	80565		1		

12	13	Raw Sewage	30	34	35	38	# of Samples
		BOD ₅ (mg/L)	00001		0	319	1
		Suspended Solids (mg/L)	00006		0	324	1
		TKN (mg/L)	00020		2	44.10	1
		Total Phosphorus (mg/L)	00033		1	5.7	1

12	13	Final Effluent	30	34	35	38	# of Samples
		BOD ₅ (mg/L)	00001		1		
		CBOD ₅ (mg/L)	00002		1	3.0	1
		Suspended Solids (mg/L)	00006		1	5.0	1
		Ammonia + Ammonium (mg/L)	00019		2	0.05	1
		TKN (mg/L)	00020		2		
		Total Phosphorus (mg/L)	00033		2	0.13	1

12	13	Disinfection	30	34	35	38	# 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:

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- Your Environmental Officer at your local District/Area MECP Office.

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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 2 Year: 2 0 2 2	2 8	2	R
1 2	3 11	16 19	20 21	22	80

C.P.
0 1

12	13	Flows	Parameter Code	35	38	Monthly Results
		Total Flow (10 ³ m ³)	50010	3		19.571
		Average Daily Flow (10 ³ m ³ /d)	50015	3		0.699
		Maximum Daily Flow (10 ³ m ³ /d)	50020	3		1.332

12	13	Bypass	Parameter Code	35	38	# 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		

12	13	Raw Sewage	Parameter Code	35	38	# of Samples
		BOD ₅ (mg/L)	00001	0	179	1
		Suspended Solids (mg/L)	00006	0	229	1
		TKN (mg/L)	00020	2	28.20	1
		Total Phosphorus (mg/L)	00033	1	3.4	1

12	13	Final Effluent	Parameter Code	35	38	# of Samples
		BOD ₅ (mg/L)	00001	1		
		CBOD ₅ (mg/L)	00002	1	10.0	1
		Suspended Solids (mg/L)	00006	1	19.0	1
		Ammonia + Ammonium (mg/L)	00019	2	0.20	1
		TKN (mg/L)	00020	2		
		Total Phosphorus (mg/L)	00033	2	0.42	1

12	13	Disinfection	Parameter Code	35	38	# 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		

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Durham (Municipality of West Grey)		ON - Ontario	
Operating Authority			
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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	Month Year	2 8	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)			435.00	1
	Volatile Suspended Solids (mg/L)			190.00	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	4874.0000	2
	Nitrate, Unfiltered reactive (mg/L)	00022	4		
	Nitrite, Unfiltered reactive (mg/L)	00021	4		
	pH	80770	4	7.2700	4
	Temperature, Water (°C)	80250	4	3.7000	4
	Un-ionized Ammonia (mg/L)	91012	4	0.0007	1
	Dissolved Oxygen (mg/L)	00003	4		
	Hydrogen Sulphide (mg/L)	83008	4		
	Total COD (mg/L)			30.0000	1

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

C.P.
0 1

12	13	Flows	Parameter Code	35	38	Monthly Results
		Total Flow (10 ³ m ³)	50010	3		32.969
		Average Daily Flow (10 ³ m ³ /d)	50015	3		1.064
		Maximum Daily Flow (10 ³ m ³ /d)	50020	3		2.141

12	13	Bypass	30	34	35	38	# 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		

12	13	Raw Sewage	30	34	35	38	# of Samples
		BOD ₅ (mg/L)	00001		0	272	1
		Suspended Solids (mg/L)	00006		0	272	1
		TKN (mg/L)	00020		2	44.40	1
		Total Phosphorus (mg/L)	00033		1	4.7	1

12	13	Final Effluent	30	34	35	38	# of Samples
		BOD ₅ (mg/L)	00001		1		
		CBOD ₅ (mg/L)	00002		1	9.0	1
		Suspended Solids (mg/L)	00006		1	8.0	1
		Ammonia + Ammonium (mg/L)	00019		2	0.20	1
		TKN (mg/L)	00020		2		
		Total Phosphorus (mg/L)	00033		2	0.76	1

12	13	Disinfection	30	34	35	38	# 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		

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

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0 1

Flows

Total Flow	(10 ³ m ³)
Average Daily Flow	(10 ³ m ³ /d)
Maximum Daily Flow	(10 ³ m ³ /d)

Parameter Code	Dec.	Monthly Results
50010	3	26.724
50015	3	0.891
50020	3	1.110

2 6

Bypass

Plant Bypass Volume	(10 ³ m ³)
Duration	(hours)
Secondary Bypass Volume	(10 ³ m ³)
Duration	(hours)

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

of Occurrences
0

0 3

Raw Sewage

BOD ₅	(mg/L)
Suspended Solids	(mg/L)
TKN	(mg/L)
Total Phosphorus	(mg/L)

Parameter Code	Dec.	Monthly Results
00001	0	167
00006	0	172
00020	2	26.20
00033	1	3.1

of Samples
1 1 1 1

0 4

Final Effluent

BOD ₅	(mg/L)
CBOD ₅	(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	0.10
00020	2	
00033	2	0.41

1 1 1 1

0 7

Disinfection

Chlorine Used	(kg as Cl ₂)
Chlorine Dosage	(mg/L as Cl ₂)
Chlorine Residual	(mg/L as Cl ₂)

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 5 Year: 2 0 2 2	3 1	2	R
1 2	3 11	16 19	20 21	22	80

C.P.
0 1

Parameter Code	Dec.	Monthly Results
50010	3	20.719
50015	3	0.668
50020	3	0.800

Parameter Code	Dec.	Monthly Results	# of Occurrences
50026	3		0
80563	1		
50040	3		
80565	1		

Parameter Code	Dec.	Monthly Results	# of Samples
00001	0	125	1
00006	0	185	1
00020	2	29.60	1
00033	1	3.4	1

Parameter Code	Dec.	Monthly Results	# of Samples
00001	1		
00002	1	1.0	1
00006	1	6.0	1
00019	2	0.05	1
00020	2		
00033	2	0.81	1

Parameter Code	Dec.	Monthly Results	# of Occurrences
50100	1		
80410	1		
80420	1		

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Durham WWTP

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Mailing Address

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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 2	3 0	2	R
1 2	3 11	16 19	20 21	22	80

C.P.
0 1

12	13	Flows	Parameter Code	35	38	Monthly Results
		Total Flow (10 ³ m ³)	50010	3		22.899
		Average Daily Flow (10 ³ m ³ /d)	50015	3		0.763
		Maximum Daily Flow (10 ³ m ³ /d)	50020	3		0.997

12	13	Bypass	Parameter Code	35	38	# 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		

12	13	Raw Sewage	Parameter Code	35	38	# of Samples
		BOD ₅ (mg/L)	00001	0	258	1
		Suspended Solids (mg/L)	00006	0	180	1
		TKN (mg/L)	00020	2	36.80	1
		Total Phosphorus (mg/L)	00033	1	5.2	1

12	13	Final Effluent	Parameter Code	35	38	# of Samples
		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	0.05	1
		TKN (mg/L)	00020	2		
		Total Phosphorus (mg/L)	00033	2	0.79	1

12	13	Disinfection	Parameter Code	35	38	# 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		

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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 2	3 1	2	R
1 2	3 11	16	19	20 21	22	80

C.P.
0 1

Parameter Code	Dec.	Monthly Results
50010	3	21.032
50015	3	0.679
50020	3	0.771

Parameter Code	Dec.	Monthly Results	# of Occurrences
50026	3		0
80563	1		
50040	3		
80565	1		

Parameter Code	Dec.	Monthly Results	# of Samples
00001	0	433	1
00006	0	527	1
00020	2	56.60	1
00033	1	7.2	1

Parameter Code	Dec.	Monthly Results	# of Samples
00001	1		
00002	1	2.0	1
00006	1	5.0	1
00019	2	0.05	1
00020	2		
00033	2	0.77	4

Parameter Code	Dec.	Monthly Results	# of Samples
50100	1		
80410	1		
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: 0 8 Year: 2 0 2 2	3 1	2	R
1 2	3 11	16 19	20 21	22	80

C.P.
0 1

Parameter Code	Dec.	Monthly Results
50010	3	21.290
50015	3	0.687
50020	3	0.931

Parameter Code	Dec.	Monthly Results	# of Occurrences
50026	3		0
80563	1		
50040	3		
80565	1		

Parameter Code	Dec.	Monthly Results	# of Samples
00001	0	291	1
00006	0	202	1
00020	2	47.50	1
00033	1	4.0	1

Parameter Code	Dec.	Monthly Results	# of Samples
00001	1		
00002	1	1.0	1
00006	1	8.0	1
00019	2	0.05	1
00020	2		
00033	2	0.33	1

Parameter Code	Dec.	Monthly Results	# of Samples
50100	1		
80410	1		
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: 0 9 Year: 2 0 2 2	3 0	2	R
1 2	3 11	16 19	20 21	22	80

C.P.
0 1

12	13	Flows	Parameter Code	35	38	Monthly Results
		Total Flow (10 ³ m ³)	50010	3		18.125
		Average Daily Flow (10 ³ m ³ /d)	50015	3		0.604
		Maximum Daily Flow (10 ³ m ³ /d)	50020	3		0.787

12	13	Bypass	Parameter Code	35	38	# 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		

12	13	Raw Sewage	Parameter Code	35	38	# of Samples
		BOD ₅ (mg/L)	00001	0	151	1
		Suspended Solids (mg/L)	00006	0	176	1
		TKN (mg/L)	00020	2	41.50	1
		Total Phosphorus (mg/L)	00033	1	5.4	1

12	13	Final Effluent	Parameter Code	35	38	# of Samples
		BOD ₅ (mg/L)	00001	1		
		CBOD ₅ (mg/L)	00002	1	2.0	1
		Suspended Solids (mg/L)	00006	1	2.0	1
		Ammonia + Ammonium (mg/L)	00019	2	0.05	1
		TKN (mg/L)	00020	2		
		Total Phosphorus (mg/L)	00033	2	0.35	1

12	13	Disinfection	Parameter Code	35	38	# 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		

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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 0 Year: 2 0 2 2	3 1	2	R
1 2	3 11	16 19	20 21	22	80

C.P.

0 1

Flows

12 13	Total Flow	(10 ³ m ³)
	Average Daily Flow	(10 ³ m ³ /d)
	Maximum Daily Flow	(10 ³ m ³ /d)

Parameter Code	Dec.	Monthly Results
50010	3	18.768
50015	3	0.605
50020	3	0.700

2 6

Bypass

12 13	Plant Bypass Volume	(10 ³ m ³)
	Duration	(hours)
	Secondary Bypass Volume	(10 ³ m ³)
	Duration	(hours)

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

of Occurrences
0

0 3

Raw Sewage

12 13	BOD ₅	(mg/L)
	Suspended Solids	(mg/L)
	TKN	(mg/L)
	Total Phosphorus	(mg/L)

Parameter Code	Dec.	Monthly Results
00001	0	296
00006	0	270
00020	2	37.20
00033	1	4.3

of Samples
1
1
1
1

0 4

Final Effluent

12 13	BOD ₅	(mg/L)
	CBOD ₅	(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	10.0
00019	2	0.05
00020	2	
00033	2	0.21

1
1
1
1

0 7

Disinfection

12 13	Chlorine Used	(kg as Cl ₂)
	Chlorine Dosage	(mg/L as Cl ₂)
	Chlorine Residual	(mg/L as Cl ₂)

Parameter Code	Dec.	Monthly Results
50100	1	
80410	1	
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: 1 1 Year: 2 0 2 2	3 0	2	R
1 2	3 11	16 19	20 21	22	80

C.P.
0 1

Parameter Code	Dec.	Monthly Results
50010	3	18.430
50015	3	0.614
50020	3	0.790

Parameter Code	Dec.	Monthly Results	# of Occurrences
50026	3		0
80563	1		
50040	3		
80565	1		

Parameter Code	Dec.	Monthly Results	# of Samples
00001	0	305	1
00006	0	150	1
00020	2	37.80	1
00033	1	4.4	1

Parameter Code	Dec.	Monthly Results	# of Samples
00001	1		
00002	1	3.0	1
00006	1	6.0	1
00019	2	0.05	1
00020	2		
00033	2	0.16	1

Parameter Code	Dec.	Monthly Results	# of Samples
50100	1		
80410	1		
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: 1 2 Year: 2 0 2 2	3 1	2	R
1 2	3 11	16 19	20 21	22	80

C.P.
0 1

12	13	Flows	Parameter Code	35	38	Monthly Results
		Total Flow (10 ³ m ³)	50010	3		18.955
		Average Daily Flow (10 ³ m ³ /d)	50015	3		0.612
		Maximum Daily Flow (10 ³ m ³ /d)	50020	3		0.909

12	13	Bypass	Parameter Code	35	38	# 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		

12	13	Raw Sewage	Parameter Code	35	38	# of Samples
		BOD ₅ (mg/L)	00001	0	252	1
		Suspended Solids (mg/L)	00006	0	200	1
		TKN (mg/L)	00020	2	41.30	1
		Total Phosphorus (mg/L)	00033	1	4.5	1

12	13	Final Effluent	Parameter Code	35	38	# of Samples
		BOD ₅ (mg/L)	00001	1		
		CBOD ₅ (mg/L)	00002	1	12.8	4
		Suspended Solids (mg/L)	00006	1	14.3	4
		Ammonia + Ammonium (mg/L)	00019	2	13.35	4
		TKN (mg/L)	00020	2		
		Total Phosphorus (mg/L)	00033	2	0.82	1

12	13	Disinfection	Parameter Code	35	38	# 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		

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