

LATCHFORD ANNUAL SEWAGE TREATMENT REPORT 2022

Annual Compliance Report 2022
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EXECUTIVE SUMMARY

The Latchford Water Pollution Control Plant (WPCP) was granted an Environmental Compliance Approval (ECA) #3106-7M8PWK on September 17, 1974 for the construction of an extended aeration package sewage treatment plant, the Latchford lift station and a number of sanitary sewers to serve the community of Latchford.

The Ministry of the environment issued a Provincial Officer's Order No. 5744-9YMKWN on July 22, 2015 which required the owner of the system to prepare and submit a performance report to the Ministry's District Manager on an annual basis within 90 days following the end of the period being reported upon. The 2022 Annual Performance Report was prepared by the ORO of the Latchford STP on behalf of the Town of Latchford and is based on information kept on record by the town. The report has been completed in accordance with item 5(4) of the order and contains the following information:

- A summary and interpretation of all monitoring data and a comparison to the effluent limits outlined in Item 2, 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 any effluent quality assurance or control measures undertaken in the reporting period;
- A summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming 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 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.

The Latchford sewage treatment facility produced high quality effluent throughout the reporting period meeting the compliance limits specified in the ministry's Provincial Officer's Order. All requirements specified under Item 3 of the Order and any issues experienced at the facility are further explained throughout the report.

Name of Sewage Plant:

Latchford Water Pollution Control Plant

Address:

Lot 17, Concession 1, Latchford

MOE Works Number:

110001774

ECA Number:

3106-7M8PWK (issued September 17, 1974)

Provincial Officer's Order:

5744-9YMKWN (issued July 22, 2015)

Plant Capacity:

340.5 m³/day

Report Period:

January 1, 2022 to December 31, 2022

1.0 Facility Description

The Latchford Water Pollution Control Plant (WPCP) is A Class 2 wastewater treatment facility that is owned and operated by the Corporation of the Town of Latchford. The treatment facility is located on 1 McLeod Avenue approximately 50 meters west of Highway 11.

The Latchford WPCP is an extended aeration facility which is rated for treating 75,000 imperial gallons per day (IGPD) or 341 m³/day. It is equipped with twin grit channels for removing large debris, one 304,000 IGPD comminutor, a 73,000 IG aeration section, one 15,700 IG settling tank, one 2,440 IG sludge holding tank and one 1,585 IG chlorine contact tank. The treated effluent discharges into the Montreal River through a 21 inch outfall. Seasonal disinfection is set to occur May to October of each year, as per the ECA. However a directive from the MOE encourages disinfection to begin mid June in order to help protect the fish spawning season. The chlorination period is June 15th to September 30th.

A V-notch weir is in place to measure sewage effluent. Bypasses that occur are disinfected, tested, monitored and reported to the Spills Action Center (SAC). Disinfection is achieved using sodium hypochlorite.

2.0 Monitoring Program

2.1 Monitoring Program as Outlined in Provincial Officer Order No. 5744-9YMKWN

 $BOD_s \equiv Five$ -day biochemical oxygen demand measured in an unfiltered sample

TSS ≡ Total Suspended Solids

TP ≡ Total Phosphorus

 $TAN (NH_{3} + NH_{4}) N \equiv Nitrogen as Ammonium and Ammonia (Total Ammonia Nitrogen)$

TRC ≡ Total Residual Chlorine

E.coli ≡ Escherichia coli

pH = Potential of Hydrogen

2.1.1 Raw Sewage (Influent)

Parameter	Type of Sample	Minimum Frequency
BOD _s	8 hour composite	monthly
TSS	8 hour composite	monthly
TP	8 hour composite	monthly

2.1.2 Final Effluent

Parameter	Type of Sample	Minimum Frequency
BOD _s	24 hour composite	monthly
TSS	24 hour composite	bi-weekly
TP	24 hour composite	monthly
Total Ammonia Nitrogen (TAN)	24 hour composite	monthly
рН	24 hour composite	monthly
E. coli	24 hour composite	bi-weekly*
TCR	grab	daily**

^{*}During the chlorination period

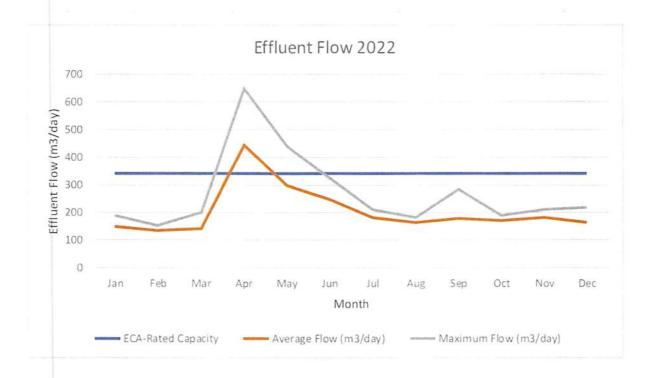
2.2 Interpretation of Monitoring and Analytical Data

2.2.1 Summary of Effluent Flow 2022

Month	Average Flow (m³/day)	Maximum Flow (m³/day)
January	149	189
February	134	152
March	141	201
April	444	647
May	298	442
June	248	323
July	183	212
August	164	182
September	178	283
October	170	189
November	182	210
December	162	219

2022 Total Flow	74,546 m³
2022 Max Daily Flow:	647 m³/day
2022 Average Daily Flow:	204.4 m³/day
Design Capacity	341 m³/day
% of Design Capacity:	59.9 %

^{**}Except weekends and statutory holidays during chlorination



The Latchford Sewage Treatment System operated within its required capacity throughout 2022. Compliance is achieved when the annual average daily flow does not exceed 341 m³/day. The average daily flow for 2022 was 204.4m³/day which represents 59.9% of the design capacity. The maximum flow occurred in April when heavy precipitation and snow melt contributed to a maximum flow of 647 m³/day.

2.2.2 Raw Sewage (Influent)

A summary of the annual average and maximum influent parameter concentrations are listed below. A Process Data Report is presented in Appendix A which provides a monthly summary of the 2022 influent data.

Parameter (mg/L)	Annual Minimum	Annual Maximum	Annual Average						
BOD ₅	17	70.2	33.9						
TSS	11	49	26.4						
TP	0.4	2.98	1.72						

2.2.3 Effluent

In 2022, the Latchford wastewater treatment system produced high quality effluent which surpassed the effluent design limits. Annual summaries of the final effluent parameter concentrations are presented below. Refer to Appendix A for the Monthly Process Data Report which summarizes the effluent data for the reporting period.

Parameter (mg/L)	Annual Minimum	Annual Maximum	Annual Average	Compliance
BOD _s	1.3	3.3	2.01	25 (annual average)
TSS	0	23	4.52	25 (annual average)
TP	0.046	0.239	0.10	1.0 (annual average)
TAN (NH ₃ + NH ₄) N	<0.01	2.13	0.337	N/A
pH (units)	7.01	7.79	7.38	Between 6.0 and 9.5
E. coli (cfu/100mL)	4000	60,000	17,138	N/A
TCR	0.01	0.05	0.028	N/A

[&]quot;<" means values include results that were less than the laboratory's method detection limit

2.3 Sewage Treatment Program Success and Adequacy

Table 2.3.1 Performance Summary presents the system's efficiency through pollutant removal rates from raw sewage concentrations through to final effluent for BOD₅, suspended solids and total phosphorus.

2.3.1 Performance Summary

Parameter (mg/L)	Influent (annual average)	Effluent (annual average)	% Removal
BOD,	33.9	2.01	94.1%
TSS	26.38	4.52	82.9%
TP	1.72	0.10	94.2%

[&]quot;<" means values include results that were less than the laboratory's method detection limit

As indicated by the effluent concentrations and performance summary, the Latchford WPCP continues to experience a high degree of removal efficiency, and as a result, is operating well within the Ministry limits.

3.0 Operating Problems and Corrective Actions

- Nov.22/2021 Bypassed to Montreal River (SAC Ref# IFDHND) Inspection indicated significant damage. Clarifier Rake support broke jamming the Clarifier Drained clarifier, New Hangers and brackets were fabricated from scratch and assembled on site. The entire scraper assembly was re-aligned and adjusted. Clarifier was put back in service Nov 30 2021. Bypass ended, notified MOE.
- Installed and commissioned New Blower#2. (Replaced old defective blower)
- Sewage Pump Station failing on power blips replaced defective UPS at station
- Sewage Pump Station Glitch reprogrammed controller to eliminate glitch
- STP Effluent Flow Meter Failed Replaced with new meter. (June 7, 2022)
- The clarifier drive chain was replaced with new + adjusted (worn out)

4.0 Maintenance Performed on the Works

- Effluent flow calibration verified April28 / 2022
- Effluent flow meter failed, installed new meter and verified calibration June 7 2022
- Instrumentation and electrical equipment inspected and repaired as required.
- SPS wet well cleaned, STP Digester and Sludge holding tank cleaned, cleaned grit channels, Waste Pit Cleanout, cleaned cl2 contact chamber, Sludge hauls as required
- Wired in new control circuit at SPS circuit bypasses PLC control and runs direct off LIT relays (emergency control in case of PLC failure on site. Redundant control)
- Chlorine Pump Maintenance, Seasonal maintenance on chlorine dosage system
- Cleaned and flushed out collection system annual maintenance.
- Adjusted clarifier chain, oiled, replaced gearbox oil, greased motor
- Blowers greased & Oil changed, cleaned air filters, adjusted belts started new 6 month maintenance program on blowers.
- Pressure washed STP, Painting STP, General Maintenance, Outside lighting was repaired.

5.0 Effluent Quality Assurance and Control Measures

The following activities are included in regular operator and supervisory activities to assure the quality of the sewage treatment operations including effluent quality and flow monitoring data:

- The facility is inspected by certified operators on a regular basis
- Certified operators conduct regular tests and monitor data from certain equipment at the plant and record this information on facility spreadsheets
- Certified operators monitor chemical usage and make adjustments as required

- Operation and Compliance staff review process data and laboratory reports to keep track of routine operation of the treatment plant to ensure compliance with the Ministry Guidelines.
- All laboratory results and selected operational data are logged in a process data management system, as well as on spreadsheets located at the WTP.
- All effluent quality data is reviewed by the Operations and Compliance staff to identify any changes in concentrations and/or emerging trends.
- All instrumentation is tested and maintained as per manufacturer's recommendations.
- All routine maintenance has been scheduled in Plant Workplace Maintenance System (WMS) and was completed in 2022.

Quality Control elements of the monitoring program include the following:

- Samples are collected as required and analyzed by Testmark Laboratories located in Kirkland Lake, Ontario. Analyses are conducted in accordance with the Standard Council of Canada (SCC), in cooperation with the Canadian Association for Laboratory Accreditation Inc. (CALA).
- Quality control procedures are method specific and include laboratory duplicate samples, spiked blanks and spiked duplicates.
- Any bypass or upset events that occur at the pumping stations or plant site are tested, monitored and reported to the local Health Unit and Spills Action Center (SAC).

6.0 Calibration and Maintenance of All Monitoring Equipment

Plant maintenance is conducted as per plant Preventative Maintenance Schedules. Monitoring equipment is calibrated based on the manufacturer's recommendations. All routine and preventative maintenance measures were conducted as scheduled in 2022. Refer to Table 6.1 for a summary of calibrations conducted in 2022.

6.1 Calibration Summary

Date	Instrument	% Accuracy
April 28/22	Effluent Flow Meter	99.8%
June 7 / 22	Effluent Flow Meter (New Meter)	99.9%

Note: The flow is metered with a V-notch weir and flow readings are confirmed at various levels at the weir plate and compared to manufacturer's standards. The % value above is an average of the accuracy at each level.

7.0 Efforts made to Meet Effluent Limits

Latchford staff use a number of best efforts to achieve the Effluent Limits.

Operational staff has the required certification to operate the facility and they continue to learn and gain knowledge with respect to the process and equipment. Staff also has a high level of regulatory competence.

The mechanical elements in the facility are regularly inspected, well maintained and kept in good repair. Latchford Staff use a maintenance management system which ensures maintenance of equipment is proactively performed.

Raw wastewater and effluent samples are collected as required and analyzed by Testmark Laboratories, an accredited laboratory. Latchford staff reviews these results on a regular basis to ensure compliance with regulatory limits.

In-house sampling and testing for operational parameters provide real time results which are used to enhance process and operational performance.

Operations, maintenance and emergency procedures are available to ensure facilities are operated in compliance with applicable legal instruments. Facility staff has access to a network of operational compliance and support experts at the region and corporate levels.

During this inspection period, the facility operated efficiently and met the annual effluent limits for cBOD5 (25.0 mg/L), TSS (25.0 mg/L), TP (1.0 mg/L) and pH range of 6.0 to 9.5 as outlined in Item No. 2 Provincial Officer Order No. 5744-9YMKWN.

8.0 Sludge Generation and Disposal

Sludge is hauled by Ray & Son's Industrial Services to approved sites at the Latchford Landfill. The landfill is approved to accept the sludge under Certificate of Approval number: S504LM10-01.

Date Sludge Hauled	Volume of Sludge Hauled m ³
Aug 23, 2022	85 m3
Oct 24, 2022	43 m3
Dec 7, 2022	70 m3
Total Hauled	198 m3

According to the Ministry's procedure F-10-1; sludge is required to be sampled and tested annually. For a summary of sludge sampling results please refer to Appendix B for the Monthly Process Data Report for Sludge.

9.0 Complaints

According to records maintained by Latchford staff, no complaints were received during the 2022 reporting period.

10.0 Bypass, Spill and Abnormal Discharge Events

- Abnormally high flows in April 2022 due to heavy spring melt.
- There were no bypasses during the 2022 reporting period.

APPENDIX A Monthly Process Data Report 2022

Latehord Sewage Treatment Plant 2022 Monthly Process Data Report

Influent (Raw) Parameters	01/2022	02/202	?	03/2022	04/2	222	05/2022	06/202	2	07/2022		06:2022	09	V2022	10/202	2	11/2022	12/2022		Total	Avg	N	lêx	Ma
rduent / Blochemical Coygeo Demand: 8006 - mg/L	П	11 .	Τ		\top	П		П	Т		Π		T			Τ			П				- 1	
Count Lab	1	1 1	Т	1	1	П	1	1	Т	1	Π	1	Т	1	1	Τ	1	1	Τ	12				
Max Lab	45	42	Т	73.2	44	П	17	17	Т	25	П	19	\top	31	23	Τ	24	(3	Ι				70.2	
Mean Lab	45	42	Т	73.2	4	П	17	17	Т	25	Π	19	Т	31	23	T	24	49	Τ		33.93333			
MnLab	45	42	Т	73.2	- 4	5	17	17	Т	25	П	19		31	23	Τ	24	0	Π			Π		17
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Max Lab	16	34	Τ	- 46	4	,]	11	18	Τ	33.5	П	20	\top	17	18	Ţ	19	35	Г			Т	G	
Vean Lab	16	34	Τ	46	4	П	11	18	Т	33.5	Π	20	Т	17	18	Ţ	19	35	L	. [26.375	Т		
Min Lab	16	34	Τ	46	43	\Box	11	18	Т	33.5	П	20	Т	17	18	Τ	19	35	Ι					11
Irikent / Total Prospheres: TP - mg/L		П	T			П		П	Т		Ι		Ι.			Τ			Ţ			T		
Count Lab	1	1	Ţ	1	7	\Box	1	1	Т	1	П	1		1	1	Ţ	1	1	Ε	12				
Max Lab	2,47	2.04	Τ	298	1.8	6	1.06	1.05	Т	1.56	Π	1.72		2.09	1,34	T	0.4	2.05	Τ			Τ	2.95	
Wean Lab	2.47	2.04	Τ	298	1.5	6	1.06	1.96		1.56	П	1.72		2.09	1.34	Τ	0.4	2.05	Γ		1.719167	L		
Van Lab	2.47	264	Т	298	1.8	6	1.05	1.05	Т	1.56	П	1.72		2.09	1.34	Т	0.4	255	Т			T	\top	0.4

Effluent Parameters	01/2	022	02:2022		03-2022	04/2	22	05/2022	06/2022		07/2022		08:2022	09 2022		10/2022	1123	2	12/2022		Total	Aıg		lii ja	tže.
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Was Lab	1.	6	1.8	П	1.9	1,	ī	29	2.7	Π	1.9	T	1.5	1.3	П	1.8	1.3	T	1.5	П			Т	13	
Meantac	1.	5	1.8	П	1.9	12	7	2.9	2.7	П	1.9	7	1.5	13	П	1.6	1.3	T	1.5	П		2003333	П		
Martab	1.	5	1.8	П	1.9	1:	7	29	2.7	П	1.9	T	1.5	13	П	1.8	1.3	7	1.5	П		1	Т		1.3
Effluent / Total Suspended Solds: TSS - mgft.	Т	一		П		1	T			Ħ		1			П		1	T					T		
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Wax Lab	7	1	4	П	35	5	┪	23	16	Π	2.5	7	35	5	П	3.57	2	7	55	П			П	25	
WeanLac	,	寸	3.5	П	275	1.5	5	11.67	12	11	1.75	1	35	4.5	П	3.57	2	7	1	ī		4.515833	П		
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Countilab	1	_	1	П	1	1	7	1	1	Ħ	ī	Ť	1	1	П	1	1	Ť	1	П	12	П	П		
Van Lao	2.0	49	0.075	П	3,946	0.0	2	0.112	0.239	11	0.039	Ť	21	0.187	П	0.069	0.095	7	3.05	П			П	0.239	
VeanLab	0.0	9	0.975	П	3.046	0.0	2	0.112	0.233	Ħ	0.099	†	21	0.:87	П	2.063	0.095	Ť	2.05	П		0.103023	Т		
Virtab	2.0	49	0.075	Ħ	0.046	0.0	2	0.112	0.239	Ħ	0.099	†	21	0.187	П	0.089	0.099	1	2.05	П			П		0.626
Effuent / Total Armonia Hitogray NAS + NAH+ as N - mg/L	T			П		1	7	1		Ħ		Ť			П		†	1		П		П	T		
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Varia	7.5	4	7.11	П	7.01	7.3	디	7.58	7.27	П	7.24	1	7.51	7.45	П	7.47	7.52	Ť	7.79	П			П	7.75	
Vernize	7.1	4	7.11	П	7.01	7.3	디	7.58	127	П	7.24	7	7.54	7.45	П	7.47	7.62	Ť	7.79	П		7.58	Т		
V:- Lab	7.1	4	7.11	П	7.01	7.3	7	7.50	1.27	П	7.24	1	7.54	7.45	П	7.47	7.62	7	7.79	П			Т		7.01
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Count Lab	٥	╗	0	П	0	0	┪	С	12	П	20	T	22	21	П	c	0	Т	9	П	75		Т	\neg	
Vix Lab	Π	\neg	T	П		1	┪	1	COA	77	0.05	T	0.05	0.05	П		Ī	T		П			T	0.25	
Vean Lat		╗	T	П		1	7		0.024	\prod	0.029	T	0.035	1025	П		Ī	T		П	\Box	0.02825	T	$\neg \neg$	
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Wean Lab	t.	5	1.5	П	1.6	2	7	3	2	\sqcap	1.0	Ť	27	24	П	1.2	1	1	11	Ħ	\neg	1.65	T	\neg	
Valab	1	5	1.5	П	1.6	2	┪	3	2	Π	1.8	T	27	24	П	12	1	T	111	П			T		0.7

Appendix B – Annual Sludge Results 2022

Sample Description	Parameter	MDL	Result	Units	ReceivedDate	AnalysisDate
Description						
Ammonia Water	Ammonia (as N)	0.01	0.61	mg/L	2022-01-25	2022-01-25
(A42)	Ammonia (as iv)	0.01	0.01	IIIg/L	2022-01-23	2022-01-23
Anion	Nitrate (as N)	0.1	0.3	mg/L	2022-01-25	2022-01-26
(Nitrate/Nitrite) by		0.2	0.0	6/ =		
Colourimetry					8	
(A126)						
ICPMS Reg. Water	Arsenic	1	2	ug/L	2022-01-25	2022-01-28
(A13.1)			-	0.		
ICPMS Reg. Water	Cadmium	0.1	< 0.1	ug/L	2022-01-25	2022-01-28
(A13.1)				S- 3 20		
ICPMS Reg. Water	Chromium	1	16	ug/L	2022-01-25	2022-01-28
(A13.1)						
ICPMS Reg. Water	Cobalt	0.1	1.1	ug/L	2022-01-25	2022-01-28
(A13.1)						
ICPMS Reg. Water	Copper	1	6	ug/L	2022-01-25	2022-01-28
(A13.1)						
ICPMS Reg. Water	Lead	0.1	0.1	ug/L	2022-01-25	2022-01-28
(A13.1)						
ICPMS Reg. Water	Mercury	0.1	<0.1	ug/L	2022-01-25	2022-01-28
(A13.1)						
ICPMS Reg. Water	Molybdenum	1	3	ug/L	2022-01-25	2022-01-28
(A13.1)				,,	2022 04 25	2022 04 20
ICPMS Reg. Water	Nickel	1	1	ug/L	2022-01-25	2022-01-28
(A13.1)	Datassium	1000	25700	/1	2022 01 25	2022 01 29
ICPMS Reg. Water	Potassium	1000	25700	ug/L	2022-01-25	2022-01-28
(A13.1) ICPMS Reg. Water	Selenium	0.5	2.1	ug/L	2022-01-25	2022-01-28
(A13.1)	Selemum	0.5	2.1	ug/L	2022-01-23	2022-01-28
ICPMS Reg. Water	Zinc	1	7	ug/L	2022-01-25	2022-01-28
(A13.1)	Ziiic	-	•	48/2	2022 01 23	2022 01 20
TP Water (A23.2)	Total Phosphorus (as	4	850	mg/L	2022-01-25	2022-01-26
	P)		15.5.5	J, -		
TS (A27)	Total Solids	20	11400	mg/L	2022-01-25	2022-02-01
TS (A27)	Total Solids (Dup)	20	12000	mg/L	2022-01-25	2022-02-01