

**City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data**

January 2021

Licence 2684 RRR	File # 1071.10	Final Effluent 24 Hour Composite							Final Effluent Grab Sample					
		Date	Raw Sewage Daily Flow ML	TSS	BOD5	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
				(mg/L)	(mg/L)	(mg/L)	(kg NH3-N/day)	(mg/L-P)	(mg/L-P)*	(mg/L-N)*	(°C)	(units)	MPN/100 mL	
1-Jan-21	113.9	14	16	7	4,579	4.32	5.4	50.2	13.9	6.88	560	590		
2-Jan-21	118.8	12	16	7	4,739	4.70	5.4	50.2	14.1	6.87	40	60		
3-Jan-21	132.3	15	21	8	4,922	4.05	5.4	49.9	14.1	6.80	420	430		
4-Jan-21	132.0	12	15	8	4,684	4.27	5.4	49.7	13.1	6.91	760	440		
5-Jan-21	125.0	12	23	6	4,876	4.28	5.3	49.6	13.6	6.96	15,500	14,100		
6-Jan-21	127.6	9	nr	nr	4,951	3.89	5.3	49.6	14.4	6.87	190	240		
7-Jan-21	127.3	11	25	8	4,837	3.42	5.3	49.3	14.1	6.85	20	30		
8-Jan-21	136.4	12	26	7	5,212	3.16	5.2	49.2	14.5	6.97	340	500		
9-Jan-21	124.9	11	29	8	4,659	2.93	5.2	49.7	14.4	6.89	810	1,040		
10-Jan-21	124.0	11	31	9	5,268	3.07	5.2	49.9	14.5	6.89	20	20		
11-Jan-21	129.4	14	25	8	4,955	2.33	5.1	50.0	14.3	6.80	220	200		
12-Jan-21	132.7	16	22	8	5,190	2.47	5.1	50.2	14.4	7.03	200	240		
13-Jan-21	130.5	14	27	9	5,429	2.88	5.0	50.5	14.4	6.85	510	600		
14-Jan-21	127.9	12	40	12	5,486	3.60	5.0	50.6	14.6	6.77	50	70		
15-Jan-21	131.4	10	27	9	6,029	4.05	5.0	50.6	14.3	6.82	20	50		
16-Jan-21	125.6	11	20	8	5,101	4.01	5.0	50.7	14.4	6.78	100	70		
17-Jan-21	123.5	14	33	13	4,916	4.23	5.0	50.9	14.3	6.77	60	60		
18-Jan-21	132.0	9	36	8	5,292	3.75	4.9	51.1	14.1	6.88	20	<10		
19-Jan-21	126.4	19	26	7	5,117	3.89	4.9	50.8	14.0	6.94	30	10		
20-Jan-21	126.7	14	22	10	5,119	4.01	4.9	50.9	14.3	6.80	60	90		
21-Jan-21	128.8	19	27	15	5,151	3.81	4.9	51.1	14.3	6.91	290	420		
22-Jan-21	127.2	13	21	11	5,191	4.18	4.8	51.2	14.1	6.94	20	20		
23-Jan-21	121.8	16	23	12	4,493	4.33	4.8	51.6	14.2	6.84	10	<10		
24-Jan-21	125.7	20	26	12	4511	4.65	4.8	51.7	14.0	6.85	40	10		
25-Jan-21	125.8	16	25	12	4654	4.18	4.7	51.8	12.8	6.91	80	40		
26-Jan-21	122.1	16	19	8	4,895	3.96	4.7	51.9	12.9	6.85	80	160		
27-Jan-21	126.3	11	21	10	4,975	4.16	4.7	51.9	13.2	6.84	50	100		
28-Jan-21	132.7	19	27	8	5,043	4.02	4.6	51.7	14.1	6.85	60	110		
29-Jan-21	123.3	16	28	11	4,597	4.22	4.6	51.4	13.2	6.83	440	420		
30-Jan-21	114.9	14	25	10	4,445	4.56	4.6	50.9	14.1	6.75	<10	10		
31-Jan-21	115.6	17	27	11	4,683	5.17	4.6	50.6	14.2	6.76	<10	20		
Max:	136.4													
Min:	113.9													
Average:	126.2	14	25	9	4,968	3.89			14.0	6.86				
Total Flow:	3,912.2													
Geo.Mean:											91	97		

Notes:

- (1) Effluent ammonia load based upon Raw Sewage flows and Final NH3-N concentrations
- (2) nr - not recorded or no result; na - not analyzed; ns - no sample
- (3) Where value is expressed as less than (<), the value is halved and used in the calculations
- (4) * = 30 day rolling average
- (5) Raw wastewater flows in excess of 400 ML/D will by-pass the secondary process and flows in excess of 675 ML/D will cause raw sewage to by-pass the plant