

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

July 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-Jul-21	140.6	23	35	9	4,893	4.55	4.7	44.0	18.9	6.82	250	200		
2-Jul-21	139.9	23	31	9	5,091	4.67	4.8	43.9	19.4	6.79	190	230		
3-Jul-21	133.9	22	23	9	3,871	5.18	4.8	43.9	19.0	6.80	210	130		
4-Jul-21	141.0	21	26	11	3,989	5.18	4.9	43.5	19.0	6.74	260	260		
5-Jul-21	146.2	19	22	11	3,729	3.78	5.0	43.2	19.6	6.80	170	130		
6-Jul-21	140.7	18	23	11	4,319	4.65	5.1	43.4	19.0	6.91	280	420		
7-Jul-21	145.6	21	24	11	4,614	4.93	5.3	43.8	18.9	6.88	480	470		
8-Jul-21	149.7	18	27	11	5,615	4.61	5.3	44.2	19.3	6.87	390	460		
9-Jul-21	150.9	17	26	9	6,217	4.80	5.4	45.4	19.6	6.80	30	10		
10-Jul-21	134.8	19	27	11	5,097	4.77	5.5	46.4	19.5	6.79	40	50		
11-Jul-21	131.8	23	26	11	4,572	3.93	5.5	47.0	19.7	6.76	20	30		
12-Jul-21	143.1	16	25	10	4,294	3.75	5.6	47.4	19.7	6.74	20	<10		
13-Jul-21	142.8	14	24	10	3,498	4.34	5.6	47.8	19.7	6.71	80	30		
14-Jul-21	140.4	15	24	11	4,859	4.48	5.6	48.1	19.8	6.70	30	10		
15-Jul-21	151.1	17	26	14	4,110	4.42	5.7	48.4	20.4	6.79	50	<10		
16-Jul-21	132.7	27	24	14	3,995	3.80	5.7	48.5	21.0	6.69	1,310	1,130		
17-Jul-21	129.9	22	23	12	4,066	3.07	5.7	48.4	20.2	6.71	120	130		
18-Jul-21	121.8	17	23	11	3,910	3.49	5.7	48.3	20.0	6.73	20	<10		
19-Jul-21	134.2	9	22	6	3,972	3.82	5.7	48.0	20.7	6.74	<10	20		
20-Jul-21	155.9	20	32	20	4,115	4.31	5.8	47.8	20.0	6.78	2,490	3,870		
21-Jul-21	158.3	29	31	16	4,527	3.97	5.8	48.0	20.7	6.52	1,410	1,660		
22-Jul-21	143.9	19	19	11	3,800	2.05	5.7	47.9	21.4	6.50	2,720	2,280		
23-Jul-21	141.4	15	23	6	4,580	3.14	5.6	48.1	20.7	6.64	130	40		
24-Jul-21	129.7	20	23	9	4,449	4.28	5.6	48.4	22.1	6.79	10	50		
25-Jul-21	125.4	17	21	6	4,452	4.19	5.6	48.7	20.4	6.73	20	20		
26-Jul-21	132.7	18	20	7	4,618	4.25	5.6	49.1	20.9	6.79	90	70		
27-Jul-21	135.4	19	20	6	4,780	4.61	5.6	49.4	20.2	6.69	10	10		
28-Jul-21	138.3	nr	nr	nr	nr	nr	5.6	49.9	20.4	6.71	20	20		
29-Jul-21	132.8	27	24	6	4,662	4.81	5.6	50.4	20.8	6.82	20	10		
30-Jul-21	135.7	21	19	7	4,398	4.86	5.7	50.3	20.1	6.76	120	90		
31-Jul-21	125.5	22	23	6	4,052	4.99	5.7	50.2	20.1	6.82	130	50		
Max:	158.3													
Min:	121.8													
Average:	138.9	20	25	10	4,438	4.26			20.0	6.75				
Total Flow:	4,306.2													
Geo.Mean:											96	75		

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