

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

July 2020

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-20	436.0	26	20	8	4,752	0.86	3.0	30.3	19.5	6.97	>24200	>24200		
2-Jul-20	200.2	11	20	4	3,643	1.70	2.9	30.1	19.1	6.93	490	750		
3-Jul-20	188.6	10	21	5	4,225	2.35	2.9	29.5	18.6	6.99	580	490		
4-Jul-20	248.4	28	30	13	4,049	1.96	2.8	28.7	18.6	6.90	>24200	>24200		
5-Jul-20	244.5	28	26	10	4,231	1.93	2.8	27.8	19.1	6.84	2,910	2,010		
6-Jul-20	204.0	7	22	4	3,243	1.98	2.7	27.3	19.6	6.82	860	690		
7-Jul-20	188.3	13	28	4	3,973	2.53	2.8	27.7	19.4	6.83	300	240		
8-Jul-20	207.2	15	31	5	4,702	2.67	2.8	28.1	19.3	6.91	190	110		
9-Jul-20	185.6	24	33	8	4,826	3.00	2.8	28.2	19.1	6.73	50	70		
10-Jul-20	185.8	17	27	6	4,720	3.33	2.8	28.4	19.2	6.72	140	50		
11-Jul-20	164.9	18	33	6	4,271	3.52	2.9	28.5	19.1	6.71	80	150		
12-Jul-20	168.8	13	47	6	4,322	3.82	2.9	28.6	19.2	6.82	50	110		
13-Jul-20	315.5	80	60	34	5,112	2.69	2.9	28.1	19.0	6.37	60	20		
14-Jul-20	217.6	15	28	6	3,264	1.85	2.8	28.0	19.5	6.79	230	260		
15-Jul-20	168.4	14	32	6	3,873	2.91	2.8	28.2	19.2	6.72	150	90		
16-Jul-20	155.2	21	53	8	3,895	3.35	2.8	28.5	19.4	6.86	280	210		
17-Jul-20	301.3	86	57	32	5,634	2.67	2.8	28.6	19.5	6.70	190	140		
18-Jul-20	242.2	18	14	7	3,440	1.60	2.8	28.6	19.6	6.61	1,380	1,260		
19-Jul-20	161.9	19	22	8	3,335	2.62	2.9	28.5	18.9	6.65	490	380		
20-Jul-20	156.4	22	24	10	3,629	3.40	2.9	29.0	18.9	6.68	1,290	830		
21-Jul-20	155.7	30	30	11	4,080	3.52	3.0	29.7	18.9	6.75	1,110	880		
22-Jul-20	162.3	35	32	14	4,188	3.00	3.1	30.1	19.1	6.70	450	560		
23-Jul-20	151.1	31	34	15	3,430	2.93	3.1	30.3	19.1	6.65	1,290	1,080		
24-Jul-20	143.7	33	37	17	3,649	3.08	3.2	31.3	19.4	6.69	1,870	2,190		
25-Jul-20	149.4	36	32	19	3,749	3.07	3.2	32.1	19.5	6.77	3,870	3,260		
26-Jul-20	138.7	31	34	19	3,564	3.00	3.3	33.2	19.5	6.74	2,400	1,170		
27-Jul-20	142.6	29	30	17	3,635	2.81	3.4	33.9	19.3	6.75	810	780		
28-Jul-20	140.8	27	31	17	4,859	3.54	3.5	34.8	19.7	6.81	510	470		
29-Jul-20	145.4	33	30	18	5,233	3.66	3.6	35.7	19.8	6.82	10,500	12,000		
30-Jul-20	137.8	39	29	16	4,948	3.50	3.6	36.7	20.1	6.79	1,720	1,660		
31-Jul-20	145.7	32	28	18	5,273	3.80	3.8	38.2	20.1	6.73	2,380	1,940		
Max:	436.0													
Min:	137.8													
Average:	192.1	27	31	12	4,185	2.80			19.30	6.77				
Total Flow:	5,954.0													
Geo.Mean:											695	603		

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