

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

April 2021

Licence # 2716RR	File # 1069.10	Final Effluent 24 Hour Composite										Final Effluent Grab Sample		
		TSS		BOD5		cBOD5		Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	E.Coli
		(mg/L)	(mg/L)*	(mg/L)	(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-Apr-21	47.7	11	11	22	21	5	9	2,017	4.47	4.1	49.6	14.2	6.57	<10
2-Apr-21	46.8	10	11	18	21	5	8	2,029	4.67	4.2	49.7	14.2	6.71	<10
3-Apr-21	47.0	8	11	18	21	5	8	1,966	4.65	4.2	49.7	14.4	6.63	<10
4-Apr-21	49.6	11	11	23	21	7	8	2,092	4.39	4.2	49.7	14.4	6.66	<10
5-Apr-21	50.6	10	11	20	21	8	8	2,026	3.62	4.2	49.8	14.5	6.59	20
6-Apr-21	48.7	11	11	17	21	6	8	1,890	2.80	4.1	50.1	14.3	6.59	<10
7-Apr-21	48.5	9	11	21	21	7	8	2,042	3.58	4.1	50.6	14.3	6.62	<10
8-Apr-21	50.2	18	11	23	21	12	8	2,059	4.35	4.2	51.3	14.4	6.62	50
9-Apr-21	71.3	14	11	22	21	10	8	2,175	2.77	4.2	51.2	13.0	6.73	10
10-Apr-21	52.0	9	11	18	21	7	8	1,824	3.48	4.2	51.0	13.6	6.63	<10
11-Apr-21	52.1	6	11	21	22	7	8	1,970	4.36	4.2	50.9	14.3	6.65	<10
12-Apr-21	59.5	28	11	28	22	14	8	2,200	4.25	4.2	50.9	14.3	6.86	180
13-Apr-21	54.3	10	11	17	22	6	8	1,944	3.17	4.2	50.6	13.1	6.66	<10
14-Apr-21	56.5	10	11	17	21	6	8	2,040	3.40	4.2	50.4	13.4	6.59	20
15-Apr-21	60.3	11	11	21	21	7	7	2,195	3.43	4.2	50.3	13.1	6.66	40
16-Apr-21	68.0	16	11	22	21	11	8	2,217	3.55	4.2	50.3	13.4	6.69	<10
17-Apr-21	65.0	13	11	20	21	9	8	1,994	2.81	4.1	49.9	13.4	6.70	20
18-Apr-21	65.4	17	11	26	21	12	8	2,100	2.85	4.1	49.5	13.7	6.68	20
19-Apr-21	61.2	9	11	24	21	9	8	2,190	2.80	4.1	49.0	13.5	6.73	10
20-Apr-21	55.8	11	11	22	21	7	8	2,082	2.82	4.0	48.8	13.4	6.78	30
21-Apr-21	55.0	11	11	19	21	7	8	2,240	3.45	4.0	48.8	13.7	6.78	20
22-Apr-21	54.7	10	11	21	21	7	8	2,221	3.21	4.0	48.7	14.1	6.67	50
23-Apr-21	54.5	10	11	20	21	7	8	2,158	3.38	4.0	48.6	14.1	6.96	110
24-Apr-21	53.3	14	11	20	21	8	8	2,100	3.88	4.0	48.5	14.0	6.67	40
25-Apr-21	53.9	13	11	24	21	8	8	2,268	3.79	4.0	48.3	14.1	6.69	10
26-Apr-21	53.6	13	11	21	21	7	8	2,095	4.04	4.0	48.4	14.2	6.63	40
27-Apr-21	50.9	10	11	21	21	7	8	2,093	3.24	4.0	48.6	14.4	6.63	30
28-Apr-21	50.7	9	11	20	21	7	8	1,894	3.69	4.0	48.9	14.3	6.68	30
29-Apr-21	50.1	9	11	23	21	8	8	2,055	3.72	4.0	49.1	10.2	6.98	40
30-Apr-21	50.4	8	11	17	21	7	8	2,240	3.78	4.0	49.0	14.4	6.66	<10
Max:	71.3													
Min:	46.8													
Average:	54.6	11		21		8		2,081	3.61			13.8	6.69	
Total Flow:	1,637.6													
Geo.Mean:														16

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)** Flow, highlighted in bold, in excess of 98.6 ML/D per clause 27 of Licence 2716RR
- (6) Bracketed Coliform results not used in the Geometric Mean calculation
- (7) Raw wastewater flows in excess of 100 ML/D will by-pass the secondary process