

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

May 2020

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-May-20	67.5	9	12	nr	14	nr	8	2,159	3.21	3.1	35.9	13.4	6.92	2,910
2-May-20	67.0	12	12	15	14	11	8	2,130	2.81	3.2	36.2	13.0	7.16	7,700
3-May-20	64.4	13	12	14	14	9	8	2,183	3.17	3.2	36.1	13.0	7.01	17,300
4-May-20	63.3	11	12	13	14	8	8	2,068	3.01	3.3	36.0	13.2	6.77	>24,200
5-May-20	61.5	9	12	11	13	9	8	2,110	3.02	3.3	35.9	13.5	6.92	6,130
6-May-20	60.8	18	11	17	13	12	7	2,238	3.56	3.3	36.5	13.5	6.89	4,610
7-May-20	59.7	17	10	16	13	13	7	2,275	3.80	3.4	37.4	13.6	6.73	40
8-May-20	57.8	11	10	nr	13	nr	7	2,178	3.49	3.4	38.2	13.6	6.71	nr
9-May-20	56.2	8	10	14	13	11	7	2,057	3.41	3.5	38.8	13.5	6.92	20
10-May-20	55.6	23	11	16	13	11	8	2,156	4.25	3.6	39.2	13.6	6.71	<10
11-May-20	55.0	71	13	37	14	29	8	2061	3.63	3.7	39.5	13.8	6.66	10
12-May-20	54.5	10	13	11	14	7	8	2,115	3.76	3.7	40.0	13.6	6.70	<10
13-May-20	59.0	8	13	11	14	8	9	2,208	3.33	3.7	40.4	13.9	6.62	50
14-May-20	62.8	8	13	18	14	9	9	2,079	2.56	3.8	40.7	13.5	6.79	20
15-May-20	57.5	8	13	10	14	7	9	2,029	2.54	3.8	41.1	13.8	6.70	70
16-May-20	55.0	6	13	10	14	6	9	1,969	2.94	3.8	41.6	14.0	6.72	20
17-May-20	53.5	6	13	12	14	6	9	2,033	3.26	3.8	42.2	14.0	6.59	20
18-May-20	54.8	8	13	14	14	7	9	1,951	3.53	3.8	42.8	14.1	6.66	<10
19-May-20	56.3	7	13	13	14	6	9	2,020	3.90	3.8	43.2	14.4	6.77	10
20-May-20	56.0	8	13	17	14	6	9	2,099	3.96	3.8	43.3	14.6	6.81	<10
21-May-20	55.9	8	13	16	14	5	9	2,035	3.68	3.9	43.5	15.0	6.69	<10
22-May-20	55.9	9	13	14	14	5	9	2,023	3.41	3.8	43.5	14.9	6.74	<10
23-May-20	54.9	30	13	25	14	15	9	2,010	3.77	3.9	43.6	15.0	6.66	<10
24-May-20	66.7	28	14	32	15	14	9	1,934	2.68	3.9	43.5	15.1	6.71	1,480
25-May-20	56.6	7	14	12	15	5	9	1,947	2.99	3.8	43.4	14.8	6.67	40
26-May-20	56.8	5	13	10	15	4	9	1,967	3.25	3.9	43.5	14.9	6.66	10
27-May-20	56.4	<3	13	14	15	5	9	2,036	3.27	3.9	43.6	14.9	6.68	80
28-May-20	55.1	7	13	13	15	na	9	2,010	3.57	3.9	43.9	14.7	6.68	<10
29-May-20	53.9	6	13	11	15	<4	9	1,944	3.20	3.9	44.3	14.7	6.81	<10
30-May-20	53.3	8	13	11	15	5	9	1,907	3.82	4.0	44.6	14.8	6.77	10
31-May-20	54.2	6	13	11	15	5	9	1,988	2.92	4.0	44.8	14.8	6.77	10
Max:	67.5													
Min:	53.3													
Average:	58.0	12		15		9		2,062	3.35			14.1	6.76	
Total Flow:	1,797.6													
Geo.Mean:														53

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