

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

June 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-Jun-21	50.0	12	15	37	28	10	13	1,826	4.04	4.7	50.5	15.9	6.64	230
2-Jun-21	49.5	14	15	46	29	11	13	1,862	3.57	4.7	50.5	15.9	6.69	500
3-Jun-21	50.5	14	16	45	30	11	13	1,732	3.61	4.8	50.4	16.2	6.65	40
4-Jun-21	50.2	14	16	43	31	9	13	1,742	3.95	4.8	50.4	16.5	6.71	160
5-Jun-21	48.8	12	16	38	31	9	13	1,679	4.30	4.8	50.4	16.2	6.64	40
6-Jun-21	53.8	10	16	36	32	11	13	1,720	3.52	4.8	50.2	16.2	6.69	170
7-Jun-21	50.7	17	16	45	33	12	13	1,774	3.92	4.8	50.1	16.2	6.61	3,450
8-Jun-21	49.2	11	16	26	33	9	13	1,883	3.81	4.8	49.9	16.8	6.63	340
9-Jun-21	87.2	30	17	37	33	23	13	2,406	3.41	4.7	49.5	16.6	6.60	490
10-Jun-21	69.4	10	17	22	33	8	13	1,755	2.02	4.7	48.9	16.5	6.76	90
11-Jun-21	56.4	9	17	22	33	8	13	1,799	3.00	4.6	48.6	16.7	6.75	10
12-Jun-21	53.1	7	17	27	33	6	13	1,849	3.57	4.6	48.5	16.3	6.67	10
13-Jun-21	53.2	9	17	29	33	8	13	2,108	3.81	4.6	48.1	16.2	6.69	<10
14-Jun-21	53.5	9	16	29	33	7	13	1,873	4.03	4.6	48.1	16.6	6.72	<10
15-Jun-21	52.8	8	16	26	33	7	13	1,794	3.81	4.5	47.9	16.8	6.64	30
16-Jun-21	52.0	10	16	30	33	5	12	1,971	3.98	4.5	47.8	17.0	6.65	<10
17-Jun-21	52.9	10	16	26	33	5	12	1,940	3.63	4.5	47.9	17.1	6.65	20
18-Jun-21	50.7	10	16	27	33	5	12	1,926	3.44	4.5	47.9	16.9	6.61	<10
19-Jun-21	48.0	12	16	24	33	6	12	1,468	3.67	4.5	48.3	16.8	6.67	<10
20-Jun-21	49.4	14	15	28	33	5	11	1,847	4.05	4.4	48.2	16.8	6.63	<10
21-Jun-21	49.9	12	12	26	32	7	10	1,837	4.04	4.4	48.5	16.7	6.64	110
22-Jun-21	51.7	14	12	24	32	5	9	2,022	3.90	4.5	48.6	16.9	6.65	40
23-Jun-21	51.6	8	12	24	32	4	9	1,918	4.30	4.5	48.8	17.4	6.66	1,270
24-Jun-21	52.7	9	12	27	32	6	9	2,001	4.04	4.5	48.9	17.4	6.67	10
25-Jun-21	49.0	8	12	21	32	6	9	1,793	4.05	4.5	49.0	17.3	6.66	1,120
26-Jun-21	48.1	8	12	22	32	5	9	1,786	4.07	4.6	49.1	17.5	6.64	10
27-Jun-21	49.3	5	11	25	31	6	8	1,768	4.58	4.6	49.1	17.4	6.62	1,450
28-Jun-21	51.6	8	11	21	31	6	8	1,843	4.05	4.6	49.0	17.7	6.64	<10
29-Jun-21	49.0	9	11	18	30	5	8	1,764	4.35	4.6	48.9	17.7	6.64	8,160
30-Jun-21	51.1	6	11	18	29	<4	8	1,897	4.11	4.6	48.8	17.9	6.66	<10
Max:	87.2													
Min:	48.0													
Average:	52.8	11		29		8		1,853	3.82			16.8	6.66	
Total Flow:	1,585.2													
Geo.Mean:														57

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