

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

May 2019

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-19	60.4	8	9	11	14	5	7	1,982	2.83	2.9	37.2	13.3	6.79	3,450
2-May-19	60.3	8	9	12	14	5	7	1,877	3.00	3.0	37.2	13.4	6.84	>24,200
3-May-19	69.7	7	9	11	14	4	7	1,993	2.92	3.0	37.0	12.8	6.61	<10
4-May-19	63.3	6	9	14	14	<4	7	1,818	2.78	2.9	36.8	12.2	6.60	20
5-May-19	62.6	7	9	16	14	5	7	1,952	2.97	2.9	36.6	12.6	6.58	<10
6-May-19	60.0	6	9	12	13	4	7	1,763	2.78	2.9	36.6	12.6	6.58	<10
7-May-19	57.8	6	8	7	12	5	6	1,804	3.02	2.9	37.2	13.0	6.61	10
8-May-19	56.7	6	8	13	12	6	6	1,877	3.18	2.9	37.7	12.9	6.55	10
9-May-19	56.5	10	8	12	12	5	6	1,945	3.33	3.0	38.4	13.1	6.59	40
10-May-19	55.3	5	8	9	12	4	6	1,868	3.13	3.1	39.1	13.1	6.62	10
11-May-19	56.3	6	8	9	12	5	6	1,993	3.56	3.1	39.6	13.3	6.59	20
12-May-19	64.9	5	8	12	12	5	6	2,030	3.08	3.1	39.8	13.0	6.59	<10
13-May-19	56.3	3	8	11	12	4	6	1,976	2.48	3.1	39.8	13.5	6.52	10
14-May-19	54.0	5	8	12	12	5	6	1,861	3.45	3.1	39.9	13.7	6.69	20
15-May-19	57.4	8	7	18	12	6	6	2,071	3.49	3.1	40.1	13.6	6.58	1
16-May-19	63.2	11	7	12	12	6	6	1,775	2.41	3.1	40.3	13.0	6.64	<10
17-May-19	53.8	6	7	10	12	5	6	1,802	2.47	3.2	40.4	13.5	6.56	10
18-May-19	51.2	10	7	17	12	7	6	1,714	2.78	3.2	40.7	13.5	6.64	10
19-May-19	48.5	4	7	15	12	5	6	1,712	3.06	3.2	40.9	13.5	6.63	40
20-May-19	51.1	11	7	17	12	7	6	1,763	3.53	3.2	41.2	13.5	6.59	10
21-May-19	51.4	5	7	13	12	7	6	1,808	3.11	3.3	41.5	13.7	6.51	160
22-May-19	53.5	11	7	28	12	7	6	1,899	3.04	3.3	42.0	13.9	6.52	40
23-May-19	51.3	8	7	15	12	5	6	1,907	3.25	3.3	42.5	13.9	6.61	30
24-May-19	61.1	10	7	13	12	5	5	2,078	3.02	3.3	42.8	14.0	6.60	<10
25-May-19	58.3	6	7	11	12	4	5	1,911	2.70	3.3	42.9	13.5	6.65	10
26-May-19	60.2	8	7	10	12	5	5	1,865	3.27	3.3	43.0	13.6	6.70	<10
27-May-19	54.7	6	7	13	13	6	5	1,864	2.99	3.3	43.1	13.8	6.55	10
28-May-19	53.3	7	7	16	13	6	5	1,802	3.09	3.3	43.0	13.9	6.63	<10
29-May-19	52.5	4	7	15	13	4	5	1,902	3.17	3.3	43.1	14.2	6.61	<10
30-May-19	52.6	6	7	11	13	4	5	1,867	3.40	3.3	43.2	14.3	6.63	10
31-May-19	52.1	4	7	15	13	4	5	1,809	3.37	3.3	43.6	14.6	6.61	<10
Max:	69.7													
Min:	48.5													
Average:	56.8	7		13		5		1,880	3.05			13.4	6.61	
Total Flow:	1760.0													
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