

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
April 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-Apr-19	61.0	8	10	11	10	5	7	2,013	3.11	3.6	46.4	12.4	6.56	20
2-Apr-19	60.6	6	10	9	10	4	7	1,842	2.67	3.5	45.9	11.9	6.67	40
3-Apr-19	52.2	8	10	14	10	6	7	1,854	2.89	3.5	46.0	12.2	6.57	20
4-Apr-19	50.2	7	10	11	10	4	7	1,856	3.32	3.6	46.0	12.6	6.61	10
5-Apr-19	58.6	7	10	12	10	4	7	2,152	3.33	3.5	45.9	12.9	6.62	<10
6-Apr-19	65.4	24	10	28	11	16	7	1,923	3.21	3.5	45.5	13.3	6.67	10
7-Apr-19	129.3	34	11	43	12	31	8	2,172	2.22	3.5	44.7	9.8	7.02	(13,000)
8-Apr-19	91.9	8	11	12	12	8	8	1,940	2.37	3.4	43.8	10.5	6.88	110
9-Apr-19	69.9	5	11	12	12	5	8	1,663	1.80	3.4	43.0	11.2	6.78	50
10-Apr-19	60.5	6	11	12	12	5	7	1,707	1.49	3.3	42.4	12.0	6.59	30
11-Apr-19	58.6	5	11	11	12	4	7	1,852	2.45	3.3	41.8	12.2	6.63	10
12-Apr-19	63.4	6	10	10	12	4	7	1,948	2.58	3.2	41.1	12.1	6.59	10
13-Apr-19	63.6	7	10	12	12	5	7	2,009	2.88	3.2	40.7	12.5	6.70	<10
14-Apr-19	68.4	7	10	12	12	5	7	2,031	2.93	3.2	40.2	11.6	6.58	<10
15-Apr-19	83.5	25	10	36	13	11	7	2,072	2.66	3.1	39.6	11.5	6.59	20
16-Apr-19	92.4	8	11	12	14	6	7	1,904	2.20	3.0	38.8	10.3	6.89	70
17-Apr-19	71.8	4	10	9	14	5	7	1,738	1.61	3.0	38.2	11.5	6.64	10
18-Apr-19	68.4	6	10	11	14	5	7	1,710	1.43	2.9	37.5	12.0	6.70	70
19-Apr-19	67.6	8	10	12	14	5	7	1,852	2.06	2.9	37.1	12.0	6.74	60
20-Apr-19	64.9	5	10	12	14	5	7	1,766	2.18	2.9	37.0	12.7	6.64	<10
21-Apr-19	65.6	7	10	18	14	8	7	1,810	2.56	2.9	37.1	12.0	6.64	10
22-Apr-19	65.2	10	10	16	14	9	7	1,807	3.27	2.9	37.3	12.6	6.72	10
23-Apr-19	63.1	9	10	14	14	7	7	1,755	2.40	2.9	37.4	12.5	6.68	630
24-Apr-19	62.1	8	10	17	14	10	7	1,757	1.64	2.9	37.3	12.8	6.58	50
25-Apr-19	61.7	7	10	8	14	5	7	1,846	2.13	2.9	37.3	12.4	6.56	60
26-Apr-19	62.0	9	9	6	14	4	7	1,916	2.42	2.9	37.4	12.8	6.56	10
27-Apr-19	62.8	10	9	6	14	4	7	2,016	2.89	2.9	37.4	12.9	6.80	>24,200
28-Apr-19	63.5	10	9	13	14	7	7	2,002	3.19	3.0	37.6	13.2	6.83	6,130
29-Apr-19	61.8	7	9	6	14	8	7	1,916	2.71	3.0	37.4	13.1	6.78	6,130
30-Apr-19	61.3	8	9	6	14	5	7	1,967	2.78	3.0	37.3	13.3	6.81	4,110
Max:	129.3													
Min:	50.2													
Average:	67.7	9		14		7		1,893	2.51			12.2	6.69	
Total Flow:	2031.6													
Geo.Mean:														48

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