

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
August 2017**

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
Date	Raw Sewage Daily Flow ML**													
1-Aug-17	50.1	7	8	23	17	3	5	1,637	3.77	3.8	42.9	19.1	6.65	58
2-Aug-17	48.7	5	8	15	17	3	5	1,662	4.08	3.8	42.8	19.0	6.77	15
3-Aug-17	48.3	6	7	16	17	3	5	1,738	4.17	3.8	42.7	18.9	6.68	46
4-Aug-17	50.1	3	7	13	17	3	5	1,624	3.91	3.8	42.7	18.9	6.72	23
5-Aug-17	45.2	8	7	15	17	4	5	1,520	3.93	3.8	42.6	19.2	6.61	20
6-Aug-17	43.1	5	7	14	17	4	5	1,466	4.27	3.8	42.5	19.1	6.63	14
7-Aug-17	45.7	5	7	12	17	3	5	1,540	4.15	3.8	42.1	19.2	6.66	51
8-Aug-17	47.8	8	7	15	17	3	5	1,533	3.83	3.8	41.8	19.0	6.72	105
9-Aug-17	58.2	6	7	15	16	5	5	1,851	3.90	3.8	41.9	19.1	6.62	135
10-Aug-17	49.8	5	7	13	16	3	4	1,519	3.12	3.8	41.9	18.9	6.68	19
11-Aug-17	48.5	5	6	14	16	nr	4	1,644	3.71	3.8	42.6	19.0	6.65	26
12-Aug-17	46.5	6	6	nr	16	nr	4	1,623	4.11	3.9	43.1	19.1	6.65	43
13-Aug-17	46.8	4	6	nr	16	nr	4	1,643	4.14	4.0	43.8	19.0	6.65	1
14-Aug-17	50.2	5	6	nr	16	nr	4	1,454	3.75	4.0	44.2	19.0	6.64	33
15-Aug-17	48.1	6	6	17	16	3	4	1,573	3.79	4.0	44.1	19.4	6.60	184
16-Aug-17	52.2	3	6	19	16	4	4	1,764	3.74	4.0	44.4	19.4	6.64	44
17-Aug-17	48.4	5	6	14	16	3	4	1,525	3.40	4.0	44.3	19.4	6.74	8
18-Aug-17	49.0	4	6	15	16	4	4	1,716	3.67	4.0	44.2	19.5	6.64	119
19-Aug-17	45.7	4	5	18	16	5	4	1,584	4.30	4.0	44.0	19.6	6.75	21
20-Aug-17	45.8	7	5	nr	16	nr	4	1,551	4.11	4.1	44.0	19.3	6.62	1
21-Aug-17	47.6	6	5	15	16	4	4	1,779	4.18	4.1	44.1	19.2	6.60	4
22-Aug-17	46.8	6	5	17	16	4	4	1,787	5.10	4.2	44.2	19.2	6.57	6
23-Aug-17	47.8	6	5	18	16	5	4	1,749	4.95	4.3	44.5	19.2	6.60	6
24-Aug-17	48.0	8	6	21	16	5	4	1,776	4.98	4.3	44.9	19.0	6.60	20
25-Aug-17	48.2	24	6	11	16	nr	4	1,914	3.61	4.4	45.3	19.0	6.60	33
26-Aug-17	45.1	33	7	16	16	7	4	1,884	3.86	4.4	46.0	19.2	6.62	3
27-Aug-17	46.5	nr	7	nr	16	nr	4	nr	nr	4.4	46.3	19.2	6.64	44
28-Aug-17	47.9	14	7	13	16	8	4	1,922	3.83	4.5	46.4	19.3	6.51	46
29-Aug-17	47.7	14	8	8	15	5	4	1,808	2.73	4.5	46.4	19.6	6.51	50
30-Aug-17	47.2	25	8	nr	15	nr	4	1,707	3.95	4.5	46.5	19.4	6.54	31
31-Aug-17	46.9	14	9	11	15	9	4	1,819	4.72	4.5	46.7	19.4	6.51	18
Max:	58.2													
Min:	43.1													
Average:	48.0	9		15		4		1,677	3.99			19.2	6.63	
Total Flow:	1487.7													
Geo.Mean:														22

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