

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
April 2018**

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-18	46.4	7	6	12	14	6	6	1,808	4.39	4.4	41.1	13.2	6.63	10
2-Apr-18	47.0	5	6	12	14	6	6	1,838	4.41	4.4	40.9	13.5	6.55	10
3-Apr-18	45.9	6	6	13	14	6	6	1,652	4.38	4.4	41.0	13.6	6.53	50
4-Apr-18	46.8	7	6	12	14	7	6	1,792	4.51	4.5	41.2	13.8	6.56	100
5-Apr-18	47.8	6	6	12	14	6	6	1,912	5.00	4.5	41.3	13.7	6.68	30
6-Apr-18	46.9	5	6	13	14	6	6	1,918	4.46	4.5	41.3	13.5	6.60	40
7-Apr-18	48.4	6	6	13	14	7	6	2,076	5.40	4.5	41.4	13.7	6.66	30
8-Apr-18	49.9	8	6	17	14	8	6	2,102	4.90	4.5	41.5	13.5	6.57	70
9-Apr-18	49.7	9	6	17	14	8	6	1,890	4.42	4.5	41.6	13.8	6.52	120
10-Apr-18	48.6	8	6	13	14	7	6	1,876	4.42	4.5	41.6	13.9	6.57	110
11-Apr-18	52.7	8	6	14	14	8	6	1,992	4.42	4.6	41.6	14.0	6.59	80
12-Apr-18	52.5	8	6	13	14	7	6	1,916	3.85	4.5	41.6	13.7	6.53	220
13-Apr-18	50.1	13	6	12	14	8	6	1,772	3.84	4.5	41.6	13.6	6.56	100
14-Apr-18	50.7	11	6	14	14	9	6	1,993	4.32	4.6	41.7	13.7	6.63	140
15-Apr-18	53.6	10	7	15	13	8	6	2,048	4.07	4.6	41.6	13.7	6.65	190
16-Apr-18	53.2	10	7	14	13	10	6	1,916	3.71	4.5	41.5	14.0	6.56	400
17-Apr-18	54.4	5	7	15	13	9	6	1,973	3.92	4.5	41.5	13.9	6.66	30
18-Apr-18	55.3	8	7	13	13	7	6	2,067	3.75	4.5	41.5	13.9	6.63	>24,200
19-Apr-18	56.3	9	7	15	14	8	7	1,977	3.61	4.6	41.5	14.1	6.62	>24,200
20-Apr-18	54.6	9	7	12	13	6	7	1,949	3.52	4.5	41.3	13.9	6.59	>24,200
21-Apr-18	56.5	5	7	15	13	7	7	2,012	3.51	4.5	41.3	14.1	6.64	40
22-Apr-18	65.8	10	7	15	13	10	7	2,164	3.30	4.5	41.2	14.0	6.57	40
23-Apr-18	55.7	7	7	nr	13	nr	7	1,648	3.07	4.5	41.0	12.7	6.66	40
24-Apr-18	55.5	10	7	nr	13	nr	7	1,938	3.76	4.5	40.8	13.9	6.53	20
25-Apr-18	54.3	8	8	17	14	6	7	1,771	3.58	4.5	40.6	14.3	6.63	1,260
26-Apr-18	54.6	8	8	14	14	6	7	1,922	3.88	4.5	40.5	13.8	6.60	10
27-Apr-18	54.2	10	8	15	14	6	7	1,898	3.92	4.5	40.8	13.8	6.65	10
28-Apr-18	55.7	10	8	16	14	11	7	1,905	3.83	4.5	41.0	14.0	6.72	50
29-Apr-18	57.6	12	8	10	14	nr	7	1,970	3.71	4.5	40.9	13.9	6.63	130
30-Apr-18	58.4	11	8	14	14	9	7	1,955	3.51	4.5	40.7	14.9	6.60	70
Max:	65.8													
Min:	45.9													
Average:	52.6	8		14		7		1,922	4.05			13.8	6.60	
Total Flow:	1579.0													
Geo.Mean:														108

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