

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
November 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
1-Nov-17	49.1	6	10	12	11	5	6	1,908	4.54	4.7	49.4	17.9	6.67	10
2-Nov-17	48.7	6	9	13	11	7	6	1,815	4.32	4.7	49.5	18.1	6.71	<10
3-Nov-17	48.4	7	9	11	11	5	6	1,905	4.23	4.7	49.5	17.9	6.64	50
4-Nov-17	49.1	7	9	10	11	6	6	1,998	4.58	4.7	49.6	17.8	6.72	<10
5-Nov-17	52.4	6	9	18	11	11	6	2,121	4.47	4.7	49.6	17.9	6.78	20
6-Nov-17	50.5	8	9	20	11	6	6	1,963	4.27	4.7	49.6	17.9	6.61	<10
7-Nov-17	48.2	8	9	13	11	7	6	1,912	4.36	4.7	49.8	17.7	6.60	90
8-Nov-17	45.8	5	8	13	12	6	6	1,889	4.13	4.7	49.8	17.5	6.65	30
9-Nov-17	44.5	18	8	10	12	5	6	1,784	4.48	4.8	50.0	17.6	6.62	20
10-Nov-17	45.5	6	8	11	12	6	6	1,877	4.66	4.8	50.0	17.1	6.64	10
11-Nov-17	45.7	8	8	12	12	6	6	1,893	4.59	4.8	50.1	17.4	6.73	<10
12-Nov-17	45.7	8	8	12	12	7	6	1,815	4.34	4.8	50.3	17.3	6.69	30
13-Nov-17	45.9	9	8	10	12	5	6	1,771	4.23	4.8	50.3	17.6	6.69	50
14-Nov-17	44.9	7	8	10	12	6	6	1,791	4.29	4.9	50.5	17.6	6.61	40
15-Nov-17	44.3	5	8	10	12	6	6	1,795	4.42	4.9	50.8	17.6	6.61	20
16-Nov-17	44.1	13	8	11	12	6	6	1,844	4.59	4.9	51.1	17.3	6.64	80
17-Nov-17	44.5	5	8	10	12	5	6	1,841	4.20	4.9	51.5	17.4	6.63	10
18-Nov-17	45.9	9	8	11	12	6	6	1,776	4.10	4.9	51.6	17.0	6.79	nr
19-Nov-17	46.8	11	8	7	12	nr	6	1,860	4.19	4.9	51.6	17.1	6.68	40
20-Nov-17	44.8	10	8	11	12	7	6	1,810	4.24	4.9	51.5	17.5	6.54	50
21-Nov-17	44.4	6	8	10	12	6	6	1,918	4.56	4.9	51.5	17.2	6.60	10
22-Nov-17	45.7	9	8	11	12	6	6	1,847	4.59	4.9	51.7	17.0	6.61	<10
23-Nov-17	45.1	5	8	11	12	5	6	1,916	4.57	4.9	51.7	17.2	6.61	160
24-Nov-17	44.8	<3	8	8	12	nr	6	1,926	4.61	5.0	51.8	17.3	6.70	<10
25-Nov-17	45.9	6	8	9	11	5	6	1,924	4.45	5.0	51.9	16.8	6.70	190
26-Nov-17	46.4	11	8	11	11	5	6	1,925	4.45	5.1	52.0	16.8	6.60	10
27-Nov-17	46.5	8	8	7	11	5	6	1,897	4.31	5.1	51.9	17.1	6.55	20
28-Nov-17	45.8	9	8	8	11	5	6	1,856	4.22	5.1	52.0	17.1	6.64	10
29-Nov-17	44.9	10	8	8	11	4	6	1,881	4.40	5.1	51.9	17.0	6.67	10
30-Nov-17	43.8	8	8	8	11	4	6	1,884	4.69	5.1	51.9	17.1	6.56	<10
Max:	52.4													
Min:	43.8													
Average:	46.3	8		11		6		1,878	4.40			17.4	6.65	
Total Flow:	1388.0													
Geo.Mean:														18

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