

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
December 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-Dec-18	46.2	6	9	17	18	5	6	1,891	4.45	4.2	47.8	15.4	6.68	10
2-Dec-18	47.1	5	9	18	18	6	6	1,854	4.45	4.2	47.9	15.5	6.61	10
3-Dec-18	42.2	6	9	14	18	4	6	1,646	3.57	4.2	48.1	16.1	6.58	50
4-Dec-18	49.7	6	9	13	18	5	6	1,962	4.37	4.3	48.4	15.5	6.55	<10
5-Dec-18	47.1	5	9	18	18	4	6	1,932	4.35	4.3	48.7	15.3	6.60	20
6-Dec-18	45.8	4	9	19	18	5	6	1,838	4.24	4.4	48.8	15.4	6.67	<10
7-Dec-18	50.4	5	9	18	18	4	6	2,029	4.12	4.4	49.1	14.4	6.61	20
8-Dec-18	47.2	7	9	nr	18	nr	6	1,902	4.62	4.4	49.3	15.2	6.57	10
9-Dec-18	47.8	10	9	nr	17	nr	6	1,938	4.58	4.5	49.6	15.0	6.58	10
10-Dec-18	42.7	4	9	nr	17	nr	5	1,656	3.43	4.4	49.5	15.1	6.53	<10
11-Dec-18	46.2	5	9	12	16	4	5	1,891	3.63	4.4	49.6	15.1	6.65	<10
12-Dec-18	47.6	5	9	14	16	5	5	1,957	3.63	4.4	49.6	15.3	6.64	<10
13-Dec-18	45.2	4	8	14	16	4	5	1,916	3.73	4.4	49.9	15.3	6.59	<10
14-Dec-18	49.1	6	8	14	16	5	5	1,963	3.96	4.4	50.1	15.3	6.62	10
15-Dec-18	47.2	6	8	15	16	4	5	2,011	4.29	4.4	50.3	15.4	6.55	<10
16-Dec-18	47.4	12	9	17	16	6	5	1,654	3.60	4.5	50.4	15.2	6.51	20
17-Dec-18	42.3	5	8	12	15	4	5	1,646	3.13	4.4	50.4	15.1	6.54	10
18-Dec-18	46.0	6	7	15	15	4	4	1,801	3.63	4.3	50.3	14.9	6.58	20
19-Dec-18	45.1	6	7	11	14	5	4	1,761	3.38	4.3	50.5	15.2	6.60	10
20-Dec-18	46.3	6	7	19	14	4	4	1,736	3.37	4.3	50.5	15.0	6.56	20
21-Dec-18	46.9	3	7	16	14	4	4	1,943	4.27	4.4	50.4	14.9	6.61	<10
22-Dec-18	44.8	5	7	18	14	5	4	1,794	4.45	4.4	50.4	15.3	6.48	20
23-Dec-18	43.9	5	7	16	14	3	4	1,863	4.30	4.4	50.5	15.1	6.58	<10
24-Dec-18	46.1	5	6	nr	14	nr	4	1,828	3.94	4.4	50.6	14.9	6.51	10
25-Dec-18	40.4	6	6	14	13	3	4	1,703	3.88	4.4	51.0	16.1	6.58	<10
26-Dec-18	40.8	6	6	nr	13	nr	4	1,775	3.94	4.4	51.4	14.9	6.52	20
27-Dec-18	42.8	6	6	nr	12	nr	3	1,936	3.65	4.3	51.8	14.3	6.52	20
28-Dec-18	43.5	7	6	nr	11	nr	3	1,805	3.54	4.3	52.1	14.7	6.68	<10
29-Dec-18	43.1	6	6	13	11	4	3	1,737	3.36	4.3	52.4	15.8	6.56	10
30-Dec-18	42.8	6	6	19	11	6	3	1,736	3.33	4.3	52.5	14.5	6.52	<10
31-Dec-18	45.0	5	6	14	11	4	3	1,886	3.10	4.2	52.7	14.6	6.59	<10
Max:	50.4													
Min:	40.4													
Average:	45.4	6		15		4		1,838	3.88			15.2	6.58	
Total Flow:	1408.6													
Geo.Mean:														9

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