

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
December 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-Dec-17	44.2	7	8	7	11	4	6	1,959	4.77	5.1	51.9	17.1	6.62	10
2-Dec-17	45.4	10	8	10	11	5	6	2,016	4.96	5.1	52.0	17.1	6.78	<10
3-Dec-17	46.4	12	8	11	11	8	6	1,918	4.57	5.1	52.1	17.0	6.67	10
4-Dec-17	44.3	11	8	12	11	9	6	1,790	4.32	5.1	52.2	17.0	6.53	40
5-Dec-17	47.9	11	8	11	10	7	6	1,968	4.40	5.1	52.2	16.7	6.56	40
6-Dec-17	44.5	10	9	10	10	6	6	1,774	3.98	5.1	52.3	16.6	6.56	150
7-Dec-17	44.3	8	9	8	10	5	6	1,805	4.21	5.1	52.3	nr	6.58	120
8-Dec-17	44.9	9	9	nr	10	nr	6	1,970	4.30	5.1	52.3	16.6	6.57	10
9-Dec-17	45.3	11	8	12	10	8	6	2,020	4.57	5.1	52.3	16.2	6.67	10
10-Dec-17	45.8	8	9	12	10	8	6	2,049	4.43	5.0	52.3	16.5	nr	130
11-Dec-17	43.9	12	9	nr	10	nr	6	1,694	4.12	5.0	52.2	16.7	6.52	140
12-Dec-17	43.5	10	9	7	10	6	6	1,808	4.47	5.0	51.9	16.5	6.64	40
13-Dec-17	42.8	10	9	10	10	7	6	1,803	4.44	5.0	51.9	16.5	6.57	100
14-Dec-17	43.4	11	9	8	10	7	6	1,792	4.54	5.0	51.8	16.5	6.61	220
15-Dec-17	43.7	8	9	9	10	7	6	1,848	4.33	4.9	51.7	16.1	6.56	10
16-Dec-17	44.4	11	9	10	10	7	6	1,745	4.18	4.9	51.4	15.8	6.70	<10
17-Dec-17	45.7	11	9	12	10	9	6	1,909	4.31	4.9	51.0	16.0	6.62	60
18-Dec-17	43.9	9	9	nr	10	nr	6	1,778	4.13	4.9	50.7	14.6	6.59	180
19-Dec-17	43.5	8	9	10	10	7	6	1,766	4.19	4.8	50.4	16.5	6.54	20
20-Dec-17	44.1	8	9	9	10	7	6	1,819	4.78	4.9	50.4	16.1	6.57	nr
21-Dec-17	44.2	8	9	9	10	7	6	1,819	4.34	4.9	50.4	15.7	6.59	<10
22-Dec-17	44.6	8	9	10	10	8	6	1,801	4.36	4.8	50.3	15.8	6.70	<10
23-Dec-17	45.1	9	9	13	10	9	7	1,812	4.37	4.8	50.2	15.8	6.59	10
24-Dec-17	44.9	12	9	13	10	10	7	1,723	4.08	4.8	50.1	15.8	6.66	20
25-Dec-17	42.0	10	10	11	10	7	7	1,735	4.01	4.8	50.2	15.4	6.59	10
26-Dec-17	42.6	7	9	13	10	8	7	1,907	4.00	4.8	50.4	14.5	6.58	10
27-Dec-17	42.8	11	10	14	10	9	7	1,857	4.20	4.8	50.7	14.3	6.59	110
28-Dec-17	42.9	18	10	>20	11	16	7	1,773	4.25	4.8	50.8	15.6	6.59	130
29-Dec-17	43.2	9	10	14	11	10	8	1,871	4.05	4.8	50.8	15.1	6.68	640
30-Dec-17	42.8	9	10	12	11	9	8	1,741	4.25	4.8	50.8	14.3	6.84	<10
31-Dec-17	43.9	12	10	15	11	12	8	1,886	4.39	4.8	50.8	14.2	6.60	60
Max:	47.9													
Min:	42.0													
Average:	44.2	10		11		8		1,844	4.33			16.0	6.62	
Total Flow:	1370.6													
Geo.Mean:														31

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