

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
December 2016

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-16	60.4	4	7	24	23	5	5	1,678	2.34	3.8	38.4	16.1	6.65	43
2-Dec-16	57.9	7	7	20	22	4	5	1,761	2.95	3.8	38.5	16.2	6.87	14
3-Dec-16	56.7	6	7	25	23	5	5	1,742	3.28	3.8	38.4	15.8	6.79	7
4-Dec-16	56.5	7	8	25	23	6	5	1,711	3.01	3.8	38.3	16.1	6.79	23
5-Dec-16	57.4	9	8	36	23	4	5	1,698	2.91	3.8	38.2	16.4	6.63	240
6-Dec-16	53.3	7	7	16	22	4	5	1,656	2.86	3.8	37.9	ns	ns	ns
7-Dec-16	51.7	7	7	23	22	5	5	1,454	2.83	3.8	37.7	16.0	6.94	23
8-Dec-16	51.9	7	7	24	22	5	5	1,701	3.32	3.8	37.5	15.9	6.75	9
9-Dec-16	52.2	7	7	22	22	5	5	1,743	3.47	3.8	37.4	15.5	6.76	240
10-Dec-16	53.2	11	7	23	22	10	5	1,819	3.52	3.8	37.3	15.0	6.77	93
11-Dec-16	53.6	10	7	28	22	9	5	1,812	3.38	3.8	37.1	15.9	6.76	240
12-Dec-16	51.8	10	7	21	22	7	5	1,667	3.29	3.8	37.0	15.7	6.88	240
13-Dec-16	51.2	10	7	17	22	8	5	1,673	2.75	3.8	37.1	16.0	6.78	430
14-Dec-16	49.5	11	8	nr	22	nr	5	1,694	2.65	3.7	36.9	15.9	6.73	150
15-Dec-16	49.7	7	7	nr	22	nr	5	1,611	2.89	3.7	37.0	15.8	6.87	160
16-Dec-16	50.4	8	8	13	21	7	5	1,740	3.10	3.7	37.1	15.8	6.78	430
17-Dec-16	50.3	10	8	17	21	7	5	1,880	3.65	3.7	37.2	15.2	6.70	43
18-Dec-16	50.5	10	8	20	21	6	6	1,874	3.61	3.7	37.3	15.1	6.81	75
19-Dec-16	48.4	11	8	20	21	10	6	1,757	3.27	3.7	37.6	16.0	6.86	200
20-Dec-16	48.2	8	8	17	21	10	6	1,716	3.29	3.6	37.7	16.3	6.81	93
21-Dec-16	48.4	9	8	17	21	8	6	1,707	3.36	3.6	38.0	16.1	6.78	72
22-Dec-16	48.5	4	8	22	21	9	6	1,648	3.52	3.6	38.1	16.2	6.88	15
23-Dec-16	49.1	7	8	14	21	5	6	1,737	3.34	3.6	38.4	15.8	6.64	15
24-Dec-16	49.3	8	8	17	21	7	6	1,636	3.35	3.6	38.5	15.5	6.67	23
25-Dec-16	43.6	9	8	19	21	6	6	1,667	3.48	3.7	38.6	15.9	6.50	9
26-Dec-16	43.3	8	8	13	20	5	6	1,804	3.78	3.7	38.7	15.4	6.66	9
27-Dec-16	46.0	12	8	15	20	6	6	1,928	3.69	3.7	39.2	15.1	6.65	240
28-Dec-16	45.9	9	8	19	20	8	6	1,686	3.43	3.7	39.6	15.6	6.83	43
29-Dec-16	45.2	9	8	26	21	9	7	1,798	3.64	3.7	40.3	15.8	6.63	23
30-Dec-16	45.8	10	8	17	20	6	7	1,785	3.54	3.8	41.0	14.7	6.78	43
31-Dec-16	47.0	6	8	19	20	7	7	1,681	3.66	3.8	41.4	15.5	6.62	23
Max:	57.9													
Min:	43.3													
Average:	50.5	8		20		7		1,725	3.26			16	6.75	
Total Flow:	1566.6													
Geo.Mean:														54

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