

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

June 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-Jun-16	123.4	22	8	29	22	17	7	1,790	1.35	3.3	38.8	14.7	7.16	(9,300)
2-Jun-16	98.4	8	8	nr	22	nr	7	1,781	1.55	3.3	38.0	14.9	7.12	(93)
3-Jun-16	84.7	8	8	14	22	4	7	1,693	1.73	3.2	37.3	15.2	7.04	930
4-Jun-16	73.6	<3	8	18	22	4	7	1,663	2.03	3.2	36.8	15.8	6.93	93
5-Jun-16	71.3	8	8	11	21	5	6	1,619	2.29	3.2	36.3	16.1	7.12	23
6-Jun-16	68.6	6	8	22	21	5	6	1,673	2.42	3.1	36.2	15.8	6.84	93
7-Jun-16	65.3	14	8	14	21	5	6	1,686	2.65	3.1	36.1	15.9	6.89	4
8-Jun-16	63.4	7	8	29	21	nr	6	1,782	2.73	3.1	35.7	16.1	6.90	15
9-Jun-16	62.7	10	8	21	21	5	6	1,687	2.68	3.1	35.4	16.4	7.13	23
10-Jun-16	64.4	6	8	18	21	6	6	1,592	2.61	3.1	35.4	16.8	6.83	43
11-Jun-16	58.2	10	9	20	21	6	6	1,496	2.69	3.1	35.0	17.1	6.77	43
12-Jun-16	71.5	12	9	28	21	12	7	1,751	2.69	3.1	34.8	16.8	6.92	720
13-Jun-16	63.8	10	9	28	22	8	7	1,558	2.20	3.0	34.4	16.2	6.83	4,300
14-Jun-16	59.5	14	9	15	21	13	7	1,850	2.74	3.0	34.7	17.8	6.83	4,300
15-Jun-16	57.2	10	9	12	21	10	7	1,841	2.93	3.0	35.0	16.9	6.78	150
16-Jun-16	56.7	13	9	25	21	11	8	1,780	3.34	3.0	35.4	17.2	8.15	(4,300)
17-Jun-16	128.6	46	11	37	21	nr	8	1,967	1.59	2.9	34.8	17.0	7.00	(>110,000)
18-Jun-16	85.3	13	11	nr	21	nr	8	1,553	1.58	2.9	34.3	15.5	7.02	240
19-Jun-16	126.0	16	12	20	21	14	8	1,663	1.29	2.8	33.7	16.6	7.20	(15,000)
20-Jun-16	94.4	8	12	14	20	7	8	1,651	1.57	2.7	33.2	16.9	7.13	(43)
21-Jun-16	82.4	8	12	15	20	7	8	1,640	1.80	2.7	33.1	16.6	7.02	(430)
22-Jun-16	73.1	5	12	17	20	6	8	1,703	2.07	2.7	33.2	16.9	7.01	430
23-Jun-16	69.9	6	12	14	20	4	8	1,622	2.44	2.7	33.0	17.3	6.97	240
24-Jun-16	68.2	23	11	27	20	16	8	1,418	2.30	2.7	32.8	17.6	6.88	43
25-Jun-16	130.6	14	12	21	20	12	8	1,345	1.05	2.7	32.7	17.3	7.06	(24,000)
26-Jun-16	110.9	18	12	24	20	15	9	1,586	1.36	2.6	32.5	16.6	7.08	(15)
27-Jun-16	95.9	6	12	12	20	5	9	1,601	1.38	2.6	32.2	16.5	7.15	43
28-Jun-16	81.2	11	12	13	20	4	9	1,633	1.79	2.6	31.8	16.8	7.02	43
29-Jun-16	74.3	4	12	20	20	nr	9	1,568	1.92	2.5	31.5	17.4	7.02	150
30-Jun-16	69.4	3	11	18	20	4	8	1,595	2.17	2.5	31.4	17.2	6.92	7
Max:	130.6													
Min:	56.7													
Average:	81.1	11		20		8		1,659	2.10			17	7.02	
Total Flow:	2432.7													
Geo.Mean:														103

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