

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
August 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
Date	Raw Sewage Daily Flow ML**													
1-Aug-16	90.9	51	10	60	23	32	7	1,781	2.42	3.2	34.7	19.2	6.78	4
2-Aug-16	81.1	7	10	8	23	4	7	1,492	1.65	3.2	34.4	18.6	7.11	43
3-Aug-16	64.7	9	10	15	22	5	7	1,611	2.47	3.2	34.2	18.7	6.91	240
4-Aug-16	68.7	7	10	16	22	7	7	1,608	2.45	3.2	34.1	18.8	6.87	43
5-Aug-16	61.5	8	10	17	22	5	7	1,458	2.50	3.2	33.8	18.9	6.81	9
6-Aug-16	57.1	9	10	22	22	5	7	1,508	3.10	3.2	33.6	19.4	6.78	28
7-Aug-16	55.6	8	10	18	21	5	7	1,517	3.40	3.2	33.4	18.8	6.77	43
8-Aug-16	56.7	9	10	20	21	6	7	1,531	3.19	3.2	33.3	18.7	6.76	2,400
9-Aug-16	55.6	11	10	21	21	5	7	1,567	3.40	3.2	33.2	19.0	6.76	29
10-Aug-16	53.5	8	10	21	21	4	7	1,562	3.23	3.2	33.3	18.9	6.74	9
11-Aug-16	54.1	7	9	15	20	4	6	1,667	3.71	3.2	33.7	19.4	6.74	15
12-Aug-16	53.2	6	9	14	20	3	6	1,607	3.11	3.3	34.2	19.5	6.69	4
13-Aug-16	49.2	5	9	16	20	4	6	1,530	3.54	3.4	34.5	19.8	6.69	<3
14-Aug-16	49.3	6	9	18	20	4	6	1,549	3.49	3.4	34.6	19.1	6.73	<3
15-Aug-16	58.1	13	9	22	21	6	6	1,755	3.26	3.4	34.5	19.3	6.70	4
16-Aug-16	66.2	7	9	16	21	6	6	1,621	2.33	3.4	34.5	19.7	6.68	93
17-Aug-16	54.5	8	9	17	21	5	6	1,443	2.45	3.4	34.7	19.9	6.70	9
18-Aug-16	83.7	11	9	17	21	7	6	1,717	2.14	3.4	34.6	19.9	6.87	93
19-Aug-16	58.2	4	9	12	20	4	6	1,589	2.46	3.4	34.6	19.7	6.78	43
20-Aug-16	53.8	8	9	18	20	5	6	1,598	3.20	3.4	34.5	19.1	6.75	4
21-Aug-16	52.0	8	9	25	21	5	6	1,529	3.38	3.4	34.9	19.1	6.86	430
22-Aug-16	53.6	8	9	31	21	5	6	1,608	3.50	3.4	35.4	19.3	6.70	4
23-Aug-16	53.5	10	9	29	21	6	6	1,550	3.29	3.5	35.9	19.6	6.78	93
24-Aug-16	52.2	7	9	26	21	6	6	1,581	3.64	3.5	36.4	19.6	6.70	9
25-Aug-16	57.3	7	9	27	21	6	6	1,587	3.43	3.5	36.8	19.4	6.69	21
26-Aug-16	52.4	8	9	21	21	5	6	1,477	3.15	3.5	37.1	19.5	6.71	9
27-Aug-16	48.6	6	9	19	21	4	6	1,447	3.35	3.5	37.3	19.0	6.70	4
28-Aug-16	49.8	8	9	30	21	5	6	1,565	3.62	3.5	38.2	19.4	6.69	4
29-Aug-16	51.2	7	9	21	21	4	6	1,546	3.61	3.5	38.5	19.6	6.67	7
30-Aug-16	49.8	6	9	25	21	5	6	1,512	3.87	3.5	38.7	19.5	6.67	14
31-Aug-16	49.9	6	8	27	20	5	5	1,673	3.49	3.6	39.3	19.8	6.64	4
Max:	83.7													
Min:	48.6													
Average:	57.9	9		21		6		1,574	3.09			19	6.76	
Total Flow:	1796.0													
Geo.Mean:														17

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