

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
October 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-Oct-17	57.2	23	16	21	15	13	10	2,174	6.04	4.8	45.4	19.1	6.70	22
2-Oct-17	52.9	16	16	16	15	11	10	1,777	3.34	4.8	45.2	19.1	6.53	435
3-Oct-17	50.9	13	16	13	15	9	10	1,969	3.84	4.8	45.1	19.0	6.55	62
4-Oct-17	50.6	10	16	13	15	7	10	2,020	3.95	4.7	45.1	18.9	6.62	32
5-Oct-17	49.7	16	15	13	15	10	10	1,965	4.68	4.7	45.3	18.9	6.57	46
6-Oct-17	51.3	ns	15	ns	15	ns	10	ns	ns	4.8	45.2	18.9	6.68	32
7-Oct-17	50.3	16	16	13	15	9	10	1,976	4.13	4.8	45.2	18.5	6.60	10
8-Oct-17	51.2	10	15	10	15	7	10	1,915	3.68	4.7	45.1	18.8	6.64	14
9-Oct-17	50.9	14	15	11	14	9	9	2,081	4.05	4.7	45.1	19.0	6.65	6
10-Oct-17	49.4	10	15	10	14	8	9	1,964	3.64	4.6	45.1	18.6	6.62	54
11-Oct-17	48.7	13	14	10	14	6	9	2,050	3.95	4.6	45.3	18.7	6.61	687
12-Oct-17	48.3	7	14	9	14	6	9	2,036	4.38	4.6	45.5	18.8	6.64	47
13-Oct-17	48.6	8	14	9	14	6	9	2,122	4.26	4.6	45.7	18.8	6.67	770
14-Oct-17	51.4	12	14	8	14	5	9	2,186	4.59	4.6	45.6	18.4	6.68	10
15-Oct-17	51.3	12	14	10	14	6	9	2,140	4.46	4.6	45.5	18.2	6.76	13
16-Oct-17	50.5	8	14	nr	14	nr	9	2,074	4.12	4.6	45.5	18.6	6.56	44
17-Oct-17	49.5	7	14	8	14	6	9	2,090	4.29	4.6	45.8	18.6	6.59	29
18-Oct-17	48.6	8	14	12	14	5	9	1,915	4.17	4.6	46.0	18.6	6.60	26
19-Oct-17	47.9	9	14	10	14	5	9	2,011	4.49	4.6	46.2	18.6	6.68	50
20-Oct-17	48.1	9	13	9	13	5	9	1,977	4.46	4.6	46.6	18.6	6.70	10
21-Oct-17	49.2	8	13	10	13	7	8	2,027	4.53	4.6	46.8	19.1	6.68	20
22-Oct-17	49.9	10	13	12	12	7	8	2,002	4.33	4.6	47.1	18.8	6.66	30
23-Oct-17	48.2	9	13	nr	12	nr	8	1,931	3.92	4.6	47.5	18.6	6.59	70
24-Oct-17	47.2	11	11	8	11	5	7	1,865	3.75	4.7	48.3	18.6	6.63	30
25-Oct-17	47.3	8	11	14	11	6	7	1,893	3.95	4.8	49.1	18.6	6.66	10
26-Oct-17	65.3	6	11	13	12	6	7	2,227	3.17	4.8	49.0	18.2	6.68	30
27-Oct-17	51.9	7	11	12	12	5	7	1,749	3.25	4.8	49.0	17.5	6.68	<10
28-Oct-17	52.4	7	11	11	12	5	7	1,898	3.76	4.8	48.9	17.7	6.78	<10
29-Oct-17	52.5	9	11	12	12	6	7	1,891	3.87	4.8	48.8	18.1	6.69	10
30-Oct-17	51.8	ns	11	ns	11	ns	7	ns	ns	4.8	48.9	17.8	6.62	10
31-Oct-17	48.6	7	10	14	11	6	7	1,928	3.91	4.7	49.0	17.8	6.62	50
Max:	65.3													
Min:	47.2													
Average:	50.7	10		12		7		1,995	4.10			18.6	6.64	
Total Flow:	1571.4													
Geo.Mean:														29

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