

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
September 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-Sep-17	46.3	12	9	10	15	7	5	1,857	4.46	4.6	47.0	19.3	6.59	25
2-Sep-17	44.7	14	9	10	14	8	5	1,813	4.23	4.6	47.3	19.4	6.64	12
3-Sep-17	42.7	15	10	10	14	8	5	1,675	4.15	4.6	47.5	19.4	6.58	14
4-Sep-17	48.4	23	10	20	14	15	6	1,963	5.72	4.7	47.9	19.3	6.58	5
5-Sep-17	47.4	18	11	16	15	11	6	1,802	3.07	4.7	48.1	19.0	6.63	816
6-Sep-17	47.4	18	11	10	14	7	6	1,958	3.16	4.7	48.4	19.2	6.64	82
7-Sep-17	47.0	11	11	12	14	9	6	1,980	4.24	4.8	48.7	19.3	6.63	231
8-Sep-17	46.6	19	12	13	14	10	7	1,987	5.09	4.8	48.8	19.3	6.59	67
9-Sep-17	46.4	23	12	17	14	13	7	1,908	4.90	4.9	49.0	19.5	6.63	517
10-Sep-17	48.3	16	13	15	14	12	7	2,091	4.78	5.0	49.0	20.4	6.66	107
11-Sep-17	48.1	22	13	12	14	10	7	1,957	4.31	5.0	48.7	19.7	6.53	112
12-Sep-17	47.3	12	13	11	14	8	7	2,065	4.16	5.0	48.5	19.7	6.57	91
13-Sep-17	47.3	12	14	12	14	8	7	2,043	3.83	5.0	48.3	19.8	6.61	32
14-Sep-17	47.0	13	14	12	14	8	8	2,133	4.00	5.0	48.6	19.6	6.56	28
15-Sep-17	47.6	11	14	14	14	9	8	2,121	4.56	5.1	48.8	19.4	6.57	68
16-Sep-17	57.3	12	14	14	14	11	8	2,148	3.46	5.1	48.8	18.8	6.67	53
17-Sep-17	55.6	12	15	11	14	7	8	2,086	3.59	5.1	48.6	16.6	6.61	6
18-Sep-17	49.5	12	15	12	13	7	8	1,877	3.75	5.1	48.3	19.0	6.56	70
19-Sep-17	47.6	10	15	12	13	7	8	1,942	4.48	5.1	48.1	19.4	6.59	88
20-Sep-17	55.0	14	15	17	13	7	8	2,111	4.07	5.1	47.8	19.3	6.66	155
21-Sep-17	48.2	17	16	25	14	11	9	1,913	4.41	5.1	47.6	19.4	6.58	144
22-Sep-17	51.4	17	16	19	14	12	9	1,975	5.11	5.1	47.2	19.6	6.56	219
23-Sep-17	61.7	15	16	15	14	9	9	1,907	2.27	5.0	46.6	18.7	6.62	613
24-Sep-17	88.4	58	17	>37	14	36	10	2,220	2.71	5.0	45.6	18.9	6.55	55
25-Sep-17	66.0	10	17	10	14	7	10	1,710	0.97	4.9	44.7	18.3	6.67	64
26-Sep-17	63.5	10	16	11	14	7	10	1,835	2.28	4.8	44.8	18.8	6.74	54
27-Sep-17	58.9	12	16	10	14	5	10	1,809	2.68	4.8	44.8	18.5	6.72	12
28-Sep-17	54.3	9	16	12	14	6	10	1,878	3.68	4.8	45.2	18.9	6.78	3
29-Sep-17	52.9	9	16	12	14	5	10	1,963	4.05	4.8	45.5	18.9	6.67	32
30-Sep-17	52.2	12	16	15	14	8	10	1,984	5.61	4.8	45.5	18.8	6.70	24
Max:	88.4													
Min:	42.7													
Average:	52.2	16		14		10		1,957	3.93			19.1	6.62	
Total Flow:	1565.1													
Geo.Mean:														56

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