

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
March 2019**

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-Mar-19	49.0	7	9	9	9	8	6	1,907	2.23	4.3	53.3	12.7	6.65	20
2-Mar-19	50.5	10	9	11	9	7	6	1,954	2.75	4.2	52.9	13.1	6.70	40
3-Mar-19	51.6	12	9	13	10	11	7	2,049	2.96	4.2	52.8	12.4	6.58	1,020
4-Mar-19	48.0	7	9	12	10	9	7	1,776	2.30	4.2	52.5	12.7	6.62	<10
5-Mar-19	43.8	9	9	10	10	10	7	1,797	2.91	4.1	52.2	13.0	6.56	20
6-Mar-19	44.0	9	9	10	10	8	7	1,804	3.72	4.2	52.3	13.2	6.63	30
7-Mar-19	44.0	10	9	10	10	8	7	1,878	3.46	4.2	52.1	13.3	6.61	60
8-Mar-19	44.1	7	9	9	10	7	7	1,890	3.40	4.2	51.9	13.5	6.65	10
9-Mar-19	45.2	10	9	9	10	7	7	2,010	3.53	4.2	51.8	12.9	6.62	<10
10-Mar-19	44.2	9	9	11	10	9	7	1,876	3.14	4.1	51.7	13.4	6.58	30
11-Mar-19	45.5	12	9	14	10	11	8	1,841	2.85	4.1	51.4	13.4	6.56	<10
12-Mar-19	44.3	9	9	8	10	6	8	1,828	3.40	4.1	51.2	13.4	6.61	10
13-Mar-19	44.6	16	9	10	10	7	8	1,863	3.39	4.1	51.1	13.4	6.60	<10
14-Mar-19	45.2	11	9	8	10	5	7	1,937	3.74	4.1	51.1	13.4	6.69	40
15-Mar-19	45.6	13	9	8	10	6	7	1,877	3.34	4.1	51.0	13.2	6.63	<10
16-Mar-19	46.3	11	9	7	10	5	7	2,001	4.03	4.1	51.0	13.4	6.65	<10
17-Mar-19	48.3	6	9	7	9	5	7	2,015	4.08	4.1	51.0	13.2	6.58	20
18-Mar-19	46.3	10	9	8	9	4	7	1,853	3.09	4.1	50.9	13.5	6.56	<10
19-Mar-19	49.2	12	9	6	9	4	7	1,939	3.23	4.0	50.9	13.1	6.62	10
20-Mar-19	59.0	7	9	9	9	7	7	2,170	3.34	4.0	50.8	13.3	6.70	20
21-Mar-19	66.9	17	9	22	10	10	7	2,019	2.70	4.0	50.5	12.3	6.63	<10
22-Mar-19	72.0	13	9	9	10	8	7	2,001	2.96	3.9	50.0	11.7	6.69	30
23-Mar-19	68.2	10	9	14	10	11	7	1,834	2.65	3.9	49.3	13.7	6.70	<10
24-Mar-19	61.6	8	10	12	10	7	8	1,725	2.49	3.8	48.8	11.0	6.72	nr
25-Mar-19	51.0	11	10	11	10	8	8	1,673	2.16	3.8	48.3	12.5	6.58	20
26-Mar-19	47.7	7	10	8	10	6	8	1,607	1.88	3.7	47.9	12.3	6.60	<10
27-Mar-19	67.9	19	10	17	10	12	8	2,233	3.02	3.7	47.4	12.9	6.63	10
28-Mar-19	72.6	10	10	11	11	7	8	1,866	2.31	3.6	47.1	11.0	6.77	60
29-Mar-19	56.7	4	10	6	10	5	8	1,690	1.80	3.6	46.9	11.5	6.65	30
30-Mar-19	54.7	9	10	8	10	5	7	1,880	2.72	3.5	46.8	11.9	6.63	<10
31-Mar-19	56.6	9	10	10	10	5	7	1,993	3.18	3.5	46.5	12.4	6.59	10
Max:	72.6													
Min:	43.8													
Average:	52.1	10		10		7		1,896	2.99			12.8	6.63	
Total Flow:	1614.3													
Geo.Mean:														15

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