

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
February 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-Feb-19	43.3	16	10	nr	15	nr	5	1,820	3.15	3.8	53.5	14.0	6.60	40
2-Feb-19	44.4	8	9	nr	15	nr	5	1,843	3.64	3.8	53.6	14.4	6.62	30
3-Feb-19	45.4	13	10	nr	15	nr	5	1,784	4.02	3.8	53.7	14.3	6.57	30
4-Feb-19	43.2	10	10	nr	15	nr	5	1,657	2.90	3.8	53.6	14.4	6.57	20
5-Feb-19	42.7	8	9	nr	15	nr	5	1,758	3.43	3.8	53.7	14.1	6.58	80
6-Feb-19	42.2	7	9	nr	15	nr	5	1,766	3.29	3.9	53.9	14.0	6.66	10
7-Feb-19	42.6	4	9	nr	15	nr	5	1,834	4.00	3.9	53.9	13.9	6.61	10
8-Feb-19	43.0	7	9	nr	15	nr	5	1,786	4.13	4.0	54.1	14.0	6.71	20
9-Feb-19	43.9	6	9	nr	15	nr	5	1,877	4.46	4.0	54.2	13.6	6.69	10
10-Feb-19	45.3	11	10	nr	15	nr	5	1,829	4.14	4.1	54.3	13.7	6.61	<10
11-Feb-19	43.6	24	10	nr	15	nr	5	1,753	3.69	4.1	54.3	14.1	6.59	40
12-Feb-19	42.2	16	10	nr	16	nr	5	1,638	3.65	4.1	54.5	14.3	6.56	700
13-Feb-19	42.9	7	10	nr	17	nr	6	1,880	3.57	4.1	54.7	14.1	6.60	350
14-Feb-19	42.8	8	10	nr	16	nr	6	1,822	4.12	4.1	54.8	13.9	6.61	60
15-Feb-19	43.1	8	10	12	16	5	6	1,893	4.05	4.2	54.8	13.7	6.62	10
16-Feb-19	44.1	8	10	nr	15	nr	6	1,884	3.83	4.2	54.9	14.1	6.71	30
17-Feb-19	43.1	8	10	nr	15	nr	6	1,836	3.80	4.2	54.8	13.5	6.58	10
18-Feb-19	44.1	10	10	nr	15	nr	6	1,790	3.54	4.2	54.6	13.6	6.64	<10
19-Feb-19	42.8	9	10	nr	15	nr	6	nr	3.41	4.2	54.4	13.7	6.64	<10
20-Feb-19	42.4	9	10	11	13	6	6	nr	nr	4.2	54.4	14.0	6.56	10
21-Feb-19	44.3	7	10	8	12	5	6	1,940	4.15	4.3	54.4	13.9	6.58	<10
22-Feb-19	43.3	7	10	<4	8	<4	5	1,835	3.36	4.2	54.3	13.5	6.54	<10
23-Feb-19	44.3	5	10	nr	8	nr	5	1,971	4.17	4.3	54.3	14.1	6.65	10
24-Feb-19	45.0	8	10	nr	8	nr	5	1,946	4.25	4.3	54.4	13.7	6.57	20
25-Feb-19	45.9	9	10	nr	8	nr	5	1,889	3.98	4.3	54.2	13.3	6.58	40
26-Feb-19	47.7	5	9	9	8	8	5	1,984	3.04	4.3	53.9	13.5	6.58	10
27-Feb-19	48.5	6	9	10	9	7	6	1,905	3.35	4.3	53.7	12.7	6.60	20
28-Feb-19	48.2	11	9	12	9	8	6	1,826	3.36	4.3	53.5	12.8	6.65	60
Max:	48.5													
Min:	42.2													
Average:	44.1	9	10			7		1,836	3.72			13.8	6.61	
Total Flow:	1234.2													
Geo.Mean:														21

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