

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
February 2018**

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-18	42.8	12	9	22	19	7	8	1,840	4.50	4.7	51.1	14.7	6.75	<10
2-Feb-18	43.1	10	9	23	20	8	8	1,779	4.54	4.7	51.2	14.6	6.62	10
3-Feb-18	44.3	15	10	23	20	8	8	1,861	4.44	4.7	51.3	14.1	6.63	10
4-Feb-18	45.2	13	10	20	20	9	8	1,877	4.23	4.8	51.3	13.9	6.59	<10
5-Feb-18	43.6	8	10	18	20	9	8	1,725	4.06	4.8	51.1	14.8	6.59	30
6-Feb-18	43.3	12	10	22	20	11	8	1,740	4.18	4.8	50.8	14.7	6.61	30
7-Feb-18	42.6	14	10	22	20	12	9	1,784	4.46	4.8	51.0	14.6	6.42	20
8-Feb-18	42.8	13	10	20	20	11	9	1,789	4.47	4.8	51.3	14.5	6.56	10
9-Feb-18	42.8	14	10	19	20	9	9	1,730	3.98	4.8	51.5	14.5	6.72	40
10-Feb-18	43.9	8	10	18	20	8	9	1,692	4.19	4.9	51.8	13.8	6.72	50
11-Feb-18	44.5	12	10	20	20	11	9	1,791	3.99	4.9	51.7	14.0	6.67	10
12-Feb-18	43.8	14	10	18	20	10	9	1,677	3.98	4.9	51.9	14.5	6.50	40
13-Feb-18	42.2	18	11	20	19	12	9	1,689	4.31	4.9	51.9	14.3	6.75	90
14-Feb-18	42.0	18	11	25	20	16	9	1,656	4.35	4.9	51.9	14.5	6.80	20
15-Feb-18	42.2	15	11	22	20	13	9	1,685	4.47	4.9	51.8	14.6	6.58	140
16-Feb-18	43.5	17	11	20	20	13	9	1,691	4.24	4.9	51.4	14.3	6.65	190
17-Feb-18	42.8	13	12	23	20	15	9	1,665	4.25	4.9	51.4	14.1	6.72	10
18-Feb-18	41.9	17	12	22	20	15	10	1,684	3.94	4.9	51.5	13.8	6.58	490
19-Feb-18	43.5	14	12	19	20	13	10	1,666	4.12	4.9	51.4	13.8	6.62	20
20-Feb-18	41.9	17	12	19	20	12	10	1,483	3.75	4.9	51.5	14.3	6.58	490
21-Feb-18	42.1	18	12	21	20	15	10	1,568	3.94	5.0	51.6	14.2	6.59	190
22-Feb-18	41.3	15	13	nr	20	nr	10	1,564	3.94	5.0	51.6	14.1	6.66	90
23-Feb-18	41.5	12	13	14	20	10	10	1,601	4.07	5.0	51.6	14.1	6.63	90
24-Feb-18	42.9	8	13	17	20	11	10	1,696	4.45	5.0	51.5	14.1	6.71	120
25-Feb-18	43.4	12	13	21	21	12	11	1,641	3.37	5.0	51.6	14.1	6.68	60
26-Feb-18	42.7	11	13	nr	21	nr	11	1,635	3.86	5.0	51.4	14.5	6.62	40
27-Feb-18	42.6	10	13	14	20	8	11	1,689	4.21	5.0	51.4	14.6	6.61	40
28-Feb-18	43.1	11	13	19	20	10	11	1,787	4.73	5.0	51.8	14.5	6.60	100
Max:	45.2													
Min:	41.3													
Average:	42.9	13		20		11		1,703	4.18			14.3	6.63	
Total Flow:	1202.1													
Geo.Mean:														41

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