

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

February 2021

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-21	47.6	12	11	18	22	7	7	1,659	3.88	4.9	52.6	15.4	6.83	1,080
2-Feb-21	49.1	13	11	16	22	6	7	2,001	4.92	4.9	52.2	15.0	6.61	10
3-Feb-21	46.8	9	11	16	22	6	7	1,827	4.02	4.8	52.0	14.9	6.65	20
4-Feb-21	47.2	9	11	19	22	7	7	2,018	4.39	4.8	52.0	14.9	6.62	100
5-Feb-21	47.4	9	11	16	22	7	7	1,924	4.54	4.8	52.2	14.4	6.65	<10
6-Feb-21	47.5	9	11	nr	22	nr	7	1,989	4.44	4.8	52.6	14.3	6.69	<10
7-Feb-21	48.8	14	11	43	22	11	7	1,958	4.89	4.8	52.7	14.0	6.66	230
8-Feb-21	48.0	51	12	37	23	17	7	1,938	4.24	4.8	52.8	14.1	6.67	170
9-Feb-21	44.1	ns	12	ns	23	ns	7	ns	ns	4.8	52.7	14.1	6.64	5,170
10-Feb-21	49.4	33	13	17	23	10	8	2,227	2.74	4.8	52.8	14.2	6.70	50
11-Feb-21	47.7	13	13	14	23	11	8	2,130	3.71	4.8	52.9	14.1	6.53	10
12-Feb-21	47.3	13	13	14	23	na	8	2,158	3.95	4.7	53.2	14.4	6.62	280
13-Feb-21	47.0	13	13	17	22	12	8	2,206	4.81	4.7	53.5	14.0	6.66	550
14-Feb-21	47.4	20	14	24	22	20	9	2,105	5.24	4.7	53.8	14.1	6.67	10
15-Feb-21	48.7	19	14	25	23	20	9	2,115	4.76	4.7	53.8	14.3	6.64	4,110
16-Feb-21	47.4	15	14	21	22	15	10	1,997	3.47	4.7	53.8	14.0	6.74	140
17-Feb-21	47.3	21	14	18	22	13	10	1,996	2.99	4.7	53.9	14.0	6.75	4,110
18-Feb-21	47.5	14	14	16	22	12	10	2,012	2.99	4.6	54.1	14.0	6.76	10
19-Feb-21	47.0	23	15	19	22	14	11	2,097	4.39	4.7	54.4	14.4	6.81	910
20-Feb-21	48.1	14	15	16	22	12	11	2,226	3.10	4.7	54.7	14.2	6.67	<10
21-Feb-21	49.1	9	15	16	21	12	11	2,208	4.06	4.7	54.9	14.3	6.68	660
22-Feb-21	53.3	14	15	17	21	11	11	2,335	3.99	4.7	55.1	14.3	6.61	10
23-Feb-21	48.8	16	15	15	21	11	11	1,971	2.78	4.6	55.1	14.1	6.64	<10
24-Feb-21	47.8	9	15	12	21	10	11	2,087	3.81	4.7	55.0	14.2	6.69	20
25-Feb-21	48.1	10	15	12	20	9	11	2,309	3.90	4.7	55.1	14.2	6.68	10
26-Feb-21	47.1	15	15	13	19	11	11	2,258	5.03	4.7	55.3	14.3	6.66	10
27-Feb-21	49.1	9	15	nr	19	nr	11	2,251	3.66	4.7	55.7	14.3	6.69	10
28-Feb-21	49.7	8	15	nr	19	nr	12	2,289	4.21	4.7	56.0	14.1	6.65	<10
Max:	53.3													
Min:	44.1													
Average:	48.0	15		19		11		2,085	4.03			14.3	6.67	
Total Flow:	1,344.1													
Geo.Mean:														58

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