

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

October 2020

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-Oct-20	48.5	13	10	25	27	6	5	1,875	3.67	4.2	50.4	18.2	6.78	20
2-Oct-20	48.7	10	10	26	28	4	5	2,034	3.61	4.2	50.9	16.2	6.70	1,170
3-Oct-20	48.0	27	11	34	28	11	6	2,212	4.14	4.3	51.7	16.1	6.70	80
4-Oct-20	49.5	59	12	51	29	24	6	2,303	4.38	4.4	52.2	15.9	6.67	<10
5-Oct-20	48.2	15	13	30	29	7	6	1,813	4.00	4.4	52.5	18.2	6.61	10
6-Oct-20	49.9	41	14	48	29	19	7	1,994	3.64	4.5	52.8	18.2	6.62	40
7-Oct-20	48.7	10	14	23	29	8	7	1,978	3.30	4.4	52.7	18.0	6.96	310
8-Oct-20	48.0	8	14	27	29	7	7	1,998	3.85	4.4	52.6	17.1	6.65	<10
9-Oct-20	48.2	11	14	25	29	8	7	1,993	3.93	4.5	52.4	17.8	6.78	90
10-Oct-20	46.9	14	15	26	29	8	8	2,095	4.54	4.5	52.2	17.9	6.74	20
11-Oct-20	47.4	13	15	29	28	11	8	2,023	4.38	4.5	51.9	17.9	6.72	80
12-Oct-20	50.3	15	15	30	28	13	8	2,111	4.12	4.5	51.9	17.9	6.70	310
13-Oct-20	48.3	12	15	26	28	10	8	1,829	3.18	4.5	51.9	18.0	6.57	790
14-Oct-20	49.0	9	15	25	28	8	9	2,022	3.21	4.5	52.0	17.9	6.70	<10
15-Oct-20	47.7	6	15	20	28	6	9	1,928	3.78	4.5	52.3	17.8	6.68	20
16-Oct-20	47.9	8	15	19	28	5	9	2,133	4.16	4.5	52.3	17.7	6.70	10
17-Oct-20	48.4	10	15	20	28	5	9	2,082	4.77	4.6	52.7	17.5	6.65	20
18-Oct-20	47.6	8	15	30	28	5	9	2,004	4.64	4.6	52.9	17.5	6.73	10
19-Oct-20	50.9	6	15	nr	28	nr	9	1,910	4.13	4.6	53.1	17.7	6.64	10
20-Oct-20	46.9	6	15	nr	28	nr	9	1,995	4.13	4.6	53.1	17.7	6.72	260
21-Oct-20	49.0	4	15	nr	28	nr	9	2,040	4.01	4.6	53.5	17.8	6.55	20
22-Oct-20	49.3	7	15	23	28	<4	9	2,118	4.07	4.7	53.7	17.7	6.73	<10
23-Oct-20	48.4	6	15	21	28	4	9	1,878	4.28	4.7	53.9	17.6	6.70	<10
24-Oct-20	48.5	6	14	23	27	<4	8	2,025	4.66	4.8	54.2	17.4	6.68	<10
25-Oct-20	49.4	7	14	31	28	5	8	1,888	4.60	4.8	54.1	17.3	6.64	<10
26-Oct-20	48.8	6	14	7	27	5	8	1,983	3.94	4.8	53.9	17.5	6.79	10
27-Oct-20	47.2	5	13	6	26	<4	7	1,894	3.87	4.7	53.8	17.0	6.66	<10
28-Oct-20	48.0	7	13	nr	26	nr	8	2,065	3.81	4.7	53.9	17.4	6.58	20
29-Oct-20	47.7	6	12	16	25	<4	7	1,888	6.39	4.8	53.6	17.4	6.68	10
30-Oct-20	47.6	4	12	24	26	<4	7	2,046	4.31	4.9	53.5	17.3	6.69	10
31-Oct-20	48.7	6	12	27	26	4	7	1,959	4.75	4.9	53.4	17.1	6.68	<10
Max:	50.9													
Min:	46.9													
Average:	48.4	12		26		8		2,004	4.14			17.5	6.69	
Total Flow:	1,501.5													
Geo.Mean:														22

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