

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

May 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-May-21	50.4	11	11	23	21	9	8	2,313	3.96	4.0	48.9	14.5	6.64	30
2-May-21	52.5	11	11	22	21	11	8	2,282	4.28	4.0	48.7	14.5	6.65	10
3-May-21	51.1	14	12	20	21	10	8	1,921	4.01	4.0	48.7	16.7	6.57	10
4-May-21	50.1	5	11	21	21	10	8	1,854	4.43	4.0	48.7	14.5	6.57	10
5-May-21	49.9	10	11	25	21	11	8	1,907	3.70	4.0	48.8	14.1	6.60	150
6-May-21	49.5	10	11	24	21	11	9	1,899	3.75	4.1	48.7	14.4	6.65	<10
7-May-21	49.1	11	11	19	21	11	9	1,945	4.07	4.1	48.6	14.7	6.57	70
8-May-21	49.5	9	11	21	21	12	9	1,936	4.27	4.1	48.4	14.6	6.65	30
9-May-21	50.5	11	11	24	21	12	9	1,945	4.31	4.2	48.8	14.5	6.67	310
10-May-21	50.0	12	11	24	22	11	9	1,811	3.91	4.2	49.1	14.6	6.61	150
11-May-21	50.5	11	11	19	22	10	9	1,968	3.78	4.2	49.1	14.8	6.62	630
12-May-21	49.5	12	11	23	21	11	9	1,806	3.59	4.2	49.1	14.6	6.66	50
13-May-21	49.4	11	11	24	22	11	9	1,883	4.20	4.3	49.2	15.2	6.65	460
14-May-21	48.9	12	11	25	22	12	9	1,843	4.42	4.3	49.6	15.2	6.61	180
15-May-21	48.8	11	11	26	22	13	10	1,990	4.11	4.4	49.7	15.2	6.63	580
16-May-21	50.3	11	11	30	22	13	10	1,826	4.15	4.5	50.1	15.2	6.59	130
17-May-21	50.2	12	11	30	23	11	10	1,841	3.94	4.5	50.4	15.5	6.60	620
18-May-21	48.8	6	10	23	23	11	10	1,797	3.66	4.6	50.7	16.0	6.58	150
19-May-21	48.9	10	10	nr	22	nr	10	1,761	3.68	4.6	51.2	16.0	6.61	300
20-May-21	49.4	9	10	25	23	15	10	1,764	3.95	4.7	51.1	15.7	6.64	90
21-May-21	49.6	66	12	45	23	36	11	2,100	3.98	4.7	51.6	15.4	6.66	80
22-May-21	80.5	96	15	42	24	35	12	2,173	2.30	4.8	51.3	14.4	6.72	>24,200
23-May-21	56.8	11	15	24	24	12	12	1,658	2.37	4.7	51.3	14.2	6.79	10
24-May-21	55.0	9	15	25	24	11	12	1,512	2.89	4.7	51.1	14.9	6.72	50
25-May-21	54.1	9	15	27	25	11	12	1,781	3.32	4.7	51.2	15.3	6.61	40
26-May-21	51.2	10	15	25	25	10	12	1,808	3.89	4.7	51.1	14.7	6.72	190
27-May-21	51.2	13	15	33	25	12	13	1,904	3.76	4.7	50.9	15.0	6.65	130
28-May-21	50.4	16	15	29	25	14	13	1,838	4.03	4.7	50.7	15.4	6.80	820
29-May-21	49.5	12	15	42	26	13	13	1,926	4.01	4.7	50.5	15.2	6.67	50
30-May-21	50.5	14	15	42	27	13	13	1,809	4.01	4.8	50.3	15.4	6.67	330
31-May-21	50.7	15	15	47	28	12	13	1,830	4.12	4.8	50.4	15.5	6.65	210
Max:	80.5													
Min:	48.8													
Average:	51.5	15		28		13		1,891	3.83			15.0	6.65	
Total Flow:	1,596.7													
Geo.Mean:														112

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