

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

July 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-Jul-20	109.9	12	11	28	19	8	7	1,857	2.09	3.9	38.8	17.3	6.86	380
2-Jul-20	70.2	8	11	>35	20	4	7	1,578	2.40	3.9	38.6	16.9	6.82	30
3-Jul-20	61.8	7	11	41	21	<4	7	1,594	2.47	3.8	38.0	17.1	6.73	20
4-Jul-20	63.1	11	11	38	22	5	7	1,628	3.02	3.8	37.3	17.1	6.76	<10
5-Jul-20	64.3	8	11	41	23	4	7	1,690	3.26	3.7	36.6	17.2	6.76	<10
6-Jul-20	63.6	4	11	36	24	<4	7	1,610	2.94	3.7	36.1	17.5	6.65	10
7-Jul-20	59.0	6	11	33	25	<4	7	1,669	3.35	3.7	36.3	17.9	6.95	14,100
8-Jul-20	62.3	6	11	55	26	<4	6	1,708	3.38	3.7	36.6	17.6	6.73	20
9-Jul-20	58.7	6	11	45	27	<4	6	1,668	3.45	3.8	36.9	17.4	6.72	<10
10-Jul-20	57.7	9	11	57	29	<4	6	1,749	3.73	3.8	37.2	17.7	6.70	10
11-Jul-20	54.3	8	10	36	30	4	6	1612	3.75	3.8	37.4	17.6	6.65	720
12-Jul-20	54.8	6	10	99	33	5	6	1681	3.58	3.8	37.7	17.7	6.75	20
13-Jul-20	61.6	18	10	49	34	13	6	1,751	3.42	3.8	37.7	17.7	6.57	10
14-Jul-20	65.3	9	10	60	36	4	6	1,705	2.84	3.7	37.8	17.5	6.70	30
15-Jul-20	57.0	6	10	29	37	4	6	1,670	3.30	3.7	38.1	17.6	6.73	<10
16-Jul-20	55.8	6	10	44	38	4	6	1,752	3.41	3.7	38.3	17.7	6.76	<10
17-Jul-20	64.3	14	9	53	39	6	5	1,832	3.14	3.6	38.5	17.9	6.68	20
18-Jul-20	65.3	6	8	30	39	4	5	1,594	2.47	3.6	38.6	18.0	6.70	10
19-Jul-20	57.3	7	8	61	40	4	5	1,632	2.91	3.6	38.5	17.7	6.73	<10
20-Jul-20	56.5	10	8	29	41	4	5	1,723	3.11	3.5	38.5	17.5	6.71	20
21-Jul-20	54.7	7	8	33	41	4	5	1,702	3.31	3.6	38.8	17.8	6.69	<10
22-Jul-20	54.6	7	8	41	41	4	5	1,664	3.34	3.6	38.7	17.7	6.67	<10
23-Jul-20	53.1	7	8	48	42	4	4	1,651	3.15	3.6	38.6	17.9	6.79	<10
24-Jul-20	54.2	12	8	49	43	5	5	1,587	3.82	3.6	39.0	18.2	6.68	20
25-Jul-20	52.5	8	8	33	43	4	5	1,448	3.62	3.6	39.5	18.4	6.72	10
26-Jul-20	50.8	6	8	61	44	4	5	1,609	3.59	3.7	40.2	18.6	6.71	<10
27-Jul-20	52.1	7	8	18	43	7	5	1,449	3.17	3.7	40.8	18.2	6.63	<10
28-Jul-20	51.3	8	8	14	42	10	5	1,688	5.55	3.7	41.4	18.1	6.62	80
29-Jul-20	51.9	7	8	55	43	5	5	1,782	4.16	3.8	41.9	18.3	6.65	20
30-Jul-20	52.4	6	8	54	44	4	5	1,808	3.86	3.8	42.3	18.4	6.67	10
31-Jul-20	52.1	7	8	45	44	4	4	1,702	3.61	3.8	43.2	18.6	6.66	20
Max:	109.9													
Min:	50.8													
Average:	59.4	8		44		5		1,671	3.33			17.8	6.71	
Total Flow:	1,842.2													
Geo.Mean:														18

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