

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

**July 2019**

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-19	47.3	4	8	12	17	3	6	1,640	3.59	3.6	43.9	16.5	6.63	10
2-Jul-19	49.4	5	8	24	17	4	6	1,550	3.27	3.6	44.0	16.9	6.57	<10
3-Jul-19	49.2	5	8	20	17	7	6	1,799	3.32	3.6	44.1	16.9	6.54	<10
4-Jul-19	49.1	6	8	21	17	3	6	1,744	3.23	3.6	44.3	17.1	6.69	10
5-Jul-19	48.3	7	8	17	18	4	6	1,793	3.92	3.6	44.4	17.0	6.49	<10
6-Jul-19	46.4	6	8	19	18	<4	6	1,734	3.51	3.6	44.3	17.1	6.55	<10
7-Jul-19	47.3	7	8	15	18	<4	6	1,834	3.36	3.6	44.3	16.9	6.58	10
8-Jul-19	49.1	6	8	13	17	3	6	1,678	3.30	3.6	44.5	17.2	6.52	<10
9-Jul-19	83.6	61	9	>35	17	29	7	1,974	2.68	3.6	44.4	17.2	6.52	40
10-Jul-19	<b>186.9</b>	52	11	30	18	19	7	1,641	0.54	3.6	43.6	16.0	7.13	(24,200)
11-Jul-19	85.9	6	11	10	17	<4	7	1,607	0.94	3.5	42.7	16.2	6.92	210
12-Jul-19	69.4	6	10	13	17	<4	7	1,485	1.79	3.5	42.2	16.6	6.83	10
13-Jul-19	60.3	13	11	22	17	9	7	1,542	1.89	3.4	41.9	17.0	6.74	<10
14-Jul-19	<b>119.5</b>	26	11	29	18	17	7	1,673	1.56	3.4	41.1	17.0	7.06	(>24,200)
15-Jul-19	92.6	11	11	10	17	6	7	1,620	2.02	3.3	40.4	16.8	6.99	40
16-Jul-19	73.1	6	11	9	17	<4	7	1,528	1.14	3.2	39.7	17.0	6.81	30
17-Jul-19	67.4	5	11	12	17	<4	7	1,759	1.31	3.1	39.5	17.1	6.70	<10
18-Jul-19	64.8	6	11	12	16	2	7	1,659	1.96	3.1	39.4	17.2	6.74	<10
19-Jul-19	62.0	6	11	16	16	<4	7	1,761	1.98	3.1	39.2	17.3	6.70	10
20-Jul-19	58.0	3	10	13	16	<2	7	1,676	2.49	3.1	38.9	17.2	6.69	10
21-Jul-19	56.9	6	10	22	16	<4	7	1,695	2.67	3.1	38.7	17.1	6.75	<10
22-Jul-19	57.3	5	10	17	16	<4	8	1,754	2.64	3.0	38.7	17.2	6.63	10
23-Jul-19	56.1	5	10	23	17	<4	8	1,801	2.99	3.0	38.3	17.7	6.66	<10
24-Jul-19	55.7	6	10	27	17	<4	8	1,800	2.68	3.0	38.2	17.7	6.66	10
25-Jul-19	55.4	5	10	22	17	<4	8	1,761	2.78	3.0	38.2	17.9	6.61	10
26-Jul-19	54.7	6	10	22	17	<4	8	1,728	2.91	3.0	38.1	17.9	6.62	110
27-Jul-19	51.8	6	10	20	17	<4	8	1,664	3.02	3.0	38.3	18.3	6.67	<10
28-Jul-19	51.2	5	10	29	18	<4	8	1,648	3.40	3.0	37.9	18.6	6.78	<10
29-Jul-19	50.4	7	10	18	18	<4	8	1,712	3.54	3.0	37.7	17.1	6.57	<10
30-Jul-19	50.1	6	10	29	19	<4	9	1,705	3.20	3.0	37.7	17.8	6.57	30
31-Jul-19	50.3	6	10	17	19	<4	9	1,831	2.96	2.9	37.6	17.3	6.58	40
<b>Max:</b>	186.9													
<b>Min:</b>	46.4													
<b>Average:</b>	<b>64.5</b>	<b>10</b>		<b>19</b>		<b>5</b>		<b>1,703</b>	<b>2.60</b>			<b>17.2</b>	<b>6.69</b>	
<b>Total Flow:</b>	<b>1999.3</b>													
<b>Geo.Mean:</b>														<b>11</b>

**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