

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

**June 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-Jun-19	51.5	6	7	15	13	5	5	1,926	3.63	3.4	43.8	14.4	6.63	<10
2-Jun-19	52.6	6	7	29	14	5	5	1,853	3.74	3.4	43.9	14.0	6.64	<10
3-Jun-19	54.1	8	7	20	14	5	5	1,932	3.44	3.4	43.9	14.4	6.62	10
4-Jun-19	52.3	6	7	12	14	6	5	1,743	3.21	3.4	43.9	14.6	6.57	10
5-Jun-19	51.2	9	7	15	14	5	5	1,893	3.11	3.4	44.1	15.0	6.59	10
6-Jun-19	50.5	6	7	18	15	5	5	1,843	3.51	3.4	44.1	15.1	6.57	10
7-Jun-19	51.0	7	7	16	15	6	5	1,883	3.48	3.4	44.1	15.4	6.59	20
8-Jun-19	56.5	12	7	23	15	7	5	1,853	3.55	3.4	43.8	15.6	6.58	10
9-Jun-19	55.0	11	7	18	15	7	5	1,824	2.80	3.4	43.5	14.8	6.63	90
10-Jun-19	52.7	11	7	17	16	8	6	1,772	3.01	3.4	43.4	14.6	6.59	20
11-Jun-19	49.8	8	7	17	16	7	6	1,818	3.31	3.4	43.7	14.8	6.59	30
12-Jun-19	50.1	11	8	20	16	8	6	1,794	3.50	3.4	43.9	14.8	6.59	40
13-Jun-19	50.3	8	8	12	16	7	6	1,834	3.25	3.4	44.0	15.0	6.58	60
14-Jun-19	50.0	9	8	20	16	5	6	1,690	3.11	3.4	44.1	15.4	6.62	20
15-Jun-19	48.2	11	8	20	16	5	6	1,809	3.42	3.5	44.6	15.8	6.60	20
16-Jun-19	50.1	13	8	22	17	9	6	1,828	3.91	3.5	45.0	15.4	6.61	10
17-Jun-19	62.0	10	8	22	17	7	6	1,934	3.07	3.5	44.9	15.3	6.57	330
18-Jun-19	52.8	6	8	18	17	7	6	1,721	2.18	3.5	44.8	15.6	6.59	30
19-Jun-19	51.6	8	8	18	17	6	6	1,836	2.57	3.5	44.7	15.8	6.61	50
20-Jun-19	50.9	8	8	23	17	6	6	1,786	3.08	3.5	44.7	16.0	6.59	<10
21-Jun-19	49.5	8	8	17	17	5	6	1,817	3.10	3.5	44.4	16.4	6.62	10
22-Jun-19	54.0	8	8	11	17	5	6	1,912	3.46	3.5	43.9	16.4	6.62	<10
23-Jun-19	51.6	7	8	11	17	5	6	1,840	3.13	3.6	44.0	16.0	6.62	40
24-Jun-19	54.9	15	8	19	17	8	6	1,818	3.35	3.6	43.9	16.5	6.56	20
25-Jun-19	56.6	4	8	15	17	4	6	1,818	2.74	3.6	43.7	16.5	6.56	10
26-Jun-19	52.3	9	8	19	17	10	6	1,658	2.45	3.6	43.6	16.4	6.59	<10
27-Jun-19	51.4	<3	8	19	18	4	6	1,773	3.12	3.6	43.6	16.7	6.62	<10
28-Jun-19	51.1	8	8	18	18	5	6	1,712	3.09	3.6	43.8	16.8	6.66	<10
29-Jun-19	47.7	<3	8	9	18	6	6	1,688	3.27	3.6	44.0	17.0	6.68	<10
30-Jun-19	46.0	4	8	10	17	3	6	1,491	3.09	3.6	43.9	16.8	6.60	20
<b>Max:</b>	62.0													
<b>Min:</b>	46.0													
<b>Average:</b>	<b>51.9</b>	<b>8</b>		<b>17</b>		<b>6</b>		<b>1,803</b>	<b>3.19</b>			<b>15.6</b>	<b>6.60</b>	
<b>Total Flow:</b>	<b>1558.3</b>													
<b>Geo.Mean:</b>														<b>15</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