

**City of Winnipeg**  
**Water and Waste Department**  
**South End Water Pollution Control Centre Monitoring Data**  
**June 2018**

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-18	59.2	12	17	12	20	8	16	1,818	3.11	4.6	40.6	16.1	6.67	<10
2-Jun-18	56.3	13	17	15	20	12	16	1,812	3.39	4.6	40.4	15.5	6.67	50
3-Jun-18	58.5	12	18	13	19	11	16	1,824	3.25	4.5	40.1	15.7	6.64	60
4-Jun-18	54.3	10	17	13	19	9	15	1,704	3.27	4.5	39.7	15.9	6.53	10
5-Jun-18	52.3	12	17	14	19	8	15	1,871	3.72	4.5	39.5	16.2	6.58	20
6-Jun-18	54.8	9	17	12	19	8	15	1,956	3.93	4.5	39.4	16.3	6.51	<10
7-Jun-18	50.6	12	17	12	18	8	15	1,817	3.74	4.5	39.1	16.5	6.55	<10
8-Jun-18	50.9	15	17	14	18	9	14	1,836	4.28	4.5	38.8	16.7	6.67	80
9-Jun-18	49.8	12	17	14	18	10	14	1,817	3.73	4.4	38.4	16.7	6.57	30
10-Jun-18	51.8	15	17	16	18	15	14	1,812	3.96	4.4	38.0	16.7	6.64	20
11-Jun-18	55.5	22	18	22	18	17	15	1,852	4.06	4.4	37.7	17.6	6.52	50
12-Jun-18	53.9	21	18	17	18	12	15	1,764	3.60	4.4	37.4	16.9	6.54	30
13-Jun-18	50.8	13	18	12	18	8	15	1,812	3.29	4.4	37.1	16.9	6.50	310
14-Jun-18	52.5	45	19	35	18	30	15	1,806	3.97	4.2	36.8	16.3	6.53	<10
15-Jun-18	93.8	11	19	14	18	8	15	2,026	1.96	4.1	36.2	16.0	6.64	50
16-Jun-18	58.2	7	18	10	17	5	14	1,666	2.65	4.1	35.8	16.1	6.60	30
17-Jun-18	55.1	11	18	9	17	6	14	1,878	3.42	4.0	36.0	16.0	6.61	<10
18-Jun-18	57.9	17	18	11	17	7	13	1,892	3.47	4.1	36.2	16.3	6.53	10
19-Jun-18	53.6	11	17	14	17	7	13	1,897	3.97	4.1	36.4	16.5	6.57	10
20-Jun-18	54.0	8	17	12	16	5	12	1,821	3.77	4.1	36.4	16.8	6.52	10
21-Jun-18	53.3	9	16	18	16	5	11	1,775	3.56	4.1	36.4	17.3	6.59	10
22-Jun-18	52.3	8	16	12	15	6	11	1,769	3.89	4.1	36.5	17.1	6.57	10
23-Jun-18	50.5	9	15	7	15	6	11	1,766	3.53	4.1	36.5	17.2	6.55	10
24-Jun-18	51.3	9	15	12	15	7	10	2,387	5.08	4.1	36.5	16.7	6.58	<10
25-Jun-18	52.0	9	14	15	15	7	10	1,866	3.64	4.1	36.5	16.8	6.48	50
26-Jun-18	51.5	6	14	13	15	7	10	1,864	3.69	4.1	36.5	17.0	6.47	10
27-Jun-18	57.8	8	13	14	15	5	10	1,890	2.96	4.1	36.4	17.0	6.47	10
28-Jun-18	52.1	9	13	13	15	6	10	1,718	3.42	4.0	36.5	17.0	6.53	<10
29-Jun-18	70.2	10	12	12	14	5	9	1,958	2.40	4.0	36.5	17.1	6.49	10
30-Jun-18	52.6	11	12	12	14	5	9	1,493	2.46	4.0	36.8	16.9	6.56	<10
<b>Max:</b>	93.8													
<b>Min:</b>	49.8													
<b>Average:</b>	<b>55.6</b>	<b>12</b>		<b>14</b>		<b>9</b>		<b>1,839</b>	<b>3.51</b>			<b>16.6</b>	<b>6.56</b>	
<b>Total Flow:</b>	<b>1667.0</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