

City of Winnipeg  
Water and Waste Department  
South End Water Pollution Control Centre Monitoring Data  
May 2017

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-17	67.4	3	9	18	16	5	7	1,832	2.74	2.9	36.8	14.1	6.86	6
2-May-17	65.4	3	9	18	16	4	7	1,791	2.59	3.0	37.4	14.3	6.86	8
3-May-17	66.0	4	9	26	16	4	7	1,860	2.87	3.0	38.0	14.4	6.88	9
4-May-17	65.7	3	8	23	17	5	7	2,260	3.13	3.0	38.9	14.4	6.81	13
5-May-17	64.0	3	8	19	17	4	7	2,088	3.22	3.0	39.1	14.5	6.86	10
6-May-17	62.0	7	8	22	17	6	7	1,741	3.11	3.0	38.8	14.3	6.83	7
7-May-17	61.5	5	8	23	18	5	7	1,764	3.15	3.0	38.7	14.1	6.85	nr
8-May-17	63.2	5	8	24	18	5	7	2,368	3.33	3.0	39.2	14.3	6.82	17
9-May-17	59.6	6	8	27	19	4	7	2,540	3.10	3.0	39.9	14.3	6.88	23
10-May-17	58.4	6	8	29	19	4	7	1,927	2.94	3.0	40.2	14.1	6.92	4
11-May-17	57.7	5	8	25	20	5	7	2,181	3.42	3.1	40.6	14.2	6.83	24
12-May-17	57.3	ns	8	ns	20	ns	7	ns	ns	3.1	40.6	14.7	6.92	3
13-May-17	56.7	ns	8	ns	20	ns	7	ns	ns	3.1	40.6	13.6	6.78	5
14-May-17	57.3	ns	8	ns	20	ns	7	ns	ns	3.1	40.9	14.7	6.84	13
15-May-17	56.8	14	8	18	20	9	6	2,285	3.27	3.1	41.6	15.1	6.77	19
16-May-17	59.4	10	7	12	19	7	6	2,286	3.43	3.2	42.5	15.0	6.80	12
17-May-17	57.4	7	7	12	19	6	6	1,964	3.25	3.3	42.8	14.9	6.84	19
18-May-17	56.0	ns	7	ns	19	ns	6	ns	ns	3.4	43.3	14.8	6.67	20
19-May-17	54.9	8	7	10	19	6	6	1,857	3.46	3.5	43.4	14.8	6.77	36
20-May-17	51.4	9	7	9	19	5	6	1,670	3.41	3.5	42.8	14.9	6.70	9
21-May-17	71.4	15	7	14	19	9	6	1,742	2.76	3.6	42.5	14.8	6.75	68
22-May-17	77.6	9	7	12	19	7	6	1,753	2.16	3.5	42.1	13.9	6.84	109
23-May-17	63.6	9	7	9	18	5	6	1,647	2.42	3.6	41.9	14.6	6.88	16
24-May-17	60.2	7	7	8	18	4	5	1,998	3.05	3.6	41.8	14.9	6.83	308
25-May-17	58.2	6	7	8	17	3	5	1,817	3.52	3.7	41.8	15.1	6.77	10
26-May-17	56.7	10	7	nr	17	nr	5	1,756	3.76	3.7	41.5	15.2	6.86	41
27-May-17	55.0	10	7	14	17	6	5	1,792	3.75	3.8	41.3	15.9	6.81	16
28-May-17	60.7	10	7	14	17	7	5	1,815	3.40	3.8	41.0	15.1	6.76	5
29-May-17	61.8	7	7	20	17	4	5	1,952	3.12	3.8	40.7	15.2	6.74	11
30-May-17	57.6	9	7	19	17	5	5	1,844	3.46	3.9	40.8	15.2	6.73	10
31-May-17	56.2	6	7	13	17	5	5	1,833	4.22	3.9	41.1	15.4	6.74	23
<b>Max:</b>	77.6													
<b>Min:</b>	51.4													
<b>Average:</b>	<b>60.5</b>	<b>7</b>		<b>17</b>		<b>5</b>		<b>1,939</b>	<b>3.19</b>			<b>15</b>	<b>6.81</b>	
<b>Total Flow:</b>	<b>1877.0</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