

**City of Winnipeg**  
**Water and Waste Department**  
**South End Water Pollution Control Centre Monitoring Data**  
**May 2015**

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
Date	Raw Sewage Daily Flow ML**													
1-May-15	56.8	12	8	22	19	5	7	1,823	3.22	4.1	39	14	6.68	15
2-May-15	50.8	7	8	20	19	6	7	1,712	3.60	4.1	39	14	6.64	<3
3-May-15	50.8	<3	8	26	19	7	7	1,748	3.72	4.1	39	14	6.67	9
4-May-15	49.4	12	8	19	19	6	7	1,561	3.49	4.1	39	14	6.62	230
5-May-15	47.8	8	8	16	19	6	7	1,611	3.66	4.1	39	14	6.65	7
6-May-15	51.0	9	8	21	19	6	7	1,715	3.81	4.1	39	15	6.58	23
7-May-15	65.7	6	8	20	19	6	7	1,715	2.91	4.0	38	14	6.69	23
8-May-15	53.1	8	8	19	19	4	7	1,620	3.31	4.0	38	14	6.73	4
9-May-15	51.9	6	8	18	19	5	7	1,749	3.66	4.0	38	14	6.71	7
10-May-15	51.7	9	8	17	19	5	7	1,763	3.88	4.0	38	14	6.65	<3
11-May-15	51.0	9	8	17	19	5	7	1,795	3.73	4.0	38	14	6.70	23
12-May-15	49.4	5	8	19	19	5	6	1,769	3.84	4.0	38	14	6.62	11
13-May-15	48.9	8	8	19	19	5	6	1,761	3.95	4.0	38	14	6.68	4
14-May-15	85.3	40	9	>36	18	26	7	2,115	2.86	4.0	38	14	6.68	(230)
15-May-15	81.2	8	9	13	18	5	7	1,527	1.97	4.0	37	13	6.83	93
16-May-15	59.3	11	9	20	18	nr	7	1,204	2.19	3.9	37	13	6.80	38
17-May-15	<b>155.8</b>	43	11	nr	17	nr	7	1,246	0.95	3.8	36	12	7.15	(750)
18-May-15	<b>160.6</b>	19	11	nr	17	nr	7	1,638	1.18	3.7	35	11	7.38	(2,300)
19-May-15	<b>103.8</b>	14	11	nr	16	nr	6	1,505	1.31	3.7	35	11	7.35	(230)
20-May-15	93.9	8	11	nr	16	nr	6	1,587	1.57	3.6	35	12	7.11	(43)
21-May-15	81.0	3	11	nr	15	nr	6	1,587	2.05	3.6	34	12	7.05	(93)
22-May-15	73.5	<3	11	11	15	4	6	1,580	2.40	3.6	34	13	6.95	(9)
23-May-15	67.7	5	11	12	15	5	6	1,537	2.63	3.5	34	13	6.99	21
24-May-15	66.2	6	11	17	15	5	6	1,602	2.62	3.5	33	14	6.89	4
25-May-15	64.7	9	11	13	15	5	6	1,610	2.41	3.4	33	14	6.81	15
26-May-15	62.3	6	11	13	14	3	6	1,645	2.59	3.4	32	14	6.76	23
27-May-15	59.3	5	11	14	14	4	5	1,595	2.47	3.3	32	14	6.78	<30
28-May-15	69.1	7	11	15	14	5	5	1,852	2.90	3.3	32	14	6.82	(4)
29-May-15	60.1	8	10	13	14	<3	5	1,605	2.60	3.3	31	14	6.79	4
30-May-15	58.2	9	10	14	14	7	5	1,671	3.02	3.2	31	14	6.82	4
31-May-15	58.1	9	10	18	13	7	5	1,650	3.00	3.2	31	14	6.77	7
<b>Max:</b>	160.6													
<b>Min:</b>	47.8													
<b>Average:</b>	<b>69.0</b>	<b>10</b>		<b>18</b>		<b>6</b>		<b>1,648</b>	<b>2.82</b>			<b>13</b>	<b>6.82</b>	
<b>Total Flow:</b>	<b>2138.5</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
- (8) Total Nitrogen results are calculated from TKN and nitrate values