

**City of Winnipeg  
Water and Waste Department  
South End Water Pollution Control Centre Monitoring Data  
January 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
Date	Raw Sewage Daily Flow ML**													
1-Jan-18	42.2	9	10	12	11	8	8	1,788	4.34	4.8	50.8	14.2	6.58	110
2-Jan-18	43.5	11	10	11	11	7	8	1,868	4.08	4.8	50.7	15.2	6.59	40
3-Jan-18	44.1	9	10	13	11	7	8	1,874	3.67	4.8	50.7	15.1	6.57	100
4-Jan-18	44.0	9	10	15	12	7	8	1,925	4.20	4.8	50.6	15.0	6.54	10
5-Jan-18	43.6	7	10	18	12	6	8	1,925	4.33	4.8	50.7	14.8	6.54	20
6-Jan-18	44.1	13	10	23	12	7	8	1,945	4.30	4.8	50.7	ns	ns	ns
7-Jan-18	45.3	8	10	20	13	8	8	1,918	4.12	4.8	50.7	15.0	6.63	10
8-Jan-18	44.0	9	10	17	13	7	8	1,809	3.84	4.7	50.6	15.3	6.53	<10
9-Jan-18	43.8	7	10	16	13	6	8	1,762	3.88	4.7	50.5	15.6	6.54	20
10-Jan-18	47.2	8	10	nr	13	nr	8	1,907	4.10	4.7	50.5	15.5	6.62	<10
11-Jan-18	43.7	11	10	18	13	8	8	1,779	3.88	4.7	50.5	15.1	6.53	10
12-Jan-18	43.3	14	10	23	13	9	8	1,785	3.83	4.7	50.5	14.6	6.58	<10
13-Jan-18	44.7	4	10	28	14	12	8	1,769	4.20	4.7	50.5	14.3	6.63	<10
14-Jan-18	45.3	12	10	30	15	11	8	1,808	4.14	4.7	50.5	14.6	6.60	<10
15-Jan-18	44.2	10	10	19	15	10	8	1,677	3.90	4.7	50.4	14.7	6.69	30
16-Jan-18	44.0	10	10	20	15	8	8	1,818	4.07	4.7	50.5	14.3	6.54	10
17-Jan-18	43.5	8	10	18	15	10	8	1,829	4.06	4.7	50.7	14.7	6.57	10
18-Jan-18	43.5	8	10	18	16	10	8	1,806	4.02	4.7	50.9	15.1	6.74	10
19-Jan-18	44.5	12	10	15	16	9	9	1,856	4.13	4.7	50.9	15.2	6.59	90
20-Jan-18	45.0	12	10	19	16	8	9	1,809	4.05	4.7	50.9	15.1	6.64	<10
21-Jan-18	45.7	7	10	20	17	10	9	1,820	3.87	4.7	50.9	14.9	6.59	10
22-Jan-18	44.2	8	10	17	17	8	9	1,697	3.69	4.6	50.8	15.0	6.60	<10
23-Jan-18	43.2	6	10	14	17	8	9	1,686	3.93	4.6	50.8	15.4	6.63	40
24-Jan-18	43.2	12	10	21	17	12	9	1,849	4.32	4.6	51.0	15.6	6.52	90
25-Jan-18	45.1	9	10	13	17	7	9	1,898	4.29	4.6	51.0	15.4	6.59	20
26-Jan-18	45.1	5	10	12	17	5	9	1,811	4.02	4.6	51.1	15.3	6.58	<10
27-Jan-18	44.4	9	9	18	17	6	8	1,817	4.03	4.6	51.1	15.0	6.56	<10
28-Jan-18	45.6	10	9	23	17	6	8	1,798	4.03	4.6	51.3	14.5	6.66	10
29-Jan-18	46.1	10	9	nr	17	nr	8	1,755	3.77	4.6	51.1	15.0	6.57	<10
30-Jan-18	44.2	9	9	18	17	6	8	1,782	4.02	4.6	51.0	14.9	6.63	10
31-Jan-18	46.6	11	9	31	18	7	8	1,897	4.00	4.6	51.0	14.9	6.63	<10
<b>Max:</b>	47.2													
<b>Min:</b>	42.2													
<b>Average:</b>	<b>44.4</b>	<b>9</b>		<b>19</b>		<b>8</b>		<b>1,822</b>	<b>4.04</b>			<b>15.0</b>	<b>6.59</b>	
<b>Total Flow:</b>	<b>1377.1</b>													
<b>Geo.Mean:</b>														<b>13</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 samples from January 1st to the 22nd were analyzed past hold time due to an instrument breakdown.