

City of Winnipeg  
Water and Waste Department  
South End Water Pollution Control Centre Monitoring Data  
January 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-Jan-19	42.9	5	6	15	11	5	<4	1,716	3.65	4.2	52.9	15.7	6.60	<10
2-Jan-19	44.0	6	6	14	11	3	<4	1,850	3.10	4.2	53.1	14.5	6.62	30
3-Jan-19	44.5	12	6	24	11	5	<4	1,800	4.68	4.2	53.2	14.9	6.56	30
4-Jan-19	44.2	8	6	nr	11	nr	<4	1,804	4.01	4.2	53.2	14.8	6.51	70
5-Jan-19	45.2	6	6	nr	10	nr	<4	1,826	2.28	4.1	53.2	15.9	6.55	<10
6-Jan-19	46.9	15	6	12	10	3	<4	1,903	2.75	4.1	53.3	14.7	6.54	10
7-Jan-19	44.9	6	6	14	11	3	<4	1,740	2.51	4.0	53.2	15.1	6.53	10
8-Jan-19	44.6	5	6	nr	11	nr	<4	1,898	2.71	3.9	53.2	14.7	6.57	<10
9-Jan-19	44.7	8	6	nr	11	nr	<4	1,853	2.73	3.9	53.2	14.8	6.59	10
10-Jan-19	44.4	6	6	11	10	3	<4	1,934	3.16	3.9	53.1	14.7	6.66	nr
11-Jan-19	45.0	6	6	nr	10	nr	<4	1,833	3.11	3.9	53.1	14.7	6.56	<10
12-Jan-19	46.0	6	6	nr	10	nr	<4	1,998	3.74	3.9	53.1	16.0	6.61	<10
13-Jan-19	46.8	9	7	12	9	5	<4	1,932	3.57	3.9	53.1	14.7	6.56	10
14-Jan-19	45.3	8	7	12	9	3	<4	1,849	3.31	3.8	52.8	15.0	6.53	<10
15-Jan-19	44.5	8	7	17	10	5	<4	1,934	3.69	3.8	52.8	14.9	6.59	<10
16-Jan-19	44.1	8	7	nr	10	nr	<4	1,827	3.34	3.8	52.9	14.5	6.55	20
17-Jan-19	43.5	10	7	20	10	5	<4	1,799	3.23	3.8	53.0	14.5	6.60	<10
18-Jan-19	44.5	9	7	nr	9	nr	<4	1,873	3.27	3.8	53.1	14.3	6.62	<10
19-Jan-19	46.8	10	7	nr	9	nr	<4	1,913	3.66	3.8	53.4	15.9	6.67	<10
20-Jan-19	47.3	12	7	16	9	7	<4	1,944	4.03	3.8	53.5	13.9	6.62	30
21-Jan-19	47.1	8	7	17	9	6	<4	1,760	3.34	3.8	53.6	13.9	6.70	100
22-Jan-19	45.0	12	8	10	8	4	<4	1,722	2.24	3.7	53.7	14.2	6.63	30
23-Jan-19	43.6	13	8	19	9	8	<4	1,643	5.01	3.8	53.8	14.6	6.61	70
24-Jan-19	42.9	10	8	nr	9	nr	<4	1,722	3.56	3.8	53.8	14.3	6.66	30
25-Jan-19	43.2	10	8	nr	9	nr	<4	1,658	3.24	3.7	53.7	14.0	6.68	10
26-Jan-19	44.2	11	8	nr	9	nr	<4	1,801	3.48	3.7	53.7	14.0	6.72	<10
27-Jan-19	45.1	9	8	nr	9	nr	<4	1,759	3.87	3.8	53.6	13.5	6.70	110
28-Jan-19	43.1	13	9	nr	8	nr	<4	1,641	2.80	3.8	53.5	14.1	6.57	110
29-Jan-19	42.6	12	9	nr	8	nr	<4	1,632	2.69	3.8	53.5	14.0	6.66	10
30-Jan-19	42.6	12	9	nr	7	nr	<4	1,747	3.41	3.8	53.5	13.6	6.67	10
31-Jan-19	42.9	12	9	nr	7	nr	<4	1,700	3.78	3.8	53.4	13.7	6.62	60
<b>Max:</b>	47.3													
<b>Min:</b>	42.6													
<b>Average:</b>	<b>44.6</b>	<b>9</b>		<b>15</b>		<b>5</b>		<b>1,807</b>	<b>3.35</b>			<b>14.6</b>	<b>6.61</b>	
<b>Total Flow:</b>	<b>1382.0</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
- (8) \*\*\* Results reported with a correction factor