

City of Winnipeg  
Water and Waste Department  
South End Water Pollution Control Centre Monitoring Data  
September 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-Sep-18	46.5	12	8	20	17	6	5	1,731	3.65	4.1	47.7	18.6	6.61	<10
2-Sep-18	44.9	17	8	35	18	8	5	1,570	3.67	4.1	47.3	18.7	6.65	<10
3-Sep-18	48.1	14	9	32	19	7	5	1,722	3.49	4.1	47.1	18.6	6.61	<10
4-Sep-18	53.9	14	9	30	20	8	5	1,666	2.88	4.1	47.5	19.6	6.63	30
5-Sep-18	49.4	16	9	26	20	7	5	1,586	3.06	4.1	47.8	18.2	6.56	90
6-Sep-18	48.4	16	10	37	21	9	5	1,751	3.95	4.2	48.5	18.3	6.66	130
7-Sep-18	47.7	15	10	28	22	7	6	1,792	3.14	4.2	48.2	18.3	6.60	190
8-Sep-18	50.0	13	10	28	22	6	6	1,934	4.07	4.2	47.9	18.4	6.65	<10
9-Sep-18	52.7	10	10	nr	22	nr	6	1,908	3.61	4.2	47.3	18.3	6.60	40
10-Sep-18	50.5	11	10	nr	22	nr	6	1,666	3.52	4.2	46.8	18.6	6.66	60
11-Sep-18	51.7	7	10	20	23	5	6	1,886	2.92	4.1	46.2	18.8	6.52	110
12-Sep-18	51.5	45	12	>36	23	26	6	1,756	3.31	4.1	45.7	18.1	6.57	260
13-Sep-18	<b>119.4</b>	18	12	30	24	10	7	2,065	1.24	4.1	44.6	16.8	6.84	960
14-Sep-18	61.4	7	12	12	24	4	7	1,664	1.55	4.0	43.7	18.7	6.79	40
15-Sep-18	55.1	5	12	11	23	3	6	1,867	2.64	3.9	43.1	18.0	6.74	<10
16-Sep-18	55.2	4	12	16	23	4	6	1,706	3.36	3.9	42.6	18.5	6.67	<10
17-Sep-18	53.4	6	12	12	23	<3	6	1,806	2.80	3.9	42.2	17.7	6.62	<10
18-Sep-18	52.0	4	12	17	23	<3	6	1,810	3.16	3.8	42.1	18.1	6.62	10
19-Sep-18	51.0	17	12	nr	24	nr	6	1,827	4.39	3.9	42.2	17.7	6.62	80
20-Sep-18	55.7	8	12	16	24	5	6	1,962	4.13	3.9	42.2	17.7	6.66	10
21-Sep-18	65.6	6	12	13	23	4	6	1,897	2.30	3.9	41.9	16.9	6.66	<10
22-Sep-18	58.6	37	13	25	23	17	7	1,863	3.66	3.9	41.7	17.3	6.87	<10
23-Sep-18	74.4	8	13	12	23	5	7	1,971	2.47	3.8	41.1	16.0	6.76	40
24-Sep-18	60.4	6	13	14	23	4	7	1,630	1.86	3.8	40.7	17.0	6.64	60
25-Sep-18	59.3	7	12	18	22	<3	7	1,897	2.90	3.7	40.6	nr	6.62	<10
26-Sep-18	63.1	5	12	30	23	4	7	1,811	2.70	3.7	40.8	17.0	6.86	740
27-Sep-18	69.5	7	12	21	23	4	7	1,973	2.97	3.7	40.6	17.2	6.65	10
28-Sep-18	60.9	6	12	21	23	3	6	1,735	2.46	3.6	40.6	16.2	6.72	40
29-Sep-18	59.1	4	12	19	22	4	6	1,921	3.41	3.6	40.6	17.2	6.72	<10
30-Sep-18	58.3	5	12	26	22	5	6	1,906	3.21	3.6	40.6	16.6	6.71	<10
<b>Max:</b>	119.4													
<b>Min:</b>	44.9													
<b>Average:</b>	<b>57.6</b>	<b>12</b>		<b>22</b>		<b>6</b>		<b>1,809</b>	<b>3.08</b>			<b>17.8</b>	<b>6.67</b>	
<b>Total Flow:</b>	<b>1727.5</b>													
<b>Geo.Mean:</b>														<b>24</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