

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

**September 2021**

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-21	53.8	9	8	18	20	<4	<4	1,679	2.51	3.4	45.0	19.7	6.74	<10
2-Sep-21	53.2	8	8	20	20	<4	<4	1,708	3.70	3.4	44.7	19.4	6.77	10
3-Sep-21	53.1	8	8	16	20	5	<4	1,746	3.49	3.4	44.5	19.4	6.68	20
4-Sep-21	50.6	8	8	23	21	5	4	1,613	3.26	3.4	44.3	19.5	6.72	10
5-Sep-21	48.6	9	8	22	21	4	4	1,545	3.35	3.4	44.0	19.0	6.64	30
6-Sep-21	51.6	9	8	22	21	5	4	1,663	3.97	3.5	43.7	19.0	6.65	10
7-Sep-21	52.6	13	8	18	20	6	4	1,715	3.92	3.5	43.4	19.2	6.75	20
8-Sep-21	55.8	12	8	17	20	5	4	1,935	3.06	3.4	43.2	19.4	6.76	50
9-Sep-21	53.8	7	8	15	20	4	4	1,704	2.86	3.5	43.3	19.8	6.64	10
10-Sep-21	50.2	8	8	23	20	4	4	1,828	3.50	3.5	43.1	19.7	6.77	<10
11-Sep-21	50.9	6	8	20	20	5	4	1,862	3.22	3.6	42.8	19.7	6.76	10
12-Sep-21	51.0	9	8	23	20	5	4	1,872	3.05	3.6	42.5	19.0	6.63	10
13-Sep-21	51.0	9	8	18	20	4	4	1,822	3.43	3.6	42.4	19.1	6.62	40
14-Sep-21	50.5	25	9	nr	20	nr	4	1,984	3.16	3.5	42.5	19.4	6.68	10
15-Sep-21	50.2	17	9	9	19	4	4	2,014	3.77	3.5	42.6	19.4	6.72	>24,200
16-Sep-21	56.6	15	9	9	19	4	4	2,260	3.12	3.6	42.5	18.8	6.58	30
17-Sep-21	51.4	13	9	7	18	4	4	1,943	3.25	3.6	42.4	18.5	6.62	<10
18-Sep-21	49.8	12	10	8	18	2	4	1,970	3.70	3.6	42.2	18.3	6.68	10
19-Sep-21	51.8	9	9	7	17	2	<4	1,993	4.13	3.6	42.6	19.2	6.68	<10
20-Sep-21	53.3	11	9	7	17	4	4	2,015	3.42	3.7	43.3	18.8	6.65	10
21-Sep-21	50.5	9	9	8	16	4	<4	2,036	3.57	3.8	43.8	18.4	6.68	<10
22-Sep-21	50.7	10	9	9	16	<4	4	2,018	3.33	3.9	44.2	18.9	6.71	<10
23-Sep-21	50.4	10	9	17	16	4	4	2,108	4.40	4.0	44.8	18.9	6.63	10
24-Sep-21	50.4	11	10	16	16	4	4	2,116	3.92	4.0	45.3	18.8	6.72	<10
25-Sep-21	49.3	8	10	14	16	4	4	2,065	4.37	4.1	45.8	19.7	6.70	10
26-Sep-21	50.6	12	10	18	16	4	4	2,124	4.24	4.1	46.3	19.1	6.82	<10
27-Sep-21	49.5	12	10	14	16	5	4	1,978	4.27	4.2	47.0	19.0	6.55	30
28-Sep-21	47.8	12	10	18	16	5	4	2,031	3.14	4.2	47.6	19.6	6.67	<10
29-Sep-21	47.1	8	10	16	15	5	4	2,072	4.14	4.2	48.1	19.6	6.68	10
30-Sep-21	49.2	14	11	17	15	6	4	2,036	4.46	4.3	48.8	19.7	6.68	<10
<b>Max:</b>	56.6													
<b>Min:</b>	47.1													
<b>Average:</b>	<b>51.2</b>	<b>11</b>		<b>15</b>		<b>4</b>		<b>1,915</b>	<b>3.59</b>			<b>19.2</b>	<b>6.69</b>	
<b>Total Flow:</b>	<b>1,535.1</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