

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

**October 2020**

Licence 2684 RRR	File # 1071.10	Final Effluent 24 Hour Composite							Final Effluent Grab Sample					
		Date	Raw Sewage Daily Flow ML	TSS	BOD5	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
				(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-Oct-20	136.9	10	18	7	4,161	4.82	5.4	41.8	18.7	6.70	10	210		
2-Oct-20	129.4	13	15	5	4,439	5.33	5.4	42.3	18.5	6.82	60	100		
3-Oct-20	121.0	13	19	8	4,271	5.69	5.6	43.3	18.7	6.74	40	40		
4-Oct-20	128.2	14	22	11	4,372	5.59	5.7	43.8	18.6	6.83	2,250	1,550		
5-Oct-20	130.2	14	22	11	3,802	5.53	5.8	44.1	19.0	6.72	30	120		
6-Oct-20	181.7	30	45	20	5,742	5.75	5.8	44.5	19.3	6.78	330	360		
7-Oct-20	132.9	13	26	11	3,362	3.97	5.8	44.4	18.2	6.69	11,200	6,870		
8-Oct-20	130.2	12	17	9	4,218	4.91	5.9	44.4	18.6	6.58	100	60		
9-Oct-20	128.4	11	20	9	3,491	4.85	6.0	44.6	19.0	6.81	230	260		
10-Oct-20	116.0	11	18	9	4,106	5.75	6.0	44.7	18.6	6.84	1,480	1,860		
11-Oct-20	149.5	15	26	12	5,112	5.39	6.1	44.7	18.8	6.84	1,080	1,100		
12-Oct-20	129.5	11	20	8	3,483	4.29	6.1	44.5	18.1	6.73	6,130	4,610		
13-Oct-20	129.5	10	17	8	4,260	4.69	6.1	44.4	18.0	6.69	10	80		
14-Oct-20	138.6	10	24	9	4,753	4.89	6.1	44.5	18.1	6.71	30	20		
15-Oct-20	131.5	10	20	8	4,959	4.82	6.1	44.9	18.0	6.82	330	280		
16-Oct-20	125.3	9	21	8	4,409	4.79	6.1	45.1	17.9	6.76	120	80		
17-Oct-20	125.9	10	26	8	4,634	5.69	6.2	45.3	17.7	6.82	10	20		
18-Oct-20	127.7	7	27	9	4,598	5.70	6.2	45.5	17.6	6.78	30	20		
19-Oct-20	116.7	9	nr	nr	4,120	4.93	6.2	45.6	18.0	6.77	20	20		
20-Oct-20	132.6	10	nr	nr	4,894	4.99	6.2	45.9	17.7	6.73	40	30		
21-Oct-20	155.1	12	nr	nr	5,582	4.60	6.2	46.2	17.5	6.63	110	90		
22-Oct-20	136.0	9	14	7	4,867	3.54	6.1	46.3	17.1	6.71	<10	<10		
23-Oct-20	125.3	11	14	8	4,537	2.99	5.9	46.3	17.2	6.73	20	30		
24-Oct-20	126.7	25	19	14	5,104	0.81	5.7	46.8	17.2	6.70	110	130		
25-Oct-20	129.8	14	18	12	4,621	2.61	5.6	46.9	17.2	6.70	430	310		
26-Oct-20	128.9	12	12	5	4,497	3.04	5.6	47.0	17.2	6.80	10	20		
27-Oct-20	131.2	11	13	9	4,816	3.79	5.5	47.0	16.8	6.81	20	40		
28-Oct-20	144.3	14	nr	nr	5,195	3.90	5.5	47.1	16.5	6.80	30	10		
29-Oct-20	127.7	10	13	7	4,292	3.92	5.4	46.9	16.4	6.89	10	10		
30-Oct-20	135.5	10	14	7	5,541	4.71	5.5	47.0	16.8	6.82	<10	10		
31-Oct-20	151.4	11	15	8	5,406	4.25	5.5	47.0	16.5	6.76	10	<10		
<b>Max:</b>	181.7													
<b>Min:</b>	116.0													
<b>Average:</b>	<b>133.3</b>	<b>12</b>	<b>20</b>	<b>9</b>	<b>4,569</b>	<b>4.53</b>			<b>17.9</b>	<b>6.76</b>				
<b>Total Flow:</b>	<b>4,133.4</b>													
<b>Geo.Mean:</b>											<b>78</b>	<b>95</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) Raw wastewater flows in excess of 400 ML/D will by-pass the secondary process and flows in excess of 675 ML/D will cause raw sewage to by-pass the plant