

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

**May 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-May-20	227.3	30	nr	nr	5,955	2.50	1.8	30.4	13.1	7.06	360	310		
2-May-20	181.4	14	34	8	3,919	1.68	1.9	30.7	12.4	6.86	690	500		
3-May-20	171.6	13	24	6	4,565	2.20	1.9	30.8	12.8	6.97	80	80		
4-May-20	170.2	12	25	6	4,664	2.62	2.0	30.9	13.1	6.95	430	460		
5-May-20	169.3	13	30	8	4,520	3.07	2.0	31.0	13.1	6.88	200	170		
6-May-20	166.8	14	26	7	4,886	3.20	2.1	31.7	13.2	6.91	90	60		
7-May-20	161.6	14	26	8	3,942	3.25	2.2	32.5	13.1	6.95	90	nr		
8-May-20	162.6	14	nr	nr	4,877	3.08	2.3	33.1	13.0	6.82	90	70		
9-May-20	155.5	15	39	11	4,556	3.21	2.3	33.6	13.1	7.02	30	60		
10-May-20	149.3	18	18	7	4,552	2.65	2.4	34.0	12.8	6.81	60	60		
11-May-20	151.4	18	24	8	4,481	3.20	2.5	34.4	13.0	6.76	10	50		
12-May-20	153.6	18	22	9	4,685	3.66	2.6	34.9	14.8	6.91	20	20		
13-May-20	203.5	36	32	16	5,821	3.29	2.8	35.1	13.2	6.72	40	30		
14-May-20	215.0	16	25	9	4,492	2.08	2.8	35.0	12.0	6.83	240	410		
15-May-20	109.7	17	22	9	3,204	2.89	2.9	35.3	13.0	6.83	160	250		
16-May-20	151.0	17	19	11	4,287	3.04	3.0	35.5	13.2	6.81	180	200		
17-May-20	143.4	20	19	12	4,073	3.23	3.1	35.8	13.9	6.86	110	100		
18-May-20	147.8	18	16	9	4,140	4.84	3.2	36.2	14.1	6.89	60	70		
19-May-20	153.4	21	26	10	4,080	3.41	3.2	36.5	14.1	6.89	20	20		
20-May-20	162.5	13	23	11	4,566	3.17	3.3	36.6	14.3	6.86	20	20		
21-May-20	156.6	21	34	10	4,746	3.48	3.4	36.7	14.9	6.85	110	230		
22-May-20	168.2	19	33	9	5,651	3.49	3.4	37.2	14.9	6.85	100	250		
23-May-20	158.4	65	51	28	4,608	3.20	3.5	37.3	14.8	6.82	120	40		
24-May-20	282.3	20	29	9	4,941	1.41	3.4	36.8	15.5	6.92	1,790	1,860		
25-May-20	183.1	18	19	8	4,431	2.57	3.4	36.6	14.8	6.91	1,450	1,240		
26-May-20	180.9	17	22	10	5,209	3.32	3.5	36.9	14.8	6.95	2,140	2,280		
27-May-20	165.4	14	22	9	4,648	2.55	3.6	36.9	14.9	6.90	390	560		
28-May-20	160.3	18	23	na	4,391	2.34	3.6	37.1	14.9	6.94	1,320	1,160		
29-May-20	156.3	18	22	7	4,721	2.95	3.6	37.5	14.5	7.02	4,880	7,700		
30-May-20	145.9	17	32	13	4,450	5.35	3.8	37.8	14.6	6.93	2,480	4,110		
31-May-20	150.3	25	37	13	4,433	5.14	3.9	38.0	15.1	6.84	1,670	3,260		
<b>Max:</b>	282.3													
<b>Min:</b>	109.7													
<b>Average:</b>	<b>168.2</b>	<b>19</b>	<b>27</b>	<b>10</b>	<b>4,597</b>	<b>3.10</b>			<b>13.8</b>	<b>6.89</b>				
<b>Total Flow:</b>	<b>5,214.4</b>										<b>187</b>	<b>221</b>		
<b>Geo.Mean:</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