

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

**September 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-Sep-20	155.5	15	18	6	3,591	3.29	4.2	42.3	19.5	6.77	80	90		
2-Sep-20	205.5	46	31	20	3,575	2.38	4.2	41.7	19.5	6.80	220	200		
3-Sep-20	279.4	12	13	6	2,143	1.14	4.0	40.7	17.2	6.64	640	710		
4-Sep-20	151.1	13	15	6	2,977	2.29	3.9	40.0	18.6	6.72	150	140		
5-Sep-20	132.1	13	18	5	2,392	3.10	3.9	39.4	19.3	6.75	30	60		
6-Sep-20	136.7	12	19	7	2,911	3.95	3.9	38.8	19.5	6.75	40	90		
7-Sep-20	134.6	20	18	5	2,693	3.91	3.9	38.5	18.9	6.82	250	160		
8-Sep-20	142.0	15	19	6	3,011	3.69	3.9	38.2	18.8	6.66	100	110		
9-Sep-20	137.2	13	20	6	3,073	3.87	3.8	37.6	19.0	6.79	40	170		
10-Sep-20	136.2	14	21	6	2,968	3.70	3.8	37.0	18.9	6.67	110	80		
11-Sep-20	138.6	14	20	6	3,381	4.45	3.8	36.5	19.6	6.63	250	260		
12-Sep-20	131.1	13	19	7	3,357	4.46	3.8	36.6	19.7	6.68	190	220		
13-Sep-20	136.0	13	19	6	3,496	4.52	3.9	37.0	19.5	6.68	120	50		
14-Sep-20	127.8	9	19	7	3,348	4.17	4.0	37.6	19.5	6.65	930	1,790		
15-Sep-20	132.2	9	18	6	3,610	4.73	4.1	37.9	19.4	6.65	610	720		
16-Sep-20	132.6	11	18	6	3,700	4.87	4.2	38.1	19.2	6.70	570	660		
17-Sep-20	138.1	12	18	6	4,033	4.86	4.2	38.2	19.1	6.70	170	100		
18-Sep-20	128.0	14	17	5	3,713	5.02	4.3	38.3	19.2	6.73	10	30		
19-Sep-20	128.6	11	15	6	3,509	5.21	4.3	38.2	19.4	6.64	40	30		
20-Sep-20	133.9	10	16	5	3,630	5.52	4.4	38.1	19.5	6.62	40	30		
21-Sep-20	135.5	8	25	13	3,725	5.23	4.4	38.3	19.7	6.69	20	30		
22-Sep-20	126.9	12	14	6	3,490	6.73	4.6	38.6	19.8	6.71	<10	10		
23-Sep-20	133.3	14	19	7	4,852	12.50	4.9	38.9	19.6	6.65	40	50		
24-Sep-20	135.6	7	17	8	4,568	6.50	5.0	38.8	19.7	6.75	40	30		
25-Sep-20	148.8	13	19	7	4,181	4.78	5.0	39.1	19.7	6.82	100	60		
26-Sep-20	128.7	12	17	7	3,578	5.10	5.1	39.3	19.5	6.78	760	720		
27-Sep-20	130.0	12	20	7	4,431	5.19	5.1	39.7	19.4	6.80	1,270	820		
28-Sep-20	123.6	17	18	7	3,919	5.00	5.2	39.9	19.3	6.75	40	60		
29-Sep-20	132.0	13	18	8	4,159	5.10	5.3	40.6	19.4	6.81	1,660	1,330		
30-Sep-20	144.9	11	18	6	4,637	4.91	5.3	41.4	19.3	6.75	1,840	840		
<b>Max:</b>	279.4													
<b>Min:</b>	123.6													
<b>Average:</b>	<b>142.5</b>	<b>14</b>	<b>19</b>	<b>7</b>	<b>3,555</b>	<b>4.67</b>			<b>19.3</b>	<b>6.72</b>				
<b>Total Flow:</b>	<b>4,276.5</b>										<b>129</b>	<b>138</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