

City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
May 2021

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-21	134.1	15	21	8	5,646	4.68	3.9	44.9	14.6	6.83	2,360	2,380		
2-May-21	129.1	14	21	8	5,423	4.99	4.0	44.9	14.4	6.79	40	20		
3-May-21	134.8	18	20	8	4,918	4.02	4.0	44.8	14.5	6.82	<10	<10		
4-May-21	138.9	15	25	7	5,154	4.38	3.9	44.8	14.4	6.76	50	10		
5-May-21	138.0	16	25	8	5,285	4.63	4.0	44.8	14.7	6.78	20	10		
6-May-21	137.1	9	26	7	4,676	3.91	4.0	44.5	14.7	6.76	30	80		
7-May-21	138.0	13	30	7	5,384	4.15	4.0	44.2	14.8	6.82	150	110		
8-May-21	133.5	12	37	7	5,074	3.83	3.9	44.1	14.9	6.79	270	260		
9-May-21	139.2	11	32	8	5,206	3.67	4.0	44.8	14.7	6.84	100	70		
10-May-21	143.3	12	26	7	5,301	3.44	4.0	45.1	15.0	6.86	20	30		
11-May-21	136.2	12	22	6	4,997	3.64	4.0	45.2	15.1	6.80	440	570		
12-May-21	144.0	14	25	6	5,011	3.44	4.0	45.4	15.4	6.81	430	380		
13-May-21	145.0	11	25	6	5,032	3.50	4.1	45.7	15.2	6.83	140	160		
14-May-21	145.8	11	33	6	5,175	3.59	4.1	45.9	15.7	6.74	40	50		
15-May-21	153.1	14	35	8	5,480	3.53	4.2	46.4	15.7	6.85	110	150		
16-May-21	145.6	13	40	6	4,892	3.06	4.3	46.9	15.6	6.84	20	40		
17-May-21	141.3	16	27	6	4,944	3.42	4.3	47.6	16.3	6.85	110	120		
18-May-21	136.9	14	25	6	4,820	3.46	4.4	48.1	16.3	6.81	220	230		
19-May-21	142.0	16	37	7	7,055	4.47	4.5	48.7	16.7	6.84	230	240		
20-May-21	153.0	20	39	7	7,618	4.69	4.6	49.2	16.2	6.94	360	170		
21-May-21	162.9	94	37	28	6,595	3.71	4.7	49.6	15.9	6.90	15	210		
22-May-21	485.8	78	25	18	5,830	0.87	4.6	49.1	11.0	7.00	>24,200	>24,200		
23-May-21	253.1	21	10	6	7,137	0.93	4.6	48.6	12.4	7.06	90	90		
24-May-21	185.7	19	11	7	4,233	2.04	4.5	48.2	13.5	7.00	80	100		
25-May-21	175.7	19	14	8	4,569	2.67	4.5	47.7	14.6	6.90	10	10		
26-May-21	166.1	22	18	9	5,065	3.19	4.5	47.3	nr	nr	nr	nr		
27-May-21	152.2	19	19	7	4,354	3.35	4.5	46.7	14.6	6.90	50	60		
28-May-21	147.2	24	20	8	5,064	3.71	4.5	46.4	14.9	6.88	80	30		
29-May-21	148.5	21	23	9	5,034	3.66	4.5	46.0	15.2	6.94	80	150		
30-May-21	145.2	23	29	12	5,039	3.34	4.5	45.7	15.2	6.94	90	230		
31-May-21	151.2	23	27	11	5,154	3.31	4.5	45.6	15.5	6.98	730	660		
Max:	485.8													
Min:	129.1													
Average:	160.7	20	26	8	5,328	3.52			14.9	6.86				
Total Flow:	4,982.3													
Geo.Mean:											99	105		

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