

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
January 2017**

Licence # 2669 E RR	File # 53.10	Final Effluent 24 Hour Composite						Final Effluent Grab Sample					
		Date	Raw Sewage Daily Flow	TSS	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
			ML	(mg/L)	(mg/L)	(kg NH3-N/day)	(mg/L-P)	(mg/L-P)*	(mg/L-N)*	(°C)	(units)	MPN/100 mL	
1-Jan-17	20.5	6	5	24.2	0.11	0.2	3.9	1.3	7.97	9	9		
2-Jan-17	21.5	6	4	33.3	0.14	0.2	4.0	1.7	ns	43	23		
3-Jan-17	20.7	10	nr	46.5	0.17	0.2	4.2	2.0	7.84	93	43		
4-Jan-17	20.8	5	4	46.2	0.18	0.2	4.4	1.4	7.78	43	43		
5-Jan-17	21.0	4	4	56.1	0.17	0.2	4.5	1.7	7.74	43	43		
6-Jan-17	20.8	<3	4	65.2	0.18	0.2	4.8	1.9	7.90	93	43		
7-Jan-17	21.4	5	4	77.2	0.17	0.3	5.1	1.0	7.85	23	23		
8-Jan-17	22.2	5	4	79.9	0.20	0.3	5.3	1.4	7.66	21	15		
9-Jan-17	21.1	6	3	84.7	0.21	0.3	5.4	1.5	7.52	240	93		
10-Jan-17	20.8	5	<3	80.2	0.19	0.3	5.6	1.7	7.73	43	43		
11-Jan-17	20.8	4	5	85.5	0.21	0.3	5.9	2.2	7.66	240	93		
12-Jan-17	20.7	3	4	90.6	0.20	0.3	6.2	1.2	ns	23	23		
13-Jan-17	20.4	4	<3	94.3	0.22	0.3	6.4	0.9	7.91	210	210		
14-Jan-17	21.3	4	<3	103.7	0.23	0.3	6.7	1.0	7.65	150	150		
15-Jan-17	21.9	10	3	111.5	0.25	0.3	7.1	1.2	7.57	150	150		
16-Jan-17	20.8	4	<3	107.6	0.25	0.3	7.4	1.6	7.58	430	430		
17-Jan-17	20.5	<3	<3	110.7	0.26	0.3	7.7	1.7	7.58	430	430		
18-Jan-17	20.9	3	<3	108.6	0.24	0.3	8.1	2.0	7.48	430	430		
19-Jan-17	20.7	3	<3	105.6	0.23	0.3	8.5	1.9	7.47	430	430		
20-Jan-17	22.1	4	<3	113.6	0.25	0.3	8.8	1.9	7.48	930	930		
21-Jan-17	32.9	4	<3	168.9	0.26	0.3	9.2	1.7	7.40	300	300		
22-Jan-17	31.0	3	<3	156.7	0.25	0.3	9.6	2.4	7.41	430	430		
23-Jan-17	25.7	<3	<3	132.6	0.25	0.3	9.9	1.9	7.45	2,400	2,400		
24-Jan-17	22.6	4	<3	121.1	0.29	0.3	10.2	2.0	7.29	430	240		
25-Jan-17	22.0	4	<3	104.4	0.24	0.3	10.3	1.7	7.46	2,400	2,400		
26-Jan-17	21.7	<3	<3	99.7	0.22	0.3	10.5	1.9	7.39	430	430		
27-Jan-17	21.5	3	<3	100.5	0.22	0.3	10.7	2.1	7.45	93	93		
28-Jan-17	21.9	5	<3	91.3	0.23	0.3	11.0	1.6	7.39	430	240		
29-Jan-17	22.3	3	<3	93.2	0.21	0.3	11.3	1.7	7.40	930	210		
30-Jan-17	21.2	3	<3	85.9	0.22	0.3	11.6	1.9	7.24	23	23		
31-Jan-17	20.9	<3	<3	83.6	0.22	0.3	11.9	2.4	7.66	43	23		
Max:	32.9												
Min:	20.4												
Average:	22.1	4	<3	92	0.22			1.7	7.58				
Total Flow:	684.5												
Geo.Mean:										157	123		

Notes:

(1) Effluent ammonia load based upon Raw Sewage flows and Final Cell 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