

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

Licence # 2669 E RR	File # 53.10	Final Effluent 24 Hour Composite						Final Effluent Grab Sample					
		Date	Raw Sewage Daily Flow ML	TSS	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
				(mg/L)	(mg/L)	(kg NH3-N/day)	(mg/L-P)	(mg/L-P)*	(mg/L-N)*	(°C)	(units)	MPN/100 mL	
1-Jul-17	25.4	<3	<3	0.1	0.43	0.7	1.8	20.5	9.54	26	47		
2-Jul-17	23.4	<3	<3	0.1	0.48	0.7	1.8	20.5	9.63	67	48		
3-Jul-17	24.9	<3	<3	0.1	0.38	0.7	1.7	21.0	9.67	36	44		
4-Jul-17	27.1	9	<3	0.1	0.38	0.7	1.7	21.1	9.66	40	50		
5-Jul-17	25.9	<3	<3	0.1	0.36	0.7	1.6	22.5	9.69	37	38		
6-Jul-17	25.5	<3	<3	0.1	0.35	0.7	1.6	23.7	9.64	35	33		
7-Jul-17	27.3	<3	<3	0.1	0.30	0.7	1.5	23.3	9.78	6	12		
8-Jul-17	25.2	<3	<3	0.1	0.28	0.7	1.5	23.7	9.80	10	17		
9-Jul-17	25.2	<3	<3	0.1	0.24	0.7	1.5	24.5	9.88	16	10		
10-Jul-17	25.5	3	<3	0.1	0.22	0.6	1.5	23.0	9.49	60	84		
11-Jul-17	26.4	<3	<3	0.1	0.23	0.6	1.4	24.4	9.89	nr	nr		
12-Jul-17	45.9	<3	<3	0.2	0.30	0.6	1.4	23.8	9.49	102	108		
13-Jul-17	29.3	<3	<3	0.1	0.24	0.6	1.4	21.1	9.82	9	15		
14-Jul-17	26.9	3	<3	2.4	0.24	0.6	1.4	21.8	9.84	2	6		
15-Jul-17	25.4	3	<3	0.1	0.20	0.6	1.4	22.1	9.91	5	4		
16-Jul-17	25.3	3	<3	0.1	0.16	0.6	1.4	22.3	10.1	2	13		
17-Jul-17	26.0	25	7	0.1	0.16	0.5	1.4	22.6	9.64	56	30		
18-Jul-17	24.8	18	6	0.1	0.14	0.5	1.4	22.5	10.1	6	13		
19-Jul-17	24.4	13	6	0.1	0.16	0.5	1.4	21.7	10.1	7	10		
20-Jul-17	24.5	12	5	0.1	0.15	0.5	1.4	21.9	10.1	3	3		
21-Jul-17	25.6	11	6	1.0	0.19	0.5	1.4	22.3	10.1	<1	<1		
22-Jul-17	28.3	11	5	0.1	0.15	0.5	1.4	21.8	10.2	<1	1		
23-Jul-17	25.3	12	5	0.1	0.15	0.5	1.4	21.5	10.1	2	3		
24-Jul-17	25.3	7	4	0.1	0.18	0.4	1.4	22.6	10.2	<1	1		
25-Jul-17	26.3	9	6	0.8	0.13	0.4	1.4	22.6	10.2	1	<1		
26-Jul-17	24.6	9	4	0.1	0.11	0.4	1.5	22.7	10.2	5	9		
27-Jul-17	24.4	6	nr	0.1	0.12	0.4	1.5	23.9	10.2	<1	<1		
28-Jul-17	24.1	8	4	0.1	0.12	0.4	1.5	24.8	10.2	<1	<1		
29-Jul-17	23.3	7	4	0.1	0.10	0.4	1.5	24.9	10.2	3	1		
30-Jul-17	24.1	6	4	0.5	0.11	0.4	1.5	25.1	10.2	2	2		
31-Jul-17	24.7	5	4	0.7	0.13	0.3	1.4	26.0	10.2	1	1		
Max:	45.9												
Min:	23.3												
Average:	26.1	6	3	0.3	0.22			22.8	9.93				
Total Flow:	810.1												
Geo.Mean:										6	7		

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