

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

July 2015

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-Jul-15	25.8	8	4	27.1	1.30	1.0	3	24	8.24	75	75		
2-Jul-15	26.7	9	3	30.4	1.25	1.0	3	24	8.27	230	230		
3-Jul-15	25.2	11	5	26.0	1.26	1.0	3	24	8.28	36	36		
4-Jul-15	26.8	13	5	19.3	1.26	1.1	3	24	8.53	36	36		
5-Jul-15	42.4	9	4	33.1	1.25	1.1	3	23	8.44	430	430		
6-Jul-15	30.9	11	4	18.5	1.24	1.1	3	21	8.30	140	140		
7-Jul-15	28.3	11	4	8.8	1.07	1.1	3	20	8.60	36	36		
8-Jul-15	27.2	13	<3	6.8	1.03	1.2	3	21	8.77	92	92		
9-Jul-15	26.8	11	<3	4.6	1.01	1.2	3	21	8.91	92	92		
10-Jul-15	25.0	14	3	3.8	0.92	1.2	3	22	8.93	92	92		
11-Jul-15	26.1	13	3	2.9	0.85	1.2	3	24	9.07	92	92		
12-Jul-15	27.7	14	3	2.2	0.81	1.2	3	24	9.15	92	92		
13-Jul-15	26.4	10	<3	0.1	0.70	1.2	2	25	9.12	9	9		
14-Jul-15	25.4	9	<3	0.1	0.69	1.2	2	25	9.19	36	23		
15-Jul-15	25.2	6	<3	1.3	0.71	1.2	2	25	9.11	23	23		
16-Jul-15	25.5	6	<3	5.1	0.74	1.2	2	25	9.07	4	4		
17-Jul-15	25.3	6	<3	7.1	0.75	1.2	2	25	9.01	9	9		
18-Jul-15	24.0	10	<3	6.7	0.80	1.1	2	24	9.02	14	7		
19-Jul-15	23.9	11	<3	5.5	0.85	1.1	2	22	8.96	36	36		
20-Jul-15	24.3	ns	ns	ns	ns	1.1	2	22	8.99	21	21		
21-Jul-15	23.1	ns	ns	ns	ns	1.1	2	22	9.07	15	9		
22-Jul-15	24.1	ns	ns	ns	ns	1.0	2	23	9.20	9	4		
23-Jul-15	24.7	13	<3	0.1	0.60	1.1	2	24	9.25	<3	<3		
24-Jul-15	33.8	8	<3	2.4	0.59	1.0	2	24	9.23	92	92		
25-Jul-15	25.6	12	4	1.3	0.50	1.0	2	24	9.38	3	3		
26-Jul-15	25.4	8	<3	0.5	0.46	1.0	2	25	9.38	4	4		
27-Jul-15	25.9	11	<3	0.1	0.42	1.0	2	26	9.30	9	9		
28-Jul-15	31.1	12	<3	1.6	0.45	1.0	2	26	9.39	23	23		
29-Jul-15	27.5	10	<3	2.8	0.54	1.0	2	22	9.22	23	15		
30-Jul-15	27.3	17	<3	0.1	0.33	1.0	2	22	9.33	380	380		
31-Jul-15	26.0	21	4	0.1	0.36	0.9	2	22	9.52	4	4		
Max:	42.4												
Min:	23.1												
Average:	26.9	11	3	8	0.81			23	8.98				
Total Flow:	833.4												
Geo.Mean:										29	26		

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

(5) Total Nitrogen results are calculated from TKN and nitrate values