

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
August 2013**

Licence 2669 E RR	Raw Sewage	Final Effluent 24 Hour Composite						Final Effluent Grab Sample			
		TSS	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
1-Aug-13	26.0	6	nr	0.3	0.57	0.6	1	19	9.89	<3	<3
2-Aug-13	25.6	7	nr	1.8	0.40	0.6	1	20	9.84	23	23
3-Aug-13	23.9	9	<3	0.2	0.41	0.6	1	20	9.80	23	23
4-Aug-13	23.9	7	<3	0.2	0.35	0.6	1	19	9.89	15	15
5-Aug-13	25.8	4	<3	0.3	0.43	0.6	1	19	9.81	93	93
6-Aug-13	26.3	<4	<3	0.3	0.41	0.6	1	19	9.73	7	7
7-Aug-13	24.7	6	<3	0.2	0.49	0.6	1	20	9.68	7	7
8-Aug-13	24.4	5	<3	0.2	0.48	0.6	1	18	9.73	9	9
9-Aug-13	24.0	7	<3	0.2	0.51	0.6	1	18	9.68	15	15
10-Aug-13	24.8	7	<3	0.2	0.55	0.6	1	18	9.60	9	9
11-Aug-13	25.6	4	<3	0.3	0.58	0.6	1	19	9.55	9	9
12-Aug-13	24.8	4	<3	0.2	0.55	0.6	1	19	9.55	7	7
13-Aug-13	23.9	6	<3	0.2	0.55	0.6	1	19	9.53	23	23
14-Aug-13	24.2	<4	<3	0.2	0.53	0.6	1	19	9.58	430	430
15-Aug-13	23.9	4	<3	0.2	0.52	0.6	1	19	9.61	4	4
16-Aug-13	23.8	5	<3	0.2	0.54	0.6	1	19	9.59	9	9
17-Aug-13	23.2	8	<3	0.2	0.58	0.6	1	19	9.62	21	7
18-Aug-13	24.0	4	<3	0.2	0.67	0.6	1	20	9.52	75	75
19-Aug-13	32.1	<4	<3	0.3	0.68	0.6	1	20	9.47	210	210
20-Aug-13	26.3	4	<3	0.3	0.67	0.6	1	21	9.58	43	43
21-Aug-13	25.0	<4	<3	0.2	0.65	0.7	1	22	9.49	75	75
22-Aug-13	24.4	5	<3	0.2	0.58	0.7	1	21	9.63	43	<3
23-Aug-13	24.1	8	<3	0.7	0.63	0.7	1	21	9.59	43	15
24-Aug-13	23.9	7	<3	1.0	0.75	0.7	1	21	9.48	43	43
25-Aug-13	24.2	5	<3	0.2	0.79	0.7	1	22	9.39	43	43
26-Aug-13	24.7	4	<3	0.2	0.81	0.7	1	22	9.35	43	43
27-Aug-13	24.3	5	<3	0.5	0.79	0.7	1	24	9.29	75	75
28-Aug-13	24.1	<4	<3	0.2	0.70	0.7	1	25	9.30	230	21
29-Aug-13	23.8	4	<3	0.7	0.74	0.7	1	25	9.28	43	23
30-Aug-13	23.3	4	<3	0.2	0.77	0.8	1	24	9.23	93	93
31-Aug-13	23.0	7	<3	0.9	0.83	0.8	1	24	9.32	150	150
Max:	32.1										
Min:	23.0										
Average:	24.72	5	<3	0.4	0.60			20	9.57		
Total Flow:	766.2										
Geo.Mean:										29	24

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