

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
December 2014**

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
										(mg/L)	
Date	Daily Flow ML										
1-Dec-14	20.9	26	22	74.6	0.06	0.6	7	1	8.60	<3	<3
2-Dec-14	20.7	29	23	72.0	0.20	0.6	7	1	8.55	4	4
3-Dec-14	20.5	19	24	71.8	0.14	0.6	7	1	8.53	<3	<3
4-Dec-14	20.5	25	21	74.0	0.12	0.6	7	1	8.45	<3	<3
5-Dec-14	20.6	24	21	75.2	0.12	0.6	8	1	8.59	<3	<3
6-Dec-14	21.3	22	18	83.7	0.19	0.6	8	1	8.54	4	4
7-Dec-14	21.8	18	19	81.3	0.18	0.6	8	1	8.44	<3	<3
8-Dec-14	20.8	20	19	77.2	0.13	0.6	8	2	8.59	<3	<3
9-Dec-14	20.7	20	23	75.6	0.13	0.6	8	1	8.47	<3	<3
10-Dec-14	20.5	27	17	64.2	0.20	0.6	8	1	8.57	<3	<3
11-Dec-14	20.2	18	16	67.7	0.13	0.6	8	1	8.36	<3	<3
12-Dec-14	20.3	18	15	65.8	0.13	0.6	8	1	8.45	<3	<3
13-Dec-14	21.2	23	15	70.0	0.12	0.5	8	1	8.50	<3	<3
14-Dec-14	22.3	20	13	72.5	0.13	0.5	8	1	8.25	4	4
15-Dec-14	20.7	18	nr	66.4	0.14	0.5	8	1	8.29	43	45
16-Dec-14	20.4	10	nr	66.7	0.14	0.5	8	1	8.19	<3	<3
17-Dec-14	20.6	18	15	72.5	0.15	0.5	9	1	8.03	<3	<3
18-Dec-14	20.7	17	14	64.8	0.13	0.5	9	1	8.12	<3	<3
19-Dec-14	20.6	19	13	75.2	0.14	0.5	9	1	8.33	<3	<3
20-Dec-14	21.2	19	13	71.4	0.13	0.5	9	1	8.38	<3	<3
21-Dec-14	21.4	17	13	73.0	0.16	0.5	9	1	8.19	<3	<3
22-Dec-14	21.0	19	13	72.5	0.29	0.5	9	1	8.21	9	4
23-Dec-14	21.0	19	12	72.9	0.13	0.5	9	1	8.26	<3	<3
24-Dec-14	21.7	15	13	81.4	0.20	0.5	9	1	8.26	<3	<3
25-Dec-14	20.0	17	12	68.8	0.15	0.5	9	1	8.10	<3	<3
27-Dec-14	20.3	21	13	68.2	0.13	0.5	9	1	8.06	4	4
26-Dec-14	20.0	5	11	75.4	0.17	0.5	9	0	8.21	4	4
28-Dec-14	20.4	13	11	69.0	0.16	0.5	9	1	8.05	9	9
29-Dec-14	20.1	12	11	67.9	0.14	0.5	9	0	8.11	9	9
30-Dec-14	20.1	20	11	64.9	0.15	0.5	9	1	8.01	4	4
31-Dec-14	20.9	15	11	70.0	0.16	0.5	9	0	8.03	<3	<3
Max:	22.3										
Min:	20.0										
Average:	20.75	19	16	72	0.15			1	8.31		
Total Flow:	643.4										
Geo.Mean:										<3	<3

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