

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
November 2009**

Date	Raw Sewage	Final Effluent 24 Hour Composite									Final Effluent Grab Sample			
	Daily Flow	TSS	cBOD5	Ammonia		Ortho Phosphorus	Total Phosphorus		Total Nitrogen		Temp.	pH	Fecal Coliform	E.Coli
	ML	(mg/L)	(mg/L)	(mg/L-N)	(kg NH3-N/day)	(mg/L-P)	(mg/L-P)	(mg/L-P)*	(mg/L-N)	(mg/L-N)*	(°C)	(units)	MPN/100 mL	
1-Nov-09	26.1	6	<2	3.8	98	0.45	0.6	0.9	6	5	4	8.10	17	7
2-Nov-09	24.2	5	<2	4.0	96	0.42	0.7	0.9	6	5	3	8.21	34	17
3-Nov-09	23.6	8	<2	3.9	93	0.40	0.9	0.9	7	5	2	8.14	2	2
4-Nov-09	23.5	6	<2	4.2	100	0.40	nr	0.9	nr	5	2	8.17	8	2
5-Nov-09	23.5	8	3	4.3	100	0.37	nr	0.9	nr	5	2	8.16	31	31
6-Nov-09	23.5	9	<2	4.5	107	0.38	0.6	0.8	7	5	2	8.21	<2	<2
7-Nov-09	24.1	5	<2	nr	nr	nr	0.5	0.8	8	5	3	8.17	2	2
8-Nov-09	24.5	4	<2	4.4	106	0.34	0.4	0.8	6	5	3	8.10	11	<2
9-Nov-09	23.4	6	2	4.5	106	0.34	0.5	0.8	7	5	4	8.20	2	<2
10-Nov-09	22.3	8	<2	4.5	100	0.33	0.4	0.7	6	5	4	8.07	2	2
11-Nov-09	23.8	6	2	5.3	126	0.37	0.3	0.7	8	6	5	8.09	2	2
12-Nov-09	22.3	6	<2	4.6	103	0.32	0.5	0.7	8	6	5	8.13	7	4
13-Nov-09	22.6	5	<2	4.6	104	0.31	0.5	0.7	8	6	5	8.14	2	2
14-Nov-09	23.3	5	2	4.6	107	0.30	0.4	0.7	11	6	4	8.11	700	140
15-Nov-09	23.9	6	<2	4.8	114	0.30	0.3	0.6	9	6	3	8.10	2	2
16-Nov-09	22.8	4	<2	4.9	112	0.33	0.6	0.6	11	7	1	8.17	4	<2
17-Nov-09	22.6	7	<2	4.7	106	0.29	0.3	0.6	12	7	2	8.22	2	<2
18-Nov-09	22.4	7	<2	5.0	111	0.28	0.4	0.6	9	7	1	8.20	4	<2
19-Nov-09	22.9	7	<2	5.0	115	0.28	0.4	0.6	9	7	1	8.27	<2	<2
20-Nov-09	22.8	5	<2	4.8	110	0.27	0.3	0.6	7	7	1	8.14	<2	<2
21-Nov-09	24.2	4	<2	4.9	119	0.27	0.6	0.6	8	7	2	8.21	<2	<2
22-Nov-09	24.4	6	<2	5.0	121	0.25	0.3	0.5	nr	7	2	8.19	<2	<2
23-Nov-09	22.7	5	<2	5.0	113	0.25	0.3	0.5	nr	7	2	8.22	2	2
24-Nov-09	22.0	<4	<2	5.1	113	0.24	0.4	0.5	10	8	6	8.16	<2	<2
25-Nov-09	22.0	<4	<2	4.9	107	0.30	0.3	0.5	8	8	2	8.17	<2	<2
26-Nov-09	22.1	5	<2	4.8	107	0.24	<0.3	0.5	7	8	1	8.15	<2	<2
27-Nov-09	22.0	6	<2	4.9	107	0.20	0.4	0.5	9	8	1	8.15	2	2
28-Nov-09	22.7	5	<2	5.0	114	0.21	<0.3	0.4	11	8	1	8.21	2	2
29-Nov-09	23.6	4	2	5.1	119	0.21	nr	0.4	nr	8	1	8.21	<2	<2
30-Nov-09	22.4	<4	2	5.1	114	0.20	0.5	0.4	nr	8	1	8.17	<2	<2
Max:	26.1													
Min:	22.0													
Average:	23.2	5	<2	4.7	109	0.31	0.4		8		3	8.16		
Geo.Mean:													3	2

Notes:

(1) * = 30 day rolling average

(2) Effluent ammonia load based upon Raw Sewage flows and Final Cell NH3-N concentrations

(3) nr - not recorded or no result; na - not analyzed; ns - no sample

(4) Final Effluent flow data unavailable

(5) Where < values are reported 50% of the MDL is used for calculated results

(6) Licence No. 2669 E RR