

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
June 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-Jun-09	30.7	21	7	0.14	4	1.18	1.7	1.4	3	5	15	8.88	<2	<2
2-Jun-09	28.5	21	8	0.14	4	1.18	1.8	1.4	5	5	15	9.01	<2	<2
3-Jun-09	27.9	24	7	0.19	5	1.25	1.7	1.5	2	5	15	9.10	4	2
4-Jun-09	29.9	24	10	0.16	5	1.27	1.7	1.5	2	5	16	9.24	2	2
5-Jun-09	29.3	28	16	0.18	5	1.31	1.8	1.5	2	5	13	9.21	<2	<2
6-Jun-09	27.9	20	10	0.13	4	1.26	1.8	1.5	2	5	13	9.27	6	6
7-Jun-09	28.1	26	nr	0.15	4	1.22	1.7	1.5	5	5	14	9.22	<2	<2
8-Jun-09	35.4	22	6	0.16	6	1.22	1.6	1.5	3	5	14	9.16	<2	<2
9-Jun-09	40.5	18	6	0.17	7	1.24	1.7	1.5	4	5	14	9.28	<2	<2
10-Jun-09	32.0	17	5	0.24	8	1.26	1.7	1.6	2	5	14	9.32	2	2
11-Jun-09	30.4	15	5	0.26	8	1.28	1.4	1.6	2	5	15	9.33	4	4
12-Jun-09	33.3	14	6	0.31	10	1.31	1.7	1.6	3	5	16	9.23	2	2
13-Jun-09	29.0	14	4	0.29	8	1.35	1.6	1.6	2	4	17	9.16	11	11
14-Jun-09	29.6	7	4	0.30	9	1.35	1.9	1.6	2	4	18	9.15	4	2
15-Jun-09	33.9	16	5	0.37	13	1.36	2.0	1.6	4	4	20	9.19	<2	<2
16-Jun-09	32.9	18	5	0.42	14	1.43	1.8	1.6	2	4	20	9.25	2	2
17-Jun-09	33.5	15	5	0.39	13	1.43	1.9	1.6	2	4	21	9.27	<2	<2
18-Jun-09	28.9	nr	6	0.31	9	1.41	2.1	1.7	2	4	21	9.13	23	23
19-Jun-09	28.8	9	7	0.23	7	1.35	2.1	1.7	2	4	21	9.20	13	13
20-Jun-09	21.6	17	5	0.24	5	1.27	2.0	1.7	5	4	22	9.20	7	7
21-Jun-09	28.8	18	4	0.16	5	1.07	1.1	1.7	2	4	22	9.27	2	2
22-Jun-09	30.3	15	6	0.22	7	1.14	1.6	1.7	4	4	22	9.30	8	8
23-Jun-09	23.1	32	6	0.23	5	1.11	1.7	1.7	4	4	23	9.06	2	2
24-Jun-09	23.1	27	7	0.16	4	1.03	1.7	1.7	4	4	22	9.31	8	8
25-Jun-09	26.2	24	6	0.11	3	0.94	1.5	1.7	3	4	22	9.27	27	27
26-Jun-09	30.1	18	5	0.21	6	0.99	2.1	1.7	2	4	22	9.36	8	8
27-Jun-09	54.1	30	5	0.40	22	1.32	1.6	1.7	4	3	21	9.23	17	17
28-Jun-09	44.4	37	5	0.38	17	1.36	nr	1.7	nr	4	19	9.11	4	2
29-Jun-09	33.1	20	6	0.45	15	1.53	1.9	1.7	3	4	18	9.09	13	13
30-Jun-09	30.6	27	7	0.44	13	1.58	2.1	1.8	4	4	18	9.11	4	2
Max:	54.1													
Min:	21.6													
Average:	31.2	20	6	0.25	8	1.27	1.8		3		18	9.20		
Geo.Mean:													4	3

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 R