

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
October 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-Oct-09	23.9	58	11	0.15	4	1.07	1.7	1.9	4	5	10	9.18	46	21
2-Oct-09	23.2	35	7	0.32	7	1.15	1.6	1.9	3	5	9	9.16	33	33
3-Oct-09	23.4	30	6	0.34	8	1.29	1.4	1.9	3	5	9	9.09	330	26
4-Oct-09	24.4	22	6	0.41	10	1.06	1.3	1.9	6	5	9	9.11	4	4
5-Oct-09	23.4	18	5	0.49	11	0.99	1.3	1.9	5	5	8	8.88	79	17
6-Oct-09	22.8	26	3	0.66	15	1.04	1.3	1.9	4	5	8	9.00	8	4
7-Oct-09	23.7	18	4	0.80	19	1.04	1.3	1.8	2	5	8	8.79	<2	<2
8-Oct-09	23.7	13	3	0.98	23	0.99	1.3	1.8	7	5	7	8.73	33	33
9-Oct-09	23.2	ns	ns	ns	ns	ns	ns	1.8	ns	5	6	8.64	<3	<3
10-Oct-09	25.3	15	3	1.23	31	0.91	1.1	1.7	4	5	ns	ns	ns	ns
11-Oct-09	24.4	12	4	1.40	34	0.89	1.0	1.7	4	5	nr	8.60	9	<2
12-Oct-09	25.5	8	3	1.63	42	0.83	0.9	1.7	3	5	na	8.45	93	15
13-Oct-09	23.8	8	2	1.67	40	0.78	1.1	1.6	3	5	na	8.40	13	13
14-Oct-09	23.4	8	<2	1.79	42	0.79	1.0	1.6	4	5	9	8.03	23	13
15-Oct-09	25.0	10	2	1.86	47	0.74	1.0	1.6	4	5	5	8.17	23	23
16-Oct-09	23.7	14	4	2.18	52	0.74	1.0	1.5	3	5	4	8.14	11	7
17-Oct-09	24.2	14	4	2.14	52	0.72	1.0	1.5	4	5	6	8.15	49	11
18-Oct-09	25.1	11	2	2.22	56	0.67	0.8	1.5	3	5	5	8.45	11	4
19-Oct-09	23.6	12	<2	2.51	59	0.66	0.7	1.4	4	5	5	8.15	79	4
20-Oct-09	22.9	8	2	2.62	60	0.82	nr	1.4	6	4	6	7.97	13	2
21-Oct-09	23.0	7	<2	2.75	63	0.62	0.8	1.3	5	4	5	8.10	nr	4
22-Oct-09	22.8	4	<2	2.78	63	0.60	0.7	1.3	5	4	4	8.10	8	8
23-Oct-09	23.2	11	<2	3.18	74	0.61	0.8	1.3	5	4	2	8.09	8	4
24-Oct-09	23.4	7	3	3.10	72	0.58	0.7	1.2	6	4	6	8.10	11	4
25-Oct-09	24.6	11	2	3.22	79	0.55	0.7	1.2	6	4	6	8.05	2	2
26-Oct-09	23.0	11	<2	3.33	76	0.53	0.9	1.2	5	4	5	8.08	7	4
27-Oct-09	22.5	8	<2	3.47	78	0.53	nr	1.1	6	4	5	8.32	49	49
28-Oct-09	23.2	9	<2	3.72	86	0.52	0.7	1.1	7	4	5	8.11	nr	nr
29-Oct-09	27.1	8	3	3.79	103	0.50	0.9	1.1	7	4	6	8.15	8	2
30-Oct-09	29.6	8	2	3.64	108	0.49	0.6	1.0	6	5	7	8.19	17	4
31-Oct-09	25.5	7	3	3.63	92	0.45	0.6	1.0	4	4	4	8.18	13	8
Max:	29.6													
Min:	22.5													
Average:	24.1	14	3	2.1	50	0.77	1.0		4		6	8.42	15	7
Geo.Mean:														

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