

**City of Winnipeg**  
**Water and Waste Department**  
**West End Water Pollution Control Centre Monitoring Data**  
**February 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-Feb-09	24.1	<4	3	4.11	99	0.60	0.9	0.8	10	7	1	7.25	120	70
2-Feb-09	23.0	<4	3	4.64	107	0.67	1.0	0.8	8	7	0	7.24	130	130
3-Feb-09	22.2	10	3	5.33	118	0.77	1.2	0.8	9	7	-1	7.25	330	110
4-Feb-09	22.2	ns	ns	ns	ns	ns	ns	0.8	ns	7	0	7.18	490	170
5-Feb-09	22.1	15	7	4.12	91	0.61	0.7	0.8	9	7	0	7.27	490	220
6-Feb-09	22.2	11	4	4.26	95	0.61	0.9	0.8	9	7	1	7.17	330	330
7-Feb-09	23.3	13	4	4.19	97	0.59	1.0	0.8	9	8	2	7.18	700	38
8-Feb-09	24.0	ns	ns	ns	ns	ns	ns	0.8	ns	8	0	7.18	230	27
9-Feb-09	29.9	12	3	3.78	113	0.56	0.9	0.8	9	8	ns	ns	ns	ns
10-Feb-09	39.8	12	3	3.67	146	0.79	1.0	0.8	8	8	1	7.26	220	220
11-Feb-09	32.3	11	4	3.70	120	0.57	0.9	0.9	9	8	1	7.23	230	49
12-Feb-09	24.4	12	4	3.63	89	0.54	1.0	0.9	9	8	0	7.29	115	63
13-Feb-09	23.0	10	5	3.71	85	0.56	1.3	0.9	9	8	0	7.31	23	23
14-Feb-09	23.3	9	5	3.44	80	0.52	1.0	0.9	8	8	2	7.28	130	22
15-Feb-09	23.1	12	6	3.60	83	0.53	1.0	0.9	9	8	0	7.33	27	13
16-Feb-09	24.1	11	5	3.54	85	0.50	1.3	0.9	9	8	1	7.36	17	17
17-Feb-09	22.2	11	6	3.51	78	0.50	1.0	0.9	11	8	0	7.37	8	2
18-Feb-09	22.1	11	6	3.26	72	0.48	0.7	0.9	9	8	-1	7.37	8	2
19-Feb-09	22.2	23	7	3.32	74	0.49	0.9	0.9	9	8	-1	7.46	17	2
20-Feb-09	22.2	22	8	3.23	72	0.47	0.8	0.9	9	8	0	7.40	4	4
21-Feb-09	23.3	11	9	3.11	73	0.45	0.8	0.9	9	8	1	7.48	8	8
22-Feb-09	22.3	16	8	2.98	67	0.43	0.9	0.9	8	9	0	7.47	31	31
23-Feb-09	22.3	16	8	3.04	68	0.45	0.9	0.9	8	9	-1	7.47	79	79
24-Feb-09	22.0	10	9	2.97	65	0.44	0.8	0.9	9	9	0	7.41	330	230
25-Feb-09	22.0	18	11	2.97	65	0.45	1.0	0.9	9	9	0	7.51	330	330
26-Feb-09	21.9	15	10	2.88	63	0.45	1.1	0.9	9	9	0	7.60	790	170
27-Feb-09	21.9	12	10	2.99	66	0.45	1.0	0.9	9	9	-1	7.62	230	230
28-Feb-09	24.1	13	nr	3.02	73	0.47	1.1	1.0	8	9	1	7.61	220	110
<b>Max:</b>	39.8													
<b>Min:</b>	21.9													
<b>Average:</b>	<b>24.0</b>	<b>12</b>	<b>6</b>	<b>4</b>	<b>86</b>	<b>0.54</b>	<b>1.0</b>		<b>9</b>		<b>0</b>	<b>7.35</b>		
<b>Geo.Mean:</b>													<b>94</b>	<b>44</b>

**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