

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

**May 2010**

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-May-10	39.5	12	5	0.93	37	0.80	1.2	0.6	1	2	15	8.31	<2	<2
2-May-10	36.1	16	6	1.13	41	0.86	1.3	0.6	1	2	15	8.01	<2	<2
3-May-10	33.7	15	8	1.27	43	0.88	1.3	0.6	1	2	14	7.86	<2	<2
4-May-10	32.1	20	9	1.30	42	0.87	1.1	0.7	1	2	14	7.69	2	2
5-May-10	64.4	19	5	1.34	86	0.88	1.2	0.7	2	2	12	7.94	2	2
6-May-10	48.5	10	5	1.33	65	0.87	1.2	0.7	2	2	11	7.92	9	6
7-May-10	37.4	15	5	1.43	53	0.90	1.1	0.7	6	2	12	7.89	4	4
8-May-10	33.9	13	5	1.49	51	0.92	1.1	0.8	5	2	13	7.87	4	4
9-May-10	31.9	13	4	1.61	51	0.96	1.2	0.8	5	2	15	7.89	4	2
10-May-10	31.5	8	6	1.65	52	0.99	1.5	0.8	4	2	16	7.78	2	2
11-May-10	31.7	10	5	1.76	56	1.01	1.3	0.9	6	2	19	7.83	2	<2
12-May-10	29.9	10	4	1.94	58	1.09	1.3	0.9	5	2	nr	7.83	<2	<2
13-May-10	28.8	9	4	2.04	59	1.15	1.3	0.9	6	2	nr	7.82	<2	<2
14-May-10	28.5	12	<2	2.22	63	1.28	1.5	0.9	6	3	12	7.82	<2	<2
15-May-10	29.4	9	nr	2.47	73	1.37	1.6	1.0	6	3	14	7.83	<2	<2
16-May-10	29.5	14	5	2.61	77	1.45	1.7	1.0	6	3	16	7.83	<2	<2
17-May-10	29.0	12	5	2.71	79	1.52	1.8	1.1	7	3	17	7.87	<2	<2
18-May-10	28.7	14	8	2.83	81	1.59	1.9	1.1	7	3	18	7.96	<2	<2
19-May-10	28.8	10	7	2.87	83	1.68	2.0	1.2	7	3	18	8.06	<3	<3
20-May-10	28.4	13	4	2.92	83	1.77	2.0	1.2	4	3	20	8.10	4	4
21-May-10	27.9	10	6	2.98	83	1.80	2.2	1.3	5	3	20	8.04	<3	<3
22-May-10	26.1	18	7	3.19	83	1.88	2.3	1.3	6	4	19	7.98	<3	<3
23-May-10	27.8	19	6	3.10	86	1.97	2.3	1.4	6	4	19	7.96	<3	<3
24-May-10	28.5	17	7	2.91	83	1.92	2.3	1.4	6	4	19	8.18	<3	<3
25-May-10	44.9	47	7	2.85	128	1.96	2.4	1.5	7	4	18	8.29	23	23
26-May-10	33.3	29	7	2.72	91	1.95	2.4	1.5	5	4	17	8.23	4	4
27-May-10	31.1	24	6	nr	nr	nr	nr	1.6	nr	4	17	8.44	9	9
28-May-10	52.1	23	5	2.75	143	1.95	2.2	1.6	6	4	15	8.40	23	23
29-May-10	67.0	22	6	2.65	178	1.87	2.2	1.7	6	5	16	8.32	4	4
30-May-10	71.4	20	6	2.86	204	1.97	2.2	1.7	7	5	15	8.17	<3	<3
31-May-10	66.7	14	6	3.00	200	1.99	2.2	1.7	6	5	15	8.29	4	4
<b>Max:</b>	71.4													
<b>Min:</b>	26.1													
<b>Average:</b>	<b>37.4</b>	<b>16</b>	<b>6</b>	<b>2</b>	<b>84</b>	<b>1.40</b>	<b>1.7</b>		<b>5</b>		<b>16</b>	<b>8.01</b>		
<b>Geo.Mean:</b>													<b>2</b>	<b>2</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 RR
- (7) Total Nitrogen results are calculated from TKN and nitrate values.