

**City of Winnipeg**  
**Water and Waste Department**  
**West End Water Pollution Control Centre Monitoring Data**  
**April, 2006**

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-Apr-06	67.0	5	4	25	1,675	3.90	3.7	4.6	29	33	3	7.51	210	210
2-Apr-06	67.4	5	5	25	1,685	3.67	3.5	4.6	29	32	6	7.60	930	930
3-Apr-06	65.9	4	5	24	1,582	3.61	3.4	4.5	25	32	5	7.34	150	150
4-Apr-06	55.8	8	5	23	1,283	3.62	3.6	4.5	28	32	5	7.33	750	750
5-Apr-06	56.9	8	6	22	1,252	3.37	3.7	4.5	29	32	6	7.36	230	230
6-Apr-06	58.0	11	7	21	1,218	3.18	3.5	4.4	27	32	6	7.53	93	93
7-Apr-06	56.9	13	9	19	1,081	2.99	3.0	4.3	22	31	8	7.38	230	230
8-Apr-06	49.8	15	10	18	896	2.90	3.2	4.3	23	31	3	7.97	23	23
9-Apr-06	50.3	18	12	17	855	2.67	2.9	4.3	21	30	5	8.30	93	<3
10-Apr-06	52.2	15	12	16	835	2.56	2.8	4.2	23	30	7	8.27	43	15
11-Apr-06	59.8	12	13	14	837	2.28	2.8	4.2	21	30	7	8.35	43	3
12-Apr-06	64.5	16	11	13	839	2.09	1.9	4.1	19	29	7	8.33	4	4
13-Apr-06	56.8	16	10	12	682	1.98	2.1	4.0	22	29	8	8.29	4	4
14-Apr-06	51.1	16	9	11	562	1.90	2.1	3.9	19	29	7	8.82	23	23
15-Apr-06	44.7	14	9	10	447	1.86	2.1	3.9	19	28	9	8.75	NS	NS
16-Apr-06	42.6	15	9	10	426	1.77	1.7	3.8	17	28	8	8.83	9	9
17-Apr-06	40.7	16	8	10	407	1.69	1.7	3.6	17	27	10	8.91	43	43
18-Apr-06	37.3	21	9	9	336	1.60	1.6	3.5	15	27	7	8.73	9	4
19-Apr-06	35.9	19	9	8	287	1.74	1.7	3.4	16	26	7	8.77	43	43
20-Apr-06	35.0	19	10	9	315	1.72	1.9	3.3	15	25	10	8.83	23	23
21-Apr-06	34.1	24	10	8	273	1.68	1.9	3.2	15	25	10	8.87	9	9
22-Apr-06	34.4	23	9	7	241	1.51	1.6	3.1	14	24	10	9.11	43	43
23-Apr-06	34.8	27	10	6	209	1.44	1.8	3.0	14	24	14	9.25	23	23
24-Apr-06	32.6	31	11	5	163	1.37	1.5	2.9	12	23	10	8.03	230	150
25-Apr-06	31.4	35	11	4	126	1.35	2.2	2.8	13	22	11	9.33	14	14
26-Apr-06	31.0	48	12	4	124	1.18	2.2	2.7	13	21	11	9.29	43	43
27-Apr-06	30.8	43	13	3	92	0.99	2.2	2.6	14	21	11	9.63	23	9
28-Apr-06	30.2	46	11	2	60	0.88	2.0	2.5	13	20	12	9.72	23	23
29-Apr-06	30.8	38	10	2	62	0.85	1.9	2.4	11	20	12	9.88	43	43
30-Apr-06	33.6	30	10	2	67	0.91	1.8	2.4	13	19	12	9.79	4	4
<b>Total:</b>	1372													
<b>Max:</b>	67.4													
<b>Min:</b>	30.2													
<b>Average:</b>	<b>45.7</b>	<b>20</b>	<b>9</b>	<b>12</b>	<b>631</b>	<b>2.11</b>	<b>2.4</b>		<b>19</b>		<b>8.2</b>	<b>8.54</b>		
<b>Geo.Mean:</b>													<b>41</b>	<b>29</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, sensors located in Raw Sewage channel.
- (5) Where < values are reported 50% of the MDL is used for calculated results