

**City of Winnipeg  
Water and Waste Department  
West End Water Pollution Control Centre Monitoring Data  
July, 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-Jul-06	26.7	14	5	6	160	2.88	2.7	3.6	16	19	23	8.57	93	21
2-Jul-06	25.4	16	6	6	152	2.80	2.8	3.6	17	19	22	8.44	23	23
3-Jul-06	27.8	18	6	6	167	2.82	3.3	3.6	17	19	23	8.49	150	93
4-Jul-06	27.6	12	6	5	138	2.80	3.2	3.6	19	19	21	8.44	38	38
5-Jul-06	27.4	17	8	5	137	2.73	2.5	3.6	11	19	23	8.53	230	93
6-Jul-06	27.5	22	nr	4	110	2.45	2.3	3.6	13	19	23	8.68	93	43
7-Jul-06	26.9	22	7	4	108	2.40	2.4	3.5	11	19	23	8.69	43	43
8-Jul-06	26.7	29	7	3	80	2.29	2.3	3.5	9	19	22	8.66	93	21
9-Jul-06	26.6	35	8	3	80	2.11	2.2	3.4	10	19	20	8.81	93	93
10-Jul-06	27.6	29	9	2	55	1.98	2.1	3.4	10	18	21	8.98	43	43
11-Jul-06	27.6	34	nr	2	55	1.79	2.1	3.2	10	17	22	9.01	230	230
12-Jul-06	27.2	23	8	1	27	1.70	1.8	3.1	10	18	23	8.97	23	23
13-Jul-06	29.0	23	8	1	29	1.64	1.7	3.1	10	18	25	8.96	230	230
14-Jul-06	28.0	20	9	2	56	1.78	2.1	3.0	9	18	23	8.74	75	23
15-Jul-06	26.6	6	6	2	53	1.97	2.2	2.9	9	18	25	8.92	230	93
16-Jul-06	27.0	26	5	2	54	2.25	2.2	2.9	8	18	25	8.58	93.0	93.0
17-Jul-06	27.9	9	5	3	84	2.57	2.6	2.8	8	17	24	8.25	930	930
18-Jul-06	27.1	14	6	3	81	2.88	3.1	2.8	8	17	23	8.15	230	230
19-Jul-06	27.4	10	5	3	82	3.26	3.6	2.8	8	16	23	7.95	430	430
20-Jul-06	27.2	10	6	3	82	3.62	4.3	2.8	9	16	23	7.95	230	230
21-Jul-06	27.0	15	7	4	108	3.80	3.9	2.8	13	16	23	7.95	93	43
22-Jul-06	25.6	11	7	4	102	4.09	3.6	2.8	9	15	21	7.85	43	43
23-Jul-06	26.5	8	4	4	106	4.36	4.6	2.8	9	15	24	7.78	150	150
24-Jul-06	27.4	12	5	4	110	4.36	5.5	2.9	11	15	24	7.86	150	150
25-Jul-06	28.8	10	5	4	115	4.53	5.7	3.0	12	15	24	8.01	93	93
26-Jul-06	28.0	13	6	5	140	4.74	4.6	3.0	10	14	21	8.63	430	430
27-Jul-06	27.2	11	5	5	136	4.67	4.4	3.1	10	14	24	8.69	150	150
28-Jul-06	26.9	20	4	5	135	4.75	5.0	3.2	11	13	23	7.98	230	93
29-Jul-06	25.4	15	4	6	152	4.91	5.5	3.2	12	13	24	7.90	75	75
30-Jul-06	26.4	11	4	6	158	4.86	5.1	3.3	12	13	23	7.81	230	230
31-Jul-06	27.7	17	5	6	166	4.86	5.2	3.4	11	12	24	7.88	430	430
<b>Total:</b>	842													
<b>Max:</b>	29.0													
<b>Min:</b>	25.4													
<b>Average:</b>	<b>27.2</b>	<b>17</b>	<b>6</b>	<b>4</b>	<b>104</b>	<b>3.18</b>	<b>3.4</b>		<b>11</b>		<b>23</b>	<b>8.39</b>		
<b>Geo.Mean:</b>													<b>127</b>	<b>95</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