

**City of Winnipeg  
Water and Waste Department  
West End Water Pollution Control Centre Monitoring Data  
October, 2005**

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-05	27.3	42	8	<1	14	nr	1.2	1.2	3	4	12.0	9.80	23	23
2-Oct-05	28.6	36	8	<1	14	0.48	1.3	1.2	3	4	15.0	9.78	23	23
3-Oct-05	27.3	41	7	<1	14	0.53	0.9	1.1	5	4	14.0	9.62	4	4
4-Oct-05	26.4	51	7	<1	13	0.54	0.9	1.1	3	4	14.0	9.70	23	23
5-Oct-05	36.3	56	7	<1	18	0.62	1.0	1.1	5	4	11.0	9.67	23	23
6-Oct-05	37.4	42	6	<1	19	0.70	1.4	1.1	3	4	12.0	9.44	160	160
7-Oct-05	33.7	30	6	<1	17	0.79	1.5	1.1	6	4	11.0	9.51	23	23
8-Oct-05	31.9	29	6	1	32	0.90	1.5	1.1	6	4	5.0	9.28	93	93
9-Oct-05	29.6	19	6	1	30	0.97	1.7	1.2	6	4	7.0	9.23	43	23
10-Oct-05	30.5	15	6	2	61	1.08	1.4	1.1	7	4	7.5	9.14	23	7
11-Oct-05	28.9	13	5	1	29	1.19	1.4	1.2	7	4	9.0	9.06	23	23
12-Oct-05	28.1	14	5	2	56	1.35	1.5	1.2	8	4	9.0	7.93	4	4
13-Oct-05	27.8	15	5	3	83	1.41	1.5	1.2	10	5	9.0	8.87	9	9
14-Oct-05	27.5	47	7	3	83	1.54	1.8	1.2	8	5	9.0	8.83	7	7
15-Oct-05	28.1	16	6	4	112	1.65	1.8	1.2	11	5	nr	8.77	38	23
16-Oct-05	29.2	24	5	5	146	1.78	2.5	1.3	10	5	9.0	8.71	23	23
17-Oct-05	27.9	20	5	5	140	1.88	2.4	1.3	10	5	11.0	8.51	4	4
18-Oct-05	32.9	12	6	5	165	1.87	2.4	1.4	11	6	8.0	8.61	23	9
19-Oct-05	29.0	13	5	3	87	1.97	2.0	1.4	11	6	9.0	8.47	23	9
20-Oct-05	28.1	11	4	6	169	2.08	2.3	1.4	13	6	9.0	8.47	23	23
21-Oct-05	29.9	12	5	6	179	2.24	2.2	1.5	10	6	9.0	8.65	<3	<3
22-Oct-05	31.8	9	5	7	223	2.32	2.4	1.5	11	6	9.0	8.43	43	9
23-Oct-05	31.0	10	6	7	217	2.39	2.6	1.6	12	7	9.0	8.36	23	23
24-Oct-05	28.9	16	4	7	202	2.44	2.6	1.6	11	7	8.0	8.45	9	9
25-Oct-05	28.0	9	5	8	224	2.46	2.6	1.7	12	7	8.0	8.30	4	4
26-Oct-05	27.4	7	3	8	219	2.52	2.5	1.7	12	8	9.0	8.37	4	4
27-Oct-05	27.5	12	5	9	248	2.51	2.5	1.8	13	8	9.0	8.30	<3	<3
28-Oct-05	27.1	12	4	9	244	2.64	2.4	1.8	14	8	9.0	8.47	4	4
29-Oct-05	27.9	9	5	9	251	2.54	2.5	1.9	12	9	9.0	8.29	43	15
30-Oct-05	28.5	8	4	9	257	2.62	2.6	1.9	15	9	9.0	8.29	15	9
31-Oct-05	27.2	12	7	9	245	2.72	3.3	2.0	25	10	9.0	8.37	4	4
<b>Total:</b>	912													
<b>Max:</b>	37.4													
<b>Min:</b>	26.4													
<b>Average:</b>	<b>29.4</b>	<b>21</b>	<b>6</b>	<b>4.3</b>	<b>123</b>	<b>1.69</b>	<b>2.0</b>		<b>9</b>		<b>9.6</b>	<b>8.83</b>		
<b>Geo.Mean:</b>													<b>14</b>	<b>11</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