

**City of Winnipeg  
Water and Waste Department  
West End Water Pollution Control Centre Monitoring Data  
September 2008**

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-Sep-08	35.0	22	7	1.61	56	1.76	2.3	3.5	11	12	20	9.10	<1	<1
2-Sep-08	44.8	27	8	1.52	68	1.79	2.2	3.4	10	12	18	8.96	4	4
3-Sep-08	33.8	10	4	1.49	50	1.82	1.5	3.3	7	11	17	8.94	2	2
4-Sep-08	30.0	10	5	1.82	55	1.95	2.3	3.2	9	11	17	9.04	<1	<1
5-Sep-08	28.9	13	6	2.06	60	2.08	2.2	3.2	8	11	16	8.90	17	4
6-Sep-08	31.1	15	5	2.16	67	2.18	2.7	3.1	10	11	16	8.88	4	2
7-Sep-08	34.0	13	4	2.23	76	2.33	2.6	3.1	9	11	17	8.77	17	2
8-Sep-08	30.5	16	5	2.64	80	2.46	2.7	3.1	9	11	15	8.71	4	4
9-Sep-08	28.6	19	4	3.06	88	2.51	2.7	3.1	7	11	14	8.48	4	4
10-Sep-08	27.8	14	5	3.06	85	2.57	2.7	3.0	7	11	18	8.47	<1	<1
11-Sep-08	27.2	11	5	3.29	90	2.57	2.8	3.0	8	10	16	8.49	<1	<1
12-Sep-08	26.7	11	4	3.31	88	2.59	3.0	3.0	8	10	16	8.47	4	2
13-Sep-08	27.1	23	4	3.36	91	2.66	3.0	3.0	8	10	17	8.46	2	2
14-Sep-08	27.9	25	3	nr	nr	nr	3.0	3.0	nr	10	16	8.32	<1	<1
15-Sep-08	26.6	32	8	3.59	95	2.64	2.9	2.9	8	10	15	8.29	4	4
16-Sep-08	26.2	35	5	3.55	93	2.58	3.2	2.9	8	10	16	8.30	17	11
17-Sep-08	25.8	41	4	3.68	95	2.49	2.5	2.9	6	10	16	8.45	8	2
18-Sep-08	26.1	37	4	3.66	96	2.39	3.0	2.8	7	10	15	8.33	30	30
19-Sep-08	25.9	41	5	3.55	92	2.36	2.9	2.8	8	9	16	8.46	50	50
20-Sep-08	25.9	28	7	3.40	88	2.30	2.8	2.8	8	9	19	8.49	30	8
21-Sep-08	27.1	52	6	2.88	78	2.14	2.7	2.7	7	9	15	8.60	23	23
22-Sep-08	26.5	44	5	2.71	72	2.07	2.6	2.7	7	9	16	8.69	90	90
23-Sep-08	38.0	53	5	2.55	97	2.05	2.7	2.7	7	9	17	8.73	500	300
24-Sep-08	46.6	57	5	2.20	102	1.99	2.6	2.7	7	9	16	8.85	nr	nr
25-Sep-08	31.9	52	nr	1.83	58	1.86	2.4	2.6	6	9	16	8.79	130	130
26-Sep-08	29.2	64	6	1.55	45	1.79	2.4	2.6	7	8	18	8.92	80	22
27-Sep-08	28.8	59	nr	1.26	36	1.70	2.3	2.6	6	8	15	8.96	30	30
28-Sep-08	29.1	56	7	1.07	31	1.61	2.2	2.6	6	8	14	9.11	23	13
29-Sep-08	27.0	57	7	0.94	25	1.51	2.0	2.6	7	8	15	9.11	50	30
30-Sep-08	24.7	47	7	0.77	19	1.39	2.0	2.6	5	8	12	9.16	17	17
<b>Max:</b>	46.6													
<b>Min:</b>	24.7													
<b>Average:</b>	<b>30.0</b>	<b>33</b>	<b>5</b>	<b>2</b>	<b>72</b>	<b>2.14</b>	<b>2.6</b>		<b>8</b>		<b>16</b>	<b>8.71</b>		
<b>Geo.Mean:</b>													<b>10</b>	<b>7</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