

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

**June 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-Jun-10	65.4	15	3	3.36	220	2.06	2.3	1.8	6	5	17	8.17	4	4
2-Jun-10	61.8	10	4	3.33	206	2.10	2.3	1.8	6	5	17	8.43	<2	<2
3-Jun-10	53.5	10	4	3.12	167	2.10	2.3	1.8	6	5	19	8.61	<2	<2
4-Jun-10	53.0	12	5	3.07	163	2.13	2.3	1.9	7	6	19	8.59	4	4
5-Jun-10	46.6	10	4	2.85	133	2.13	2.3	1.9	6	6	19	8.66	<2	<2
6-Jun-10	54.4	9	6	2.75	150	2.13	2.3	2.0	6	6	20	8.73	4	4
7-Jun-10	47.8	9	4	2.51	120	2.02	2.3	2.0	5	6	16	8.85	<2	<2
8-Jun-10	43.0	10	4	2.15	92	1.96	2.2	2.0	5	6	21	8.93	15	15
9-Jun-10	58.9	16	5	2.36	139	1.93	2.3	2.1	6	6	19	8.73	9	9
10-Jun-10	48.0	18	7	2.40	115	1.89	2.2	2.1	6	6	17	8.75	4	4
11-Jun-10	43.9	11	3	2.15	94	1.82	2.1	2.1	5	6	17	8.69	<3	<3
12-Jun-10	47.7	10	5	2.08	99	1.80	2.1	2.1	6	6	17	8.65	15	11
13-Jun-10	43.0	9	5	1.82	78	1.83	2.1	2.2	6	6	18	8.64	4	4
14-Jun-10	39.6	9	3	1.93	76	1.79	2.0	2.2	5	6	20	8.68	9	9
15-Jun-10	36.9	7	3	2.08	77	1.81	2.0	2.2	5	6	20	8.73	4	4
16-Jun-10	35.6	11	<2	2.12	76	1.87	2.4	2.2	6	6	20	8.70	9	9
17-Jun-10	38.4	20	2	2.41	93	1.92	2.2	2.2	6	6	22	8.57	11	7
18-Jun-10	44.6	25	4	2.57	115	1.90	2.2	2.2	7	6	19	8.19	7	7
19-Jun-10	54.4	20	3	2.26	123	1.79	2.1	2.2	7	6	18	8.24	<3	<3
20-Jun-10	46.7	13	4	1.98	92	1.78	1.9	2.2	6	6	20	8.48	4	4
21-Jun-10	43.8	11	3	1.70	74	1.69	2.0	2.2	5	6	21	8.73	4	4
22-Jun-10	43.6	10	3	1.66	72	1.65	2.0	2.2	7	6	20	8.97	<3	<3
23-Jun-10	38.6	11	2	1.65	64	1.69	1.8	2.2	5	6	21	8.64	9	9
24-Jun-10	36.6	10	3	1.81	66	1.70	1.9	2.2	4	6	22	8.66	4	4
25-Jun-10	35.3	10	<2	1.60	57	1.74	1.9	2.1	5	6	23	8.63	7	7
26-Jun-10	36.0	7	5	1.58	57	1.73	1.9	2.1	5	6	24	8.80	7	7
27-Jun-10	38.2	20	3	1.52	58	1.72	2.1	2.1	5	6	23	8.63	4	4
28-Jun-10	44.4	22	7	1.27	56	1.65	1.9	2.1	5	6	22	8.73	4	4
29-Jun-10	38.1	19	5	1.00	38	1.61	1.9	2.1	5	6	20	8.89	4	4
30-Jun-10	35.2	30	4	0.69	24	1.55	1.8	2.1	5	6	20	9.02	4	4
<b>Max:</b>	65.4													
<b>Min:</b>	35.2													
<b>Average:</b>	<b>45.1</b>	<b>13</b>	<b>4</b>	<b>2</b>	<b>100</b>	<b>1.85</b>	<b>2.1</b>		<b>6</b>		<b>20</b>	<b>8.66</b>		
<b>Geo.Mean:</b>													<b>4</b>	<b>4</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.