

**City of Winnipeg**  
**Water and Waste Department**  
**West End Water Pollution Control Centre Monitoring Data**  
**February 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-Feb-08	22.6	9	>15	40	905	4.69	5.6	4.4	48	32	1	7.36	>1100000	>1100000
2-Feb-08	23.7	5	>14	40	949	4.80	4.1	4.5	nr	32	0	7.36	1,100,000	1,100,000
3-Feb-08	24.3	8	16	41	995	4.86	3.5	4.4	30	32	1	7.45	43,000	43,000
4-Feb-08	23.3	10	18	41	957	4.96	5.0	4.4	40	33	1	7.34	1,100,000	1,100,000
5-Feb-08	22.3	9	19	43	959	5.18	4.2	4.4	35	33	0	7.32	460,000	460,000
6-Feb-08	22.6	7	18	43	972	5.04	4.7	4.4	37	33	0	7.33	>1100000	>1100000
7-Feb-08	22.8	10	20	43	980	4.57	5.6	4.5	48	34	0	7.42	1,100,000	1,100,000
8-Feb-08	22.6	7	20	42	949	4.62	5.5	4.6	49	35	0	7.34	460,000	460,000
9-Feb-08	23.2	8	20	41	951	4.67	5.4	4.7	47	36	0	7.39	>1100000	>1100000
10-Feb-08	23.9	7	18	43	1,029	4.52	5.2	4.7	47	36	0	7.31	460,000	460,000
11-Feb-08	23.4	7	21	44	1,030	4.75	5.4	4.7	50	37	0	7.27	240,000	240,000
12-Feb-08	22.0	4	19	41	904	4.65	5.1	4.7	49	37	0	7.37	240,000	240,000
13-Feb-08	22.4	5	19	40	894	4.74	5.3	4.8	43	38	0	7.31	240,000	240,000
14-Feb-08	22.3	7	20	42	936	4.11	5.4	4.9	50	39	0	7.34	460,000	460,000
15-Feb-08	22.3	nr	nr	nr	nr	nr	nr	4.9	nr	39	0	7.31	1,100,000	1,100,000
16-Feb-08	23.3	nr	nr	nr	nr	nr	nr	4.9	nr	40	nr	nr	nr	nr
17-Feb-08	23.5	nr	nr	40	940	4.06	4.8	4.9	48	40	1	7.63	240,000	240,000
18-Feb-08	24.1	6	16	42	1,012	4.07	4.7	5.0	49	41	0	7.47	240,000	240,000
19-Feb-08	22.1	6	18	40	884	4.18	4.6	5.0	49	42	0	7.61	460,000	460,000
20-Feb-08	22.1	5	18	42	927	4.35	4.6	4.9	45	42	0	7.65	240,000	240,000
21-Feb-08	22.7	4	14	42	953	3.64	4.6	4.9	49	42	1	7.45	1,100,000	1,100,000
22-Feb-08	22.8	5	nr	40	910	3.65	4.6	4.9	45	43	1	7.33	240,000	240,000
23-Feb-08	23.6	<4	18	40	945	3.84	4.4	4.9	46	43	1	7.33	460,000	460,000
24-Feb-08	22.6	6	15	40	904	3.54	4.3	4.9	45	43	1	7.4	240,000	240,000
25-Feb-08	22.6	7	14	40	904	3.7	4.1	4.9	47	44	1	7.43	460,000	460,000
26-Feb-08	22.0	5	15	38	836	3.49	4.2	4.9	46	44	1	7.75	93,000	93,000
27-Feb-08	22.3	nr	14	40	891	3.83	4.3	4.9	45	45	1	7.35	1,100,000	1,100,000
28-Feb-08	22.2	5	14	41	909	3.56	4.3	4.8	44	45	1	7.39	240,000	240,000
29-Feb-08	22.2	6	13	40	888	3.53	4.2	4.8	45	45	1	7.28	460,000	460,000
<b>Max:</b>	24.3													
<b>Min:</b>	22.0													
<b>Average:</b>	<b>22.8</b>	<b>7</b>	<b>17</b>	<b>41</b>	<b>937</b>	<b>4.28</b>	<b>4.7</b>		<b>45</b>		<b>0</b>	<b>7.40</b>		
<b>Geo.Mean:</b>													<b>382,799</b>	<b>382,799</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