

**City of Winnipeg**  
**Water and Waste Department**  
**West End Water Pollution Control Centre Monitoring Data**  
**February, 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-Feb-05	29.0	9	3	30	870	4.69	5.0	3.9	31	31	2	8.01	430	230
2-Feb-05	28.9	3	4	29	840	4.83	5.3	4.0	31	31	1	7.40	430	430
3-Feb-05	29.0	6	3	28	810	4.40	4.8	4.0	30	31	1	7.55	2300	2300
4-Feb-05	29.2	<3	4	32	930	4.49	5.0	4.1	34	31	2	7.71	2300	2300
5-Feb-05	30.4	3	3	31	940	4.50	4.8	4.2	33	31	2	7.47	4300	2300
6-Feb-05	31.2	5	5	26	810	4.46	4.7	4.2	31	31	2	7.39	9300	2100
7-Feb-05	29.7	<3	4	28	830	4.87	4.7	4.3	30	31	2	7.86	4300	2,300
8-Feb-05	28.3	3	4	28	790	4.48	4.8	4.3	31	31	nr	7.40	2,100	2,100
9-Feb-05	28.7	10	4	28	800	4.53	5.0	4.4	32	32	1	7.39	9,300	2,300
10-Feb-05	29.0	3	4	28	810	4.69	5.1	4.5	32	32	2	7.46	23,000	23,000
11-Feb-05	28.8	<3	4	27	780	4.79	5.1	4.5	32	32	2	7.58	23,000	23,000
12-Feb-05	30.3	3	4	28	850	4.89	5.2	4.6	32	32	1	7.39	4,300	4,300
13-Feb-05	31.3	11	4	28	880	4.84	4.8	4.6	30	32	4	7.45	4,300	4,300
14-Feb-05	29.6	<3	4	28	830	4.80	4.9	4.7	34	32	1	7.65	2,300	2,300
15-Feb-05	28.5	4	5	27	770	4.76	5.3	4.7	32	32	3	7.62	2,300	2,300
16-Feb-05	28.4	3	3	24	680	4.12	4.3	4.7	27	32	3	7.69	4,300	4,300
17-Feb-05	28.2	8	4	25	700	4.22	4.5	4.8	27	32	3	7.80	9,300	9,300
18-Feb-05	28.6	<3	5	26	740	4.57	5.0	4.8	29	31	3	7.84	9,300	9,300
19-Feb-05	29.8	<3	5	26	780	4.75	5.3	4.8	30	31	2	7.40	4,300	4,300
20-Feb-05	30.8	<3	5	27	830	4.90	5.1	4.8	31	31	1	7.54	9,300	9,300
21-Feb-05	28.9	4	5	27	780	5.03	5.2	4.8	31	31	2	7.85	4,300	4,300
22-Feb-05	28.2	4	6	26	730	5.05	5.5	4.9	33	31	2	7.79	15,000	7,500
23-Feb-05	28.2	10	5	28	790	5.06	nr	nr	nr	nr	2	7.81	7,500	7,500
24-Feb-05	28.6	6	6	27	770	4.95	4.8	4.9	29	31	2	7.82	2,300	2,300
25-Feb-05	28.5	5	5	28	800	5.07	5.0	4.9	29	31	2	7.69	23,000	23,000
26-Feb-05	29.7	4	5	28	830	5.07	nr	nr	nr	nr	1	7.44	93,000	93,000
27-Feb-05	30.6	5	6	28	860	5.12	5.1	4.9	29	31	2	7.48	38,000	38,000
28-Feb-05	28.7	4	5	27	780	4.99	5.0	4.9	30	31	2	7.67	230,000	230,000
<b>Total:</b>	819													
<b>Max:</b>	31.3													
<b>Min:</b>	28.2													
<b>Average:</b>	<b>29.3</b>	<b>4</b>	<b>4</b>	<b>28</b>	<b>810</b>	<b>4.75</b>	<b>5.0</b>		<b>31</b>		<b>2</b>	<b>7.61</b>		
<b>Geo.Mean:</b>													<b>6,480</b>	<b>5,330</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; na - not analyzed; ns - no sample

(4) Final Effluent flow data unavailable

(5) Feb 16, 2005- lagoon cells switched from 2-cell to 5-cell operating mode