

**City of Winnipeg**  
**Water and Waste Department**  
**West End Water Pollution Control Centre Monitoring Data**  
**November 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-Nov-08	27.3	20	6	<0.03	0	0.77	1.1	1.4	4	4	5	9.37	4	2
2-Nov-08	26.8	24	6	<0.03	0	0.76	1.1	1.3	4	4	6	9.32	23	<2
3-Nov-08	25.3	24	6	<0.03	0	0.74	0.9	1.3	3	4	6	9.30	31	2
4-Nov-08	24.5	21	8	<0.03	0	0.68	1.2	1.3	3	4	7	9.50	<2	<2
5-Nov-08	24.7	33	7	0.04	1	0.71	0.9	1.2	3	4	7	9.33	<2	<2
6-Nov-08	30.0	28	7	0.13	4	0.70	1.1	1.2	2	4	6	9.38	2	2
7-Nov-08	36.0	29	6	0.08	3	0.67	1.0	1.2	2	4	4	9.32	4	4
8-Nov-08	31.6	25	6	0.11	3	0.69	nr	1.2	nr	4	2	9.18	4	4
9-Nov-08	30.6	18	6	0.06	2	0.65	0.9	1.2	2	3	0	9.18	2	2
10-Nov-08	28.4	19	7	0.04	1	0.61	0.8	1.2	6	3	1	9.41	<2	<2
11-Nov-08	28.9	15	7	0.04	1	0.58	0.9	1.1	6	4	0	9.26	<2	<2
12-Nov-08	26.3	20	6	<0.03	0	0.57	1.0	1.1	4	3	1	9.23	<2	<2
13-Nov-08	37.2	14	6	<0.03	0	0.56	1.0	1.1	2	3	2	9.26	2	<2
14-Nov-08	33.3	14	7	<0.03	0	0.53	0.8	1.1	1	3	3	9.31	nr	nr
15-Nov-08	31.6	19	10	0.09	3	0.52	0.8	1.1	1	3	2	9.31	4	2
16-Nov-08	31.0	16	9	0.03	1	0.51	0.8	1.1	1	3	2	9.33	<2	<2
17-Nov-08	26.9	19	8	<0.03	0	0.48	0.8	1.1	1	3	2	9.49	<2	<2
18-Nov-08	29.4	12	8	0.04	1	0.50	0.7	1.0	1	3	2	9.41	2	<2
19-Nov-08	27.0	17	9	<0.03	0	0.49	0.7	1.0	2	3	2	9.33	<2	<2
20-Nov-08	26.4	18	10	0.04	1	0.49	1.0	1.0	3	3	1	9.44	<2	<2
21-Nov-08	26.2	16	9	0.04	1	0.48	0.9	1.0	3	3	1	9.32	2	2
22-Nov-08	27.1	19	8	0.03	1	0.47	0.9	1.0	3	3	2	9.39	2	2
23-Nov-08	27.8	15	10	0.06	2	0.48	0.9	1.0	2	3	3	9.35	<2	<2
24-Nov-08	26.0	16	10	<0.03	0	0.46	0.9	0.9	3	3	2	9.44	<2	<2
25-Nov-08	25.4	15	8	0.04	1	0.49	0.8	0.9	2	3	1	9.44	<2	<2
26-Nov-08	24.9	13	7	0.06	1	0.49	0.8	0.9	3	3	2	9.25	4	4
27-Nov-08	23.7	12	7	0.11	3	0.53	0.9	0.9	4	3	2	9.33	<2	<2
28-Nov-08	25.9	12	6	0.14	4	0.53	0.9	0.9	4	3	1	9.18	<2	<2
29-Nov-08	25.6	11	6	0.19	5	0.55	0.9	0.9	4	3	2	9.12	2	2
30-Nov-08	26.4	8	5	0.25	7	0.59	0.7	0.9	2	3	2	9.07	<2	<2
<b>Max:</b>	37.2													
<b>Min:</b>	23.7													
<b>Average:</b>	<b>28.1</b>	<b>18</b>	<b>7</b>	<b>0.1</b>	<b>1.6</b>	<b>0.58</b>	<b>0.9</b>		<b>2.8</b>		<b>2.6</b>	<b>9.32</b>		
<b>Geo.Mean:</b>													<b>2</b>	<b>1</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