

**City of Winnipeg**  
**Water and Waste Department**  
**West End Water Pollution Control Centre Monitoring Data**  
**January 2009**

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-Jan-09	22.7	<4	3	2.40	55	0.60	0.9	1.0	5	4	0	7.35	49	49
2-Jan-09	22.5	ns	ns	ns	ns	ns	ns	1.0	ns	4	-1	7.47	110	49
3-Jan-09	23.1	ns	ns	ns	ns	ns	ns	1.0	ns	4	ns	ns	ns	ns
4-Jan-09	24.5	ns	ns	ns	ns	ns	ns	1.0	ns	5	ns	ns	ns	ns
5-Jan-09	23.5	ns	ns	ns	ns	ns	ns	1.0	ns	5	ns	ns	ns	ns
6-Jan-09	23.1	<4	3	2.70	62	0.53	0.8	1.0	7	5	-1	7.33	33	17
7-Jan-09	22.8	4	3	2.79	64	0.52	0.7	1.0	6	5	-1	7.34	8	8
8-Jan-09	22.8	<4	4	2.89	66	0.51	0.8	0.9	7	5	0	7.26	46	46
9-Jan-09	22.7	<4	3	2.83	64	0.50	0.8	0.9	7	5	-1	7.51	23	8
10-Jan-09	23.9	<4	3	3.00	72	0.50	0.8	0.9	7	5	1	7.29	13	4
11-Jan-09	24.5	<4	3	2.98	73	0.49	0.8	0.9	7	5	0	7.29	8	4
12-Jan-09	22.7	6	4	3.10	70	0.50	0.6	0.9	7	6	0	7.20	8	4
13-Jan-09	22.3	<4	3	3.38	76	0.51	0.8	0.9	8	6	0	7.37	8	8
14-Jan-09	22.2	<4	3	3.27	73	0.50	0.6	0.9	7	6	1	7.30	23	23
15-Jan-09	22.3	<4	3	3.26	73	0.49	0.8	0.9	8	6	0	7.24	4	2
16-Jan-09	22.7	ns	ns	ns	ns	ns	ns	0.9	ns	6	0	7.39	9	4
17-Jan-09	23.7	ns	ns	ns	ns	ns	ns	0.9	ns	6	ns	ns	ns	ns
18-Jan-09	24.4	<4	<2	3.31	81	0.51	0.8	0.9	8	6	1	7.25	79	79
19-Jan-09	22.7	<4	3	3.40	77	0.48	0.6	0.8	7	6	0	7.26	230	130
20-Jan-09	22.4	<4	3	3.66	82	0.51	0.8	0.8	8	6	0	7.15	33	33
21-Jan-09	22.8	<4	<2	3.73	85	0.52	0.7	0.8	8	6	0	7.20	49	33
22-Jan-09	22.6	<4	3	3.68	83	0.52	0.7	0.8	8	6	1	7.17	34	22
23-Jan-09	22.6	<4	2	3.81	86	0.54	0.8	0.8	6	6	0	7.25	33	23
24-Jan-09	23.6	<4	2	4.04	95	0.56	1.0	0.8	nr	6	0	7.25	33	33
25-Jan-09	24.4	<4	3	4.02	98	0.57	0.9	0.8	nr	7	0	7.21	63	26
26-Jan-09	22.9	<4	3	3.88	89	0.57	0.9	0.8	nr	7	-1	7.29	130	130
27-Jan-09	22.6	<4	3	4.14	94	0.61	0.8	0.8	7	7	0	7.26	490	330
28-Jan-09	22.6	<4	3	3.70	84	0.56	1.0	0.8	7	7	0	7.15	79	79
29-Jan-09	22.3	<4	3	3.83	85	0.56	0.8	0.8	6	7	-1	7.22	70	70
30-Jan-09	22.2	<4	3	3.88	86	0.59	0.9	0.8	7	7	0	7.23	170	170
31-Jan-09	23.6	<4	3	3.95	93	0.59	0.8	0.8	7	7	1	7.26	130	79
<b>Max:</b>	24.5													
<b>Min:</b>	22.2													
<b>Average:</b>	<b>23.0</b>	<b>&lt;4</b>	<b>3</b>	<b>3.4</b>	<b>79</b>	<b>0.53</b>	<b>0.8</b>		<b>7</b>		<b>0</b>	<b>7.28</b>	<b>38</b>	<b>26</b>
<b>Geo.Mean:</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