

**City of Winnipeg  
Water and Waste Department  
West End Water Pollution Control Centre Monitoring Data  
February 2012**

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-12	19.8	7	7	1.04	21	0.25	0.6	0.6	5	5	1	7.61	<3	<3
2-Feb-12	20.0	6	7	1.08	22	0.25	0.5	0.6	5	5	1	nr	<3	<3
3-Feb-12	20.1	11	6	1.07	21	0.25	0.5	0.6	5	5	1	7.56	9	9
4-Feb-12	21.0	8	6	1.10	23	0.26	0.5	0.6	5	5	1	7.54	<3	<3
5-Feb-12	21.6	6	6	1.35	29	0.33	0.5	0.6	6	5	1	7.58	9	4
6-Feb-12	20.6	8	7	1.18	24	0.24	0.5	0.6	5	5	1	7.58	9	4
7-Feb-12	19.9	8	6	1.11	22	0.23	0.5	0.6	5	5	1	7.45	<3	<3
8-Feb-12	20.0	6	10	1.21	24	0.26	0.5	0.6	5	5	1	7.45	9	9
9-Feb-12	20.1	8	6	1.22	25	0.25	0.5	0.6	6	5	1	7.53	4	4
10-Feb-12	19.8	9	7	1.75	35	0.25	0.6	0.6	5	5	1	7.48	<3	<3
11-Feb-12	21.0	11	7	1.39	29	0.26	0.6	0.6	6	5	0	7.52	<3	<3
12-Feb-12	21.3	10	8	1.60	34	0.27	0.5	0.6	5	5	0	7.52	<3	<3
13-Feb-12	20.1	9	7	1.36	27	0.27	0.5	0.6	6	5	1	7.46	<3	<3
14-Feb-12	19.8	10	8	1.87	37	0.28	0.6	0.6	6	5	0	7.36	4	4
15-Feb-12	19.6	9	8	1.43	28	0.27	0.5	0.6	6	5	0	7.62	3	<3
16-Feb-12	19.7	10	8	1.53	30	0.26	0.5	0.6	6	5	0	7.41	4	4
17-Feb-12	19.8	10	8	2.09	41	0.26	0.5	0.6	6	5	1	7.41	<3	<3
18-Feb-12	20.3	10	8	1.54	31	0.25	0.5	0.6	6	5	0	7.40	<3	<3
19-Feb-12	20.3	10	8	1.56	32	0.25	0.5	0.6	6	5	0	7.52	<3	<3
20-Feb-12	21.3	8	8	1.67	36	0.26	0.5	0.6	6	6	0	7.37	4	4
21-Feb-12	19.7	8	7	1.42	28	0.26	0.5	0.5	6	6	0	7.31	<3	<3
22-Feb-12	20.0	4	8	1.92	38	0.26	0.6	0.5	6	6	0	7.28	<3	<3
23-Feb-12	19.8	10	8	1.70	34	0.26	0.5	0.5	6	6	0	7.27	<3	<3
24-Feb-12	19.8	10	7	1.67	33	0.25	0.5	0.5	6	6	1	7.27	<3	<3
25-Feb-12	20.8	10	8	1.52	32	0.25	0.4	0.5	6	6	0	7.35	<3	<3
26-Feb-12	21.1	10	8	1.54	32	0.26	0.4	0.5	6	6	0	7.40	<3	<3
27-Feb-12	20.3	16	8	1.61	33	0.25	0.4	0.5	6	6	0	7.39	4	4
28-Feb-12	20.0	9	8	1.62	32	0.25	0.4	0.5	6	6	0	7.28	43	43
29-Feb-12	19.8	9	7	1.49	29	0.25	0.6	0.5	6	6	0	7.26	150	28
<b>Max:</b>	21.6													
<b>Min:</b>	19.6													
<b>Average:</b>	<b>20.3</b>	<b>9</b>	<b>7</b>	<b>1.47</b>	<b>30</b>	<b>0.26</b>	<b>0.5</b>		<b>6</b>		<b>0</b>	<b>7.44</b>		
<b>Geo.Mean:</b>													<b>3</b>	<b>2</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.