

**City of Winnipeg**  
**Water and Waste Department**  
**South End Water Pollution Control Centre Monitoring Data**

February 2012

Date	Raw Sewage	Final Effluent 24 Hour Composite										Final Effluent Grab Sample			
		TSS	BOD5	cBOD5	Ammonia		Ortho Phosphorus	Total Phosphorus		Total Nitrogen		Temp.	pH	Fecal Coliform	E.Coli
	ML**	(mg/L)	(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	42.4	16	21	13	36	1,535	3.44	3.9	4.5	42	44	15	6.53	43	43
2-Feb-12	44.1	12	20	10	36	1,587	3.82	4.9	4.5	46	44	14	6.41	750	750
3-Feb-12	44.0	15	18	9	36	1,596	3.99	4.6	4.5	45	44	15	6.59	2,300	930
4-Feb-12	44.3	14	22	13	36	1,613	4.82	5.6	4.5	47	44	15	6.68	93	15
5-Feb-12	46.0	12	22	12	36	1,660	3.36	4.2	4.5	45	44	15	6.71	15	3
6-Feb-12	44.6	10	21	13	34	1,529	3.12	3.9	4.5	44	44	15	6.57	11	11
7-Feb-12	43.6	26	17	10	35	1,539	3.40	4.3	4.5	48	45	14	6.50	40	23
8-Feb-12	47.5	11	25	15	36	1,725	3.88	4.7	4.5	46	45	14	6.54	23	23
9-Feb-12	43.8	14	24	11	36	1,573	3.62	4.6	4.5	46	45	14	6.58	4	4
10-Feb-12	42.8	10	21	10	37	1,573	3.29	4.3	4.5	46	45	14	6.64	4	<3
11-Feb-12	44.3	14	24	14	38	1,672	3.63	4.6	4.5	46	45	14	6.56	7	4
12-Feb-12	45.1	22	37	17	37	1,672	3.73	5.0	4.6	47	45	14	6.60	9	9
13-Feb-12	44.3	16	26	12	35	1,532	3.39	4.2	4.6	43	45	14	6.46	9	9
14-Feb-12	43.6	13	22	12	36	1,556	3.24	3.9	4.6	43	45	14	6.38	43	43
15-Feb-12	42.5	11	28	11	36	1,523	3.28	3.9	4.6	43	45	14	6.45	43	7
16-Feb-12	42.7	8	33	10	36	1,554	3.38	3.9	4.5	43	45	14	6.51	21	15
17-Feb-12	43.2	16	22	10	37	1,607	3.46	4.2	4.5	45	45	14	6.54	9	9
18-Feb-12	43.6	19	19	11	36	1,578	3.52	4.3	4.5	43	45	14	6.56	<3	<3
19-Feb-12	42.5	19	24	12	37	1,551	3.62	4.4	4.5	42	45	14	6.55	23	9
20-Feb-12	43.8	15	22	13	36	1,591	3.61	4.5	4.5	43	45	14	6.46	9	9
21-Feb-12	42.2	24	21	12	33	1,395	3.10	4.4	4.5	43	45	14	6.44	9	9
22-Feb-12	42.2	20	22	13	38	1,582	3.57	4.6	4.5	45	45	14	6.49	23	23
23-Feb-12	41.8	15	22	11	36	1,501	3.59	4.4	4.5	44	45	14	6.39	23	23
24-Feb-12	43.0	14	23	11	38	1,633	3.82	4.5	4.5	45	45	14	6.41	4	4
25-Feb-12	43.8	16	21	14	37	1,629	3.77	4.6	4.5	44	45	14	6.57	9	9
26-Feb-12	44.8	17	24	16	36	1,589	3.78	4.4	4.4	43	45	14	6.51	9	4
27-Feb-12	42.8	16	21	12	35	1,497	3.66	4.4	4.4	42	44	14	6.65	43	15
28-Feb-12	42.5	26	26	13	37	1,571	3.67	4.6	4.4	43	44	14	6.52	9	9
29-Feb-12	42.4	11	18	11	36	1,525	3.58	4.4	4.4	44	44	14	6.39	150	150
<b>Max:</b>															
<b>Min:</b>															
<b>Average:</b>															
<b>Geo.Mean:</b>															

**Notes:**

- (1) effluent ammonia load based upon Raw Sewage flows and Final NH3-N concentrations
- (2) nr - not recorded or no result; na - not analyzed; ns - no sample
- (3) Where value is expressed as less than (<), the value is halved and used in the calculations
- (4) \* = 30 day rolling average

(5)\*\* Flow, highlighted in bold, in excess of 98.6 ML/D per clause 26 of Licence 2716R.

(6) Bracketed Coliform results not used in the Geometric Mean calculation.

(7) Raw wastewater flows in excess of 100 ML/D will by-pass the secondary process.

(8) Total Nitrogen results are calculated from TKN and nitrate values.