

City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
January, 2006

Date	Raw Sewage	Final Effluent 24 Hour Composite										Final Effluent Grab Sample			
	Daily Flow	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-Jan-06	144.7	10	26	6	29	4,200	4.45	4.3	3.7	36	37	16.0	6.98	43,000	15,000
2-Jan-06	153.4	9	30	6	28	4,300	4.62	4.7	3.8	40	37	16.0	6.79	93,000	93,000
3-Jan-06	154.2	9	27	6	28	4,320	4.29	4.3	3.8	48	37	15.0	6.87	93,000	93,000
4-Jan-06	160.1	8	30	6	30	4,800	4.64	4.2	3.8	62	38	15.0	7.07	230,000	230,000
5-Jan-06	156.0	9	27	6	31	4,840	4.79	4.5	3.8	39	38	15.5	6.80	210,000	210,000
7-Jan-06	152.2	7	30	6	31	4,720	4.72	4.4	3.9	39	38	15.5	6.87	150,000	75,000
7-Jan-06	150.1	9	28	6	31	4,650	4.25	4.2	3.9	37	38	15.5	6.75	230,000	230,000
9-Jan-06	149.1	8	27	7	31	4,620	4.17	nr	nr	34	38	16.0	6.81	43,000	43,000
9-Jan-06	159.7	8	39	6	27	4,310	4.33	4.4	3.9	38	38	15.0	6.85	93,000	93,000
10-Jan-06	155.6	10	25	6	30	4,670	4.33	4.9	3.9	41	38	15.0	6.81	230,000	230,000
11-Jan-06	167.3	11	20	6	29	4,850	4.10	4.1	4.0	37	38	15.5	6.73	93,000	93,000
12-Jan-06	172.3	11	22	6	31	5,340	4.61	4.2	4.0	41	39	15.5	6.71	43,000	23,000
13-Jan-06	178.3	9	21	5	31	5,530	4.50	4.3	4.0	40	39	15.5	6.78	43,000	15,000
14-Jan-06	166.1	10	26	7	33	5,480	4.56	4.8	4.1	41	39	15.0	6.76	21,000	15,000
15-Jan-06	167.9	10	24	7	31	5,210	4.24	4.6	4.1	35	39	16.0	6.85	43,000	15,000
16-Jan-06	175.5	10	18	6	27	4,740	3.83	4.6	4.2	42	39	15.5	6.89	23,000	23,000
17-Jan-06	169.6	8	25	6	27	4,580	3.84	4.1	4.2	38	39	15.5	6.88	43,000	43,000
18-Jan-06	168.7	11	20	6	27	4,560	3.69	4.4	4.2	40	39	15.0	7.06	23,000	23,000
19-Jan-06	162.4	10	26	6	30	4,870	4.58	4.3	4.3	39	39	15.0	6.78	29,000	9,300
20-Jan-06	161.5	12	24	7	32	5,170	4.20	4.6	4.3	44	39	15.5	6.84	7,500	7,500
21-Jan-06	156.2	14	34	8	31	4,840	4.03	nr	nr	36	39	15.5	6.80	23,000	9,300
23-Jan-06	154.6	14	23	7	31	4,790	4.05	4.0	4.3	39	39	15.5	6.82	12,000	12,000
23-Jan-06	159.2	18	30	11	31	4,940	3.86	4.8	4.3	44	39	15.5	7.02	23,000	2,300
24-Jan-06	163.2	20	28	11	30	4,900	3.26	4.2	4.3	42	40	15.0	6.93	43,000	43,000
25-Jan-06	161.2	14	24	9	31	5,000	3.56	3.9	4.3	40	40	15.5	6.95	21,000	4,300
26-Jan-06	163.5	40	48	23	33	5,400	4.63	4.5	4.3	38	40	15.5	6.91	23,000	23,000
27-Jan-06	165.5	17	33	9	27	4,470	2.68	2.6	4.3	36	40	15.0	6.95	430,000	430,000
28-Jan-06	165.6	13	26	8	29	4,800	3.26	3.9	4.3	42	40	15.0	6.94	38,000	38,000
29-Jan-06	153.9	12	17	7	30	4,620	3.99	4.4	4.3	40	40	15.0	6.90	9,300	4,300
30-Jan-06	161.7	13	19	7	29	4,690	3.93	4.6	4.3	40	40	15.0	6.98	15,000	15,000
31-Jan-06	162.4	12	20	7	30	4,870	4.46	4.7	4.3	41	40	15.0	6.85	23,000	23,000
Total:	4992														
Max:	178.3														
Min:	144.7														
Average:	161.0	12	26	7	30	4,810	4.14	4.3		40		15.4	6.87		
Geo.Mean:														46,000	32,000

Notes:

(1) * = 30 day rolling average

(2) effluent ammonia load based upon Raw Sewage flows and Final NH3-N concentrations

(3) nr - not recorded or no result; na - not analyzed; ns - no sample

(4)** During normal plant operation any flow greater than 400 ML/ day will by-pass the secondary process

(5) January 16, 17, 18, 19, 30, 31; 3 plant shut-downs which could affect 24 hour composite sample results