

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

July, 2007

Date	Raw Sewage	Final Effluent 24 Hour Composite									Final Effluent Grab Sample			
	Daily Flow ⁷	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-Jul-07	36.3	19	7	16	580	4.11	4.7	3.6	20	15	21	7.96	2	2
2-Jul-07	45.8	15	8	16	733	4.11	4.5	3.7	21	15	21	7.90	5	5
3-Jul-07	38.7	23	6	15	581	4.01	4.4	3.9	20	16	23	7.90	5	2
4-Jul-07	36.1	13	5	15	542	3.80	4.2	4.0	20	16	24	8.03	<2	<2
5-Jul-07	34.7	15	6	15	520	3.78	4.1	4.0	19	17	23	7.94	2	2
6-Jul-07	34.0	14	6	16	544	3.95	3.9	4.1	19	17	24	8.08	13	13
7-Jul-07	33.0	15	8	16	528	3.93	3.4	4.1	17	17	25	8.10	11	11
8-Jul-07	32.7	14	5	16	524	3.88	3.9	4.2	18	17	25	8.08	8	8
9-Jul-07	32.7	12	5	14	457	3.75	3.5	4.2	17	18	24	8.07	9	9
10-Jul-07	43.9	16	5	13	571	3.59	4.1	4.2	18	18	23	8.11	11	11
11-Jul-07	36.2	23	9	13	470	3.36	3.7	4.2	17	18	21	8.26	5	5
12-Jul-07	34.9	22	9	12	418	3.02	3.6	4.1	18	18	21	8.37	2	2
13-Jul-07	39.1	22	8	11	430	2.50	2.6	4.1	15	18	21	8.64	79	49
14-Jul-07	36.9	16	8	9	332	1.98	2.3	4.0	14	18	21	8.83	23	13
15-Jul-07	35.0	10	6	9	315	1.75	2.2	3.9	14	18	22	8.99	<2	<2
16-Jul-07	34.5	17	7	8	276	1.75	2.4	3.9	15	18	21	8.80	5	2
17-Jul-07	33.0	12	6	7	231	1.49	1.5	3.8	16	18	23	8.97	<2	<2
18-Jul-07	32.7	9	4	8	262	1.56	1.7	3.7	19	18	24	8.92	nr	<2
19-Jul-07	32.0	11	6	8	256	1.83	2.2	3.7	13	18	24	8.77	<2	<2
20-Jul-07	31.3	11	6	8	250	2.00	2.0	3.6	13	18	24	8.70	5	2
21-Jul-07	30.3	19	10	8	242	2.12	2.4	3.5	14	18	23	8.74	8	8
22-Jul-07	30.8	22	8	8	247	2.10	2.2	3.5	14	17	24	8.61	na	na
23-Jul-07	31.6	14	8	7	221	2.06	2.1	3.4	14	17	26	8.66	8	8
24-Jul-07	31.2	12	5	7	218	2.21	2.1	3.4	11	17	28	8.59	<2	<2
25-Jul-07	34.0	21	8	8	272	2.47	2.4	3.3	11	17	28	8.31	5	2
26-Jul-07	42.4	16	8	8	339	2.70	2.6	3.3	12	17	27	8.14	23	8
27-Jul-07	32.9	11	8	8	263	2.78	2.9	3.2	12	16	26	8.19	16	5
28-Jul-07	31.1	14	9	8	249	2.91	2.8	3.1	12	16	27	8.34	7	4
29-Jul-07	31.2	13	9	7	218	2.99	3.4	3.1	13	16	26	8.22	2	2
30-Jul-07	31.7	12	7	8	254	3.01	3.0	3.0	12	16	27	8.16	2	2
31-Jul-07	31.1	17	9	8	249	2.95	2.9	3.0	13	15	27	8.10	11	4
Max:	45.8													
Min:	30.3													
Average:	34.6	15	7	11	374	2.85	3.0		15		24	8.37		
Geo.Mean:													5	4

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
- (7) Daily Flow = Raw Sewage Flow + Pumped Groundwater Flow