

City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
December 2007

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-Dec-07	24.6	5	3	22	541	1.60	1.7	1.5	nr	20	1	8.16	92	92
2-Dec-07	25.3	8	3	23	581	1.74	2.0	1.5	29	21	1	8.15	92	36
3-Dec-07	23.6	6	3	24	565	1.77	2.2	1.5	29	21	1	8.09	360	15
4-Dec-07	22.3	7	4	26	579	1.82	2.2	1.5	21	21	1	8.08	230	92
5-Dec-07	23.1	7	4	24	555	1.88	2.4	1.6	21	21	1	8.10	230	230
6-Dec-07	23.1	10	4	27	625	1.94	2.4	1.6	21	21	1	8.05	920	210
7-Dec-07	23.2	9	4	26	604	2.05	2.3	1.6	20	21	0	8.06	920	23
8-Dec-07	24.4	8	5	27	658	2.10	2.4	1.6	20	21	1	8.03	360	92
9-Dec-07	25.4	8	4	25	635	2.15	2.4	1.7	20	21	1	7.93	36	36
10-Dec-07	23.6	7	4	26	615	2.26	2.8	1.7	28	21	1	7.90	2,300	920
11-Dec-07	22.8	8	4	27	616	2.39	2.3	1.8	32	21	1	7.90	230	230
12-Dec-07	23.2	8	3	26	603	2.42	2.6	1.8	27	21	1	7.86	360	150
13-Dec-07	23.1	6	2	27	624	2.34	2.4	1.8	28	22	1	7.80	36	36
14-Dec-07	23.6	5	5	28	659	2.41	2.8	1.9	31	22	1	7.87	92	92
15-Dec-07	24.7	5	4	28	691	2.46	2.7	1.9	30	23	1	7.82	920	210
16-Dec-07	25.5	6	3	28	713	2.53	2.9	2.0	32	23	1	7.80	92	92
17-Dec-07	5.2	6	4	28	146	2.62	2.7	2.0	30	24	1	7.70	360	360
18-Dec-07	15.6	6	3	29	452	2.68	2.9	2.1	31	24	1	7.71	360	92
19-Dec-07	22.7	6	3	29	659	2.73	2.6	2.1	32	24	1	7.71	74	74
20-Dec-07	22.9	6	3	30	687	2.83	2.7	2.1	33	25	1	7.61	740	23
21-Dec-07	22.2	5	3	nr	nr	nr	2.8	2.2	nr	25	1	7.66	360	360
22-Dec-07	23.8	4	3	30	715	3.06	2.5	2.2	28	25	1	7.67	740	740
23-Dec-07	23.4	5	4	30	703	3.06	3.3	2.3	35	25	1	7.61	360	360
24-Dec-07	23.5	5	5	31	729	3.11	2.7	2.3	25	26	1	7.57	1,500	360
25-Dec-07	21.4	5	5	30	641	3.15	3.5	2.4	26	26	1	7.66	740	200
26-Dec-07	22.1	5	4	30	664	3.27	3.5	2.5	30	26	1	7.56	2,300	920
27-Dec-07	21.7	5	4	30	652	3.21	3.1	2.5	27	26	1	7.51	9,200	3,600
28-Dec-07	21.7	<4	4	31	674	3.24	3.1	2.6	29	27	2	7.53	2,300	2,300
29-Dec-07	22.7	<4	5	32	725	3.29	3.1	2.6	20	27	1	7.60	9,200	920
30-Dec-07	22.9	4	5	31	709	3.38	3.2	2.7	28	27	1	7.56	9,200	2,300
31-Dec-07	22.6	4	5	31	699	3.31	3.3	2.7	23	27	1	7.48	43,000	15,000
Max:	25.5													
Min:	5.2													
Average:	22.4	6	4	28	624	2.56	2.7		27		1	7.80		
Geo.Mean:													556	218

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) The results for Total Nitrogen and Phosphorus are lower than normal due to technical difficulties with our analysis. Total Phosphorus and Total Nitrogen results are corrected based on the recovery of a quality control standard