

City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
August, 2007

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-Aug-07	205.7	9	19	7	15	3,086	2.77	2.5	3.0	24	27	21.0	6.90	920	920
2-Aug-07	179.5	12	26	11	19	3,411	3.16	4.0	3.0	33	28	20.9	6.71	540	170
3-Aug-07	175.9	13	19	7	21	3,694	3.49	4.4	3.1	36	28	20.8	6.95	240	27
4-Aug-07	151.7	10	19	6	19	2,882	3.36	4.0	3.1	33	28	21.0	6.98	920	920
5-Aug-07	154.6	13	18	7	18	2,783	3.29	4.2	3.1	34	29	20.5	6.80	1,600	1,600
6-Aug-07	150.7	15	19	8	17	2,562	3.29	4.1	3.1	31	29	20.6	6.76	1,600	540
7-Aug-07	173.7	11	22	6	18	3,127	3.07	3.8	3.2	30	29	20.3	6.94	3,500	350
8-Aug-07	230.1	21	32	13	17	3,912	2.69	3.6	3.2	27	29	20.5	6.68	(350000)	(350000)
9-Aug-07	182.4	37	41	22	22	4,013	2.84	3.8	3.3	33	28	20.9	6.63	920	110
10-Aug-07	348.3	8	14	5	12	4,180	1.49	1.9	3.2	18	28	19.8	6.69	24,000	5,400
11-Aug-07	182.3	9	14	7	17	3,099	2.52	2.9	3.2	27	28	20.0	6.87	95	31
12-Aug-07	160.0	7	18	6	21	3,360	3.19	3.7	3.2	33	28	20.5	6.85	3,500	1,600
13-Aug-07	172.6	8	20	9	18	3,107	3.35	3.0	3.3	25	28	20.2	6.77	540	220
14-Aug-07	173.4	8	14	5	19	3,295	3.48	3.4	3.3	27	29	20.4	6.76	540	17
15-Aug-07	224.9	15	31	8	17	3,823	2.88	3.2	3.3	24	29	20.3	6.75	1,600	350
16-Aug-07	178.7	8	46	5	23	4,110	3.19	3.4	3.3	31	28	19.9	6.93	920	920
17-Aug-07	177.0	8	14	7	26	4,602	3.43	3.6	3.3	33	28	20.3	6.76	3,500	2,400
18-Aug-07	166.5	8	13	4	27	4,496	3.61	3.7	3.3	34	29	19.8	6.94	33	23
19-Aug-07	159.5	8	21	5	28	4,466	3.61	3.6	3.3	34	29	20.4	6.88	280	280
20-Aug-07	206.7	15	38	8	25	5,168	3.31	4.2	3.3	40	29	20.3	6.93	920	110
21-Aug-07	228.1	12	17	7	20	4,562	2.54	3.2	3.3	27	29	19.9	6.80	4,900	2,200
22-Aug-07	199.9	9	16	5	15	2,999	2.43	3.1	3.3	27	29	20.0	6.78	56	48
23-Aug-07	178.4	6	16	4	25	4,460	3.07	3.9	3.3	34	29	20.3	6.98	2,400	350
24-Aug-07	171.2	8	22	5	28	4,794	3.45	4.3	3.4	37	30	20.3	7.10	920	11
25-Aug-07	159.4	6	16	5	26	4,144	3.25	4.2	3.5	35	30	19.5	7.08	5,400	1,600
26-Aug-07	157.2	5	23	4	26	4,087	3.24	4.0	3.5	35	31	20.2	6.93	140	14
27-Aug-07	174.2	7	22	4	27	4,703	3.37	4.1	3.6	35	31	20.2	6.94	540	23
28-Aug-07	215.3	15	48	14	27	5,813	3.43	4.4	3.6	36	31	20.1	7.07	280	17
29-Aug-07	199.9	10	13	4	23	4,598	2.68	3.6	3.6	33	31	19.8	6.90	3,300	330
30-Aug-07	193.5	7	22	5	27	5,225	3.20	3.3	3.6	32	31	20.2	6.90	49	11
31-Aug-07	177.3	9	15	3	25	4,433	3.30	3.2	3.7	26	31	20.3	6.90	920	350
Max:	348														
Min:	151														
Average:	187	11	22	7	22	3,967	3.10	3.6		31		20.3	6.87		
Geo.Mean:														793	192

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 380 ML/D per clause 26 of Licence 2684RR.
- (6) Bracketed Coliform results not used in the Geometric Mean calculation.
- (7) Raw wastewater flows in excess of 400 ML/D will by-pass the secondary process and flows in excess of 675 ML/D will cause raw sewage to by-pass the plant.