

City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
October 2008

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-Oct-08	157.7	8	23	5	25	3,864	4.50	nr	3.6	nr	26	19	6.72	50	50
2-Oct-08	160.3	12	25	7	24	3,911	4.37	5.0	3.7	34	26	20	6.75	280	220
3-Oct-08	163.5	9	22	5	24	3,842	4.24	4.7	3.8	34	27	19	6.77	211	211
4-Oct-08	163.3	8	21	5	19	3,168	3.71	4.1	3.9	29	27	19	6.89	70	21
5-Oct-08	160.2	10	nr	nr	19	2,964	3.69	4.2	3.9	28	27	19	6.83	30	11
6-Oct-08	348.2	36	42	16	11	3,969	2.27	3.1	3.9	19	27	18	6.74	(90,000)	(50,000)
7-Oct-08	205.5	7	<10	<2	12	2,528	1.91	2.7	3.9	20	27	18	6.85	30	30
8-Oct-08	189.3	6	19	4	16	3,105	2.80	3.2	3.9	23	27	18	6.90	170	110
9-Oct-08	183.9	8	26	5	18	3,237	3.05	3.6	3.9	25	27	19	6.78	80	30
10-Oct-08	170.9	7	nr	nr	19	3,247	3.65	4.2	3.9	25	26	19	6.90	80	50
11-Oct-08	159.7	14	33	10	20	3,162	3.98	4.4	3.9	25	26	19	6.87	110	50
12-Oct-08	474.4	40	38	13	7	3,207	1.24	2.0	3.8	11	25	15	6.83	(30,000)	(30,000)
13-Oct-08	357.6	12	18	6	7	2,596	1.05	1.6	3.7	12	25	13	7.27	130	27
14-Oct-08	249.5	5	13	4	12	2,869	2.19	2.5	3.7	17	24	16	7.03	11	4
15-Oct-08	216.0	6	21	4	14	3,067	2.64	3.1	3.7	20	24	17	7.02	60	21
16-Oct-08	202.2	5	31	4	17	3,417	2.99	3.5	3.6	23	24	18	6.89	70	9
17-Oct-08	197.3	8	35	5	17	3,334	3.37	4.2	3.6	25	24	18	6.95	500	22
18-Oct-08	194.5	8	30	4	15	2,995	3.37	4.0	3.6	25	24	17	7.02	50	8
19-Oct-08	199.9	10	34	5	14	2,859	3.04	3.6	3.6	24	24	18	6.89	110	110
20-Oct-08	201.2	7	28	4	15	2,978	3.24	3.7	3.6	24	23	17	6.89	5,000	2,200
21-Oct-08	199.7	8	27	4	15	2,976	3.16	3.8	3.6	25	23	17	6.86	50	11
22-Oct-08	240.5	9	25	4	15	3,535	2.79	3.4	3.5	22	23	17	6.87	110	70
23-Oct-08	185.1	11	35	5	15	2,758	3.29	4.0	3.6	25	24	18	6.87	130	80
24-Oct-08	192.8	7	25	5	14	2,661	3.19	3.8	3.7	23	24	18	6.83	500	500
25-Oct-08	205.2	8	28	6	13	2,688	3.04	3.8	3.7	22	24	17	6.89	70	70
26-Oct-08	206.6	9	27	4	11	2,314	2.73	3.3	3.7	20	24	16	6.95	230	130
27-Oct-08	180.9	8	29	4	13	2,370	3.23	3.6	3.7	22	23	16	6.78	46	13
28-Oct-08	163.8	6	26	4	16	2,588	3.57	4.1	3.7	26	23	17	6.85	130	80
29-Oct-08	163.8	11	25	4	17	2,719	3.49	4.3	3.7	27	23	17	6.88	14,000	1,700
30-Oct-08	161.9	8	34	5	16	2,623	3.81	4.3	3.6	28	24	18	6.73	170	49
31-Oct-08	159.9	8	33	7	17	2,718	3.93	4.3	3.7	27	24	18	6.81	700	280
Max:	474														
Min:	158														
Average:	207	10	27	5	16	3,041	3.15	3.7		24		18	6.87		
Geo.Mean:														138	57

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.