

City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
November 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-Nov-08	156.3	8	28	5	16	2,548	4.14	4.5	3.7	28	23	18	6.79	220	170
2-Nov-08	156.8	10	30	6	16	2,462	3.94	4.4	3.6	27	23	18	6.83	3,300	220
3-Nov-08	159.9	7	35	5	19	2,990	4.19	4.7	3.7	26	23	21	6.75	1,300	130
4-Nov-08	160.4	8	38	5	18	2,951	3.98	4.5	3.7	23	23	17	6.68	790	790
5-Nov-08	166.1	9	31	5	17	2,890	3.83	4.4	3.7	27	23	18	6.72	1,300	330
6-Nov-08	311.8	45	43	16	14	4,396	2.75	3.6	3.7	21	23	22	6.80	330	79
7-Nov-08	303.9	14	nr	7	9	2,884	1.45	1.8	3.7	16	23	13	6.93	(790)	(330)
8-Nov-08	206.9	11	29	4	12	2,421	2.03	2.5	3.7	19	23	13	6.98	33	7
9-Nov-08	186.8	8	26	5	13	2,503	2.53	2.9	3.6	22	23	16	6.89	70	17
10-Nov-08	180.4	10	31	6	14	2,526	2.77	3.3	3.6	26	23	14	6.93	49	33
11-Nov-08	179.2	6	26	4	17	2,957	3.03	3.6	3.6	28	23	16	6.98	110	21
12-Nov-08	191.5	7	30	5	17	3,217	2.83	3.5	3.7	25	24	16	6.90	110	110
13-Nov-08	337.1	19	33	9	10	3,506	1.78	2.7	3.7	18	24	14	6.87	(>160,000)	(160,000)
14-Nov-08	239.7	4	23	5	10	2,421	1.99	2.7	3.7	17	24	13	6.98	nr	nr
15-Nov-08	202.6	7	24	5	13	2,715	2.98	3.4	3.7	21	24	15	6.90	170	27
16-Nov-08	195.6	8	37	4	14	2,660	2.61	2.9	3.6	22	24	15	6.93	1,300	48
17-Nov-08	188.7	5	29	4	15	2,831	2.84	3.4	3.6	23	23	16	6.94	21	13
18-Nov-08	189.3	5	34	4	19	3,597	3.32	4.0	3.6	28	24	16	6.92	70	49
19-Nov-08	186.8	6	17	5	21	3,885	3.08	3.6	3.6	27	24	15	6.93	70	70
20-Nov-08	178.3	8	27	4	22	3,833	2.97	3.7	3.6	27	24	17	6.94	110	14
21-Nov-08	171.0	8	23	5	21	3,642	3.11	3.8	3.6	28	24	15	6.94	33	17
22-Nov-08	163.7	6	14	4	21	3,372	2.74	3.4	3.6	24	24	15	6.92	170	70
23-Nov-08	160.1	6	16	4	20	3,250	2.82	3.4	3.6	27	24	16	7.01	22	22
24-Nov-08	162.9	7	26	4	19	3,095	2.77	3.4	3.6	24	24	15	6.86	33	17
25-Nov-08	163.9	6	14	3	20	3,311	2.92	1.7	3.5	15	24	15	6.84	33	13
26-Nov-08	163.3	6	15	4	23	3,756	3.29	3.7	3.6	27	24	15	6.97	110	17
27-Nov-08	166.9	7	21	5	24	4,072	3.25	4.1	3.6	31	24	15	6.90	170	70
28-Nov-08	171.9	8	19	5	24	4,057	3.43	3.9	3.5	30	24	15	6.86	170	170
29-Nov-08	176.8	5	20	5	23	4,084	3.26	3.4	3.5	29	24	14	7.03	79	79
30-Nov-08	167.9	6	21	6	24	4,046	3.54	4.2	3.5	33	25	15	6.97	170	70
Max:	337														
Min:	156														
Average:	192	9	26	5	18	3,229	3.01	3.5		25		15.7	6.90		
Geo.Mean:														138	49

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.