

City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
February, 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-Feb-07	168.2	ns	ns	ns	ns	ns	ns	4.8	ns	36	14.7	6.95	240	240	
2-Feb-07	165.0	14	57	7	30	4,950	3.97	5.3	4.8	41	17.2	6.86	540	540	
3-Feb-07	160.7	14	63	8	31	4,982	4.32	5.4	4.9	42	12.3	6.94	110	79	
4-Feb-07	156.7	8	50	6	31	4,858	4.36	5.4	4.9	42	12.4	6.87	2,400	2,400	
5-Feb-07	159.1	ns	ns	ns	ns	ns	ns	ns	4.9	ns	14.3	6.86	130	130	
6-Feb-07	164.2	11	41	7	31	5,090	4.18	5.4	4.9	41	16.2	7.03	350	170	
7-Feb-07	165.0	7	57	7	33	5,445	4.57	4.8	4.8	44	14.7	6.88	110	79	
8-Feb-07	161.9	10	45	6	36	5,828	4.61	5.4	4.8	42	15.0	6.60	350	350	
9-Feb-07	161.8	20	42	8	33	5,339	4.22	5.2	4.9	39	17.1	6.84	49	49	
10-Feb-07	156.0	11	38	7	28	4,368	3.53	4.4	4.9	33	12.7	6.82	70	70	
11-Feb-07	151.9	12	31	6	26	3,949	3.49	4.2	4.9	34	12.2	6.88	1,600	1,600	
12-Feb-07	162.6	10	41	8	28	4,553	3.83	4.5	4.9	35	12.4	6.97	1,600	1,600	
13-Feb-07	167.1	14	20	9	41	6,851	4.40	5.6	4.9	44	15.5	6.83	170	170	
14-Feb-07	156.2	17	44	8	37	5,779	4.76	5.4	5.0	43	15.5	6.79	240	240	
15-Feb-07	153.1	16	52	9	39	5,971	5.36	5.8	5.0	49	15.3	6.82	350	170	
16-Feb-07	156.3	10	41	8	35	5,471	4.52	5.2	5.0	44	17.1	6.86	1,600	1,600	
17-Feb-07	162.5	13	41	9	35	5,688	4.35	5.2	5.0	45	12.5	6.89	240	240	
18-Feb-07	158.8	8	42	7	33	5,240	4.38	4.9	5.0	40	12.9	6.86	350	350	
19-Feb-07	167.3	8	48	8	33	5,521	4.46	5.1	5.1	41	14.2	6.95	540	540	
20-Feb-07	152.9	18	53	11	30	4,587	3.90	5.2	5.1	42	13.0	7.06	1,600	1,600	
21-Feb-07	160.8	13	48	8	32	5,146	3.61	4.9	5.1	41	16.9	6.99	540	540	
22-Feb-07	170.9	14	51	9	31	5,298	3.66	4.6	5.1	39	16.2	6.83	920	920	
23-Feb-07	165.6	14	57	10	33	5,465	3.83	4.4	5.1	38	16.3	7.01	170	170	
24-Feb-07	165.0	13	48	9	33	5,445	3.69	4.3	5.0	38	13.6	6.89	280	280	
25-Feb-07	170.6	14	51	8	32	5,459	3.65	4.2	5.0	38	13.6	7.02	540	540	
26-Feb-07	168.5	15	58	9	31	5,224	3.50	4.5	5.0	39	13.8	6.81	2,400	2,400	
27-Feb-07	173.7	15	51	9	35	6,080	3.43	2.6	4.9	28	13.5	6.85	350	350	
28-Feb-07	178.5	15	25	9	31	5,534	3.66	4.0	4.9	40	16.1	6.91	1,600	1,600	
Max:	179														
Min:	152														
Average:	162.9	13	46	8	33	5,312	4.09	4.8		40	14.5	6.89			
Geo.Mean:													411	381	

- 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.