

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
January 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-Jan-07	44.8	8	23	6	27	1,210	4.01	4.7	4.7	32	34	15	6.90	5	5
2-Jan-07	48.2	11	20	7	28	1,350	4.36	5.3	4.7	31	34	15	6.91	110	110
3-Jan-07	47.3	10	18	9	27	1,277	4.14	5.3	4.7	35	34	15	6.66	1,600	1,600
4-Jan-07	47.4	8	19	7	27	1,280	4.02	4.7	4.7	32	33	15	6.80	1,600	1,600
5-Jan-07	47.1	ns	ns	ns	ns	ns	ns	ns	4.7	ns	33	15	6.77	920	920
6-Jan-07	48.1	8	23	11	29	1,395	3.94	4.7	4.7	33	33	15	6.79	350	350
7-Jan-07	49.8	14	16	9	28	1,394	3.82	5.0	4.7	34	33	15	6.86	130	130
8-Jan-07	48.0	9	<10	7	27	1,296	3.31	4.0	4.7	31	33	15	6.59	1,600	1,600
9-Jan-07	46.7	4	16	7	29	1,354	3.98	4.5	4.6	32	32	15	6.62	540	540
10-Jan-07	46.3	7	12	7	20	926	3.47	4.5	4.6	33	32	14	6.84	540	540
11-Jan-07	46.1	5	11	5	19	876	3.81	4.4	4.6	33	33	14	6.79	79	49
12-Jan-07	45.9	7	38	5	19	872	4.61	5.6	4.6	37	33	14	6.70	79	79
13-Jan-07	47.6	9	17	6	21	1,000	5.01	3.4	4.6	23	32	13	6.71	70	46
14-Jan-07	48.6	7	13	8	27	1,312	4.54	5.1	4.6	32	32	14	6.73	49	49
15-Jan-07	46.0	9	15	8	30	1,380	4.03	4.9	4.5	34	32	14	6.70	920	920
16-Jan-07	49.5	15	20	12	34	1,683	5.59	6.9	4.6	36	32	14	6.77	5,600	5,600
17-Jan-07	47.6	14	16	9	31	1,476	2.93	3.8	4.6	34	32	15	6.86	350	350
18-Jan-07	45.6	14	15	6	31	1,414	3.09	4.3	4.6	36	33	14	7.07	130	130
19-Jan-07	46.0	8	12	10	33	1,518	4.19	5.0	4.6	33	33	15	6.79	920	920
20-Jan-07	48.1	12	12	8	33	1,587	4.33	5.1	4.6	34	33	14	6.90	23	23
21-Jan-07	48.7	11	15	10	31	1,510	4.01	4.9	4.6	33	33	14	6.88	79	79
22-Jan-07	47.5	23	20	12	31	1,473	5.05	5.9	4.6	33	33	15	6.70	70	70
23-Jan-07	45.9	10	15	9	31	1,423	3.89	4.3	4.6	36	33	15	6.93	920	920
24-Jan-07	45.7	15	13	8	30	1,371	3.38	4.1	4.6	36	33	15	6.88	140	140
25-Jan-07	45.9	8	14	8	30	1,377	3.68	4.3	4.7	37	33	15	6.82	540	540
26-Jan-07	46.7	15	15	8	29	1,354	3.05	3.8	4.7	36	33	15	6.74	350	350
27-Jan-07	48.1	6	12	6	31	1,490	1.60	2.0	4.6	34	33	14	6.64	33	33
28-Jan-07	48.7	8	12	7	30	1,461	2.21	2.8	4.5	36	33	14	6.85	33	33
29-Jan-07	46.5	6	11	5	31	1,442	2.41	3.1	4.5	36	33	14	6.61	350	350
30-Jan-07	45.4	6	10	5	31	1,407	2.70	3.7	4.5	36	34	14	6.78	240	240
31-Jan-07	45.2	12	12	5	31	1,401	3.04	4.0	4.5	36	34	15	6.80	33	33
Max:	49.8														
Min:	44.8														
Average:	47.1	10	16	8	29	1,344	3.74	4.5		34		14	6.79		
Geo.Mean:														211	205

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 98.6 ML/D per clause 26 of Licence 2716.
- (6) Bracketed Coliform results not used in the Geometric Mean calculation.
- (7) Raw wastewater flows in excess of 100 ML/D will by-pass the secondary process.