

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
September 2010**

Date	Raw Sewage	Final Effluent 24 Hour Composite									Final Effluent Grab Sample			
	Daily Flow	TSS	cBOD5	Ammonia		Ortho Phosphorus	Total Phosphorus		Total Nitrogen		Temp.	pH	Fecal Coliform	E.Coli
	ML	(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-Sep-10	40.5	34	7	0.12	5	0.77	1.4	1.2	4	4	17	9.35	43	23
2-Sep-10	67.4	42	8	0.16	11	0.82	1.3	1.2	4	4	17	9.32	430	430
3-Sep-10	60.4	35	6	0.17	10	0.90	1.3	1.2	4	4	15	9.32	230	230
4-Sep-10	38.1	22	7	0.12	5	0.86	1.1	1.2	3	4	15	9.36	150	150
5-Sep-10	43.8	21	5	0.11	5	1.01	1.2	1.2	4	4	16	9.38	23	23
6-Sep-10	37.8	29	6	0.06	2	1.01	1.3	1.2	4	4	16	9.33	4	4
7-Sep-10	35.2	27	5	0.18	6	1.03	1.4	1.2	4	4	15	9.29	43	43
8-Sep-10	33.8	20	5	0.24	8	1.05	1.4	1.2	3	4	14	9.21	43	43
9-Sep-10	32.8	32	7	0.20	7	1.17	1.7	1.3	4	5	14	9.20	15	15
10-Sep-10	53.2	38	9	0.37	20	1.24	1.7	1.3	5	5	14	9.05	43	43
11-Sep-10	51.1	33	9	0.43	22	1.25	1.8	1.3	5	5	14	9.00	43	43
12-Sep-10	40.7	38	7	0.35	14	1.22	1.7	1.3	5	5	14	9.06	43	43
13-Sep-10	36.1	27	5	0.44	16	1.27	1.7	1.3	5	5	14	8.89	23	23
14-Sep-10	33.2	18	4	0.57	19	1.29	1.6	1.4	4	5	13	8.88	43	43
15-Sep-10	31.6	17	4	0.66	21	1.36	1.6	1.4	4	4	14	8.74	15	15
16-Sep-10	31.1	23	4	0.73	23	1.47	1.8	1.4	5	4	14	8.71	15	15
17-Sep-10	31.2	22	7	0.81	25	1.52	1.8	1.4	6	4	13	8.60	23	23
18-Sep-10	29.2	18	5	0.91	27	1.48	1.9	1.4	6	5	11	8.69	240	240
19-Sep-10	29.2	16	4	0.86	25	1.49	1.7	1.4	5	5	11	8.66	7	7
20-Sep-10	28.6	15	7	0.92	26	1.50	1.8	1.5	5	5	11	8.63	4	4
21-Sep-10	28.0	17	5	1.11	31	1.51	1.8	1.5	6	5	11	8.50	4	4
22-Sep-10	31.9	18	5	1.08	34	1.49	1.8	1.5	6	5	11	8.63	43	43
23-Sep-10	33.7	20	6	0.94	32	1.49	1.9	1.5	6	5	11	8.62	4	4
24-Sep-10	60.2	14	6	0.81	49	1.41	1.8	1.5	6	5	10	8.62	23	23
25-Sep-10	47.3	17	6	0.68	32	1.37	1.8	1.5	5	5	11	8.81	4	9
26-Sep-10	39.9	31	12	0.56	22	1.41	1.8	1.6	6	5	11	8.87	23	23
27-Sep-10	35.2	27	7	0.40	14	1.35	1.7	1.6	5	5	13	8.89	<3	<3
28-Sep-10	33.0	21	6	0.63	21	1.35	1.7	1.6	5	5	14	8.98	43	15
29-Sep-10	31.1	30	8	0.72	22	1.74	1.8	1.6	4	5	15	8.92	4	4
30-Sep-10	29.5	22	7	0.60	18	1.31	1.7	1.6	5	5	15	8.91	23	9
Max:	67.4													
Min:	28.0													
Average:	38.5	25	6	0.53	19	1.27	1.6		5		13	8.95		
Geo.Mean:													23	21

Notes:

- (1) * = 30 day rolling average
- (2) Effluent ammonia load based upon Raw Sewage flows and Final Cell NH3-N concentrations
- (3) nr - not recorded or no result; na - not analyzed; ns - no sample

- (4) Final Effluent flow data unavailable
- (5) Where < values are reported 50% of the MDL is used for calculated results
- (6) Licence No. 2669 E RR
- (7) Total Nitrogen results are calculated from TKN and nitrate values.