

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
April 2013**

Licence 2716RR	Raw Sewage	Final Effluent 24 Hour Composite										Final Effluent Grab Sample		
		TSS		BOD5		cBOD5		Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	E.Coli
		(mg/L)	(mg/L)*	(mg/L)	(mg/L)*	(mg/L)	(mg/L)*	(kg NH3-N/day)	(mg/L-P)	(mg/L-P)*	(mg/L-N)*	(°C)	(units)	MPN/100 mL
1-Apr-13	52.6	9	10	31	27	9	8	1,624	3.68	4.6	40	12	6.47	43
2-Apr-13	53.1	8	10	34	27	7	8	1,676	3.71	4.6	40	13	6.49	43
3-Apr-13	51.6	11	10	27	27	7	8	1,579	3.64	4.6	41	13	6.59	3
4-Apr-13	55.0	7	10	36	28	7	8	1,712	3.83	4.6	41	13	6.57	23
5-Apr-13	51.1	9	10	34	28	5	8	1,440	3.49	4.5	41	12	6.57	4
6-Apr-13	52.7	7	9	nr	27	nr	7	1,707	3.93	4.5	40	13	6.56	23
7-Apr-13	56.4	17	9	36	27	12	7	1,744	3.62	4.5	40	14	6.61	23
8-Apr-13	52.5	11	9	35	28	10	7	1,559	3.52	4.4	40	13	6.50	15
9-Apr-13	51.0	14	10	37	28	12	7	1,602	3.87	4.5	40	13	6.63	93
10-Apr-13	56.0	16	10	>38	27	14	8	1,830	3.91	4.5	40	13	6.60	43
11-Apr-13	58.0	19	10	<3	26	15	8	1,653	3.34	4.5	41	14	6.89	4,300
12-Apr-13	57.4	18	10	<28	26	14	8	1,491	3.23	4.4	40	13	6.63	93
13-Apr-13	64.9	21	11	<3	25	16	8	1,629	2.94	4.4	40	13	6.58	120
14-Apr-13	70.5	16	11	34	26	13	9	1,636	2.73	4.3	40	13	6.62	15
15-Apr-13	72.8	8	11	26	26	8	8	1,486	2.26	4.3	39	12	6.78	430
16-Apr-13	60.9	8	11	35	26	8	8	1,371	2.67	4.2	39	12	6.64	93
17-Apr-13	60.0	7	11	34	27	6	8	1,529	3.21	4.2	39	12	6.58	43
18-Apr-13	70.6	39	12	nr	25	nr	8	1,666	3.08	4.1	37	12	6.58	43
19-Apr-13	69.0	14	12	27	25	10	8	1,807	3.36	4.0	37	12	6.59	930
20-Apr-13	64.2	12	12	22	24	6	8	1,600	3.22	4.0	37	13	6.59	15
21-Apr-13	70.4	17	13	32	25	6	8	1,775	3.05	3.9	36	12	6.64	43
22-Apr-13	68.6	11	13	30	25	9	8	1,496	2.85	3.9	36	12	6.55	93
23-Apr-13	67.0	11	12	29	25	8	8	1,468	2.99	3.9	36	12	6.65	23
24-Apr-13	65.4	10	13	34	25	8	8	1,418	2.86	3.8	35	12	6.72	9
25-Apr-13	68.0	13	13	34	26	9	9	1,529	3.03	3.8	35	12	6.74	23
26-Apr-13	77.9	22	13	38	26	15	9	1,535	2.25	3.7	35	12	6.72	93
27-Apr-13	91.2	51	15	42	26	25	10	1,606	1.74	3.7	34	12	6.81	9
28-Apr-13	86.5	45	16	41	26	23	10	1,565	1.60	3.6	34	12	6.84	43
29-Apr-13	88.7	39	17	36	27	20	10	1,490	1.72	3.6	34	12	6.89	43
30-Apr-13	135.8	ns	16	ns	26	ns	10	ns	ns	3.5	33	10	7.15	(4,300)
Max:	135.8													
Min:	51.0													
Average:	66.7	17		30		11		1,594	3.08			12	6.66	
Total Flow:														
Geo.Mean:														44

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 27 of Licence 2716RR
- (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
- (8) Total Nitrogen results are calculated from TKN and nitrate values