

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
May 2012**

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-May-12	58.4	10	13	<10	19	6	9	1,753	2.90	3.2	38	15	6.65	9
2-May-12	55.5	7	13	<10	18	5	9	1,655	2.88	3.3	38	15	6.62	23
3-May-12	54.4	6	13	<10	18	5	9	1,724	3.79	3.3	38	15	6.66	7
4-May-12	52.1	7	13	<10	17	4	9	1,647	3.28	3.3	38	15	6.65	9
5-May-12	53.6	7	13	10	17	5	9	1,666	3.19	3.4	38	16	6.67	4
6-May-12	55.6	5	12	<10	17	5	9	1,729	3.19	3.4	38	15	6.62	4
7-May-12	55.8	5	12	<10	16	5	9	1,730	3.12	3.4	38	15	6.67	20
8-May-12	54.9	4	12	11	16	5	9	1,658	3.06	3.4	38	15	6.65	43
9-May-12	53.3	4	12	8	15	4	9	1,625	2.62	3.4	38	15	6.72	150
10-May-12	52.8	33	13	19	15	16	9	1,621	3.17	3.4	38	15	6.66	43
11-May-12	62.8	14	13	11	14	5	8	1,709	3.17	3.4	38	15	6.63	230
12-May-12	53.4	6	13	<10	14	4	8	1,585	3.22	3.4	38	16	6.69	43
13-May-12	54.7	11	12	14	13	8	8	1,690	3.49	3.3	38	16	6.64	23
14-May-12	54.1	4	11	9	12	7	7	1,651	3.38	3.4	38	15	6.70	93
15-May-12	52.6	6	11	10	12	7	7	1,764	3.89	3.5	38	16	6.74	230
16-May-12	51.1	8	11	24	12	8	7	1,677	3.29	3.6	38	16	6.69	93
17-May-12	53.2	12	8	nr	10	nr	6	1,829	3.73	3.6	38	16	6.73	43
18-May-12	53.9	6	8	12	10	8	6	1,632	3.42	3.6	39	16	6.63	2800
19-May-12	84.7	26	9	30	11	17	6	1,661	1.84	3.6	39	16	6.75	93
20-May-12	59.0	19	9	17	11	8	6	1,287	2.42	3.6	39	15	6.66	43
21-May-12	56.8	8	9	11	11	9	7	1,489	3.39	3.7	38	16	6.70	7
22-May-12	62.7	4	9	7	11	4	7	1,624	3.20	3.7	38	15	6.73	21
23-May-12	63.5	<4	9	5	11	<3	6	1,625	3.06	3.7	38	16	6.66	21
24-May-12	56.3	8	9	9	11	5	6	1,621	3.69	3.7	38	17	6.83	930
25-May-12	54.5	<4	9	5	11	3	6	1,609	3.36	3.8	38	16	6.69	7
26-May-12	52.5	<4	9	<10	11	3	6	1,597	3.70	3.8	38	16	6.66	9
27-May-12	79.8	18	9	18	11	13	7	1,843	2.73	3.8	37	16	6.65	11
28-May-12	112.2	6	9	12	11	9	7	1,806	1.78	3.7	37	14	6.99	(11)
29-May-12	114.7	5	9	13	11	3	7	1,617	1.63	3.6	36	14	7.15	(4300)
30-May-12	79.1	4	9	7	10	<3	6	1,550	2.22	3.6	36	15	7.03	9
31-May-12	69.6	11	9	13	11	6	6	1,538	2.58	3.6	36	15	6.83	15
Max:	114.7													
Min:	51.1													
Average:	62.2	9		11		6		1,652	3.04			15	6.72	
Total Flow:	1927.7													
Geo.Mean:														32

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