

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
October 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-Oct-12	48.9	8	10	17	12	12	9	1,612	4.61	4.3	40	19	6.53	930
2-Oct-12	49.0	14	10	15	12	14	10	1,711	4.10	4.3	40	19	6.60	150
3-Oct-12	49.0	12	10	11	12	10	10	1,689	3.62	4.3	42	18	6.55	4,300
4-Oct-12	70.3	17	11	17	12	16	10	2,131	3.42	4.3	42	18	6.55	230
5-Oct-12	61.8	5	11	7	12	7	10	1,545	2.53	4.2	42	17	6.71	40
6-Oct-12	52.0	9	11	9	12	9	10	1,696	3.33	4.2	42	17	6.69	na
7-Oct-12	49.1	9	11	8	12	7	10	1,621	3.46	4.2	42	18	6.58	40
8-Oct-12	56.2	19	11	19	12	18	10	1,882	3.76	4.2	42	18	6.57	na
9-Oct-12	75.7	10	11	9	12	7	10	1,907	2.37	4.2	41	16	6.60	93
10-Oct-12	54.6	11	11	10	12	9	10	1,702	3.13	4.1	41	17	6.69	9
11-Oct-12	54.0	11	11	nr	12	nr	10	1,832	3.52	4.1	41	18	6.59	230
12-Oct-12	52.1	<4	11	8	12	7	10	1,859	3.71	4.1	41	18	6.77	15
13-Oct-12	51.3	12	11	10	12	9	10	1,759	3.50	4.1	41	18	6.69	9
14-Oct-12	51.3	10	11	10	12	9	10	1,831	3.78	4.1	41	18	6.63	15
15-Oct-12	51.6	8	11	9	11	8	10	1,712	3.47	4.1	41	18	6.61	75
16-Oct-12	50.1	11	11	12	11	10	10	1,815	3.56	4.1	41	18	6.62	23
17-Oct-12	59.7	31	11	29	12	24	10	2,031	3.85	4.2	41	19	6.67	380
18-Oct-12	74.3	10	11	19	12	15	10	1,938	2.39	4.1	41	18	6.72	93
19-Oct-12	69.8	19	11	12	12	11	10	1,626	1.43	4.0	40	17	6.78	75
20-Oct-12	55.5	11	11	12	12	12	11	1,560	2.49	4.0	40	18	6.63	75
21-Oct-12	56.5	17	12	13	12	11	11	1,712	3.32	4.0	40	17	6.63	43
22-Oct-12	53.5	15	12	11	12	10	11	1,723	3.45	4.0	40	18	6.50	150
23-Oct-12	69.7	27	13	19	13	nr	11	2,021	3.17	4.0	40	18	6.78	43
24-Oct-12	65.4	4	12	5	12	5	10	1,603	2.38	3.9	40	17	6.66	93
25-Oct-12	56.8	4	12	9	12	6	10	1,767	3.36	3.9	40	17	6.80	93
26-Oct-12	55.9	9	12	8	12	6	10	1,817	3.57	3.9	39	17	6.57	23
27-Oct-12	54.6	10	12	19	13	7	10	1,714	3.37	3.8	39	17	6.62	4
28-Oct-12	55.1	16	12	nr	13	nr	10	1,836	3.72	3.8	39	18	6.61	9
29-Oct-12	53.2	13	13	26	13	8	10	1,611	3.50	3.8	39	17	6.53	9
30-Oct-12	52.1	11	12	34	14	7	10	1,620	3.47	3.8	39	17	6.65	23
31-Oct-12	51.3	11	12	45	15	8	10	1,493	3.20	3.7	39	18	6.55	23
Max:	75.7													
Min:	48.9													
Average:	56.8	12		15		10		1,754	3.31			18	6.63	
Total Flow:	1760.4													
Geo.Mean:														55

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