

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
August 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-Aug-12	49.4	10	7	14	8	7	5	1,616	4.04	4.3	37	20	6.49	4
2-Aug-12	50.8	11	7	14	8	7	5	1,599	4.03	4.4	37	20	6.55	7
3-Aug-12	60.0	17	7	17	9	13	5	1,656	3.65	4.4	37	20	6.60	7
4-Aug-12	79.1	15	7	15	9	11	5	1,511	2.31	4.4	37	20	6.55	43
5-Aug-12	50.4	10	8	15	9	9	6	1,103	2.45	4.3	37	20	6.64	9
6-Aug-12	51.8	19	8	23	10	12	6	1,341	3.06	4.3	37	20	6.69	23
7-Aug-12	53.4	15	8	17	10	10	6	1,441	3.29	4.3	37	19	6.62	230
8-Aug-12	51.8	12	9	15	11	8	6	1,502	3.54	4.3	36	20	6.62	430
9-Aug-12	51.5	13	9	18	11	12	6	1,540	3.60	4.3	36	20	6.65	15
10-Aug-12	50.9	6	9	11	11	7	7	1,521	3.61	4.3	36	20	6.59	43
11-Aug-12	48.2	7	9	11	11	6	7	1,427	3.62	4.3	36	20	6.65	4
12-Aug-12	54.7	11	9	12	12	8	7	1,598	3.61	4.3	36	20	6.66	4
13-Aug-12	52.7	8	10	10	12	6	7	1,487	3.21	4.3	36	20	6.60	150
14-Aug-12	51.7	5	9	8	12	5	7	1,526	3.45	4.2	36	20	6.56	150
15-Aug-12	59.3	9	9	10	12	7	7	1,642	3.59	4.2	36	20	6.63	150
16-Aug-12	58.5	<4	9	8	12	4	7	1,439	2.77	4.2	36	20	6.61	14
17-Aug-12	51.9	5	9	7	12	3	7	1,566	3.24	4.2	36	19	6.66	23
18-Aug-12	48.2	10	9	10	12	4	7	1,445	3.24	4.2	36	19	6.62	3
19-Aug-12	49.6	7	10	11	12	5	7	1,474	3.43	4.1	36	19	6.63	<3
20-Aug-12	51.7	10	10	12	12	5	7	1,474	3.53	4.1	36	19	6.55	23
21-Aug-12	51.9	13	10	20	13	10	7	1,553	3.51	4.1	36	20	6.51	15
22-Aug-12	51.9	13	10	17	13	9	7	1,553	3.06	4.1	36	19	6.64	43
23-Aug-12	51.6	5	10	19	13	9	7	1,543	3.09	4.0	36	20	6.58	430
24-Aug-12	50.9	10	10	14	13	9	7	1,477	2.98	4.0	36	20	6.60	23
25-Aug-12	48.3	12	10	15	13	10	8	1,405	2.78	3.9	36	20	6.67	23
26-Aug-12	48.0	11	10	nr	14	nr	8	1,412	3.03	3.9	36	20	6.61	9
27-Aug-12	51.1	10	10	16	14	9	8	1,529	3.51	3.9	35	19	6.56	150
28-Aug-12	50.6	11	10	12	14	9	8	1,528	3.91	3.9	35	19	6.49	43
29-Aug-12	50.8	7	10	10	14	8	8	1,519	3.42	3.8	35	20	6.58	93
30-Aug-12	51.4	6	10	10	13	9	8	1,531	3.68	3.8	35	19	6.56	9
31-Aug-12	50.5	16	10	15	14	10	8	1,551	4.00	3.8	35	20	6.62	93
Max:	79.1													
Min:	48.0													
Average:	52.7	10		14		8		1,500	3.36			20	6.60	
Total Flow:	1632.6													
Geo.Mean:														27

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