

City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
March 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-Mar-13	46.3	14	15	24	29	9	11	1,477	3.95	4.6	44	14	6.63	9
2-Mar-13	47.6	12	15	26	29	10	11	1,522	3.91	4.6	44	14	6.60	110
3-Mar-13	48.0	9	15	24	29	10	11	1,501	3.66	4.6	44	14	6.60	93
4-Mar-13	46.5	13	15	26	28	11	10	1,418	3.74	4.5	42	15	6.54	43
5-Mar-13	45.5	13	15	23	28	12	10	1,497	3.98	4.5	42	14	6.85	43
6-Mar-13	44.9	18	16	32	28	15	10	1,550	4.58	4.6	42	14	6.69	930
7-Mar-13	47.1	17	16	32	28	14	11	1,579	4.85	4.6	42	14	6.72	430
8-Mar-13	46.0	18	16	32	28	13	11	1,468	4.29	4.6	42	14	6.60	3,800
9-Mar-13	46.8	9	16	nr	27	nr	10	1,494	4.05	4.6	42	14	6.60	93
10-Mar-13	50.4	12	16	31	27	10	11	1,527	3.69	4.6	42	14	6.60	15
11-Mar-13	47.6	8	16	29	27	11	11	1,339	3.83	4.6	42	14	6.53	93
12-Mar-13	46.7	8	16	29	27	8	11	1,370	3.90	4.6	42	14	6.51	23
13-Mar-13	46.5	9	16	32	28	11	11	1,433	4.02	4.6	42	14	6.51	230
14-Mar-13	47.4	10	16	31	28	11	11	1,569	4.31	4.6	42	14	6.58	38
15-Mar-13	47.0	15	16	nr	27	nr	10	1,608	4.25	4.6	42	14	6.58	380
16-Mar-13	47.5	15	16	26	27	10	10	1,634	4.06	4.6	42	13	6.67	43
17-Mar-13	48.1	8	15	24	26	8	10	1,543	3.78	4.6	41	14	6.62	150
18-Mar-13	46.1	<4	15	26	26	7	10	1,471	3.64	4.6	41	13	6.51	93
19-Mar-13	45.7	6	14	40	26	10	10	1,541	4.05	4.6	41	14	6.54	150
20-Mar-13	45.9	12	14	39	27	6	10	1,566	4.06	4.6	41	14	6.63	7
21-Mar-13	46.8	4	13	34	27	9	10	1,618	5.13	4.6	41	14	6.66	930
22-Mar-13	47.7	8	12	nr	26	nr	9	1,603	4.88	4.6	41	14	6.60	46,000
23-Mar-13	49.4	7	12	36	26	6	9	1,654	4.27	4.6	41	13	6.59	3
24-Mar-13	48.1	16	12	41	26	9	9	1,583	4.17	4.6	41	13	6.53	4
25-Mar-13	49.9	8	11	36	27	8	9	1,578	3.86	4.6	41	14	6.52	43
26-Mar-13	52.2	5	11	nr	26	nr	9	1,596	3.94	4.6	41	13	6.57	9
27-Mar-13	51.5	6	11	43	27	8	9	1,590	3.95	4.6	41	13	6.57	4
28-Mar-13	51.5	12	11	34	27	6	8	1,555	4.00	4.6	41	14	6.64	430
29-Mar-13	54.4	14	11	30	27	9	8	1,546	3.49	4.6	41	14	6.69	4
30-Mar-13	59.6	11	11	23	27	12	8	1,514	3.17	4.6	40	13	6.52	9
31-Mar-13	52.3	8	10	24	27	6	8	1,319	2.96	4.6	40	12	6.57	93
Max:	59.6													
Min:	44.9													
Average:	48.4	11		31		10		1,525	4.01			14	6.60	
Total Flow:														
Geo.Mean:														70

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