

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
October 2014**

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-14	55.1	5	8	17	16	8	7	1,714	3.53	3.6	35	18	6.91	23
2-Oct-14	52.5	7	8	34	16	8	7	1,569	3.43	3.7	35	18	6.72	93
3-Oct-14	56.0	8	8	38	18	7	7	1,842	3.56	3.7	36	18	6.74	15
4-Oct-14	53.5	8	8	17	18	6	7	1,775	3.71	3.7	36	18	6.61	4
5-Oct-14	54.4	22	9	>38	18	10	7	1,686	3.72	3.8	36	17	6.64	23
6-Oct-14	52.9	6	8	18	18	8	8	1,713	3.62	3.8	37	18	6.71	930
7-Oct-14	51.9	7	8	26	19	9	8	1,759	3.82	3.9	37	18	6.70	9
8-Oct-14	50.6	15	9	16	19	8	8	1,755	3.94	3.9	37	18	6.67	9
9-Oct-14	49.8	10	9	17	19	11	8	1,827	4.26	3.9	38	18	6.67	150
10-Oct-14	51.2	17	9	13	19	8	8	1,798	4.34	4.0	38	nr	nr	nr
11-Oct-14	50.6	22	10	27	19	17	8	1,681	4.06	4.0	38	18	6.59	43
12-Oct-14	51.5	22	10	25	19	16	9	1,528	3.51	4.0	38	18	6.63	430
13-Oct-14	51.1	10	10	21	19	14	9	1,620	3.61	4.0	38	18	6.64	430
14-Oct-14	50.9	15	10	17	19	12	9	1,752	3.71	4.0	38	18	6.69	1,500
15-Oct-14	49.7	10	10	20	19	11	9	1,711	3.81	4.0	39	18	6.69	230
16-Oct-14	49.8	11	11	nr	18	nr	9	1,773	4.18	4.1	39	18	6.71	750
17-Oct-14	49.3	12	11	16	18	12	9	1,785	4.40	4.1	39	18	6.70	430
18-Oct-14	50.2	17	11	24	18	14	9	1,844	4.31	4.1	39	18	6.73	43
19-Oct-14	51.5	15	11	18	18	11	9	1,868	4.14	4.1	39	18	6.67	4
20-Oct-14	49.9	11	11	21	18	12	9	1,665	3.71	4.2	40	18	6.64	15
21-Oct-14	48.9	15	11	24	18	13	9	1,838	4.34	4.2	40	18	6.67	93
22-Oct-14	49.5	7	11	18	18	11	9	1,737	4.07	4.3	40	18	6.66	43
23-Oct-14	49.7	9	11	16	18	10	9	1,820	4.18	4.3	41	19	6.61	150
24-Oct-14	49.6	8	11	19	18	11	10	1,794	4.41	4.3	41	18	6.63	15
25-Oct-14	51.1	17	12	18	19	12	10	1,967	4.38	4.4	41	18	6.64	210
26-Oct-14	50.8	13	12	21	19	11	10	1,832	4.21	4.4	41	18	6.66	43
27-Oct-14	49.9	15	12	21	19	13	10	1,787	4.10	4.4	41	18	6.59	230
28-Oct-14	48.8	16	12	20	19	11	10	1,785	4.20	4.4	42	18	6.62	43
29-Oct-14	47.9	15	12	19	20	14	10	1,859	4.31	4.5	42	17	6.69	93
30-Oct-14	48.9	16	13	22	19	14	11	1,887	4.44	4.5	42	18	6.57	38
31-Oct-14	48.9	16	13	22	20	15	11	1,916	4.95	4.6	43	17	6.58	43
Max:	56.0													
Min:	47.9													
Average:	50.8	13		21		11		1,771	4.03			18	6.67	
Total Flow:	1576.2													
Geo.Mean:														68

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