

**City of Winnipeg
Water and Waste Department
South End Water Pollution Control Centre Monitoring Data
November 2015**

Licence # 2716RR	File # 1069.10	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-Nov-15	55.8	7	8	19	17	4	7	1,858	3.51	4.0	38	18	6.69	240
2-Nov-15	51.6	7	8	16	17	5	7	1,703	3.24	4.0	38	18	6.78	29
3-Nov-15	53.2	5	8	15	17	4	7	1,692	3.38	4.0	38	18	6.71	93
4-Nov-15	51.3	7	8	20	18	5	7	1,645	3.50	4.0	38	18	6.74	23
5-Nov-15	61.2	3	8	NR	17	NR	7	1,908	3.52	4.0	38	18	6.74	93
6-Nov-15	56.5	7	7	10	17	4	6	1,644	3.13	3.9	38	17	6.73	430
7-Nov-15	56.1	4	7	11	17	4	6	1,678	3.45	3.9	38	17	6.76	23
8-Nov-15	56.2	6	7	12	17	5	6	1,708	3.31	3.9	38	17	6.72	<3
9-Nov-15	53.6	4	7	12	17	NR	6	1,571	3.23	3.9	38	18	6.67	110
10-Nov-15	51.5	9	7	12	17	NR	6	1,667	3.67	3.9	38	18	6.78	20
11-Nov-15	52.0	8	7	13	16	7	6	1,779	3.81	3.9	38	17	6.77	4
12-Nov-15	51.3	18	7	22	16	13	6	1,740	4.36	4.0	38	17	6.85	9
13-Nov-15	51.5	7	7	10	16	5	6	1,685	3.20	4.0	38	17	6.69	240
14-Nov-15	51.5	8	7	11	16	6	6	1,783	3.81	4.0	39	17	6.76	43
15-Nov-15	52.3	9	7	11	16	4	6	1,745	3.70	4.0	39	17	6.74	43
16-Nov-15	52.8	6	7	11	16	4	6	1,842	3.76	4.0	39	17	6.66	15
17-Nov-15	50.8	6	7	11	16	4	6	1,814	3.82	4.0	39	17	6.72	93
18-Nov-15	50.6	7	7	11	15	5	6	1,838	4.11	4.0	39	17	6.63	<3
19-Nov-15	49.0	4	7	11	15	6	6	1,719	4.22	4.0	39	17	6.73	240
20-Nov-15	46.7	4	7	12	15	5	6	1,620	4.12	4.0	39	17	6.67	23
21-Nov-15	48.4	9	7	14	15	6	6	1,796	4.58	4.0	40	16	6.70	23
22-Nov-15	49.0	10	7	18	15	6	5	1,686	3.73	4.1	39	16	6.65	74
23-Nov-15	48.3	10	7	16	15	7	5	1,685	3.80	4.1	40	17	6.62	7
24-Nov-15	47.1	9	7	16	14	6	5	1,673	3.89	4.1	40	17	6.70	93
25-Nov-15	46.5	8	7	20	14	7	5	1,641	4.06	4.1	40	17	6.63	93
26-Nov-15	46.5	9	7	NR	14	NR	6	1,651	4.04	4.1	40	16	6.70	23
27-Nov-15	47.1	7	7	NR	14	NR	6	1,721	4.21	4.2	40	16	6.76	9
28-Nov-15	47.3	10	7	17	14	6	6	1,679	2.58	4.2	40	16	6.65	<3
29-Nov-15	48.8	8	7	16	14	6	6	1,698	3.98	4.2	40	16	6.71	9
30-Nov-15	49.4	6	7	21	14	8	6	1,763	4.02	4.2	41	16	6.67	43
Min:	46.5													
Average:	51.1	7		14		6		1,721	3.72			17	6.71	
Total Flow:	1533.9													
Geo.Mean:														29

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