

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

Licence # 2669 E RR	File # 53.10	Final Effluent 24 Hour Composite						Final Effluent Grab Sample					
		Date	Raw Sewage Daily Flow	TSS	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
			ML	(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	22.7	41	8	0.1	0.03	0.7	4	6	9.17	23	23		
2-Nov-15	21.3	37	8	0.1	0.04	0.6	4	6	9.08	15	15		
3-Nov-15	22.2	38	9	1.1	0.05	0.6	4	6	9.09	15	15		
4-Nov-15	21.9	34	8	0.9	0.06	0.6	4	6	8.94	23	23		
5-Nov-15	25.4	35	NR	1.8	0.06	0.6	4	6	8.86	23	23		
6-Nov-15	23.1	34	8	1.8	0.06	0.6	4	5	8.88	43	43		
7-Nov-15	23.4	28	7	1.9	0.05	0.6	4	4	9.91	43	15		
8-Nov-15	23.8	34	7	2.1	0.06	0.6	4	4	8.95	43	43		
9-Nov-15	22.2	32	9	0.1	0.04	0.6	4	4	8.88	23	23		
10-Nov-15	21.0	37	10	4.2	0.05	0.6	4	4	8.91	93	93		
11-Nov-15	21.8	26	7	4.8	0.06	0.6	3	4	8.90	93	93		
12-Nov-15	20.9	27	7	0.1	0.10	0.5	3	3	8.82	240	43		
13-Nov-15	21.1	28	8	0.1	0.05	0.5	3	2	8.88	93	93		
14-Nov-15	21.6	29	7	0.1	0.06	0.5	3	5	8.96	43	43		
15-Nov-15	22.3	32	7	0.1	0.04	0.5	3	3	8.89	7	7		
16-Nov-15	21.3	28	7	2.6	0.03	0.5	3	4	8.77	9	4		
17-Nov-15	21.0	25	7	3.2	0.11	0.5	3	5	8.73	15	15		
18-Nov-15	21.2	33	6	2.5	0.04	0.5	3	4	8.56	9	9		
19-Nov-15	20.8	45	6	3.3	0.05	0.5	3	1	8.60	93	93		
20-Nov-15	20.5	35	6	3.1	0.05	0.5	4	0	8.54	43	43		
21-Nov-15	21.2	40	6	3.2	0.07	0.5	4	0	8.62	23	23		
22-Nov-15	22.1	32	6	3.8	0.05	0.5	4	0	8.68	23	23		
23-Nov-15	21.2	34	5	3.6	0.06	0.5	4	0	8.48	93	93		
24-Nov-15	21.2	NS	NS	NS	NS	0.5	4	0	8.49	23	23		
25-Nov-15	23.0	27	6	5.3	0.05	0.5	4	1	8.46	9	9		
26-Nov-15	21.8	24	NR	4.8	0.04	0.5	4	1	8.45	11	11		
27-Nov-15	20.7	21	NR	6.2	0.06	0.5	4	1	8.48	23	23		
28-Nov-15	21.5	24	6	6.0	0.05	0.5	4	1	8.42	4	4		
29-Nov-15	21.9	18	6	8.8	0.08	0.4	4	1	8.48	4	4		
30-Nov-15	21.0	22	6	9.6	0.05	0.4	4	1	8.40	9	4		
Min:	20.5												
Average:	21.8	31	7	3	0.06			3	8.78				
Total Flow:	655.4												
Geo.Mean:										25	21		

Notes:

- (1) Effluent ammonia load based upon Raw Sewage flows and Final Cell 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) Total Nitrogen results are calculated from TKN and nitrate values