

**City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
October 2016**

Licence # 2669 E RR	File # 53.10	Final Effluent 24 Hour Composite						Final Effluent Grab Sample					
		Date	Raw Sewage Daily Flow ML	TSS	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
				(mg/L)	(mg/L)	(kg NH3-N/day)	(mg/L-P)	(mg/L-P)*	(mg/L-N)*	(°C)	(units)	MPN/100 mL	
1-Oct-16	21.5	11	<3	1.9	0.51	0.8	1.7	13.9	9.35	43	43		
2-Oct-16	22.3	11	<3	3.8	0.53	0.8	1.7	14.4	9.29	43	43		
3-Oct-16	21.4	12	<3	6.9	0.59	0.8	1.7	16.3	9.20	43	43		
4-Oct-16	23.1	14	<3	5.1	0.54	0.8	1.7	16.3	9.12	43	43		
5-Oct-16	30.5	12	<3	8.5	0.53	0.8	1.7	14.9	9.12	1,400	1,400		
6-Oct-16	23.0	13	<3	6.9	0.55	0.8	1.7	11.6	9.18	930	930		
7-Oct-16	23.3	11	<3	5.6	0.58	0.8	1.7	10.5	9.06	430	430		
8-Oct-16	22.9	12	<3	9.6	0.63	0.7	1.7	8.8	9.35	930	930		
9-Oct-16	21.7	18	<3	4.8	0.58	0.7	1.7	8.5	9.21	150	150		
10-Oct-16	22.6	16	3	11.1	0.56	0.7	1.7	9.9	9.27	30	30		
11-Oct-16	21.6	18	<3	5.2	0.49	0.7	1.8	8.7	9.07	280	280		
12-Oct-16	21.6	16	<3	9.5	0.51	0.7	1.8	7.8	9.03	430	150		
13-Oct-16	21.8	12	3	5.9	0.53	0.7	1.7	nr	9.05	43	43		
14-Oct-16	21.9	9	<3	5.3	0.52	0.7	1.8	7.0	9.15	43	43		
15-Oct-16	22.7	17	<3	8.6	0.50	0.7	1.8	7.7	9.14	93	93		
16-Oct-16	24.6	17	<3	9.1	0.57	0.7	1.8	8.1	9.00	43	43		
17-Oct-16	25.9	14	<3	9.6	0.51	0.7	1.8	8.2	9.02	300	240		
18-Oct-16	22.9	14	<3	10.1	0.52	0.7	1.8	8.6	9.12	43	43		
19-Oct-16	22.3	10	<3	10.0	0.55	0.7	1.8	7.8	8.99	1,500	93		
20-Oct-16	21.8	8	<3	9.6	0.48	0.7	1.8	7.2	9.10	43	43		
21-Oct-16	22.0	7	<3	10.8	0.58	0.7	1.8	6.5	8.88	74	74		
22-Oct-16	22.7	9	<3	10.4	0.55	0.7	1.8	6.3	8.85	23	23		
23-Oct-16	42.4	11	<3	14.4	0.48	0.7	1.8	7.1	8.81	23	23		
24-Oct-16	26.3	8	<3	8.7	0.48	0.7	1.8	7.4	8.73	150	150		
25-Oct-16	24.4	6	<3	7.8	0.48	0.7	1.8	7.3	8.89	23	9		
26-Oct-16	26.0	6	<3	10.1	0.41	0.7	1.8	7.4	8.76	93	93		
27-Oct-16	24.6	7	<3	10.1	0.42	0.7	1.8	7.3	8.97	93	43		
28-Oct-16	23.8	8	<3	9.8	0.44	0.7	1.8	8.1	8.69	240	93		
29-Oct-16	24.2	6	<3	9.0	0.43	0.6	1.8	7.5	8.52	610	610		
30-Oct-16	24.6	8	<3	10.1	0.44	0.6	1.8	7.1	8.64	43	43		
31-Oct-16	32.6	5	<3	10.4	0.45	0.6	1.8	7.3	8.49	43	43		
Max:	42.4												
Min:	21.4												
Average:	24.3	11	<3	8	0.51			9.2	9.00				
Total Flow:	752.9												
Geo.Mean:										110	89		

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