

City of Winnipeg
Water and Waste Department
West End Water Pollution Control Centre Monitoring Data
July 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-Jul-16	29.5	11	4	278	0.98	1.1	13.8	19.9	7.86	43	43		
2-Jul-16	27.6	16	5	257	0.96	1.2	14.1	21.3	7.90	15	15		
3-Jul-16	29.0	12	5	274	1.00	1.2	14.5	22.2	7.92	93	93		
4-Jul-16	32.1	12	6	317	1.03	1.2	14.8	21.7	7.87	23	23		
5-Jul-16	43.3	14	6	446	1.06	1.2	15.2	22.7	7.29	4,300	4,300		
6-Jul-16	34.3	10	4	341	1.06	1.2	15.5	22.4	7.89	9	9		
7-Jul-16	31.0	11	4	286	1.13	1.2	15.8	22.9	8.00	9	9		
8-Jul-16	29.5	6	5	253	1.10	1.2	16.1	22.0	8.00	43	43		
9-Jul-16	29.0	12	5	245	1.06	1.2	16.2	23.2	8.02	23	23		
10-Jul-16	29.0	12	7	239	1.02	1.2	16.5	22.7	7.96	15	15		
11-Jul-16	28.7	13	6	226	1.03	1.2	16.6	23.1	8.03	43	43		
12-Jul-16	35.6	16	5	272	0.99	1.2	16.6	22.5	7.74	23	23		
13-Jul-16	43.8	16	5	344	0.93	1.2	16.6	21.8	8.01	23	23		
14-Jul-16	33.6	11	5	232	0.87	1.2	16.6	20.6	7.98	4	4		
15-Jul-16	30.2	8	5	172	0.79	1.2	16.4	20.9	8.11	<3	<3		
16-Jul-16	30.1	11	4	143	0.73	1.2	16.3	21.5	8.29	9	9		
17-Jul-16	32.3	14	4	146	0.71	1.2	16.1	21.8	8.21	9	9		
18-Jul-16	29.2	9	5	105	0.69	1.2	15.9	21.8	8.32	23	23		
19-Jul-16	27.9	7	3	83	0.67	1.2	15.5	22.8	8.37	9	9		
20-Jul-16	29.5	11	4	74	0.65	1.1	15.2	23.0	8.29	9	9		
21-Jul-16	36.6	ns	ns	ns	ns	1.1	15.1	23.3	8.29	43	43		
22-Jul-16	30.0	ns	ns	ns	ns	1.1	15.1	24.6	8.42	93	93		
23-Jul-16	33.6	ns	ns	ns	ns	1.1	15.1	24.7	8.71	23	9		
24-Jul-16	34.9	ns	ns	ns	ns	1.1	15.1	22.9	8.27	9	9		
25-Jul-16	28.6	16	11	20	0.69	1.1	14.6	23.6	8.43	43	7		
26-Jul-16	26.2	12	4	9	0.65	1.1	14.1	24.8	8.66	15	9		
27-Jul-16	24.9	12	4	5	0.60	1.1	13.6	24.9	8.74	15	15		
28-Jul-16	24.4	11	4	6	0.63	1.1	13.1	23.4	8.75	23	23		
29-Jul-16	24.6	8	3	24	0.77	1.1	12.6	24.1	8.88	4	4		
30-Jul-16	24.7	16	4	4	0.75	1.1	12.1	21.5	8.88	14	14		
31-Jul-16	24.0	21	5	6	0.79	1.0	11.6	23.8	8.86	9	<3		
Max:	43.8												
Min:	24.0												
Average:	30.6	12	5	178	0.86			22.7	8.22				
Total Flow:	947.6									20	17		
Geo.Mean:													

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