

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

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-Dec-15	20.7	18	7	5.8	0.17	0.4	4	1	8.43	4	<3		
2-Dec-15	20.5	19	6	8.6	0.06	0.4	4	1	8.39	4	4		
3-Dec-15	20.3	14	5	11.8	0.07	0.4	4	1	8.45	NR	NR		
4-Dec-15	20.5	12	6	9.4	0.10	0.4	4	1	8.38	NR	NR		
5-Dec-15	21.0	7	6	20.8	0.11	0.4	4	1	8.40	4	4		
6-Dec-15	21.9	16	6	13.8	0.09	0.4	4	1	8.44	<3	<3		
7-Dec-15	21.4	10	6	13.5	0.07	0.4	4	1	8.45	15	15		
8-Dec-15	21.1	14	5	17.3	0.11	0.4	4	1	8.42	9	9		
9-Dec-15	20.6	12	6	26.6	0.07	0.4	4	1	8.33	9	9		
10-Dec-15	21.3	8	6	20.6	0.07	0.4	4	1	8.33	7	7		
11-Dec-15	21.4	6	6	18.8	0.06	0.4	4	1	8.31	9	9		
12-Dec-15	21.4	13	6	22.4	0.11	0.4	4	1	8.30	23	23		
13-Dec-15	22.4	10	6	25.6	0.10	0.4	4	1	8.23	4	4		
14-Dec-15	22.4	7	6	30.7	0.09	0.4	4	1	8.16	15	15		
15-Dec-15	21.0	15	5	33.4	0.09	0.4	4	1	8.16	23	23		
16-Dec-15	20.4	7	7	38.3	0.10	0.4	4	1	8.12	93	93		
17-Dec-15	20.5	10	6	42.8	0.08	0.4	4	1	8.03	23	23		
18-Dec-15	20.3	11	7	45.8	0.09	0.4	5	1	8.07	43	43		
19-Dec-15	21.0	11	7	44.7	0.09	0.4	5	0	8.18	9	9		
20-Dec-15	21.2	10	6	62.8	0.13	0.4	5	0	8.15	240	240		
21-Dec-15	20.3	6	6	74.5	0.30	0.3	5	1	7.96	110	110		
22-Dec-15	20.3	18	6	77.8	0.19	0.3	5	1	8.05	430	430		
23-Dec-15	20.6	5	6	99.9	0.24	0.3	5	1	7.79	23	23		
24-Dec-15	21.6	9	6	102	0.21	0.4	5	1	7.92	74	74		
25-Dec-15	19.5	5	6	97.3	0.23	0.4	5	0	7.77	93	93		
26-Dec-15	19.7	9	6	115	0.24	0.4	5	0	7.86	9	9		
27-Dec-15	20.1	10	6	129	0.26	0.4	6	0	7.70	23	23		
28-Dec-15	20.3	8	6	140	0.26	0.4	6	0	7.87	43	43		
29-Dec-15	19.8	28	6	151	0.28	0.4	6	0	7.65	23	23		
30-Dec-15	19.6	7	7	156	0.31	0.4	6	0	7.75	2,400	2,400		
31-Dec-15	20.4	8	6	155	0.31	0.4	7	0	7.67	43	43		
<b>Min:</b>	19.5												
<b>Average:</b>	<b>20.7</b>	<b>11</b>	<b>6</b>	<b>58</b>	<b>0.15</b>			<b>1</b>	<b>8.12</b>				
<b>Total Flow:</b>	<b>643.2</b>												
<b>Geo.Mean:</b>										<b>24</b>	<b>23</b>		

**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