

**City of Winnipeg  
Water and Waste Department  
West End Water Pollution Control Centre Monitoring Data  
November 2013**

Licence 2669 E RR	Raw Sewage	Final Effluent 24 Hour Composite						Final Effluent Grab Sample			
		TSS	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
1-Nov-13	19.3	26	15	13.7	0.02	0.5	3	3	8.60	43	43
2-Nov-13	20.1	21	15	17.7	0.02	0.5	3	3	8.70	23	23
3-Nov-13	20.6	23	16	19.6	0.02	0.5	3	3	8.60	23	23
4-Nov-13	19.6	22	15	22.7	<0.01	0.5	3	3	8.61	93	93
5-Nov-13	19.1	22	17	26.2	0.04	0.4	3	2	8.58	64	64
6-Nov-13	19.3	22	18	33.2	0.02	0.4	3	2	8.62	43	43
7-Nov-13	19.2	27	19	35.3	0.04	0.4	3	2	8.68	23	23
8-Nov-13	19.4	23	16	37.4	0.03	0.4	4	2	8.76	4	<3
9-Nov-13	20.1	23	18	39.7	0.02	0.4	4	1	8.71	23	23
10-Nov-13	19.7	21	17	43.0	0.02	0.4	4	1	8.68	20	20
11-Nov-13	20.5	22	nr	53.9	0.01	0.4	4	0	8.68	4	4
12-Nov-13	20.7	22	19	56.8	0.04	0.4	4	1	8.67	7	3
13-Nov-13	21.4	20	24	58.9	0.02	0.4	4	2	8.69	9	9
14-Nov-13	21.5	22	20	68.0	0.02	0.4	5	2	8.66	4	4
15-Nov-13	22.8	13	18	78.8	<0.01	0.4	5	2	8.67	20	11
16-Nov-13	22.9	31	18	79.9	<0.01	0.4	5	2	8.73	4	4
17-Nov-13	23.3	22	21	89.4	<0.01	0.4	5	2	8.64	9	9
18-Nov-13	22.4	20	20	90.0	0.02	0.4	5	2	8.66	9	9
19-Nov-13	21.1	20	24	100.4	0.02	0.4	5	2	8.65	15	7
20-Nov-13	20.9	26	17	95.2	<0.01	0.4	6	1	8.72	43	15
21-Nov-13	20.9	17	22	108.5	<0.01	0.4	6	1	8.59	9	4
22-Nov-13	20.5	25	nr	118.3	0.02	0.4	6	1	8.53	nr	nr
23-Nov-13	20.5	74	37	135.2	0.04	0.4	7	0	8.41	4	4
24-Nov-13	21.0	68	26	132.6	0.03	0.4	7	0	8.50	9	9
25-Nov-13	19.9	25	22	130.0	0.02	0.4	7	1	8.46	9	4
26-Nov-13	19.4	27	20	131.1	0.03	0.4	7	1	8.51	4	4
27-Nov-13	19.2	21	19	128.2	0.02	0.4	8	1	8.53	15	15
28-Nov-13	18.9	23	20	141.9	0.05	0.4	8	0	8.48	<3	<3
29-Nov-13	19.1	30	nr	145.0	0.04	0.4	8	1	8.53	<3	<3
30-Nov-13	19.9	21	17	154.5	0.05	0.4	8	0	8.45	4	4
<b>Max:</b>	23.3										
<b>Min:</b>	18.9										
<b>Average:</b>	<b>20.44</b>	<b>26</b>	<b>20</b>	<b>79</b>	<b>0.02</b>			<b>1</b>	<b>8.61</b>		
<b>Total Flow:</b>	<b>613.3</b>										
<b>Geo.Mean:</b>										<b>11</b>	<b>9</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