

**City of Winnipeg  
Water and Waste Department  
North End Water Pollution Control Centre Monitoring Data  
October 2012**

Licence 2684 RRR	Raw Sewage	Final Effluent 24 Hour Composite							Final Effluent Grab Sample			
		TSS	BOD5	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
1-Oct-12	147.5	5	21	6	4,721	4.45	4.5	39	20	6.82	43	43
2-Oct-12	152.3	9	25	5	5,286	4.21	4.5	39	20	6.98	93	93
3-Oct-12	153.4	9	20	5	5,506	4.42	4.5	39	20	6.90	93	23
4-Oct-12	351.7	55	42	25	6,752	2.26	4.5	39	20	6.72	[46000]	[46000]
5-Oct-12	231.8	nr	nr	nr	nr	nr	nr	nr	13	6.96	230	90
6-Oct-12	148.8	5	13	5	3,214	0.96	4.3	39	20	6.82	430	430
7-Oct-12	142.5	8	16	5	3,919	2.41	4.3	39	18	6.84	430	230
8-Oct-12	210.2	51	45	24	4,499	2.15	4.3	39	19	6.85	430	90
9-Oct-12	340.1	15	14	8	3,911	0.70	4.2	38	12	6.73	[430]	[430]
10-Oct-12	164.1	6	10	4	3,676	1.07	4.1	38	16	6.80	93	93
11-Oct-12	154.6	6	nr	nr	4,716	1.84	4.0	38	20	6.94	75	20
12-Oct-12	147.3	4	11	5	4,933	1.55	4.0	38	18	6.92	750	75
13-Oct-12	140.0	8	11	5	4,466	1.49	3.9	38	20	6.91	93	93
14-Oct-12	138.2	8	12	5	4,410	1.29	3.8	38	19	6.88	930	75
15-Oct-12	131.6	7	12	5	4,065	1.15	3.7	38	19	6.93	750	430
16-Oct-12	146.7	13	11	4	4,796	1.07	3.6	38	19	6.86	430	430
17-Oct-12	247.5	66	22	11	5,742	0.85	3.6	38	19	6.86	930	930
18-Oct-12	321.5	43	26	21	4,148	0.40	3.4	38	16	6.87	230	230
19-Oct-12	242.9	6	8	5	2,963	0.47	3.3	36	13	6.88	430	430
20-Oct-12	152.2	6	7	3	3,410	1.59	3.2	36	17	6.91	430	75
21-Oct-12	147.5	6	9	4	3,717	2.10	3.1	36	17	6.92	37	14
22-Oct-12	172.7	6	11	5	4,507	2.41	3.0	35	18	6.82	93	93
23-Oct-12	312.1	46	28	17	5,868	1.60	2.9	35	19	6.87	9	9
24-Oct-12	210.3	6	11	4	2,903	1.12	2.8	34	17	6.80	230	230
25-Oct-12	167.8	5	12	5	3,977	2.32	2.7	34	17	7.01	1,500	1,500
26-Oct-12	168.2	11	12	6	4,088	2.67	2.6	34	18	6.82	230	93
27-Oct-12	148.9	8	18	6	3,648	3.10	2.6	33	18	6.96	43	4
28-Oct-12	111.9	12	nr	nr	2,797	2.94	2.5	33	18	6.89	23	23
29-Oct-12	159.3	12	29	8	3,951	2.98	2.5	33	18	6.78	23	23
30-Oct-12	153.2	13	27	9	4,104	3.34	2.4	32	18	6.90	93	21
31-Oct-12	144.1	12	30	10	3,718	3.48	2.4	32	18	6.87	43	43
<b>Max:</b>	351.7											
<b>Min:</b>	111.9											
<b>Average:</b>	<b>185.8</b>	<b>16</b>	<b>18</b>	<b>8</b>	<b>4,280</b>	<b>2.08</b>			<b>18</b>	<b>6.87</b>		
<b>Total Flow:</b>	<b>5760.9</b>										<b>160</b>	<b>84</b>
<b>Geo.Mean:</b>												

**Notes:**

- (1) Effluent ammonia load based upon Raw Sewage flows and Final 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)\*\* Flow, highlighted in bold, in excess of 380 ML/D per clause 26 of Licence 2684RRR
- (6) Bracketed Coliform results not used in the Geometric Mean calculation
- (7) Raw wastewater flows in excess of 400 ML/D will by-pass the secondary process and flows in excess of 675 ML/D will cause raw sewage to by-pass the plant
- (8) Total Nitrogen results are calculated from TKN and nitrate values