

**City of Winnipeg  
Water and Waste Department  
North End Water Pollution Control Centre Monitoring Data  
May 2014**

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-May-14	231.8	9	13	9	4,126	2.03	1.9	22	11	6.95	23	23
2-May-14	222.4	14	13	9	4,069	2.10	1.9	22	11	6.93	43	43
3-May-14	233.4	15	13	9	4,015	1.85	2.0	22	11	6.90	43	23
4-May-14	188.6	10	15	10	3,772	2.17	2.0	22	11	6.93	230	230
5-May-14	195.2	9	16	11	4,001	2.26	2.0	22	11	6.81	9	9
6-May-14	194.9	19	13	11	4,229	2.50	2.0	22	12	6.91	23	23
7-May-14	247.6	25	23	17	5,125	2.41	2.1	22	12	6.92	43	43
8-May-14	214.5	14	14	12	3,753	1.75	2.1	22	11	6.90	43	23
9-May-14	209.5	9	12	10	4,274	2.19	2.1	23	12	6.97	93	93
10-May-14	186.5	14	17	11	4,104	2.56	2.2	23	12	6.90	230	93
11-May-14	178.9	11	nr	nr	4,060	2.67	2.2	23	12	7.02	430	430
12-May-14	230.6	17	25	16	4,958	2.76	2.3	24	12	6.96	75	43
13-May-14	227.3	10	17	12	3,386	1.95	2.3	24	12	6.93	750	750
14-May-14	192.2	8	16	12	3,881	2.58	2.3	24	12	6.91	230	93
15-May-14	179.0	3	17	12	3,937	2.72	2.3	24	12	6.89	43	43
16-May-14	183.7	11	18	12	3,930	2.60	2.4	24	12	6.79	23	9
17-May-14	171.9	13	17	13	3,679	2.56	2.4	24	13	6.95	43	43
18-May-14	162.0	12	17	12	3,320	2.73	2.4	24	12	6.81	43	15
19-May-14	312.6	59	42	32	5,251	2.19	2.4	25	12	6.93	93	43
20-May-14	297.7	15	17	11	3,513	1.22	2.4	25	12	6.90	23	23
21-May-14	201.8	14	13	10	3,471	2.16	2.5	25	12	6.94	43	43
22-May-14	186.9	12	14	9	4,017	2.70	2.5	25	13	7.12	93	93
23-May-14	183.3	13	15	8	3,941	2.85	2.5	25	14	6.88	43	43
24-May-14	284.4	54	34	24	4,351	1.79	2.6	25	14	6.99	43	7
25-May-14	<b>470.2</b>	45	27	20	3,851	0.84	2.6	26	16	6.92	(93)	(23)
26-May-14	304.8	21	21	10	3,596	1.32	2.6	25	14	6.97	2,100	15
27-May-14	221.3	16	22	9	4,514	2.04	2.6	26	14	6.99	230	43
28-May-14	200.8	14	33	8	4,899	2.56	2.7	26	14	6.93	23	9
29-May-14	199.0	14	24	9	5,832	3.00	2.7	27	15	6.92	43	43
30-May-14	192.2	14	29	11	5,670	3.24	2.7	27	15	6.98	75	75
31-May-14	180.8	13	33	10	4,449	2.90	2.8	27	14	6.92	120	75
<b>Max:</b>	470.2											
<b>Min:</b>	162.0											
<b>Average:</b>	<b>222.1</b>	<b>17</b>	<b>20</b>	<b>12</b>	<b>4,193</b>	<b>2.30</b>			<b>13</b>	<b>6.93</b>		
<b>Total Flow:</b>	<b>6885.3</b>											
<b>Geo.Mean:</b>											<b>72</b>	<b>42</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