

**City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
August 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-Aug-12	189.6	16	21	9	4,947	3.50	3.9	33	21	6.80	75	75
2-Aug-12	173.4	10	19	7	3,798	2.57	3.9	33	21	6.74	930	150
3-Aug-12	231.4	58	41	30	4,720	2.85	3.9	32	20	6.65	93	23
4-Aug-12	353.8	25	19	11	3,439	1.18	3.9	32	20	6.77	430	430
5-Aug-12	172.1	7	8	5	2,632	1.65	3.8	31	19	6.79	2,300	120
6-Aug-12	156.2	10	11	5	2,796	2.82	3.8	31	20	6.89	43	43
7-Aug-12	163.5	9	14	7	3,417	3.34	3.8	31	20	6.85	75	75
8-Aug-12	161.2	10	16	6	3,273	3.26	3.8	31	20	6.83	43	43
9-Aug-12	158.5	10	21	7	3,424	3.30	3.8	31	20	6.85	93	93
10-Aug-12	157.5	10	20	7	3,842	3.14	3.7	31	20	6.85	230	21
11-Aug-12	146.7	14	26	9	3,696	3.86	3.8	31	21	6.96	230	29
12-Aug-12	211.6	20	34	12	4,486	3.18	3.8	31	21	6.89	43	43
13-Aug-12	163.8	15	26	10	2,637	2.68	3.7	31	21	6.79	2,300	2,300
14-Aug-12	158.2	15	27	9	3,355	3.47	3.8	31	21	6.88	2,300	210
15-Aug-12	256.7	42	48	22	4,467	2.45	3.8	31	21	6.75	930	930
16-Aug-12	203.0	10	23	7	2,619	1.70	3.7	31	21	6.73	1,500	430
17-Aug-12	156.3	15	11	7	3,752	2.06	3.7	31	21	6.86	430	230
18-Aug-12	143.8	13	13	10	4,127	2.34	3.6	31	20	6.88	43	43
19-Aug-12	146.7	12	15	8	3,991	3.25	3.6	31	20	6.94	930	150
20-Aug-12	154.3	8	12	7	3,905	3.37	3.6	31	20	6.85	150	28
21-Aug-12	150.8	10	20	8	4,193	3.48	3.6	31	20	6.66	150	75
22-Aug-12	149.0	9	14	7	4,008	3.63	3.6	32	21	6.86	23	23
23-Aug-12	153.4	13	12	8	4,141	2.69	3.6	32	21	6.81	150	4
24-Aug-12	155.8	22	17	11	4,455	0.81	3.5	32	21	6.79	430	430
25-Aug-12	150.3	24	11	6	3,757	2.26	3.5	32	21	7.03	430	430
26-Aug-12	143.8	9	nr	nr	3,868	2.88	3.4	32	21	6.93	430	93
27-Aug-12	151.2	8	14	6	4,036	3.47	3.4	32	20	6.89	1500	43
28-Aug-12	156.3	8	14	6	4,236	3.67	3.4	32	21	6.84	430	93
29-Aug-12	158.5	9	20	8	4,360	3.74	3.4	32	21	6.80	430	28
30-Aug-12	156.9	9	21	9	4,315	3.46	3.4	32	21	6.84	93	23
31-Aug-12	154.4	13	20	7	4,492	3.39	3.4	32	21	6.78	23	23
Max:	353.8											
Min:	143.8											
Average:	172.2	15	20	9	3,845	2.89			20	6.83		
Total Flow:	5338.6											
Geo.Mean:											243	82

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