

**City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
June 2015**

Licence # 2684 RRR	File # 1071.10	Final Effluent 24 Hour Composite							Final Effluent Grab Sample					
		Date	Raw Sewage Daily Flow	TSS	BOD5	cBOD5	Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	Fecal Coliform	E.Coli
			ML**	(mg/L)	(mg/L)	(mg/L)	(kg NH3-N/day)	(mg/L-P)	(mg/L-P)*	(mg/L-N)*	(°C)	(units)	MPN/100 mL	
1-Jun-15	168.4	7	33	5	3,805	2.92	2.6	24	15	7.01	23	23		
2-Jun-15	169.3	8	13	5	4,402	3.14	2.6	24	15	6.96	43	15		
3-Jun-15	165.2	4	11	5	4,147	3.33	2.6	24	15	6.97	93	9		
4-Jun-15	164.4	8	16	4	4,406	3.35	2.6	24	16	6.95	150	93		
5-Jun-15	161.8	7	11	4	4,352	3.37	2.6	24	16	6.92	23	23		
6-Jun-15	347.3	59	47	25	6,008	2.12	2.7	24	15	7.01	230	230		
7-Jun-15	354.2	27	17	6	4,569	1.57	2.7	24	17	7.01	23	23		
8-Jun-15	249.7	8	7	<3	4,894	1.97	2.7	24	16	7.01	93	93		
9-Jun-15	224.1	8	9	3	5,244	2.60	2.7	24	16	7.20	23	23		
10-Jun-15	177.3	6	9	<3	4,556	2.73	2.7	24	16	6.98	140	93		
11-Jun-15	137.8	5	6	4	3,513	2.47	2.7	24	16	6.90	4	4		
12-Jun-15	133.3	7	10	4	3,492	3.22	2.7	23	17	6.93	23	9		
13-Jun-15	190.0	16	13	7	4,047	2.79	2.7	24	16	6.93	43	43		
14-Jun-15	183.2	6	10	4	2,986	2.11	2.7	24	16	7.01	150	75		
15-Jun-15	161.4	6	9	4	3,033	2.44	2.8	24	17	7.01	15	4		
16-Jun-15	147.8	7	9	4	3,901	3.28	2.8	25	16	7.01	43	43		
17-Jun-15	200.0	7	14	6	4,719	2.64	2.9	25	16	7.05	7	7		
18-Jun-15	169.5	6	14	4	3,407	2.06	2.9	26	17	6.99	930	930		
19-Jun-15	227.4	15	15	8	4,798	2.05	2.9	26	16	6.94	43	43		
20-Jun-15	160.1	7	9	4	3,010	2.06	3.0	26	17	6.90	230	93		
21-Jun-15	147.2	5	12	5	3,459	2.74	3.0	26	17	6.94	150	43		
22-Jun-15	298.1	34	33	18	4,770	2.05	3.0	27	16	6.85	(>110,000)	(>110,000)		
23-Jun-15	180.8	5	11	4	3,417	2.57	3.0	27	17	6.92	93	43		
24-Jun-15	312.6	16	17	10	5,220	2.11	3.0	27	17	6.82	(15,000)	(9,300)		
25-Jun-15	182.9	9	11	4	2,744	2.04	3.0	27	18	6.86	93	93		
26-Jun-15	162.9	10	10	5	3,876	2.87	3.0	27	18	6.90	230	230		
27-Jun-15	264.1	50	26	19	4,568	0.68	3.0	27	18	6.96	38	38		
28-Jun-15	281.6	10	10	7	3,295	1.08	3.0	26	18	6.86	230	230		
29-Jun-15	182.2	10	9	3	3,261	1.93	2.9	26	18	7.06	43	43		
30-Jun-15	143.9	14	37	4	2,676	2.34	2.9	26	18	7.00	43	15		
Max:	354.2													
Min:	133.3													
Average:	201.6	13	15	6	4,019	2.42			16	6.96				
Total Flow:	6048.1													
Geo.Mean:											60	40		

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