

City of Winnipeg
Water and Waste Department
North End Water Pollution Control Centre Monitoring Data
May 2016

Licence 2684 RRR	File # 1071.10	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-16	179.6	11	14	7	3,897	2.57	2.5	25.8	13.2	7.07	93	93
2-May-16	187.0	9	19	9	3,927	2.56	2.4	26.0	13.3	6.99	930	430
3-May-16	191.9	10	23	6	4,144	2.94	2.4	26.2	13.3	6.94	430	74
4-May-16	185.6	16	26	10	4,788	3.02	2.4	26.5	13.5	6.96	4,300	4,300
5-May-16	198.4	11	23	9	4,365	2.74	2.4	26.6	13.7	6.96	430	430
6-May-16	181.6	26	nr	11	5,012	3.06	2.4	27.1	14.3	6.94	nr	nr
7-May-16	172.6	15	17	10	4,764	3.11	2.4	27.7	14.3	6.82	nr	nr
8-May-16	171.3	13	15	10	4,197	2.73	2.4	27.9	15.5	6.98	930	930
9-May-16	171.4	18	14	9	3,960	2.75	2.4	28.0	14.1	7.07	93	93
10-May-16	253.8	29	24	16	5,583	2.61	2.4	28.0	14.7	7.05	930	930
11-May-16	197.9	8	10	7	3,622	1.70	2.4	27.8	14.2	6.88	150	93
12-May-16	173.5	9	9	7	4,216	2.40	2.4	27.8	14.6	7.04	93	93
13-May-16	166.5	13	10	7	4,512	2.83	2.4	27.8	14.5	7.03	290	290
14-May-16	157.1	11	11	7	4,130	2.63	2.4	28.0	14.3	6.90	240	240
15-May-16	155.8	12	12	7	4,035	2.91	2.4	28.5	14.6	6.94	93	93
16-May-16	162.4	12	10	7	4,174	2.86	2.5	29.2	14.5	6.99	240	93
17-May-16	161.1	18	11	8	4,623	3.26	2.5	30.0	14.9	7.05	430	240
18-May-16	159.3	11	12	8	4,764	2.67	2.6	30.7	15.1	6.90	430	430
19-May-16	157.4	11	16	6	4,377	2.24	2.6	31.0	15.8	6.96	240	93
20-May-16	156.4	14	20	9	4,567	2.48	2.7	31.5	15.5	6.93	240	240
21-May-16	145.9	11	27	8	3,924	2.53	2.7	32.1	15.8	6.89	43	43
22-May-16	137.4	62	44	25	2,926	1.77	2.7	32.3	15.7	7.08	23	15
23-May-16	387.7	11	21	7	3,722	0.59	2.7	32.0	19.0	6.88	(93)	(23)
24-May-16	181.3	9	11	6	3,246	1.51	2.7	32.1	15.4	7.00	2,400	2,400
25-May-16	266.9	65	38	25	4,163	1.94	2.7	32.1	15.5	6.98	43	43
26-May-16	508.2	20	25	12	4,112	0.70	2.6	31.7	15.3	7.07	(2,400)	(2,400)
27-May-16	305.3	15	15	8	4,060	1.29	2.6	31.5	15.2	7.11	93	93
28-May-16	235.7	14	10	6	3,960	1.83	2.6	31.5	15.5	7.01	74	74
29-May-16	220.3	10	13	6	4,582	2.26	2.6	31.6	15.3	7.12	43	23
30-May-16	203.1	11	18	6	3,859	1.94	2.6	32.6	15.6	7.04	23	23
31-May-16	450.0	39	40	20	4,410	0.92	2.6	32.0	14.8	6.96	(>110,000)	(>110,000)
Max:	508.2											
Min:	137.4											
Average:	212.3	18	19	10	4,214	2.30			15	6.99		
Total Flow:	6582.2											
Geo.Mean:											202	157

- 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