

**City of Winnipeg  
Water and Waste Department  
South End Water Pollution Control Centre Monitoring Data  
October 2015**

Licence # 2716RR	File # 1069.10	Final Effluent 24 Hour Composite										Final Effluent Grab Sample		
		TSS		BOD5		cBOD5		Ammonia	Ortho Phosphorus	Total Phosphorus	Total Nitrogen	Temp.	pH	E.Coli
		(mg/L)	(mg/L)*	(mg/L)	(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-Oct-15	51.7	10	9	nr	20	6	8	1,690	3.72	3.7	33	19	6.57	15,000
2-Oct-15	49.9	5	9	31	20	7	8	1,586	4.00	3.7	33	19	6.62	1,500
3-Oct-15	50.2	12	9	25	21	9	8	1,600	4.13	3.8	33	19	6.74	240
4-Oct-15	51.1	8	9	9	20	6	8	1,793	3.84	3.8	34	18	6.68	23
5-Oct-15	50.8	9	8	9	19	6	8	1,683	3.56	3.9	35	19	6.59	150
6-Oct-15	50.2	9	8	8	19	6	8	1,763	3.53	4.0	35	19	6.61	93
7-Oct-15	53.7	9	8	11	19	7	8	1,783	3.57	4.1	36	18	6.71	93
8-Oct-15	57.9	7	9	12	19	6	8	1,679	3.12	4.2	36	18	6.59	23
9-Oct-15	51.2	8	9	17	19	13	8	1,524	3.52	4.2	37	18	6.55	240
10-Oct-15	49.9	8	9	17	19	6	8	1,642	3.55	4.3	37	18	6.67	<3
11-Oct-15	49.5	8	9	18	19	5	8	1,643	3.69	4.3	38	18	6.63	150
12-Oct-15	78.4	28	9	35	20	16	8	1,920	2.93	4.3	38	18	6.57	93
13-Oct-15	56.7	8	10	10	19	5	8	1,537	1.86	4.2	38	18	6.65	150
14-Oct-15	53.7	5	10	15	19	4	8	1,687	2.93	4.2	38	18	6.65	15
15-Oct-15	51.9	6	10	19	19	5	8	1,734	3.49	4.2	38	18	6.68	43
16-Oct-15	51.0	6	10	14	19	4	8	1,790	3.97	4.2	38	18	6.70	9
17-Oct-15	51.2	10	10	16	19	5	8	1,814	4.13	4.3	39	18	6.56	23
18-Oct-15	52.4	8	10	18	19	16	8	1,798	3.94	4.3	39	18	6.59	14
19-Oct-15	50.5	5	9	17	19	4	8	1,752	3.79	4.3	39	18	6.64	15
20-Oct-15	49.7	10	9	19	19	5	8	1,834	4.57	4.3	39	18	6.67	93
21-Oct-15	50.5	6	9	20	19	5	8	1,768	3.30	4.3	39	18	6.70	43
22-Oct-15	49.9	9	9	19	19	5	7	1,751	3.72	4.3	39	18	6.62	21
23-Oct-15	62.9	7	9	>20	19	21	8	2,050	4.07	4.3	39	18	6.72	140
24-Oct-15	55.1	6	9	16	19	4	8	1,610	2.81	4.3	39	15	6.66	23
25-Oct-15	53.9	6	9	19	19	5	7	1,720	3.56	4.3	39	18	6.66	240
26-Oct-15	51.4	7	9	>20	19	5	7	1,646	3.56	4.3	39	18	6.70	150
27-Oct-15	51.1	4	9	>20	19	4	7	1,749	3.75	4.3	39	18	6.70	74
28-Oct-15	53.9	6	8	22	18	4	7	1,837	3.66	4.3	39	18	6.76	240
29-Oct-15	52.2	6	8	>20	18	4	7	1,687	3.68	4.1	38	18	6.75	240
30-Oct-15	51.6	6	8	>20	18	8	7	1,774	3.99	4.1	38	18	6.69	23
31-Oct-15	52.9	8	8	17	18	5	7	1,768	3.66	4.0	38	17	6.71	23
<b>Min:</b>	49.5													
<b>Average:</b>	<b>53.1</b>	<b>8</b>		<b>18</b>		<b>7</b>		<b>1,729</b>	<b>3.60</b>			<b>18</b>	<b>6.66</b>	
<b>Total Flow:</b>	<b>1647.1</b>													
<b>Geo.Mean:</b>														<b>70</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 98.6 ML/D per clause 27 of Licence 2716RR
- (6) Bracketed Coliform results not used in the Geometric Mean calculation
- (7) Raw wastewater flows in excess of 100 ML/D will by-pass the secondary process
- (8) Total Nitrogen results are calculated from TKN and nitrate values