

**City of Winnipeg  
Water and Waste Department  
South End Water Pollution Control Centre Monitoring Data  
February 2013**

Licence 2716RR	Raw Sewage	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-Feb-13	45.3	9	12	29	32	11	11	1,630	4.66	4.7	43	14	6.57	9
2-Feb-13	46.0	11	12	35	32	21	12	1,594	4.57	4.7	43	14	6.56	9
3-Feb-13	46.6	14	12	31	32	13	12	1,547	4.44	4.8	43	14	6.60	9
4-Feb-13	47.9	10	12	30	32	11	12	1,580	4.17	4.8	43	15	6.52	75
5-Feb-13	46.9	10	12	33	32	9	13	1,767	4.25	4.8	44	15	6.53	430
6-Feb-13	45.3	10	12	27	32	9	13	1,639	4.37	4.8	44	14	6.47	120
7-Feb-13	45.1	8	12	30	32	8	13	1,651	4.63	4.8	44	14	6.56	2,300
8-Feb-13	45.1	10	12	29	32	7	13	1,643	4.59	4.9	44	15	6.54	43
9-Feb-13	46.3	14	13	27	32	7	13	1,629	4.43	4.9	45	15	6.60	15
10-Feb-13	47.5	11	12	29	31	9	13	1,699	4.23	4.9	45	15	6.61	11
11-Feb-13	46.3	12	12	nr	31	nr	13	1,545	4.08	4.9	45	15	6.52	23
12-Feb-13	45.3	12	12	26	31	9	13	1,639	4.50	4.9	45	14	6.54	43
13-Feb-13	46.0	12	12	28	30	10	12	1,651	4.43	4.9	45	15	6.49	43
14-Feb-13	46.6	16	12	31	30	9	12	1,666	4.45	4.9	45	14	6.66	21
15-Feb-13	46.6	18	12	34	31	10	12	1,676	4.43	4.9	45	14	6.52	93
16-Feb-13	47.0	20	13	31	31	12	12	1,690	4.30	4.9	45	14	6.56	43
17-Feb-13	45.4	22	13	31	31	13	12	1,571	4.03	4.9	45	14	6.57	43
18-Feb-13	45.8	31	14	33	31	13	12	1,630	4.10	4.9	45	14	6.56	64
19-Feb-13	45.9	28	15	35	32	11	12	1,477	3.81	4.9	45	14	6.57	20
20-Feb-13	47.4	26	15	31	32	12	12	1,612	4.00	4.9	45	14	6.43	15
21-Feb-13	50.2	22	16	30	32	11	12	1,611	3.96	4.9	45	14	6.55	43
22-Feb-13	48.9	25	16	27	32	10	12	1,585	3.98	4.9	45	15	6.60	9
23-Feb-13	47.8	13	17	nr	32	nr	12	1,595	3.96	4.8	45	15	6.73	7
24-Feb-13	45.8	18	17	15	31	12	12	1,465	3.78	4.8	44	14	6.59	43
25-Feb-13	46.8	14	17	23	31	11	12	1,515	3.93	4.8	44	14	6.70	43
26-Feb-13	45.9	15	17	27	31	11	12	1,608	4.15	4.7	44	14	6.58	7
27-Feb-13	46.5	13	16	29	30	11	11	1,615	3.95	4.7	44	14	6.57	23
28-Feb-13	46.0	9	15	29	29	10	11	1,538	4.08	4.6	44	14	6.84	43
<b>Max:</b>	50.2													
<b>Min:</b>	45.1													
<b>Average:</b>	<b>46.5</b>	<b>15</b>		<b>29</b>		<b>11</b>		<b>1,610</b>	<b>4.22</b>			<b>14</b>	<b>6.58</b>	
<b>Total Flow:</b>														
<b>Geo.Mean:</b>														<b>33</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