



Water and Waste Department • Service des eaux et des déchets

August 7, 2014

Our File: 040-18-18-55-00

Melanie Betsill  
Office of Drinking Water  
Manitoba Conservation and Water Stewardship  
1007 Century Street  
Winnipeg, Manitoba R3H 0W4

Dear Ms. Betsill:

**RE: JULY 2014 WATER QUALITY COMPLIANCE  
SUBMISSION FOR THE CITY OF WINNIPEG WATER SUPPLY SYSTEM**

Please find attached on-line and grab turbidity summary reports, on-line and grab chlorine summary reports and the UV summary report for the Water Treatment Plant for July 2014.

The July on-line and grab sampling turbidity reports include results obtained for the Water Treatment Plant raw water and the eight filters. The turbidity results for the effluent from the filters are in compliance with the licence requirements.

The July on-line and grab sampling chlorine reports include results obtained for the Deacon Booster Pumping Station at the Water Treatment Plant. The free chlorine results at the Water Treatment Plant have met the licence requirements.

The UV submission includes the summary report for July 2014 in accordance with Section 4.13, Table 2 of the Operating Licence. The UV licence requirement has been met for July.

Please let me know of any concerns or questions respecting this submission. I may be reached by telephone at 204-986-4807 or by e-mail at [kkjartanson@winnipeg.ca](mailto:kkjartanson@winnipeg.ca).

Thanks for your ongoing cooperation and understanding in this matter.

Yours sincerely,

*Original signed by:*

K.J.T. Kjartanson, P.Eng.  
Manager of Environmental Standards  
KJTK:rg  
Attachments

c:(e-mail)

Dr. L. Richards, Winnipeg Regional Health Authority  
Dr. H. Chang, Winnipeg Regional Health Authority  
Dr. S. Roberecki, Manitoba Health      D.P. Sacher, P.Eng  
G. Patton, P.Eng.      T. Shanks, P.Eng.  
A. J. Weremy, P.Eng.      S. Fletcher

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CITY OF WINNIPEG  
 WATER AND WASTE DEPARTMENT  
 ENVIRONMENTAL STANDARDS DIVISION

**WATER TREATMENT PLANT TURBIDITY GRAB MONITORING REPORT**

Water System Code: 252.00	Turbidity (NTU)								
Licence No. PWS-09-412 A	Raw Water	Filter 1	Filter 2	Filter 3	Filter 4	Filter 5	Filter 6	Filter 7	Filter 8
Date	Raw Water	Filter 1	Filter 2	Filter 3	Filter 4	Filter 5	Filter 6	Filter 7	Filter 8
01-Jul-2014	1.26	0.07	0.08	0.07	0.06	<0.05	0.10	0.06	0.05
02-Jul-2014	0.98	0.11	0.06	0.07	0.07	0.08	0.06	0.06	0.07
03-Jul-2014	0.87	0.09	0.09	0.13	0.08	0.08	0.11	0.12	0.08
04-Jul-2014	0.80	0.13	0.12	0.16	0.10	0.10	0.10	0.09	0.09
05-Jul-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
06-Jul-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
07-Jul-2014	0.86	0.09	0.09	0.12	0.09	0.08	0.10	0.07	0.09
08-Jul-2014	0.75	0.13	0.14	0.10	0.11	0.10	0.10	0.09	0.10
09-Jul-2014	0.73	0.12	0.10	0.12	0.12	0.13	0.11	0.10	0.16
10-Jul-2014	0.85	0.14	0.13	0.16	0.21	0.11	0.14	0.13	0.12
11-Jul-2014	0.75	0.09	0.11	0.09	0.07	0.10	0.14	0.08	0.09
12-Jul-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
13-Jul-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
14-Jul-2014	0.94	0.07	0.06	0.06	0.09	0.05	0.06	0.07	0.14
15-Jul-2014	1.19	0.08	0.08	0.11	0.08	0.09	0.12	0.15	0.09
16-Jul-2014	1.02	0.12	0.10	0.15	0.10	0.09	0.08	0.09	0.10
17-Jul-2014	0.99	0.14	0.13	0.10	0.09	0.09	0.11	0.09	0.12
18-Jul-2014	0.89	0.09	0.09	0.12	0.14	0.07	0.09	0.10	0.09
19-Jul-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
20-Jul-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Jul-2014	0.91	0.10	0.10	0.09	0.08	0.06	0.06	0.06	0.07
22-Jul-2014	1.01	0.08	0.07	0.06	0.09	0.07	0.06	0.07	0.08
23-Jul-2014	1.01	0.07	0.06	0.09	0.10	0.07	0.08	0.10	0.09
24-Jul-2014	0.79	0.09	0.08	0.11	0.10	0.09	0.13	0.11	0.15
25-Jul-2014	0.99	0.12	0.10	0.10	0.14	0.08	0.08	0.08	0.07
26-Jul-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
27-Jul-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Jul-2014	1.15	0.07	0.09	0.12	0.08	0.07	0.05	0.07	0.07
29-Jul-2014	1.08	0.11	0.06	0.07	0.07	0.05	0.07	0.06	0.08
30-Jul-2014	1.06	0.07	0.07	0.07	0.09	0.06	0.07	0.06	0.07
31-Jul-2014	0.93	0.07	0.07	0.11	0.07	0.08	0.05	<0.05	0.06
<b>Total number of measurements taken, A:</b>	23	23	23	23	23	23	23	23	23
<b>Turbidity Standard for Monitoring Location (NTU):</b>	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
<b>Number of measurements meeting standard, B:</b>	23	23	23	23	23	23	23	23	23
<b>Compliance with Turbidity Standard, C= B/A X 100%:</b>	100%	100%	100%	100%	100%	100%	100%	100%	100%

NS: No Sample NA: Not Analyzed OL: Off-Line

Comments:

Report Compiled By: J. Jones

Approved in LIMS By: S. Fletcher/ A. Vanderstel

Date Approved: 6-Aug-14



**CITY OF WINNIPEG**  
 WATER AND WASTE DEPARTMENT  
 WATER SERVICES

Water System Code: **252.00**  
 Licence Number: **PWS-09-412 A**

**WATER TREATMENT PLANT TURBIDITY ON-LINE MONITORING REPORT**

July 2014 Turbidity (NTU)

Date	Raw	Filter #1		Filter #2		Filter #3		Filter #4		Filter #5		Filter #6		Filter #7		Filter #8	
	Avg	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max	Avg	Max
1/07/2014	1.05	0.01	0.01	0.03	0.09	0.02	0.28	0.02	0.04	0.03	0.08	0.04	0.11	0.01	0.04	0.01	0.01
2/07/2014	1.12	0.00	0.01	0.01	0.04	0.02	0.16	0.02	0.15	0.02	0.17	0.03	0.15	0.01	0.08	0.00	0.06
3/07/2014	1.12	0.01	0.01	0.05	0.10	0.04	0.12	0.03	0.12	0.03	0.06	0.05	0.13	0.02	0.08	0.00	0.07
4/07/2014	1.06	0.01	0.02	0.04	0.12	0.04	0.14	0.04	0.06	0.04	0.11	0.05	0.15	0.02	0.03	0.01	0.04
5/07/2014	1.04	0.01	0.02	0.04	0.11	0.03	0.06	0.04	0.13	0.03	0.11	0.06	0.09	0.03	0.10	0.00	0.06
6/07/2014	1.08	0.01	0.01	0.04	0.07	0.05	0.25	0.03	0.11	0.03	0.11	0.06	0.12	0.02	0.08	0.01	0.05
7/07/2014	1.09	0.01	0.02	0.04	0.11	0.03	0.12	0.03	0.10	0.04	0.06	0.05	0.14	0.02	0.08	0.00	0.01
8/07/2014	1.05	0.01	0.02	0.05	0.11	0.05	0.17	0.05	0.07	0.05	0.10	0.05	0.19	0.03	0.05	0.01	0.04
9/07/2014	1.01	0.01	0.04	0.05	0.16	0.05	0.08	0.05	0.13	0.05	0.11	0.07	0.12	0.05	0.12	0.01	0.07
10/07/2014	1.03	0.01	0.01	0.08	0.10	0.08	0.18	0.05	0.16	0.05	0.14	0.07	0.18	0.03	0.13	0.01	0.09
11/07/2014	1.10	0.01	0.03	0.05	0.16	0.04	0.16	0.03	0.10	0.04	0.11	0.04	0.17	0.01	0.04	0.01	0.02
12/07/2014	0.74	0.01	0.01	0.04	0.12	0.03	0.13	0.03	0.06	0.02	0.05	0.03	0.06	0.01	0.03	0.01	0.05
13/07/2014	0.96	0.01	0.01	0.04	0.13	0.03	0.12	0.04	0.07	0.03	0.11	0.04	0.06	0.01	0.06	0.00	0.04
14/07/2014	1.13	0.01	0.01	0.04	0.07	0.04	0.07	0.03	0.14	0.03	0.10	0.06	0.16	0.01	0.10	0.01	0.07
15/07/2014	1.14	0.01	0.01	0.06	0.13	0.05	0.15	0.04	0.13	0.03	0.06	0.05	0.15	0.02	0.10	0.01	0.07
16/07/2014	1.06	0.01	0.01	0.05	0.12	0.04	0.16	0.04	0.06	0.05	0.12	0.05	0.15	0.02	0.10	0.01	0.02
17/07/2014	0.88	0.01	0.01	0.05	0.15	0.04	0.17	0.05	0.12	0.02	0.05	0.05	0.08	0.02	0.05	0.01	0.07
18/07/2014	0.66	0.01	0.01	0.05	0.08	0.06	0.11	0.04	0.12	0.04	0.11	0.05	0.13	0.01	0.08	0.01	0.04
19/07/2014	0.77	0.01	0.01	0.05	0.13	0.04	0.13	0.03	0.11	0.03	0.09	0.04	0.13	0.01	0.07	0.01	0.04
20/07/2014	0.74	0.01	0.01	0.05	0.12	0.04	0.16	0.03	0.06	0.03	0.11	0.04	0.12	0.01	0.06	0.01	0.01
21/07/2014	0.82	0.01	0.09	0.04	0.12	0.04	0.13	0.04	0.10	0.03	0.09	0.04	0.11	0.01	0.02	0.01	0.04
22/07/2014	0.80	0.02	0.10	0.03	0.06	0.03	0.12	0.03	0.10	0.03	0.05	0.04	0.11	0.02	0.06	0.01	0.03
23/07/2014	0.79	0.02	0.10	0.00	0.01	0.05	0.08	0.03	0.09	0.04	0.10	0.03	0.10	0.02	0.09	0.00	0.01
24/07/2014	0.78	0.04	0.06	0.01	0.05	0.05	0.12	0.03	0.10	0.03	0.06	0.03	0.08	0.03	0.08	0.00	0.02
25/07/2014	1.16	0.02	0.10	0.01	0.14	0.04	0.15	0.04	0.07	0.02	0.09	0.02	0.08	0.02	0.05	0.00	0.01
26/07/2014	1.01	0.04	0.10	0.02	0.07	0.06	0.14	0.05	0.09	0.05	0.08	0.05	0.08	0.03	0.07	0.01	0.01
27/07/2014	1.14	0.03	0.09	0.02	0.04	0.08	0.11	0.04	0.09	0.05	0.09	0.04	0.08	0.03	0.07	0.01	0.01
28/07/2014	1.22	0.04	0.09	0.02	0.07	0.06	0.18	0.04	0.06	0.04	0.11	0.03	0.11	0.02	0.03	0.01	0.01
29/07/2014	1.21	0.02	0.11	0.02	0.10	0.06	0.18	0.04	0.13	0.03	0.06	0.03	0.05	0.03	0.09	0.00	0.02
30/07/2014	1.13	0.02	0.09	0.02	0.04	0.09	0.11	0.03	0.11	0.05	0.11	0.03	0.09	0.02	0.09	0.00	0.01
31/07/2014	1.13	0.03	0.06	0.04	0.10	0.06	0.30	0.03	0.05	0.03	0.10	0.02	0.08	0.01	0.08	0.01	0.01

Total Number of Measurements Taken, A:	13513	13683	13789	11830	14434	14458	13212	14200
Turbidity Standard for Monitoring Location (NTU):	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Number of Measurements Meeting Standard, B:	13513	13683	13789	11830	14434	14458	13212	14200
Compliance with Turbidity Standard, C = B/A X 100%:	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

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Submitted By (Print) M.Szmon for A.Weremy

Signature Original signed by M.Szmon



**WATER TREATMENT PLANT CHLORINE GRAB MONITORING REPORT**

Water System Code: 252.00	Deacon Booster Pumping Station Branch 1		Deacon Booster Pumping Station Branch 2	
Licence No. PWS-09-412 A	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Free Chlorine (mg/L)	Total Chlorine (mg/L)
Date				
01-Jul-2014	1.13	1.29	1.11	1.24
02-Jul-2014	1.18	1.36	1.17	1.37
03-Jul-2014	1.24	1.45	1.15	1.34
04-Jul-2014	1.27	1.42	1.12	1.35
05-Jul-2014	NS	NS	NS	NS
06-Jul-2014	NS	NS	NS	NS
07-Jul-2014	1.14	1.31	1.09	1.26
08-Jul-2014	1.17	1.28	1.05	1.24
09-Jul-2014	1.22	1.36	1.19	1.30
10-Jul-2014	1.30	1.42	1.20	1.36
11-Jul-2014	1.34	1.46	1.27	1.38
12-Jul-2014	NS	NS	NS	NS
13-Jul-2014	NS	NS	NS	NS
14-Jul-2014	1.51	1.66	1.49	1.61
15-Jul-2014	1.45	1.58	1.38	1.59
16-Jul-2014	1.33	1.46	1.34	1.53
17-Jul-2014	1.26	1.45	1.23	1.39
18-Jul-2014	1.30	1.40	1.29	1.42
19-Jul-2014	NS	NS	NS	NS
20-Jul-2014	NS	NS	NS	NS
21-Jul-2014	1.05	1.24	1.20	1.34
22-Jul-2014	1.19	1.32	1.18	1.35
23-Jul-2014	1.31	1.44	1.33	1.47
24-Jul-2014	1.27	1.40	1.26	1.40
25-Jul-2014	1.22	1.34	1.23	1.31
26-Jul-2014	NS	NS	NS	NS
27-Jul-2014	NS	NS	NS	NS
28-Jul-2014	1.38	1.47	1.35	1.48
29-Jul-2014	1.49	1.62	1.40	1.59
30-Jul-2014	1.34	1.49	1.29	1.49
31-Jul-2014	1.46	1.59	1.46	1.63
<b>Total number of measurements taken, A:</b>	23		23	
<b>Chlorine Standard for Monitoring Location (mg/L):</b>	0.50		0.50	
<b>Number of measurements meeting standard, B:</b>	23		23	
<b>Compliance with Chlorine Standard, C= B/A X 100%:</b>	100%		100%	

NS: No Sample NA: Not Analyzed OL: Off-Line

Comments:

Report Compiled By: J. Jones

Approved in LIMS By: S. Fletcher/ A. Vanderstel



WATER TREATMENT PLANT FREE CHLORINE ON-LINE MONITORING REPORT  
Deacon Booster Pumping Station

Water System Code: 252.00  
Licence Number: PWS-09-412 A  
Report Created: 01 August 2014

Report Period: July 2014

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/07/2014	1.07	0.97	1.14	1.02
02/07/2014	0.99	0.88	1.03	0.93
03/07/2014	1.17	0.96	1.11	0.99
04/07/2014	1.21	1.10	1.10	1.03
05/07/2014	1.15	1.00	1.03	0.87
06/07/2014	0.99	0.89	0.95	0.88
07/07/2014	1.04	0.96	1.03	0.97
08/07/2014	1.14	0.93	1.10	0.92
09/07/2014	1.20	1.09	1.16	1.05
10/07/2014	1.18	1.07	1.14	1.08
11/07/2014	1.20	1.14	1.19	1.07
12/07/2014	1.24	1.14	1.28	1.16
13/07/2014	1.32	1.25	1.30	1.17
14/07/2014	1.33	1.25	1.28	1.18
15/07/2014	1.34	1.24	1.30	1.18
16/07/2014	1.22	1.12	1.24	1.10
17/07/2014	1.22	1.13	1.27	1.10
18/07/2014	1.21	1.15	1.21	1.07
19/07/2014	1.16	1.10	1.13	1.04
20/07/2014	1.14	1.03	1.15	1.03
21/07/2014	1.17	1.08	1.20	1.06
22/07/2014	1.24	1.13	1.33	1.20
23/07/2014	1.27	1.17	1.32	1.20
24/07/2014	1.22	1.14	1.20	1.07
25/07/2014	1.14	0.85	1.07	0.73
26/07/2014	1.32	1.11	1.31	1.09
27/07/2014	1.33	1.22	1.25	1.13
28/07/2014	1.30	1.12	1.30	1.13
29/07/2014	1.44	1.32	1.36	1.21
30/07/2014	1.32	1.24	1.24	1.11
31/07/2014	1.40	1.30	1.43	1.27

Total Number of Measurements, A: 21489 21488  
Minimum Free Chlorine Standard: 0.50 0.50  
Number of Measurements Meeting Standard, B: 21489 21488

COMPLIANCE, C = B/A X 100%: 100 100

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Submitted By (Print): M.Szmon for A.Weremy

Signature: Original signed by M.Szmon



**CITY OF WINNIPEG**  
**WATER AND WASTE DEPARTMENT**  
**WATER SERVICES**

Water System Code: **252.00**  
 Licence Number: **PWS-09-412 A**

**WATER TREATMENT PLANT UV REPORT**

Report Period: **July 2014**

Report Created: **Friday, August 01, 2014**

Date	Transmittance %	UVR-D100A Water Volume [ML]				UVR-D200A Water Volume [ML]				UVR-D300A Water Volume [ML]				UVR-D400A Water Volume [ML]				UVR-D500A Water Volume [ML]				UVR-D600A Water Volume [ML]				Total Water Volume [ML]				% Volume Treated To Dose
		Untreated	Below	To	Total	Untreated	Below	To	Total	Untreated	Below	To	Total	Untreated	Below	To	Total	Untreated	Below	To	Total	Untreated	Below	To	Total	Untreated	Below	To	Total	
1/07/2014	96.64	0.00	0.00	84.99	84.99	0.00	0.00	0.00	0.00	0.00	0.00	18.64	18.64	0.00	0.00	46.16	46.16	0.00	0.00	0.00	0.00	0.00	0.00	85.01	85.01	0.00	0.00	234.79	234.79	100.00
2/07/2014	95.70	0.03	0.03	23.31	23.36	0.00	0.00	0.62	0.62	0.00	0.00	0.00	0.00	0.04	0.04	40.55	40.64	0.00	0.00	15.17	15.17	0.00	0.00	47.69	47.69	0.07	0.07	127.34	127.48	99.89
3/07/2014	96.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	83.80	83.80	0.00	0.00	60.46	60.46	0.00	0.06	84.95	85.01	0.00	0.06	229.21	229.27	99.97
4/07/2014	96.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	84.54	84.54	0.00	0.00	67.57	67.57	0.00	0.00	84.75	84.75	0.00	0.00	236.86	236.86	100.00
5/07/2014	96.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	84.66	84.66	0.00	0.00	70.57	70.57	0.00	0.00	85.29	85.29	0.00	0.00	240.52	240.52	100.00
6/07/2014	96.56	0.00	0.00	0.00	0.00	0.00	0.00	64.34	64.34	0.00	0.00	0.00	0.00	0.00	0.00	59.94	59.94	0.00	0.00	46.67	46.67	0.00	0.00	75.72	75.72	0.00	0.00	246.67	246.67	100.00
7/07/2014	96.62	0.09	0.09	23.05	23.23	0.00	0.00	83.59	83.59	0.00	0.00	0.00	0.00	0.06	0.06	31.35	31.46	0.00	0.00	38.42	38.42	0.00	0.00	71.49	71.49	0.15	0.15	247.89	248.19	99.88
8/07/2014	96.42	0.00	0.00	58.70	58.70	0.00	0.00	81.96	81.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.14	38.14	0.00	0.00	70.55	70.55	0.00	0.00	249.36	249.36	100.00
9/07/2014	96.41	0.00	0.00	36.09	36.09	0.00	0.00	84.37	84.37	0.00	0.00	22.61	22.61	0.00	0.00	0.00	0.00	0.00	0.00	39.05	39.05	0.00	0.00	72.64	72.64	0.00	0.00	254.76	254.76	100.00
10/07/2014	96.14	0.00	0.00	0.00	0.00	0.00	0.00	84.69	84.69	0.00	0.00	44.95	44.95	0.00	0.00	33.42	33.42	0.00	0.00	12.00	12.00	0.00	0.00	81.47	81.47	0.00	0.00	256.53	256.53	100.00
11/07/2014	96.57	0.00	0.00	0.00	0.00	0.00	0.00	85.01	85.01	0.00	0.00	39.73	39.73	0.00	0.00	48.24	48.24	0.00	0.00	0.00	0.00	0.00	0.00	85.01	85.01	0.00	0.00	257.99	257.99	100.00
12/07/2014	96.59	0.00	0.00	0.00	0.00	0.00	0.00	85.00	85.00	0.00	0.00	39.54	39.54	0.00	0.00	48.41	48.41	0.00	0.00	0.00	0.00	0.00	0.00	84.98	84.98	0.00	0.00	257.94	257.94	100.00
13/07/2014	96.40	0.00	0.00	0.00	0.00	0.00	0.00	85.02	85.02	0.00	0.00	32.90	32.90	0.00	0.00	40.75	40.75	0.00	0.00	0.00	0.00	0.00	0.00	84.99	84.99	0.00	0.00	243.67	243.67	100.00
14/07/2014	95.89	0.00	0.00	0.00	0.00	0.00	0.00	85.01	85.01	0.00	0.00	31.17	31.17	0.00	0.00	38.79	38.79	0.00	0.00	0.00	0.00	0.00	0.00	85.03	85.03	0.00	0.00	239.99	239.99	100.00
15/07/2014	96.32	0.00	0.00	0.00	0.00	0.00	0.00	85.00	85.00	0.00	0.00	31.32	31.32	0.00	0.00	38.68	38.68	0.00	0.00	0.00	0.00	0.00	0.00	84.97	84.97	0.00	0.00	239.97	239.97	100.00
16/07/2014	96.27	0.00	0.00	0.00	0.00	0.00	0.00	85.01	85.01	0.00	0.00	59.31	59.31	0.00	0.00	70.18	70.18	0.00	0.00	0.00	0.00	0.00	0.00	27.17	27.17	0.00	0.00	241.68	241.68	100.00
17/07/2014	96.21	0.00	0.00	34.61	34.61	0.00	0.00	77.99	77.99	0.00	0.00	36.29	36.29	0.00	0.00	37.36	37.36	0.00	0.00	15.79	15.79	0.00	0.00	44.13	44.13	0.00	0.00	246.17	246.17	100.00
18/07/2014	96.46	0.00	0.00	49.80	49.80	0.00	0.00	75.55	75.55	0.00	0.00	42.79	42.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.25	80.25	0.00	0.00	248.39	248.39	100.00
19/07/2014	96.53	0.00	0.00	49.44	49.44	0.00	0.00	74.14	74.14	0.00	0.00	41.96	41.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	79.41	79.41	0.00	0.00	244.96	244.96	100.00
20/07/2014	96.40	0.00	0.00	48.14	48.14	0.00	0.00	71.71	71.71	0.00	0.00	40.81	40.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78.36	78.36	0.00	0.00	239.02	239.02	100.00
21/07/2014	96.54	0.00	0.00	48.91	48.91	0.00	0.00	72.75	72.75	0.00	0.00	41.16	41.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78.83	78.83	0.00	0.00	241.64	241.64	100.00
22/07/2014	96.46	0.00	0.00	49.95	49.95	0.00	0.00	74.64	74.64	0.00	0.00	42.27	42.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.02	80.02	0.00	0.00	246.87	246.87	100.00
23/07/2014	96.39	0.00	0.00	50.24	50.24	0.00	0.00	75.19	75.19	0.00	0.00	42.96	42.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.49	80.49	0.00	0.00	248.89	248.89	100.00
24/07/2014	96.33	0.00	0.00	54.51	54.51	0.00	0.00	78.63	78.63	0.01	0.24	20.28	20.52	0.00	0.00	0.00	0.00	0.00	0.00	19.82	19.82	0.00	0.00	75.28	75.28	0.01	0.24	248.51	248.76	99.90
25/07/2014	95.96	0.00	0.00	42.08	42.08	0.00	0.00	63.25	63.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	29.61	29.66	0.00	0.00	52.27	52.27	0.00	0.04	187.21	187.25	99.98
26/07/2014	96.25	0.00	0.00	59.93	59.93	0.00	0.00	84.96	84.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.15	40.15	0.00	0.00	74.46	74.46	0.00	0.00	259.50	259.50	100.00
27/07/2014	96.48	0.00	0.00	51.04	51.04	0.00	0.00	81.78	81.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.15	41.15	0.00	0.00	71.77	71.77	0.00	0.00	245.74	245.74	100.00
28/07/2014	96.41	0.00	0.00	0.00	0.00	0.00	0.00	85.00	85.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	57.75	57.75	0.00	0.00	85.05	85.05	0.00	0.00	227.80	227.80	100.00
29/07/2014	96.40	0.00	0.00	0.00	0.00	0.00	0.00	84.76	84.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.98	54.98	0.00	0.00	85.26	85.26	0.00	0.00	224.99	224.99	100.00
30/07/2014	96.44	0.00	0.00	0.00	0.00	0.00	0.00	84.84	84.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.11	62.11	0.00	0.06	85.09	85.15	0.00	0.06	232.03	232.09	99.97
31/07/2014	96.56	0.00	0.00	0.00	0.00	0.00	0.00	85.01	85.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	66.31	66.31	0.00	0.51	83.12	83.63	0.00	0.51	234.44	234.95	99.78
		0.12	0.12	764.78	765.01	0.00	0.00	2079.83	2079.83	0.01	0.24	628.70	628.94	0.10	0.10	786.84	787.04	0.00	0.04	775.71	775.75	0.00	0.63	2345.47	2346.10	0.22	1.13	7381.33	7382.67	

Water Volume [%]:  
 Untreated: 0.00 %  
 Below Dose 0.02 %  
 To Dose 99.98 %

Submitted By (Print): M.Szmon for A.Weremy

Signature: Original signed by M.Szmon



Water and Waste Department • Service des eaux et des déchets

Wednesday, February 18, 2015

**Our Incident/Report No: 04-2014**

LIMS Reference No: **39689**

Ms. Melanie Betsill  
Drinking Water Officer  
Manitoba Water Stewardship, Office of Drinking Water  
1007 Century Street  
Winnipeg MB R3H 0W4

## **RE: CORRECTIVE ACTION REPORT**

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<b>WATER SYSTEM</b>	Winnipeg Public Water System
<b>WATER SYSTEM CODE</b>	252.00
<b>LOCATION OF NON-COMPLIANT INCIDENT</b>	<b>Winnipeg 4-Dist WC02</b>
<b>OPERATOR IN CHARGE</b>	NA
<b>INCIDENT REPORTED BY</b>	Gerry Levesque, acting Supervisor of Analytical Services Branch
<b>TYPE OF NON-COMPLIANT INCIDENT</b>	Low positive Total Coliform (<10 per100mL), 3 MR 41/2007
<b>INCIDENT DATE</b>	July 7, 2014
<b>DESCRIPTION OF CORRECTIVE ACTIONS</b>	AS SOON AS POSSIBLE: Re-sampled original location, also tested for turbidity, free/total chlorine, temperature and contacted the ODW.
<b>TEST RESULTS</b>	See Attached

**NOTES/COMMENTS:**

1. All microbiological tests performed by contract laboratory.
2. UP/DOWN STREAM testing performed when EC is >0 /100mL, TC is >10 /100mL or when resample/consecutive sample is positive for EC or TC or as directed by the Manager of Environmental Standards Division and/or the Office of Drinking Water
3. INITIAL chlorine, turbidity and temperature only tested at the required 39 sample locations.
4. NR-No Result due to laboratory/analyst error.
5. NA-Not Analyzed.

**EMERGENCY REPORTING IS REQUIRED WHERE A POTENTIAL HEALTH RISK IS INVOLVED. FOLLOW THE INSTRUCTIONS OF YOUR DRINKING WATER OFFICER ON SITUATIONS REQUIRING IMMEDIATE REPORTING**

**DISTRIBUTION**

FORWARD THE ORIGINAL TO THE DRINKING WATER OFFICER WITH THE MONTHLY COMPLIANCE SUBMISSIONS.

**Contact the Drinking Water Officer for any comments, questions or concerns**

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REFERENCE: ODW-RF-016

*Embrace the spirit • Vivez l'esprit*

Environmental Standards Division • Division des normes environnementales  
2230 Main Street • 2230, rue Main • Winnipeg • Manitoba R2V 4T8  
fax/téléc. (204) 339-2147 • www.winnipeg.ca

SampleName	Sample Number	Date Sampled	bacColiEsch-QT (MPNU/100mL)	bacColiTotal-QT (MPNU/100mL)	bacHPC (cfu/mL)	Chlorine, Free (mg/L)	Chlorine, Total (mg/L)	Temperature (°C)	Turbidity (ntu)	Time Spled (hrs)
WC02_ [REDACTED]	401469	07-Jul-14	<1	2	<10	0.83	1.03	14.0	0.18	10:30
WC02_ [REDACTED]	402049	09-Jul-14	<1	<1	<10	0.74	0.98	15.7	0.23	14:17