



Water and Waste Department • Service des eaux et des déchets

June 6, 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: MAY 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 May 2014. We have also included one corrective action report for a positive total coliform and E. coli result for the distribution system.

The May 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 May 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 May 2014 in accordance with Section 4.13, Table 2 of the Operating Licence. The UV licence requirement has been met for May.

On May 26, positive total coliform and E. coli results were reported for a sample [REDACTED]. On May 27 and 28, the location was resampled and samples were collected from up stream and downstream locations. All results were reported to be negative. Our sampling also indicated that the chlorine levels at the locations were normal and provided adequate disinfection.

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  
D.P. Sacher, P.Eng.  
A. J. Weremy, P.Eng.

G. Patton, P.Eng.  
S. Fletcher

Dr. S. Roberecki, Manitoba Health  
T. Shanks, P.Eng.

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**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-May-2014	1.02	1.14	0.98	1.15
02-May-2014	1.01	1.13	1.01	1.17
03-May-2014	NS	NS	NS	NS
04-May-2014	NS	NS	NS	NS
05-May-2014	1.03	1.17	1.10	1.19
06-May-2014	1.04	1.17	1.02	1.18
07-May-2014	1.01	1.15	1.04	1.18
08-May-2014	1.07	1.18	1.03	1.17
09-May-2014	1.04	1.15	1.01	1.10
10-May-2014	NS	NS	NS	NS
11-May-2014	NS	NS	NS	NS
12-May-2014	0.99	1.13	0.96	1.14
13-May-2014	0.97	1.05	0.96	1.15
14-May-2014	0.93	1.08	0.98	1.15
15-May-2014	0.87	1.01	0.91	1.10
16-May-2014	0.92	1.07	0.83	1.02
17-May-2014	NS	NS	NS	NS
18-May-2014	NS	NS	NS	NS
19-May-2014	0.94	1.05	0.95	1.05
20-May-2014	0.91	1.04	0.91	1.06
21-May-2014	1.01	1.14	0.99	1.17
22-May-2014	0.94	1.11	1.01	1.09
23-May-2014	0.95	1.13	0.91	1.07
24-May-2014	NS	NS	NS	NS
25-May-2014	NS	NS	NS	NS
26-May-2014	0.92	1.13	0.95	1.11
27-May-2014	1.00	1.11	0.92	1.10
28-May-2014	0.95	1.15	0.94	1.14
29-May-2014	1.07	1.28	1.02	1.19
30-May-2014	1.17	1.37	1.05	1.22
31-May-2014	NS	NS	NS	NS
<b>Total number of measurements taken, A:</b>	22		22	
<b>Chlorine Standard for Monitoring Location (mg/L):</b>	0.50		0.50	
<b>Number of measurements meeting standard, B:</b>	22		22	
<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: H.Demchenko

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 June 2014

Report Period: May 2014

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
1/05/2014	0.97	0.91	1.01	0.94
2/05/2014	0.93	0.85	0.96	0.90
3/05/2014	0.95	0.85	1.00	0.93
4/05/2014	0.96	0.87	1.00	0.89
5/05/2014	0.95	0.81	1.00	0.94
6/05/2014	0.91	0.78	1.03	0.75
7/05/2014	0.95	0.80	1.00	0.88
8/05/2014	1.01	0.80	1.01	0.82
9/05/2014	0.97	0.89	0.97	0.89
10/05/2014	0.97	0.89	0.98	0.90
11/05/2014	1.05	0.94	1.02	0.94
12/05/2014	1.00	0.92	0.99	0.93
13/05/2014	1.05	0.91	1.01	0.96
14/05/2014	0.99	0.84	0.96	0.80
15/05/2014	0.94	0.79	0.88	0.79
16/05/2014	0.92	0.74	0.88	0.79
17/05/2014	0.94	0.82	0.89	0.77
18/05/2014	0.93	0.82	0.89	0.84
19/05/2014	0.93	0.84	0.91	0.86
20/05/2014	0.95	0.88	0.93	0.84
21/05/2014	0.98	0.83	0.96	0.89
22/05/2014	0.99	0.87	0.93	0.87
23/05/2014	0.92	0.94	0.93	0.87
24/05/2014	1.03	0.90	0.94	0.81
25/05/2014	1.06	0.94	0.92	0.82
26/05/2014	1.09	0.99	0.92	0.83
27/05/2014	1.08	0.89	0.86	0.78
28/05/2014	0.97	0.63	1.03	0.79
29/05/2014	0.99	0.71	1.03	0.70
30/05/2014	1.33	0.67	1.09	0.79
31/05/2014	1.09	0.94	0.99	0.91

Total Number of Measurements, A:	21541	21544
Minimum Free Chlorine Standard:	0.50	0.50
Number of Measurements Meeting Standard, B:	21541	21544
COMPLIANCE, C = B/A X 100%:	100	100

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2014\05-May

Submitted By (Print): A.Weremy

Signature: Original signed by A.Weremy



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-May-2014	0.51	0.11	0.17	0.13	0.13	0.13	0.13	0.14	0.19
02-May-2014	0.46	0.08	0.07	0.13	0.11	0.15	0.07	0.09	0.09
03-May-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
04-May-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
05-May-2014	0.53	0.11	0.08	0.10	0.12	0.13	0.13	0.09	0.09
06-May-2014	1.02	0.09	0.07	0.14	0.11	0.06	0.07	0.09	0.07
07-May-2014	0.59	0.09	0.10	0.12	0.09	0.10	0.14	0.24	0.12
08-May-2014	0.56	0.11	0.17	0.15	0.13	0.24	0.22	0.20	0.12
09-May-2014	0.56	0.13	0.07	0.16	0.06	0.09	0.11	0.15	0.14
10-May-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
11-May-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
12-May-2014	0.62	0.11	0.10	0.11	0.06	0.10	0.07	0.08	0.09
13-May-2014	0.60	0.11	0.06	0.06	0.11	0.21	0.12	0.11	0.10
14-May-2014	0.64	0.07	0.06	0.12	0.10	0.09	0.09	0.11	0.10
15-May-2014	0.65	0.10	0.11	0.07	0.09	0.07	0.20	0.07	0.15
16-May-2014	0.63	0.11	0.09	0.09	0.10	0.11	0.15	0.08	0.09
17-May-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
18-May-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
19-May-2014	0.69	0.11	0.08	0.09	0.14	0.09	0.09	0.11	0.10
20-May-2014	0.65	0.07	0.07	0.11	0.11	0.07	0.07	0.11	0.08
21-May-2014	0.67	0.09	0.14	0.09	0.08	0.07	0.15	0.13	0.12
22-May-2014	0.74	0.08	0.05	0.06	0.06	0.07	0.08	0.05	0.06
23-May-2014	0.66	0.08	0.07	0.09	0.06	0.10	0.06	0.07	0.08
24-May-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
25-May-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
26-May-2014	0.78	0.15	0.07	0.08	0.08	0.07	0.08	0.09	0.09
27-May-2014	0.79	0.05	0.06	0.09	0.06	0.06	0.09	0.05	0.05
28-May-2014	0.84	0.07	0.07	0.07	0.06	0.07	<0.05	0.08	0.05
29-May-2014	0.78	0.06	0.07	0.07	0.07	<0.05	0.06	0.09	0.09
30-May-2014	0.94	0.08	0.05	0.06	0.07	0.06	0.10	0.07	0.07
31-May-2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
<b>Total number of measurements taken, A:</b>	22	22	22	22	22	22	22	22	22
<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>	22	22	22	22	22	22	22	22	22
<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: H.Demchenko

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

Date Approved: 06-Jun-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**

May 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
1/05/2014	0.63	0.04	0.11	0.00	0.05	0.01	0.02	0.03	0.08	0.03	0.09	0.03	0.10	0.02	0.04	0.00	0.14
2/05/2014	0.63	0.04	0.11	0.00	0.01	0.01	0.05	0.02	0.08	0.03	0.08	0.03	0.09	0.03	0.08	0.01	0.07
3/05/2014	0.65	0.05	0.07	0.00	0.05	0.01	0.05	0.02	0.08	0.02	0.08	0.04	0.08	0.02	0.07	0.01	0.12
4/05/2014	0.66	0.05	0.11	0.00	0.04	0.00	0.05	0.02	0.04	0.04	0.08	0.03	0.09	0.02	0.07	0.01	0.06
5/05/2014	0.67	0.05	0.12	0.01	0.06	0.01	0.05	0.03	0.09	0.03	0.09	0.04	0.11	0.03	0.05	0.00	0.01
6/05/2014	0.74	0.04	0.07	0.01	0.03	0.01	0.09	0.02	0.09	0.02	0.11	0.04	0.06	0.03	0.11	0.01	0.17
7/05/2014	0.70	0.05	0.11	0.00	0.05	0.00	0.01	0.02	0.04	0.04	0.06	0.05	0.13	0.03	0.11	0.01	0.15
8/05/2014	0.71	0.04	0.10	0.00	0.08	0.01	0.04	0.02	0.05	0.04	0.11	0.04	0.15	0.05	0.07	0.01	0.03
9/05/2014	0.71	0.05	0.08	0.01	0.06	0.01	0.12	0.02	0.08	0.03	0.13	0.06	0.09	0.04	0.16	0.02	0.18
10/05/2014	0.70	0.06	0.14	0.01	0.09	0.01	0.01	0.04	0.06	0.07	0.13	0.05	0.15	0.03	0.15	0.01	0.18
11/05/2014	0.71	0.04	0.12	0.01	0.02	0.01	0.07	0.03	0.09	0.03	0.12	0.02	0.12	0.02	0.04	0.01	0.01
12/05/2014	0.77	0.06	0.08	0.02	0.08	0.01	0.06	0.01	0.03	0.03	0.06	0.05	0.06	0.02	0.09	0.01	0.19
13/05/2014	0.81	0.06	0.14	0.01	0.06	0.01	0.02	0.03	0.10	0.05	0.17	0.05	0.18	0.02	0.05	0.01	0.16
14/05/2014	0.84	0.03	0.12	0.02	0.03	0.00	0.03	0.02	0.07	0.06	0.15	0.04	0.06	0.04	0.13	0.01	0.05
15/05/2014	0.84	0.07	0.10	0.02	0.08	0.01	0.09	0.02	0.03	0.05	0.08	0.06	0.18	0.03	0.15	0.01	0.15
16/05/2014	0.83	0.04	0.13	0.02	0.07	0.01	0.03	0.03	0.09	0.05	0.14	0.04	0.13	0.03	0.05	0.00	0.01
17/05/2014	0.81	0.04	0.11	0.01	0.03	0.01	0.07	0.02	0.08	0.03	0.12	0.04	0.06	0.03	0.16	0.01	0.13
18/05/2014	0.79	0.06	0.08	0.02	0.07	0.01	0.09	0.02	0.03	0.05	0.07	0.06	0.14	0.02	0.18	0.01	0.16
19/05/2014	0.82	0.04	0.13	0.01	0.08	0.01	0.03	0.03	0.07	0.04	0.17	0.04	0.17	0.03	0.05	0.00	0.01
20/05/2014	0.83	0.04	0.06	0.02	0.04	0.01	0.07	0.02	0.08	0.03	0.14	0.05	0.07	0.03	0.17	0.01	0.15
21/05/2014	0.83	0.06	0.11	0.02	0.06	0.00	0.01	0.01	0.02	0.05	0.07	0.05	0.13	0.02	0.15	0.01	0.11
22/05/2014	0.87	0.03	0.10	0.00	0.02	0.01	0.07	0.01	0.08	0.03	0.11	0.03	0.13	0.01	0.05	0.01	0.01
23/05/2014	0.88	0.04	0.05	0.01	0.05	0.00	0.04	0.01	0.04	0.03	0.10	0.04	0.05	0.01	0.12	0.01	0.11
24/05/2014	0.91	0.04	0.09	0.01	0.05	0.01	0.01	0.02	0.02	0.04	0.05	0.04	0.08	0.01	0.06	0.01	0.03
25/05/2014	0.92	0.04	0.08	0.01	0.05	0.01	0.02	0.01	0.04	0.03	0.07	0.03	0.08	0.02	0.05	0.01	0.01
26/05/2014	0.91	0.04	0.05	0.02	0.04	0.01	0.01	0.01	0.03	0.03	0.08	0.04	0.05	0.03	0.11	0.01	0.04
27/05/2014	1.01	0.05	0.07	0.02	0.04	0.01	0.01	0.02	0.02	0.04	0.05	0.03	0.08	0.02	0.08	0.01	0.02
28/05/2014	1.02	0.04	0.07	0.02	0.04	0.01	0.01	0.01	0.03	0.04	0.07	0.04	0.07	0.03	0.06	0.01	0.01
29/05/2014	1.11	0.04	0.12	0.02	0.12	0.01	0.01	0.01	0.05	0.03	0.13	0.04	0.15	0.01	0.13	0.00	0.07
30/05/2014	1.14	0.04	0.07	0.03	0.06	0.01	0.01	0.02	0.02	0.04	0.07	0.04	0.07	0.01	0.03	0.01	0.02
31/05/2014	1.12	0.04	0.07	0.03	0.05	0.01	0.01	0.01	0.02	0.04	0.06	0.04	0.07	0.01	0.02	0.01	0.01

Total Number of Measurements Taken, A:	14354	13747	14244	11038	15011	14951	13557	14746
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:	14354	13747	14244	11038	15011	14951	13557	14746
Compliance with Turbidity Standard, C = B/A X 100%:	100%	100%	100%	100%	100%	100%	100%	100%

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Turbidity\2014\05-May

Submitted By (Print) A.Weremy

Signature Original signed by A.Weremy



**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: **May 2014**

Report Created: **Sunday, June 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		
1/05/2014	96.51	0.00	0.00	82.26	82.26	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	51.78	51.78	0.00	0.00	81.96	81.96	0.00	0.00	0.00	0.00	0.01	0.01	215.99	216.01	99.99	
2/05/2014	96.69	0.00	0.00	82.41	82.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.66	51.66	0.00	0.00	81.94	81.94	0.00	0.00	0.00	0.00	0.00	0.00	216.01	216.01	100.00	
3/05/2014	96.88	0.00	0.00	81.20	81.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.67	50.67	0.00	0.00	80.24	80.24	0.00	0.00	0.00	0.00	0.00	0.00	212.11	212.11	100.00	
4/05/2014	96.92	0.00	0.00	80.33	80.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.26	50.26	0.00	0.00	79.41	79.41	0.00	0.00	0.00	0.00	0.00	0.00	210.00	210.00	100.00	
5/05/2014	96.78	0.00	0.06	83.82	83.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.16	8.86	9.09	0.00	0.00	50.17	50.17	0.00	0.00	66.78	66.78	0.07	0.22	209.63	209.91	99.87
6/05/2014	96.72	0.00	0.12	84.87	84.99	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	42.57	42.57	0.00	0.00	78.92	78.92	0.00	0.12	206.36	206.48	99.94	
7/05/2014	96.53	0.00	1.00	65.14	66.14	0.00	0.00	18.84	18.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.33	41.33	0.00	0.00	76.51	76.51	0.00	1.00	201.82	202.82	99.51	
8/05/2014	96.44	0.00	0.00	0.00	0.00	0.00	0.00	85.05	85.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.82	37.82	0.00	0.00	69.60	69.60	0.00	0.00	192.46	192.46	100.00	
9/05/2014	96.64	0.00	0.00	0.16	0.16	0.00	0.00	70.64	70.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.08	40.08	0.00	0.00	74.02	74.02	0.00	0.00	184.89	184.89	100.00	
10/05/2014	95.91	0.00	0.00	0.00	0.00	0.00	0.00	63.73	63.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.61	43.61	0.00	0.00	81.23	81.23	0.00	0.00	188.56	188.56	100.00	
11/05/2014	95.96	0.00	0.00	0.00	0.00	0.00	0.00	87.16	87.16	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.05	0.00	40.71	40.71	0.00	0.00	75.30	75.30	0.00	0.05	203.17	203.22	99.97	
12/05/2014	96.06	0.00	0.00	46.31	46.31	0.00	0.00	38.78	38.78	0.00	0.00	0.00	0.00	0.00	0.00	19.77	19.77	0.00	0.00	57.45	57.45	0.00	0.00	45.91	45.91	0.00	0.00	208.22	208.22	100.00	
13/05/2014	96.29	0.00	0.00	32.32	32.32	0.00	0.00	49.00	49.00	0.00	0.00	0.00	0.00	0.00	0.00	45.67	45.67	0.00	0.00	77.08	77.08	0.00	0.00	0.00	0.00	0.00	0.00	204.08	204.08	100.00	
14/05/2014	96.15	0.00	0.03	42.86	42.89	0.00	0.00	30.43	30.43	0.00	0.00	0.00	0.00	0.00	0.00	40.60	40.60	0.00	0.00	69.14	69.14	0.00	0.00	26.66	26.66	0.00	0.03	209.69	209.72	99.98	
15/05/2014	96.03	0.00	0.00	48.49	48.49	0.00	0.00	34.40	34.40	0.00	0.00	0.00	0.00	0.00	0.00	46.90	46.90	0.00	0.00	45.12	45.12	0.00	0.00	34.15	34.15	0.00	0.00	209.06	209.06	100.00	
16/05/2014	92.48	0.00	0.00	0.00	0.00	0.00	0.00	81.33	81.33	0.00	0.00	0.00	0.00	0.00	0.00	44.16	44.16	0.00	0.00	0.00	0.00	0.00	0.00	74.94	74.94	0.00	0.00	200.43	200.43	100.00	
17/05/2014	95.67	0.00	0.00	0.00	0.00	0.00	0.00	83.80	83.80	0.00	0.00	0.00	0.00	0.00	0.00	45.37	45.37	0.00	0.00	0.00	0.00	0.00	0.00	76.82	76.82	0.00	0.00	205.98	205.98	100.00	
18/05/2014	95.76	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	46.54	46.54	0.00	0.00	0.00	0.00	0.00	0.00	78.45	78.45	0.00	0.00	209.99	209.99	100.00	
19/05/2014	95.76	0.00	0.00	0.00	0.00	0.00	0.00	84.98	84.98	0.00	0.00	0.00	0.00	0.00	0.00	46.20	46.20	0.00	0.00	0.00	0.00	0.00	0.00	78.79	78.79	0.00	0.00	209.97	209.97	100.00	
20/05/2014	95.94	0.00	0.00	0.00	0.00	0.00	0.00	84.99	84.99	0.00	0.00	0.00	0.00	0.00	0.00	52.62	52.62	0.00	0.00	0.00	0.00	0.00	0.00	72.29	72.29	0.00	0.00	209.90	209.90	100.00	
21/05/2014	95.87	0.00	0.00	0.00	0.00	0.00	0.00	85.10	85.10	0.00	0.00	0.00	0.00	0.00	0.00	58.16	58.16	0.00	0.00	0.00	0.00	0.00	0.05	66.66	66.71	0.00	0.05	209.93	209.97	99.98	
22/05/2014	95.74	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	58.40	58.40	0.00	0.00	0.00	0.00	0.00	0.00	66.60	66.60	0.00	0.00	210.00	210.00	100.00	
23/05/2014	95.74	0.00	0.00	0.00	0.00	0.00	0.00	84.96	84.96	0.00	0.00	0.00	0.00	0.00	0.00	60.11	60.11	0.00	0.00	0.00	0.00	0.00	0.00	69.43	69.43	0.00	0.00	214.50	214.50	100.00	
24/05/2014	95.72	0.00	0.52	32.28	32.80	0.00	0.00	21.21	21.21	0.00	0.00	0.00	0.00	0.00	0.57	51.41	51.99	0.00	0.00	42.38	42.38	0.00	0.00	70.89	70.89	0.00	1.10	218.18	219.28	99.50	
25/05/2014	95.52	0.00	0.25	61.89	62.14	0.00	0.00	82.00	82.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.32	8.32	0.00	0.00	75.36	75.36	0.00	0.25	227.55	227.81	99.89	
26/05/2014	95.55	0.00	0.11	54.24	54.36	0.00	0.05	72.20	72.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.35	43.35	0.00	0.00	55.04	55.04	0.00	0.16	224.83	225.00	99.93	
27/05/2014	95.54	0.00	0.00	54.33	54.33	0.00	0.00	72.22	72.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.77	43.77	0.00	0.00	54.65	54.65	0.00	0.00	224.98	224.98	100.00	
28/05/2014	94.68	0.00	0.00	36.54	36.54	0.00	0.00	72.74	72.74	0.00	0.00	0.00	0.00	0.61	0.61	21.53	22.76	0.00	0.00	42.21	42.21	0.00	0.00	51.35	51.35	0.61	0.61	224.37	225.60	99.46	
29/05/2014	94.92	0.00	0.00	0.00	0.00	0.00	0.00	46.01	46.01	0.00	0.10	12.20	12.31	0.00	0.00	40.60	40.60	0.02	0.02	24.84	24.88	0.00	0.00	30.57	30.57	0.02	0.12	154.22	154.37	99.91	
30/05/2014	94.53	0.00	0.00	47.22	47.22	0.06	0.26	41.29	41.60	0.00	0.00	27.62	27.62	0.00	0.00	44.63	44.63	0.00	0.00	39.00	39.00	0.00	0.00	51.96	51.96	0.06	0.26	251.72	252.04	99.87	
31/05/2014	95.02	0.00	0.09	48.18	48.26	0.00	0.00	76.42	76.42	0.00	0.00	18.48	18.48	0.00	0.00	8.32	8.32	0.00	0.00	46.28	46.28	0.00	0.00	64.25	64.25	0.00	0.09	261.93	262.02	99.97	
		0.00	2.19	1064.84	1067.03	0.06	0.32	1637.28	1637.66	0.00	0.10	58.30	58.40	0.68	1.40	944.22	946.30	0.02	0.02	1158.78	1158.82	0.00	0.05	1667.14	1667.18	0.77	4.07	6530.56	6535.40		

Water Volume [%]:  
 Untreated: 0.01 %  
 Below Dose 0.06 %  
 To Dose 99.93 %

Submitted By (Print): A.Weremy

Signature: Original signed by A.Weremy



Water and Waste Department • Service des eaux et des déchets

Thursday, June 5, 2014

**Our Incident/Report No: 01-2014**

LIMS Reference No: **39295**

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 3-Dist SW12</b>
<b>OPERATOR IN CHARGE</b>	NA
<b>INCIDENT REPORTED BY</b>	Steve Fletcher, Supervisor of Analytical Services Branch
<b>TYPE OF NON-COMPLIANT INCIDENT</b>	1. Treated (or distribution system) water sample contains E. coliform >0 per100mL, 3 MR 41/2007 2. High positive Total Coliform (>10 per100mL), 3 MR 41/2007
<b>INCIDENT DATE</b>	May 26, 2014
<b>DESCRIPTION OF CORRECTIVE ACTIONS</b>	IMMEDIATELY: Re-sampled original locations tested additional samples upstream/downstream of original locations 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/télé. (204) 339-2147 • www.winnipeg.ca

Sample Name	Sample Number	Date Sampled	TimeSpeld (hrs)	E. Coli-QT (MPNU/100 mL)	Total Coliform-QT (MPNU/100 mL)	HPC (cfu/mL)	Chlorine, Free (mg/L)	Chlorine, Total (mg/L)	Temperature (°C)	Turbidity (ntu)
SW12	397282	26-May-14	12:04	11	>200	1390	0.94	1.17	6.8	0.10
SW12	397772	27-May-14	14:12	<1	<1	<10	0.96	1.13	9.7	0.10
SW12	397773	27-May-14	14:25	<1	<1	<10	0.87	1.07	10.5	0.11
SW12	397774	27-May-14	14:01	<1	<1	10	0.80	1.04	11.5	0.11
SW12	397799	28-May-14	15:13	<1	<1	<10	0.91	1.12	10.2	0.17
SW12	397800	28-May-14	15:01	<1	<1	10	0.84	1.03	10.5	0.18
SW12	397801	28-May-14	15:27	<1	<1	10	0.94	1.14	11.9	0.15