



Water and Waste Department • Service des eaux et des déchets

July 7, 2015

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: JUNE 2015 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 June 2015. We have also included two corrective action reports for positive total coliforms in the distribution system.

The June on-line and grab sampling turbidity reports include results obtained for the Water Treatment Plant raw water and the eight filters. There are no on-line turbidity results for raw water from June 1 – 3 and June 12 - 16 because the meter was not working properly due to maintenance issues. The meter has been cleaned and serviced and the issue appears to be resolved. The turbidity results for the effluent from the filters are in compliance with the licence requirements.

The June 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 met the licence requirements.

On June 1, positive total coliform results were reported for routine samples at the NW03 and NW05 locations. On June 2, the locations and locations upstream and downstream of NW05 were resampled and the results were reported to be negative. Our resampling indicated that the chlorine levels at the locations were normal and provided adequate disinfection. Please see the attached corrective action report for additional details; a complete summary of follow-up activities will be provided to the Office of Drinking Water in a separate submission. On June 10, a positive total coliform result was reported for a routine sample at the SE03 location. On June 11, the location was resampled and results were reported to be negative. Our resampling indicated that the chlorine levels at the location were normal and provided adequate disinfection. Please see the attached corrective action report for additional details.

The UV submission includes the summary report for June 2015 in accordance with Section 4.13, Table 2 of the Operating Licence. The UV licence requirement has been met June.

Please let me know of any concerns or questions respecting this submission. I may be reached by telephone at 204-986-8359 or by e-mail at rgrosselle@winnipeg.ca.

Thank you for your ongoing cooperation and understanding in this matter.

Yours sincerely,

Original signed by:

R. Grosselle
Manager of Environmental Standards
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.
C. Diduck

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CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES

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

WATER TREATMENT PLANT TURBIDITY ON-LINE MONITORING REPORT

June 2015 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
1/06/2015	NR	0.06	0.16	0.07	0.11	0.07	0.12	0.02	0.05	0.05	0.10	0.05	0.08	0.02	0.05	0.01	0.02
2/06/2015	NR	0.06	0.09	0.08	0.09	0.07	0.17	0.03	0.09	0.07	0.08	0.05	0.09	0.03	0.05	0.01	0.04
3/06/2015	NR	0.06	0.09	0.08	0.14	0.09	0.11	0.03	0.09	0.06	0.12	0.05	0.07	0.03	0.08	0.01	0.03
4/06/2015	1.37	0.05	0.07	0.06	0.10	0.05	0.12	0.02	0.03	0.04	0.09	0.04	0.09	0.02	0.04	0.01	0.02
5/06/2015	1.36	0.04	0.07	0.05	0.10	0.04	0.10	0.01	0.04	0.05	0.08	0.03	0.08	0.02	0.04	0.01	0.03
6/06/2015	1.34	0.04	0.07	0.07	0.09	0.04	0.09	0.01	0.05	0.05	0.10	0.03	0.09	0.01	0.05	0.01	0.01
7/06/2015	1.39	0.04	0.08	0.07	0.10	0.05	0.08	0.01	0.04	0.05	0.09	0.03	0.05	0.02	0.05	0.00	0.03
8/06/2015	1.43	0.05	0.07	0.06	0.11	0.06	0.12	0.01	0.05	0.05	0.11	0.05	0.09	0.02	0.06	0.01	0.03
9/06/2015	1.38	0.05	0.08	0.06	0.11	0.05	0.10	0.02	0.03	0.05	0.10	0.03	0.08	0.02	0.03	0.00	0.02
10/06/2015	1.24	0.04	0.08	0.05	0.12	0.05	0.10	0.01	0.04	0.05	0.08	0.03	0.07	0.02	0.05	0.01	0.01
11/06/2015	1.34	0.04	0.08	0.08	0.10	0.05	0.10	0.01	0.09	0.07	0.11	0.03	0.06	0.02	0.05	0.01	0.03
12/06/2015	NR	0.05	0.07	0.04	0.11	0.07	0.11	0.01	0.06	0.05	0.11	0.05	0.06	0.02	0.07	0.01	0.04
13/06/2015	NR	0.06	0.10	0.04	0.08	0.06	0.13	0.03	0.06	0.06	0.12	0.04	0.09	0.02	0.04	0.01	0.04
14/06/2015	NR	0.05	0.12	0.04	0.08	0.06	0.13	0.02	0.05	0.06	0.09	0.04	0.08	0.03	0.05	0.01	0.02
15/06/2015	NR	0.05	0.09	0.05	0.07	0.06	0.10	0.02	0.06	0.08	0.12	0.04	0.08	0.02	0.06	0.01	0.03
16/06/2015	NR	0.06	0.08	0.04	0.08	0.08	0.12	0.02	0.08	0.06	0.13	0.05	0.06	0.02	0.06	0.01	0.04
17/06/2015	1.00	0.06	0.09	0.04	0.07	0.06	0.12	0.03	0.06	0.07	0.14	0.04	0.08	0.04	0.07	0.02	0.04
18/06/2015	1.08	0.06	0.12	0.03	0.06	0.06	0.15	0.04	0.08	0.08	0.16	0.03	0.07	0.06	0.09	0.04	0.08
19/06/2015	0.91	0.06	0.08	0.03	0.10	0.08	0.11	0.04	0.07	0.05	0.08	0.04	0.06	0.06	0.09	0.03	0.06
20/06/2015	0.98	0.07	0.10	0.03	0.06	0.06	0.12	0.05	0.07	0.05	0.08	0.04	0.06	0.07	0.08	0.04	0.05
21/06/2015	1.00	0.06	0.10	0.03	0.05	0.06	0.08	0.05	0.08	0.05	0.07	0.04	0.07	0.06	0.10	0.05	0.08
22/06/2015	1.01	0.07	0.08	0.03	0.06	0.08	0.12	0.05	0.09	0.04	0.08	0.04	0.06	0.06	0.10	0.05	0.08
23/06/2015	0.87	0.06	0.09	0.03	0.05	0.06	0.11	0.06	0.08	0.04	0.07	0.04	0.06	0.07	0.08	0.05	0.06
24/06/2015	0.85	0.06	0.09	0.03	0.05	0.08	0.09	0.06	0.11	0.05	0.06	0.03	0.06	0.06	0.09	0.05	0.08
25/06/2015	0.94	0.07	0.08	0.03	0.06	0.08	0.12	0.07	0.08	0.04	0.07	0.05	0.06	0.06	0.09	0.05	0.10
26/06/2015	0.98	0.06	0.10	0.03	0.04	0.08	0.13	0.07	0.11	0.04	0.06	0.04	0.06	0.08	0.10	0.07	0.08
27/06/2015	0.89	0.06	0.10	0.04	0.06	0.10	0.12	0.08	0.12	0.04	0.08	0.04	0.05	0.07	0.10	0.06	0.10
28/06/2015	0.84	0.08	0.10	0.04	0.07	0.09	0.14	0.10	0.12	0.04	0.06	0.04	0.06	0.07	0.09	0.06	0.10
29/06/2015	0.87	0.07	0.11	0.05	0.09	0.09	0.14	0.07	0.13	0.04	0.06	0.04	0.06	0.07	0.11	0.06	0.10
30/06/2015	0.91	0.06	0.12	0.07	0.09	0.08	0.12	0.02	0.05	0.04	0.06	0.04	0.06	0.03	0.06	0.01	0.01

Total Number of Measurements Taken, A:	15063	13467	14097	12123	15569	15379	14328	15132
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:	15063	13467	14097	12123	15569	15379	14328	15132
Compliance with Turbidity Standard, C = B/A X 100%:	100%	100%	100%	100%	100%	100%	100%	100%

NR: No result due to analyser maintenance requirements

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Turbidity\2015\06-June

Submitted By (Print): D.Minor

Signature: Original signed by D.Minor



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 AA	Turbidity (NTU)								
Date	Raw Water	Filter 1	Filter 2	Filter 3	Filter 4	Filter 5	Filter 6	Filter 7	Filter 8
01-Jun-2015	0.84	0.11	0.11	0.09	0.07	0.07	0.06	<0.05	0.09
02-Jun-2015	1.08	0.08	0.07	0.07	0.08	0.07	0.09	0.06	0.07
03-Jun-2015	0.80	0.07	0.06	0.10	0.07	0.12	0.07	0.07	0.07
04-Jun-2015	0.83	0.07	0.05	0.11	0.06	0.06	0.07	0.08	0.07
05-Jun-2015	0.89	0.07	0.06	0.07	0.07	0.05	0.08	0.05	0.05
06-Jun-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS
07-Jun-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS
08-Jun-2015	1.00	0.19	0.13	0.18	0.12	0.10	0.10	0.12	0.09
09-Jun-2015	1.03	0.11	0.11	0.12	0.11	0.06	0.09	0.09	0.16
10-Jun-2015	0.98	0.09	0.06	0.09	0.08	0.06	0.08	0.07	0.05
11-Jun-2015	0.83	0.06	0.07	0.11	0.10	0.10	0.09	0.08	0.10
12-Jun-2015	0.90	0.07	0.07	0.09	0.07	0.13	0.09	0.06	<0.05
13-Jun-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS
14-Jun-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS
15-Jun-2015	0.75	0.05	0.06	0.08	0.08	0.09	0.06	0.10	0.08
16-Jun-2015	0.73	0.16	0.12	0.08	0.09	0.08	0.07	0.05	<0.05
17-Jun-2015	0.76	0.07	0.06	0.09	0.07	0.06	0.10	0.07	0.06
18-Jun-2015	0.74	<0.05	<0.05	0.06	0.11	0.07	<0.05	0.07	0.06
19-Jun-2015	0.67	0.08	0.11	0.12	0.09	0.06	0.06	0.06	0.07
20-Jun-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS
21-Jun-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS
22-Jun-2015	0.89	0.09	0.08	0.10	0.08	0.11	0.06	0.06	0.09
23-Jun-2015	0.77	0.06	<0.05	0.17	0.08	0.06	0.07	0.06	0.06
24-Jun-2015	0.71	0.06	0.07	0.07	0.06	0.06	<0.05	0.07	0.06
25-Jun-2015	0.76	0.08	0.10	0.11	0.09	0.10	0.05	0.07	0.07
26-Jun-2015	0.68	0.08	0.08	0.09	0.11	0.09	0.09	0.11	0.07
27-Jun-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS
28-Jun-2015	NS	NS	NS	NS	NS	NS	NS	NS	NS
29-Jun-2015	0.82	0.08	0.07	0.09	0.07	0.05	0.09	0.07	0.06
30-Jun-2015	0.75	<0.05	0.06	0.06	0.06	<0.05	<0.05	0.07	0.07
Total number of measurements taken, A:	22	22	22	22	22	22	22	22	22
Turbidity Standard for Monitoring Location (NTU):	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Number of measurements meeting standard, B:	22	22	22	22	22	22	22	22	22
Compliance with Turbidity Standard, C= B/A X 100%:	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: C.Diduck

Date Approved: 6-Jun-15



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

Water System Code: **252.00**
Licence Number: **PWS-09-412 AA**
Report Created: **01 July 2015**

Report Period: **June 2015**

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/06/2015	1.01	0.93	1.07	0.95
02/06/2015	0.99	0.90	1.07	1.01
03/06/2015	0.97	0.90	1.06	1.00
04/06/2015	0.98	0.89	1.07	1.01
05/06/2015	1.01	0.89	1.13	1.01
06/06/2015	1.10	1.01	1.16	1.10
07/06/2015	1.04	0.93	1.08	0.96
08/06/2015	1.05	0.93	1.11	1.05
09/06/2015	1.12	1.04	1.18	1.11
10/06/2015	1.09	0.99	1.17	1.06
11/06/2015	1.07	1.01	1.11	1.00
12/06/2015	1.05	0.96	1.08	0.98
13/06/2015	1.01	0.91	1.03	0.92
14/06/2015	1.04	0.94	1.05	0.96
15/06/2015	1.05	0.97	1.06	0.98
16/06/2015	1.00	0.90	1.05	0.95
17/06/2015	0.99	0.74	1.04	0.80
18/06/2015	0.97	0.82	1.06	0.87
19/06/2015	1.03	0.91	1.12	1.00
20/06/2015	1.14	1.04	1.19	1.10
21/06/2015	1.16	1.05	1.22	1.12
22/06/2015	1.16	1.08	1.20	1.09
23/06/2015	1.22	1.12	1.19	1.13
24/06/2015	1.18	1.04	1.17	1.10
25/06/2015	1.12	1.02	1.10	0.99
26/06/2015	1.27	1.05	1.18	0.97
27/06/2015	1.29	1.04	1.22	1.08
28/06/2015	1.12	1.00	1.14	1.08
29/06/2015	1.10	0.99	1.09	0.98
30/06/2015	1.13	1.02	1.11	0.98

Total Number of Measurements, A:	20924	20922
Minimum Free Chlorine Standard:	0.50	0.50
Number of Measurements Meeting Standard, B:	20924	20922
COMPLIANCE, C = B/A X 100%:	100	100

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2015\06-June

Submitted By (Print): D.Minor

Signature: Original signed by D.Minor



CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT
 ENVIRONMENTAL STANDARDS DIVISION

WATER TREATMENT PLANT CHLORINE GRAB MONITORING REPORT

Water System Code: 252.00 Licence No. PWS-09-412 AA	Deacon Booster Pumping Station Branch 1		Deacon Booster Pumping Station Branch 2	
	Free Chlorine (mg/L)	Total Chlorine (mg/L)	Free Chlorine (mg/L)	Total Chlorine (mg/L)
Date				
01-Jun-2015	1.04	1.24	1.08	1.23
02-Jun-2015	1.08	1.18	1.11	1.24
03-Jun-2015	1.12	1.25	1.16	1.28
04-Jun-2015	1.15	1.26	1.21	1.31
05-Jun-2015	1.08	1.18	1.23	1.30
06-Jun-2015	NS	NS	NS	NS
07-Jun-2015	NS	NS	NS	NS
08-Jun-2015	1.10	1.21	1.14	1.29
09-Jun-2015	1.18	1.30	1.21	1.32
10-Jun-2015	1.16	1.23	1.21	1.31
11-Jun-2015	1.08	1.17	1.07	1.17
12-Jun-2015	1.12	1.20	1.12	1.20
13-Jun-2015	NS	NS	NS	NS
14-Jun-2015	NS	NS	NS	NS
15-Jun-2015	1.11	1.25	1.16	1.27
16-Jun-2015	1.11	1.26	1.12	1.28
17-Jun-2015	1.15	1.23	1.17	1.33
18-Jun-2015	1.23	1.29	1.21	1.31
19-Jun-2015	1.15	1.22	1.21	1.31
20-Jun-2015	NS	NS	NS	NS
21-Jun-2015	NS	NS	NS	NS
22-Jun-2015	1.32	1.44	1.31	1.44
23-Jun-2015	1.31	1.43	1.30	1.44
24-Jun-2015	1.25	1.40	1.31	1.41
25-Jun-2015	1.18	1.32	1.24	1.33
26-Jun-2015	1.13	1.30	1.17	1.31
27-Jun-2015	NS	NS	NS	NS
28-Jun-2015	NS	NS	NS	NS
29-Jun-2015	1.10	1.22	1.13	1.24
30-Jun-2015	1.18	1.31	1.16	1.27
Total number of measurements taken, A:	22		22	
Chlorine Standard for Monitoring Location (mg/L):	0.50		0.50	
Number of measurements meeting standard, B:	22		22	
Compliance with Chlorine Standard, C= B/A X 100%:	100%		100%	

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

Comments:

Report Compiled By: H.Demchenko

Approved in LIMS By: C.Diduck

Date Approved: 6-Jun-15



CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES

Water System Code: 252.00
 Licence Number: PWS-09-412 AA

WATER TREATMENT PLANT UV REPORT

Report Period: June 2015

Report Created: Wednesday, July 01, 2015

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	
		01/06/2015	96.05	0.00	0.00	54.18	54.18	0.00	0.00	0.00	0.00	0.00	0.00	31.29	31.29	0.00	0.00	54.38	54.38	0.00	0.00	0.00	0.00	0.00	0.00	58.15	58.15	0.00	0.00	
02/06/2015	96.01	0.00	0.00	54.23	54.23	0.00	0.00	0.00	0.00	0.00	0.00	31.21	31.21	0.00	0.00	54.50	54.50	0.00	0.00	0.00	0.00	0.00	0.00	58.09	58.09	0.00	0.00	198.03	198.03	100.00
03/06/2015	95.92	0.00	0.00	54.56	54.56	0.00	0.00	0.00	0.00	0.00	0.00	31.29	31.29	0.00	0.00	54.84	54.84	0.00	0.00	0.00	0.00	0.00	0.00	58.51	58.51	0.00	0.00	199.20	199.20	100.00
04/06/2015	96.19	0.00	0.00	57.61	57.61	0.00	0.00	0.00	0.00	0.00	0.00	34.42	34.42	0.00	0.00	57.35	57.35	0.00	0.00	0.00	0.00	0.00	0.00	66.88	66.88	0.00	0.00	216.26	216.26	100.00
05/06/2015	96.20	0.00	0.00	62.06	62.06	0.00	0.00	0.00	0.00	0.00	0.00	36.68	36.68	0.00	0.00	60.21	60.21	0.00	0.00	0.00	0.00	0.00	0.00	65.73	65.78	0.00	0.05	224.67	224.72	99.98
06/06/2015	96.26	0.00	0.06	32.37	32.42	0.00	0.00	0.00	0.00	0.00	0.00	48.34	48.34	0.00	0.00	68.82	68.82	0.00	0.00	0.00	0.00	0.00	0.00	72.42	72.42	0.00	0.06	221.95	222.00	99.97
07/06/2015	96.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	58.93	58.93	0.00	0.00	74.79	74.79	0.00	0.00	0.00	0.00	0.00	0.00	80.01	80.01	0.00	0.00	213.73	213.73	100.00
08/06/2015	96.12	0.03	0.03	0.06	0.12	0.00	0.00	0.00	0.00	0.00	0.00	58.58	58.58	0.00	0.00	73.94	73.94	0.00	0.00	0.00	0.00	0.00	0.00	79.28	79.39	0.03	0.14	211.86	212.03	99.92
09/06/2015	96.17	0.00	0.00	0.00	0.00	0.00	0.00	33.44	33.44	0.00	0.00	60.62	60.62	0.00	0.59	52.04	52.63	0.00	0.33	21.80	22.12	0.00	0.06	41.83	41.89	0.00	0.98	209.73	210.71	99.53
10/06/2015	96.10	0.00	0.00	0.00	0.00	0.00	0.00	68.29	68.29	0.00	0.00	45.13	45.13	0.00	0.00	26.12	26.12	0.00	0.00	67.62	67.62	0.00	0.00	0.00	0.00	0.00	0.00	207.16	207.16	100.00
11/06/2015	96.17	0.00	0.00	0.00	0.00	0.00	0.00	70.30	70.30	0.00	0.00	0.00	0.00	0.00	0.00	70.55	70.55	0.00	0.00	20.24	20.24	0.00	0.00	43.91	43.91	0.00	0.00	205.00	205.00	100.00
12/06/2015	96.22	0.00	0.00	0.00	0.00	0.00	0.00	71.28	71.28	0.00	0.00	0.00	0.00	0.00	0.00	72.10	72.10	0.00	0.00	0.00	0.00	0.00	0.00	64.88	64.88	0.00	0.00	208.26	208.26	100.00
13/06/2015	96.13	0.00	0.00	0.00	0.00	0.00	0.00	71.76	71.76	0.00	0.00	0.00	0.00	0.00	0.00	72.86	72.86	0.00	0.00	0.00	0.00	0.00	0.00	65.38	65.38	0.00	0.00	210.00	210.00	100.00
14/06/2015	96.21	0.00	0.00	0.00	0.00	0.00	0.00	71.83	71.83	0.00	0.00	0.00	0.00	0.00	0.00	72.73	72.73	0.00	0.00	0.00	0.00	0.00	0.00	65.22	65.22	0.00	0.00	209.78	209.78	100.00
15/06/2015	95.92	0.00	0.00	0.00	0.00	0.00	0.00	72.59	72.59	0.00	0.00	0.00	0.00	0.00	0.00	73.53	73.53	0.00	0.00	0.00	0.00	0.00	0.00	65.91	65.91	0.00	0.00	212.04	212.04	100.00
16/06/2015	96.25	0.00	0.00	0.00	0.00	0.00	0.00	69.58	69.58	0.00	0.00	50.49	50.49	0.00	0.00	22.78	22.78	0.00	0.00	49.04	49.04	0.00	0.00	20.10	20.10	0.00	0.00	212.00	212.00	100.00
17/06/2015	96.19	0.00	0.00	0.00	0.00	0.05	0.05	63.14	63.23	0.01	0.04	68.26	68.32	0.00	0.00	0.00	0.00	0.00	0.00	66.29	66.29	0.00	0.00	0.00	0.00	0.06	0.09	197.69	197.84	99.93
18/06/2015	95.88	0.00	0.00	29.04	29.04	0.00	0.00	40.21	40.21	0.00	0.00	75.73	75.73	0.00	0.00	0.00	0.00	0.00	0.00	72.81	72.81	0.00	0.00	0.00	0.00	0.00	0.00	217.79	217.79	100.00
19/06/2015	96.12	0.00	0.00	68.90	68.90	0.00	0.00	0.00	0.00	0.00	0.00	77.35	77.35	0.00	0.00	0.00	0.00	0.00	0.00	73.80	73.80	0.00	0.00	0.00	0.00	0.00	0.00	220.05	220.05	100.00
20/06/2015	96.12	0.00	0.00	66.64	66.64	0.00	0.00	0.00	0.00	0.00	0.00	74.98	74.98	0.00	0.00	0.00	0.00	0.00	0.00	72.12	72.12	0.00	0.00	0.00	0.00	0.00	0.00	213.74	213.74	100.00
21/06/2015	96.05	0.00	0.00	65.49	65.49	0.00	0.00	0.00	0.00	0.00	0.00	73.60	73.60	0.00	0.00	0.00	0.00	0.00	0.00	70.93	70.93	0.00	0.00	0.00	0.00	0.00	0.00	210.02	210.02	100.00
22/06/2015	96.00	0.00	0.00	65.51	65.51	0.00	0.00	0.00	0.00	0.00	0.00	73.74	73.74	0.00	0.00	0.00	0.00	0.00	0.00	70.73	70.73	0.00	0.00	0.00	0.00	0.00	0.00	209.97	209.97	100.00
23/06/2015	96.22	0.00	0.00	65.56	65.56	0.00	0.00	0.00	0.00	0.00	0.00	73.75	73.75	0.00	0.00	0.00	0.00	0.00	0.00	70.66	70.66	0.00	0.00	0.00	0.00	0.00	0.00	209.97	209.97	100.00
24/06/2015	96.15	0.00	0.00	65.49	65.49	0.00	0.00	0.00	0.00	0.00	0.00	73.84	73.84	0.00	0.00	0.00	0.00	0.00	0.00	70.70	70.70	0.00	0.00	0.00	0.00	0.00	0.00	210.03	210.03	100.00
25/06/2015	96.16	0.00	0.00	65.45	65.45	0.00	0.00	0.00	0.00	0.00	0.00	73.75	73.75	0.00	0.00	0.00	0.00	0.00	0.00	70.81	70.81	0.00	0.00	0.00	0.00	0.00	0.00	210.01	210.01	100.00
26/06/2015	96.28	0.00	0.00	66.67	66.67	0.00	0.00	0.00	0.00	0.00	0.00	75.14	75.14	0.00	0.00	0.00	0.00	0.00	0.00	71.87	71.87	0.00	0.00	0.00	0.00	0.00	0.00	213.68	213.68	100.00
27/06/2015	96.23	0.00	0.00	67.15	67.15	0.00	0.00	0.00	0.00	0.00	0.00	75.60	75.60	0.00	0.00	0.00	0.00	0.00	0.00	72.24	72.24	0.00	0.00	0.00	0.00	0.00	0.00	214.99	214.99	100.00
28/06/2015	96.13	0.00	0.00	67.09	67.09	0.00	0.00	0.00	0.00	0.00	0.00	75.59	75.59	0.00	0.00	0.00	0.00	0.00	0.00	72.29	72.29	0.00	0.00	0.00	0.00	0.00	0.00	214.98	214.98	100.00
29/06/2015	96.15	0.00	0.00	67.06	67.06	0.00	0.00	0.00	0.00	0.00	0.00	75.67	75.67	0.00	0.00	0.00	0.00	0.00	0.00	72.24	72.24	0.00	0.00	0.00	0.00	0.00	0.00	214.97	214.97	100.00
30/06/2015	96.06	0.00	0.00	67.04	67.04	0.00	0.00	0.00	0.00	0.00	0.00	75.63	75.63	0.00	0.00	0.00	0.00	0.00	0.00	72.32	72.32	0.00	0.00	0.00	0.00	0.00	0.00	214.99	214.99	100.00
		0.03	0.09	1142.16	1142.28	0.05	0.05	632.42	632.51	0.01	0.04	1529.63	1529.69	0.00	0.59	961.53	962.12	0.00	0.33	1158.50	1158.82	0.00	0.22	906.30	906.52	0.10	1.32	6330.53	6331.94	

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

Submitted By (Print): D.Minor

Signature: Original signed by D.Minor



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Tuesday, July 7, 2015

Our Incident/Report No: 05-2015

LIMS Reference No: **42734**

Incident Date: **June 1, 2015**

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

RE: CORRECTIVE ACTION REPORT

WATER SYSTEM, CODE	Winnipeg Public Water System, 252.00
LOCATION OF NON-COMPLIANT INCIDENT	Winnipeg 3-Dist NW03; NW05
INCIDENT REPORTED BY	Courtney Diduck, Analytical Services Branch Head
TYPE OF NON-COMPLIANT INCIDENT	1. Low positive Total Coliform (<10 per100mL), 3 MR 41/2007 2. High positive Total Coliform (>10 per100mL), 3 MR 41/2007
DESCRIPTION OF CORRECTIVE ACTIONS	<u>Environmental Standards:</u> IMMEDIATELY: Re-sampled original locations, tested additional samples upstream/downstream of high positive location for turbidity, free/total chlorine, temperature and contacted the ODW. Identified and evaluated 36 properties near the high positive location for backflow prevention, 7 locations were immediately notified that testing of backflow prevention device(s) is required and one work order was issued for insufficient backflow protection. <u>Water Services:</u> Spot flushed and monitored chlorine and turbidity levels at the locations, inspected feedermain route and valve chambers, and reviewed operational data and discoloured water calls. Positive locations and operational activities were mapped for evaluation. Pressure data for McPhillips and MacLean pumping stations and regional pressure monitoring points in the vicinity of the positive locations was analyzed for the week prior to June 1, 2015. No sanitary defects or unusual operational activities were identified. A complete summary of follow-up activities will be provided in a separate submission.
TEST RESULTS	See Attached

NOTES/COMMENTS:

1. 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

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

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



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Sample Name	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 Sampled (hrs)
NW03	434612	01-Jun-15	<1	1	38	0.44	0.53	7.1	0.29	9:25
NW03 Duplicate	-	01-Jun-15	<1	1	NA	NA	NA	NA	0.29	NA
NW03_Resample	435271	02-Jun-15	<1	<1	<1	0.66	0.82	8.1	0.32	15:43
NW03_Resample Duplicate	435276	02-Jun-15	<1	<1	<1	NA	NA	NA	NA	NA
NW05	434614	01-Jun-15	<1	>200	4	0.66	0.88	7.8	0.22	11:30
NW05_Resample	435272	02-Jun-15	<1	<1	<1	0.82	1.02	10.3	0.15	16:10
NW05_Upstream	435273	02-Jun-15	<1	<1	<1	0.88	0.99	11.3	0.22	17:00
NW05_Downstream	435274	02-Jun-15	<1	<1	<1	0.89	1.00	14.3	0.16	16:30
NW05_Resample Duplicate	435275	02-Jun-15	<1	<1	<1	NA	NA	NA	NA	NA

NOTES/COMMENTS:

1. All microbiological tests performed by contract laboratory.
2. NR-No Result due to laboratory/analyst error
3. NA-Not Analyzed.



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Wednesday, June 24, 2015

Our Incident/Report No: 06-2015

LIMS Reference No: **42806**

Incident Date: **June 10, 2015**

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

RE: CORRECTIVE ACTION REPORT

WATER SYSTEM, CODE	Winnipeg Public Water System, 252.00
LOCATION OF NON-COMPLIANT INCIDENT	Winnipeg 3-Dist SE03
INCIDENT REPORTED BY	Courtney Diduck, Analytical Services Branch Head
TYPE OF NON-COMPLIANT INCIDENT	Low positive Total Coliform (<10 per100mL), 3 MR 41/2007
DESCRIPTION OF CORRECTIVE ACTIONS	<u>Environmental Standards:</u> AS SOON AS POSSIBLE: Re-sampled original location, also tested for turbidity, free/total chlorine, temperature and contacted the ODW.
TEST RESULTS	See Attached

NOTES/COMMENTS:

1. 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

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

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Sample Name	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-field (ntu)	Time Sampled (hrs)
SE03	435473	10-Jun-15	<1	1	3	0.81	0.97	12.7	0.28	12:36
SE03_Resample	436282	11-Jun-15	<1	<1	<1	0.68	0.84	10.3	0.54	16:41
SE03_Resample Duplicate	436283	11-Jun-15	<1	<1	<1	NA	NA	NA	NA	NA

NOTES/COMMENTS:

1. All microbiological tests performed by contract laboratory.
2. NR-No Result due to laboratory/analyst error
3. NA-Not Analyzed.