



Water and Waste Department • Service des eaux et des déchets

May 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: APRIL 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 April 2015. We have also included one corrective action report for a positive total coliform in the distribution system.

The April 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. We continue to have filter 8 out of service for maintenance issues. There is currently no impact on any of the treatment process at this time.

The April 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.

On April 1st, a positive total coliform result was reported for a routine sample [REDACTED]. On April 2nd, the location was resampled and results were reported to be negative. Our resampling also 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 April 2015 in accordance with Section 4.13, Table 2 of the Operating Licence. The UV licence requirement has been met April.

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

April 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
1/04/2015	0.67	0.04	0.06	0.03	0.06	0.07	0.13	0.03	0.08	0.04	0.07	0.04	0.08	0.06	0.11	OL	OL
2/04/2015	0.68	0.04	0.08	0.02	0.04	0.07	0.12	0.04	0.06	0.03	0.07	0.04	0.09	0.06	0.11	OL	OL
3/04/2015	0.69	0.03	0.07	0.02	0.04	0.08	0.10	0.03	0.07	0.03	0.06	0.03	0.05	0.06	0.11	OL	OL
4/04/2015	0.68	0.03	0.07	0.02	0.04	0.07	0.13	0.03	0.06	0.02	0.04	0.04	0.07	0.07	0.08	OL	OL
5/04/2015	0.69	0.04	0.05	0.02	0.05	0.06	0.11	0.03	0.05	0.03	0.06	0.04	0.07	0.06	0.10	OL	OL
6/04/2015	0.69	0.04	0.07	0.02	0.03	0.07	0.11	0.04	0.14	0.03	0.06	0.03	0.07	0.06	0.10	OL	OL
7/04/2015	0.66	0.03	0.06	0.02	0.04	0.08	0.13	0.03	0.10	0.02	0.05	0.04	0.06	0.06	0.08	OL	OL
8/04/2015	0.66	0.03	0.06	0.01	0.03	0.07	0.14	0.03	0.06	0.03	0.04	0.04	0.07	0.06	0.09	OL	OL
9/04/2015	0.66	0.05	0.15	0.01	0.03	0.08	0.16	0.04	0.06	0.03	0.05	0.04	0.08	0.06	0.10	OL	OL
10/04/2015	0.70	0.04	0.07	0.03	0.05	0.10	0.17	0.04	0.08	0.05	0.10	0.05	0.07	0.05	0.10	OL	OL
11/04/2015	0.69	0.04	0.09	0.04	0.07	0.09	0.16	0.03	0.11	0.05	0.10	0.06	0.12	0.05	0.08	OL	OL
12/04/2015	0.67	0.04	0.05	0.03	0.07	0.08	0.14	0.02	0.07	0.06	0.09	0.04	0.07	0.03	0.07	OL	OL
13/04/2015	0.68	0.04	0.08	0.03	0.05	0.07	0.14	0.04	0.07	0.05	0.09	0.04	0.08	0.03	0.06	OL	OL
14/04/2015	0.68	0.04	0.07	0.03	0.06	0.09	0.13	0.03	0.07	0.05	0.09	0.04	0.06	0.03	0.06	OL	OL
15/04/2015	0.76	0.03	0.07	0.03	0.07	0.08	0.14	0.03	0.08	0.05	0.08	0.05	0.08	0.03	0.05	OL	OL
16/04/2015	0.70	0.01	0.04	0.01	0.03	0.03	0.08	0.01	0.03	0.02	0.07	0.01	0.07	0.01	0.06	OL	OL
17/04/2015	0.82	0.03	0.06	0.02	0.07	0.07	0.11	0.02	0.06	0.04	0.08	0.04	0.06	0.02	0.05	OL	OL
18/04/2015	0.79	0.03	0.05	0.02	0.04	0.06	0.11	0.02	0.04	0.04	0.07	0.03	0.05	0.03	0.05	OL	OL
19/04/2015	0.82	0.03	0.05	0.02	0.05	0.07	0.16	0.02	0.05	0.04	0.07	0.03	0.06	0.03	0.05	OL	OL
20/04/2015	0.86	0.03	0.04	0.02	0.04	0.07	0.12	0.02	0.05	0.05	0.07	0.04	0.06	0.03	0.05	OL	OL
21/04/2015	0.94	0.03	0.05	0.02	0.04	0.07	0.16	0.02	0.04	0.04	0.07	0.03	0.06	0.03	0.05	OL	OL
22/04/2015	0.95	0.03	0.06	0.03	0.05	0.08	0.10	0.02	0.05	0.04	0.07	0.04	0.06	0.03	0.05	OL	OL
23/04/2015	0.90	0.03	0.05	0.03	0.05	0.08	0.12	0.02	0.07	0.04	0.07	0.04	0.08	0.03	0.05	OL	OL
24/04/2015	0.83	0.03	0.05	0.03	0.05	0.07	0.11	0.02	0.04	0.04	0.06	0.04	0.07	0.03	0.07	OL	OL
25/04/2015	0.87	0.03	0.06	0.03	0.05	0.07	0.11	0.02	0.04	0.05	0.10	0.03	0.07	0.03	0.06	OL	OL
26/04/2015	0.86	0.03	0.07	0.04	0.05	0.07	0.10	0.02	0.04	0.04	0.07	0.03	0.06	0.03	0.06	OL	OL
27/04/2015	0.94	0.03	0.07	0.04	0.07	0.09	0.14	0.02	0.07	0.04	0.07	0.04	0.06	0.02	0.06	OL	OL
28/04/2015	0.87	0.03	0.05	0.03	0.06	0.07	0.11	0.02	0.04	0.04	0.07	0.04	0.06	0.03	0.04	OL	OL
29/04/2015	0.86	0.03	0.05	0.04	0.06	0.07	0.11	0.02	0.05	0.05	0.08	0.03	0.06	0.03	0.05	OL	OL
30/04/2015	0.99	0.03	0.05	0.04	0.07	0.08	0.12	0.02	0.04	0.05	0.07	0.04	0.07	0.03	0.05	OL	OL

Total Number of Measurements Taken, A:	15464	15293	14742	13115	15993	15769	14539	OL
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:	15464	15293	14742	13115	15993	15769	14539	OL
Compliance with Turbidity Standard, C = B/A X 100%:	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	OL

OL: Offline

Note: Filter 8 is offline for maintenance

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Submitted By (Print) D.Merredew

Signature Original signed by D.Merredew



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-Apr-2015	0.52	0.08	0.07	0.15	0.09	0.09	0.09	0.09	OL
02-Apr-2015	0.51	0.06	0.06	0.08	0.08	0.08	0.06	0.09	OL
03-Apr-2015	NS	NS	NS	NS	NS	NS	NS	NS	OL
04-Apr-2015	NS	NS	NS	NS	NS	NS	NS	NS	OL
05-Apr-2015	NS	NS	NS	NS	NS	NS	NS	NS	OL
06-Apr-2015	NS	NS	NS	NS	NS	NS	NS	NS	OL
07-Apr-2015	0.56	0.06	0.07	0.16	0.28	0.27	0.10	0.18	OL
08-Apr-2015	0.66	0.13	<0.05	0.12	0.06	0.06	0.07	0.06	OL
09-Apr-2015	0.60	0.07	0.09	0.11	0.10	0.11	0.08	0.10	OL
10-Apr-2015	0.67	0.14	0.23	0.13	0.15	0.17	0.07	0.21	OL
11-Apr-2015	NS	NS	NS	NS	NS	NS	NS	NS	OL
12-Apr-2015	NS	NS	NS	NS	NS	NS	NS	NS	OL
13-Apr-2015	0.58	0.09	0.07	0.16	0.10	0.13	0.09	0.06	OL
14-Apr-2015	0.57	0.11	0.10	0.12	0.13	0.15	0.06	0.08	OL
15-Apr-2015	0.55	0.08	0.10	0.13	0.09	0.07	0.07	0.08	OL
16-Apr-2015	0.63	0.09	0.10	0.14	0.10	0.16	0.19	0.15	OL
17-Apr-2015	0.57	0.06	0.09	0.08	0.07	0.06	0.06	0.07	OL
18-Apr-2015	NS	NS	NS	NS	NS	NS	NS	NS	OL
19-Apr-2015	NS	NS	NS	NS	NS	NS	NS	NS	OL
20-Apr-2015	0.75	0.12	0.15	0.16	0.09	0.16	0.16	0.13	OL
21-Apr-2015	0.55	0.07	0.09	0.06	0.12	0.08	0.06	<0.05	OL
22-Apr-2015	0.67	0.05	0.07	0.07	0.07	0.07	0.05	0.06	OL
23-Apr-2015	0.78	0.06	0.07	0.19	0.08	0.10	0.12	0.10	OL
24-Apr-2015	0.56	0.07	0.16	0.10	0.21	0.19	0.06	0.08	OL
25-Apr-2015	NS	NS	NS	NS	NS	NS	NS	NS	OL
26-Apr-2015	NS	NS	NS	NS	NS	NS	NS	NS	OL
27-Apr-2015	0.62	0.08	0.15	0.07	0.06	0.09	0.14	0.06	OL
28-Apr-2015	0.73	0.13	0.10	0.07	0.09	0.09	0.16	0.17	OL
29-Apr-2015	0.57	0.07	0.07	0.06	0.06	0.06	0.09	0.06	OL
30-Apr-2015	0.86	0.09	0.09	0.08	0.10	0.09	0.09	0.08	OL
Total number of measurements taken, A:	20	20	20	20	20	20	20	20	0
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:	20	20	20	20	20	20	20	20	0
Compliance with Turbidity Standard, C= B/A X 100%:	100%	100%	100%	100%	100%	100%	100%	100%	OL

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

Comments:

Report Compiled By: H.Demchenko

Approved in LIMS By: C.Diduck

Date Approved: 5-May-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 May 2015

Report Period: April 2015

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/04/2015	1.01	0.91	0.97	0.93
02/04/2015	1.00	0.96	1.00	0.93
03/04/2015	1.02	0.97	1.08	1.03
04/04/2015	1.05	0.94	1.03	0.99
05/04/2015	1.07	1.03	1.01	0.97
06/04/2015	1.04	1.00	0.96	0.92
07/04/2015	1.04	0.99	0.95	0.91
08/04/2015	1.04	0.94	1.03	0.93
09/04/2015	1.01	0.95	1.01	0.94
10/04/2015	1.08	0.97	0.97	0.89
11/04/2015	0.98	0.93	1.00	0.97
12/04/2015	1.07	0.91	1.01	0.88
13/04/2015	1.10	1.02	1.11	1.06
14/04/2015	1.04	0.99	1.09	1.01
15/04/2015	1.05	0.96	1.11	1.03
16/04/2015	1.41	1.11	1.57	1.05
17/04/2015	1.05	0.86	1.05	0.74
18/04/2015	0.98	0.92	1.03	1.00
19/04/2015	1.00	0.97	1.02	0.99
20/04/2015	0.98	0.91	1.01	0.94
21/04/2015	0.95	0.92	0.92	0.88
22/04/2015	0.98	0.94	0.94	0.89
23/04/2015	1.07	0.99	1.09	0.98
24/04/2015	1.03	0.96	1.11	1.04
25/04/2015	1.01	0.96	1.10	1.05
26/04/2015	1.01	0.97	1.08	1.06
27/04/2015	1.04	0.99	1.05	0.99
28/04/2015	1.08	1.02	1.11	1.00
29/04/2015	1.05	1.01	1.00	0.95
30/04/2015	1.00	0.95	0.92	0.88

Total Number of Measurements, A:	20851	20849
Minimum Free Chlorine Standard:	0.50	0.50
Number of Measurements Meeting Standard, B:	20851	20849
COMPLIANCE, C = B/A X 100%:	100	100

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2015\04-April

Submitted By (Print): D.Merredew

Signature: Original signed by D.Merredew



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-Apr-2015	1.01	1.19	1.09	1.30
02-Apr-2015	1.06	1.20	1.06	1.21
03-Apr-2015	NS	NS	NS	NS
04-Apr-2015	NS	NS	NS	NS
05-Apr-2015	NS	NS	NS	NS
06-Apr-2015	NS	NS	NS	NS
07-Apr-2015	0.97	1.21	1.04	1.18
08-Apr-2015	1.00	1.13	1.09	1.33
09-Apr-2015	1.06	1.21	1.04	1.21
10-Apr-2015	1.13	1.30	0.94	1.17
11-Apr-2015	NS	NS	NS	NS
12-Apr-2015	NS	NS	NS	NS
13-Apr-2015	1.13	1.28	1.11	1.26
14-Apr-2015	1.03	1.18	1.12	1.24
15-Apr-2015	1.02	1.18	1.12	1.23
16-Apr-2015	1.68	1.88	1.73	1.91
17-Apr-2015	1.20	1.32	1.06	1.26
18-Apr-2015	NS	NS	NS	NS
19-Apr-2015	NS	NS	NS	NS
20-Apr-2015	1.02	1.14	1.06	1.18
21-Apr-2015	1.00	1.11	0.96	1.08
22-Apr-2015	1.00	1.14	0.99	1.10
23-Apr-2015	1.07	1.25	1.13	1.27
24-Apr-2015	1.09	1.25	1.13	1.28
25-Apr-2015	NS	NS	NS	NS
26-Apr-2015	NS	NS	NS	NS
27-Apr-2015	1.06	1.19	1.08	1.22
28-Apr-2015	1.14	1.26	1.16	1.27
29-Apr-2015	1.12	1.27	1.10	1.20
30-Apr-2015	1.09	1.23	1.05	1.17
Total number of measurements taken, A:	20		20	
Chlorine Standard for Monitoring Location (mg/L):	0.50		0.50	
Number of measurements meeting standard, B:	20		20	
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: 5-May-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: **April 2015**

Report Created: **Friday, May 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 T	o	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	
01/04/2015	93.01	0.00	0.00	0.00	0.00	0.00	0.00	68.74	68.74	0.00	0.00	30.75	30.75	0.00	0.00	30.56	30.56	0.00	0.00	65.97	65.97	0.00	0.00	0.00	0.00	0.00	0.00	196.01	196.01	100.00
02/04/2015	93.07	0.00	0.06	0.01	0.07	0.00	0.11	74.45	74.56	0.01	0.01	4.55	4.57	0.00	0.00	52.54	52.54	0.00	0.00	62.78	62.78	0.00	0.00	0.00	0.00	0.01	0.18	194.32	194.51	99.90
03/04/2015	93.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.64	50.64	0.00	0.00	53.70	53.70	0.00	0.00	82.83	82.83	0.00	0.00	0.00	0.00	0.00	0.00	187.16	187.16	100.00
04/04/2015	93.28	0.00	0.05	41.05	41.10	0.00	0.00	0.00	0.00	0.00	0.00	21.88	21.88	0.00	0.00	53.18	53.18	0.00	0.00	69.15	69.15	0.00	0.00	0.00	0.00	0.00	0.05	185.26	185.31	99.97
05/04/2015	93.38	0.00	0.41	65.11	65.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	54.04	54.04	0.00	0.00	60.12	60.12	0.00	0.00	0.00	0.00	0.00	0.41	179.26	179.67	99.77
06/04/2015	93.34	0.00	0.47	60.92	61.40	0.00	0.00	0.00	0.00	0.00	0.00	38.98	38.98	0.00	0.00	15.24	15.24	0.00	0.00	17.32	17.32	0.00	0.04	46.04	46.08	0.00	0.51	178.51	179.02	99.71
07/04/2015	93.42	0.00	0.20	17.00	17.20	0.00	0.00	38.63	38.63	0.08	0.08	30.33	30.50	0.00	0.26	2.51	2.77	0.00	0.00	28.36	28.36	0.00	0.97	64.53	65.50	0.08	1.51	181.36	182.95	99.13
08/04/2015	93.42	0.08	0.15	39.85	40.08	0.09	0.33	50.54	50.96	0.00	0.00	0.13	0.13	0.00	0.19	17.24	17.42	0.00	0.00	60.63	60.63	0.00	0.23	20.08	20.30	0.17	0.90	188.46	189.52	99.44
09/04/2015	93.27	0.00	0.33	39.52	39.85	0.00	0.08	61.09	61.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.74	42.74	0.00	0.00	47.23	47.23	0.00	0.41	190.58	190.99	99.78
10/04/2015	92.77	0.00	0.00	50.67	50.67	0.00	6.66	19.83	26.49	0.00	0.00	27.68	27.68	0.01	0.04	12.45	12.50	0.00	0.00	35.82	35.82	0.00	0.00	37.34	37.34	0.01	6.70	183.80	190.51	96.48
11/04/2015	92.71	0.00	0.00	0.00	0.00	0.00	0.00	79.04	79.04	0.00	0.00	0.00	0.00	0.00	0.00	51.80	51.80	0.00	0.00	60.13	60.13	0.00	0.00	0.00	0.00	0.00	0.00	190.97	190.97	100.00
12/04/2015	93.10	0.00	0.04	13.28	13.32	0.10	0.10	30.45	30.64	0.00	0.00	11.14	11.14	0.00	0.00	53.15	53.15	0.00	0.00	47.06	47.06	0.00	0.00	32.09	32.09	0.10	0.14	187.17	187.40	99.87
13/04/2015	93.13	0.00	0.00	30.32	30.32	0.00	1.04	39.02	40.06	0.00	0.00	0.00	0.00	0.00	0.00	55.62	55.62	0.00	0.00	63.23	63.23	0.00	0.00	0.00	0.00	0.00	1.04	188.19	189.23	99.45
14/04/2015	93.17	0.00	0.35	61.12	61.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.26	62.26	0.00	0.04	45.97	46.01	0.00	0.11	28.64	28.75	0.00	0.50	198.00	198.50	99.75
15/04/2015	93.37	0.00	1.45	60.62	62.07	0.01	0.08	0.49	0.58	0.00	0.00	0.00	0.00	0.00	0.64	42.81	43.45	0.00	0.00	65.41	65.41	0.00	0.17	34.43	34.60	0.01	2.34	203.76	206.12	98.86
16/04/2015	94.10	0.00	0.17	25.41	25.58	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	14.45	14.45	0.00	0.17	24.37	24.54	0.00	0.34	64.22	64.56	99.47
17/04/2015	93.85	0.00	0.07	22.29	22.36	0.00	0.00	58.47	58.47	0.00	0.00	0.00	0.00	0.00	0.05	48.57	48.62	0.00	0.00	47.38	47.38	0.01	0.01	26.08	26.10	0.01	0.13	202.78	202.93	99.93
18/04/2015	93.87	0.00	0.00	41.29	41.29	0.00	0.00	56.82	56.82	0.00	0.00	0.00	0.00	0.00	0.00	49.15	49.15	0.00	0.00	67.72	67.72	0.00	0.00	0.00	0.00	0.00	0.00	214.99	214.99	100.00
19/04/2015	93.89	0.00	0.00	41.40	41.40	0.00	0.00	56.68	56.68	0.00	0.00	0.00	0.00	0.00	0.00	49.11	49.11	0.00	0.00	67.84	67.84	0.00	0.00	0.00	0.00	0.00	0.00	215.02	215.02	100.00
20/04/2015	94.08	0.00	0.00	40.39	40.39	0.00	0.00	54.90	54.90	0.01	0.01	0.00	0.01	0.00	0.00	47.19	47.19	0.00	0.00	66.08	66.08	0.00	0.00	0.00	0.00	0.01	0.01	208.55	208.57	99.99
21/04/2015	94.17	0.00	0.00	37.21	37.21	0.00	0.00	50.84	50.84	0.02	0.02	4.30	4.34	0.17	0.17	39.97	40.31	0.00	0.00	1.75	1.75	0.00	0.00	59.74	59.74	0.19	0.19	193.81	194.18	99.81
22/04/2015	94.13	0.00	0.00	36.11	36.11	0.00	0.00	49.85	49.85	0.00	0.00	42.76	42.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	60.85	61.27	0.00	0.42	189.57	189.99	99.78
23/04/2015	94.09	0.00	0.00	45.73	45.73	0.00	0.00	58.48	58.48	0.00	0.11	33.87	33.99	0.00	0.00	37.05	37.05	0.00	0.09	1.67	1.76	0.00	0.08	15.69	15.78	0.00	0.29	192.50	192.78	99.85
24/04/2015	94.08	0.00	0.00	45.32	45.32	0.00	0.00	58.43	58.43	0.00	0.00	51.83	51.83	0.00	0.00	16.48	16.48	0.00	0.09	22.81	22.90	0.00	0.00	0.00	0.00	0.00	0.09	194.87	194.96	99.96
25/04/2015	94.07	0.00	0.00	39.96	39.96	0.00	0.00	53.79	53.79	0.00	0.06	52.37	52.42	0.00	0.00	0.00	0.00	0.00	0.00	48.82	48.82	0.00	0.00	0.00	0.00	0.00	0.06	194.93	194.99	99.97
26/04/2015	94.02	0.00	0.00	37.12	37.12	0.00	0.00	51.23	51.23	0.00	0.00	43.41	43.41	0.00	0.00	0.00	0.00	0.00	0.00	63.25	63.25	0.00	0.00	0.00	0.00	0.00	0.00	195.01	195.01	100.00
27/04/2015	94.08	0.00	0.00	51.25	51.25	0.00	0.00	31.09	31.09	0.00	0.00	10.66	10.66	0.00	0.00	16.30	16.30	0.00	0.00	45.45	45.45	0.00	0.00	40.17	40.17	0.00	0.00	194.92	194.92	100.00
28/04/2015	94.24	0.00	0.04	64.70	64.73	0.00	0.00	0.00	0.00	0.09	0.16	28.27	28.52	0.00	0.00	0.00	0.00	0.00	0.00	59.07	59.07	0.00	0.21	42.54	42.75	0.09	0.41	194.57	195.07	99.75
29/04/2015	94.25	0.00	0.00	65.18	65.18	0.00	0.00	0.00	0.00	0.00	0.00	58.01	58.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	71.75	71.80	0.00	0.05	194.94	194.99	99.97
30/04/2015	94.23	0.00	0.00	65.00	65.00	0.00	0.00	0.00	0.00	0.00	0.00	58.24	58.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	71.71	71.76	0.00	0.05	194.95	195.00	99.97

0.08 3.80 1137.81 1141.69 0.20 8.40 1042.83 1051.43 0.20 0.45 599.81 600.46 0.18 1.35 860.90 862.43 0.00 0.21 1313.80 1314.01 0.01 2.50 723.28 725.80 0.67 16.72 5678.44 5695.83

Water Volume [%]:
 Untreated: 0.01 %
 Below Dose 0.29 %
 To Dose 99.69 %

Submitted By (Print): D Merredew

Signature: Original signed by D Merredew



Water and Waste Department • Service des eaux et des déchets

Wednesday, June 24, 2015

Our Incident/Report No: 03-2015

LIMS Reference No: 42149

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	Winnipeg Public Water System
WATER SYSTEM CODE	252.00
LOCATION OF NON-COMPLIANT INCIDENT	Winnipeg 3-Dist SW04
OPERATOR IN CHARGE	NA
INCIDENT REPORTED BY	Courtney Diduck, Analytical Services Branch Head
TYPE OF NON-COMPLIANT INCIDENT	Low positive Total Coliform (<10 per100mL), 3 MR 41/2007
INCIDENT DATE	April 1, 2015
DESCRIPTION OF CORRECTIVE ACTIONS	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. 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

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

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)	TimeSpeld (hrs)
SW04 [REDACTED]	428098	01-Apr-15	<1	1	<10	0.85	1.05	6.9	0.55	11:49
SW04 [REDACTED] Resample	428772	02-Apr-15	<1	<1	10	1.05	1.29	5.5	0.27	15:02