



Water and Waste Department • Service des eaux et des déchets

Environmental Standards Division • Division des Normes Environnementales

August 7, 2018

Derek Clarke
Office of Drinking Water
Manitoba Sustainable Development
Box 6000
Gimli, Manitoba R0C 1B0

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

Dear Mr. Clarke:

RE: JULY 2018 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 2018. We have also included two corrective action reports for positive total coliforms in the distribution system.

The July on-line and grab sampling turbidity reports include results obtained for the Water Treatment Plant raw water and the eight filters. Please note that the maximum turbidities for Filter 3 on July 11 was greater than 0.3 NTU after completion of scheduled plant maintenance; the elevated turbidity occurred for a short period of time which did not exceed 12 consecutive hours. The turbidity results for the effluent from the filters met the licence requirements. Please note that the raw turbidity analyzer undergoes regular maintenance and additional maintenance as required, which occurs frequently during summer months due to algal growth.

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 met the licence requirements.

On July 17, a positive total coliform result was reported for a routine sample at the WC05 location. On July 18 and 19, the location was resampled and results were negative. On July 25, a positive total coliform result was reported for a routine sample at the SW11 location. On July 26 and 27, the location was resampled and the results were negative. Our resampling also indicated that the chlorine levels at both locations were normal and provided adequate disinfection. Please see the attached corrective action reports for additional details.

The July UV summary report includes results obtained for the six UV reactors at the Water Treatment Plant. The UV disinfection results met the licence requirements.

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

Yours sincerely,

Original signed by R. Grosselle

R. Grosselle
Manager of Environmental Standards

Enclosures

cc: Dr. L. Richards, Winnipeg Regional Health Authority (email)
Dr. H. Chang, Winnipeg Regional Health Authority (email)
Dr. S. Roberecki, Manitoba Health, Seniors and Active Living (email)
M. L. Geer, CPA, CA (email)
G. Patton, P.Eng. (email)
T. Shanks, P.Eng. (email)
M. Szmon, P.Eng. (email)
C. Diduck (email)



CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
WATER SERVICES

Water System Code: 252.00
 Licence Number: PWS-09-412-01

WATER TREATMENT PLANT TURBIDITY ON-LINE MONITORING REPORT

July 2018 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
1/07/2018	2.03	0.04	0.05	0.03	0.08	0.09	0.14	0.03	0.06	0.07	0.13	0.04	0.06	0.04	0.05	0.01	0.03
2/07/2018	2.70	0.05	0.09	0.05	0.06	0.07	0.17	0.03	0.07	0.08	0.13	0.04	0.08	0.04	0.09	0.01	0.01
3/07/2018	4.29	0.04	0.09	0.04	0.07	0.10	0.16	0.04	0.16	0.07	0.12	0.04	0.08	0.05	0.09	0.01	0.04
4/07/2018	3.53	0.04	0.05	0.04	0.10	0.07	0.13	0.04	0.11	0.03	0.06	0.05	0.06	0.06	0.06	0.01	0.04
5/07/2018	3.97	0.05	0.13	0.06	0.14	0.08	0.16	0.03	0.08	0.03	0.06	0.04	0.08	0.04	0.11	0.01	0.01
6/07/2018	3.85	0.05	0.10	0.06	0.11	0.09	0.14	0.05	0.09	0.04	0.07	0.04	0.06	0.04	0.10	0.01	0.03
7/07/2018	3.18	0.05	0.08	0.07	0.12	0.09	0.23	0.05	0.14	0.04	0.08	0.06	0.11	0.05	0.06	0.01	0.05
8/07/2018	3.43	0.06	0.10	0.08	0.10	0.10	0.16	0.05	0.09	0.05	0.09	0.06	0.10	0.06	0.09	0.02	0.07
9/07/2018	2.75	0.05	0.09	0.08	0.11	0.11	0.13	0.05	0.11	0.05	0.12	0.07	0.12	0.06	0.18	0.04	0.06
10/07/2018	3.32	0.07	0.10	0.09	0.16	0.11	0.19	0.06	0.12	0.07	0.11	0.08	0.13	0.08	0.14	0.05	0.12
11/07/2018	4.14	0.05	0.11	0.08	0.14	0.09	0.60	0.06	0.11	0.05	0.10	0.08	0.11	0.08	0.10	0.04	0.09
12/07/2018	2.19	0.06	0.09	0.10	0.11	0.09	0.17	0.06	0.11	0.05	0.10	0.06	0.17	0.09	0.14	0.04	0.10
13/07/2018	3.20	0.05	0.11	0.10	0.15	0.10	0.13	0.06	0.11	0.05	0.10	0.07	0.12	0.08	0.14	0.05	0.07
14/07/2018	2.46	0.06	0.11	0.11	0.16	0.11	0.17	0.07	0.12	0.06	0.08	0.07	0.15	0.09	0.15	0.05	0.11
15/07/2018	1.80	0.05	0.10	0.11	0.18	0.10	0.17	0.07	0.17	0.05	0.10	0.09	0.14	0.08	0.15	0.05	0.11
16/07/2018	1.66	0.05	0.08	0.11	0.19	0.10	0.16	0.06	0.26	0.06	0.09	0.09	0.16	0.10	0.13	0.05	0.11
17/07/2018	1.95	0.06	0.10	0.14	0.16	0.08	0.16	0.06	0.10	0.06	0.10	0.10	0.16	0.10	0.16	0.06	0.08
18/07/2018	1.60	0.05	0.10	0.13	0.18	0.10	0.12	0.06	0.11	0.06	0.11	0.11	0.17	0.10	0.15	0.07	0.12
19/07/2018	1.86	0.05	0.10	0.13	0.19	0.09	0.16	0.07	0.10	0.07	0.11	0.11	0.18	0.10	0.16	0.07	0.13
20/07/2018	1.78	0.05	0.12	0.11	0.23	0.08	0.20	0.06	0.16	0.04	0.16	0.11	0.22	0.10	0.21	0.05	0.16
21/07/2018	1.87	0.06	0.10	0.17	0.20	0.09	0.12	0.06	0.16	0.04	0.13	0.12	0.18	0.10	0.15	0.07	0.10
22/07/2018	1.50	0.06	0.12	0.17	0.23	0.12	0.16	0.08	0.16	0.05	0.08	0.13	0.21	0.10	0.17	0.07	0.11
23/07/2018	1.80	0.07	0.13	0.18	0.25	0.10	0.18	0.09	0.16	0.05	0.12	0.11	0.20	0.10	0.17	0.05	0.11
24/07/2018	1.74	0.07	0.10	0.14	0.24	0.10	0.19	0.07	0.12	0.04	0.07	0.05	0.10	0.05	0.10	0.01	0.04
25/07/2018	1.83	0.06	0.12	0.11	0.14	0.08	0.15	0.05	0.09	0.02	0.05	0.03	0.08	0.03	0.09	0.01	0.01
26/07/2018	2.05	0.05	0.10	0.08	0.14	0.09	0.13	0.05	0.06	0.02	0.04	0.02	0.04	0.02	0.08	0.01	0.01
27/07/2018	2.09	0.06	0.07	0.09	0.11	0.08	0.15	0.05	0.10	0.02	0.05	0.03	0.06	0.03	0.04	0.01	0.01
28/07/2018	2.49	0.06	0.13	0.10	0.17	0.10	0.11	0.05	0.11	0.02	0.04	0.03	0.06	0.03	0.07	0.01	0.01
29/07/2018	2.47	0.05	0.10	0.08	0.13	0.08	0.14	0.05	0.08	0.02	0.05	0.03	0.04	0.02	0.03	0.01	0.01
30/07/2018	2.94	0.06	0.08	0.08	0.11	0.08	0.13	0.04	0.08	0.02	0.04	0.03	0.06	0.03	0.06	0.01	0.01
31/07/2018	2.82	0.05	0.11	0.10	0.14	0.08	0.10	0.04	0.09	0.02	0.05	0.04	0.10	0.03	0.08	0.01	0.01

Total Number of Measurements Taken, A:	16453	14979	16262	15345	17136	15914	15674	16744
Turbidity Standard for Monitoring Location (NTU):	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Number of Measurements Meeting Standard, B:	16453	14979	16259	15345	17136	15914	15674	16744
Compliance with Turbidity Standard, C = B/A X 100%:	100.000%	100.000%	99.982%	100.000%	100.000%	100.000%	100.000%	100.000%

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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 Licence No. PWS-09-412-01	Turbidity (NTU)																	
	Raw Water		Filter 1		Filter 2		Filter 3		Filter 4		Filter 5		Filter 6		Filter 7		Filter 8	
Date	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser	Grab	Analyser
01-Jul-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
02-Jul-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
03-Jul-2018	1.55	NR	OL	OL	0.11	0.07	0.10	0.08	0.10	0.04	0.08	0.04	0.07	0.05	0.08	0.04	0.08	0.02
04-Jul-2018	1.03	1.25	0.09	0.03	0.08	0.04	OL	OL	0.10	0.05	0.09	0.04	0.08	0.05	0.08	0.05	0.08	<0.02
05-Jul-2018	1.14	1.47	0.11	0.04	0.10	0.06	0.10	0.08	0.09	0.04	0.07	0.03	OL	OL	0.09	0.04	0.07	0.02
06-Jul-2018	1.04	NR	0.09	0.03	OL	OL	0.12	0.09	0.12	0.05	0.08	0.04	0.08	0.05	0.07	0.02	0.08	0.03
07-Jul-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
08-Jul-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
09-Jul-2018	1.12	1.30	0.13	0.05	0.11	0.09	0.11	0.11	0.12	0.05	0.10	0.04	0.11	0.07	OL	OL	0.13	0.05
10-Jul-2018	1.16	1.17	0.12	0.05	OL	OL	0.16	0.15	0.14	0.07	0.13	0.07	0.14	0.09	0.14	0.08	0.16	0.10
11-Jul-2018	1.16	NR	0.12	0.05	0.11	0.10	OL	OL	0.13	0.07	0.13	0.07	0.13	0.09	0.12	0.08	0.12	0.06
12-Jul-2018	1.44	2.17	0.12	0.05	0.12	0.10	0.12	0.10	OL	OL	0.10	0.04	0.13	0.10	0.13	0.08	0.11	0.06
13-Jul-2018	1.27	1.48	0.14	0.06	0.12	0.11	0.13	0.10	0.11	0.06	0.11	0.04	OL	OL	0.14	0.11	0.11	0.07
14-Jul-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
15-Jul-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
16-Jul-2018	1.51	1.98	0.10	0.04	0.10	0.12	OL	OL	0.11	0.07	0.11	0.06	0.12	0.10	0.11	0.09	0.10	0.07
17-Jul-2018	1.70	1.70	0.12	0.04	0.11	0.13	0.10	0.09	OL	OL	0.10	0.05	0.15	0.14	0.13	0.11	0.11	0.08
18-Jul-2018	1.79	0.95	0.18	0.08	0.13	0.16	0.13	0.10	0.12	0.06	0.12	0.06	0.15	0.12	0.15	0.10	0.14	0.10
19-Jul-2018	1.65	1.58	0.11	0.04	OL	OL	0.14	0.11	0.12	0.08	0.12	0.06	0.13	0.13	0.11	0.10	0.15	0.12
20-Jul-2018	1.40	1.94	0.14	0.07	0.14	0.18	OL	OL	0.16	0.11	0.15	0.09	0.13	0.15	0.12	0.12	0.11	0.09
21-Jul-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
22-Jul-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
23-Jul-2018	2.10	1.03	0.11	0.07	OL	OL	0.14	0.12	0.11	0.09	0.10	0.05	0.11	0.16	0.11	0.11	0.13	0.12
24-Jul-2018	1.94	2.29	0.14	0.06	0.13	0.12	0.13	0.10	0.15	0.09	0.13	0.05	0.12	0.06	0.11	0.04	0.11	<0.02
25-Jul-2018	2.04	1.95	0.13	0.06	0.11	0.11	0.11	0.09	0.11	0.05	0.08	0.02	OL	OL	0.10	0.04	0.08	<0.02
26-Jul-2018	2.24	2.17	0.09	0.04	0.11	0.11	0.12	0.09	0.13	0.06	0.10	0.02	0.09	0.03	0.07	0.02	0.09	<0.02
27-Jul-2018	1.92	2.68	0.11	0.05	0.11	0.11	0.12	0.09	0.12	0.07	OL	OL	0.09	0.04	0.08	0.02	0.08	<0.02
28-Jul-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
29-Jul-2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
30-Jul-2018	1.99	2.40	0.10	0.04	0.10	0.09	0.12	0.08	0.12	0.06	OL	OL	0.09	0.04	0.08	0.02	0.09	<0.02
31-Jul-2018	1.85	2.23	0.10	0.05	0.10	0.10	0.10	0.09	0.09	0.05	0.07	0.02	OL	OL	0.09	0.04	0.07	<0.02
Total number of measurements taken, A:			20		17		17		19		19		17		20		21	
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:			20		17		17		19		19		17		20		21	
Compliance with Turbidity Standard, C= B/A X 100%:			100%		100%		100%		100%		100%		100%		100%		100%	

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

Comments:

NR: Not representative at time of sample.

Report Compiled By: H.Demchenko

Approved in LIMS By: C.Diduck

Date Approved: 7-Aug-18



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

Water System Code: **252.00**
Licence Number: **PWS-09-412-01**
Report Created: **01 August 2018**

Report Period: July 2018

Date	BRANCH 1 [mg/L]		BRANCH 2 [mg/L]	
	Average	Minimum	Average	Minimum
01/07/2018	0.93	0.86	0.97	0.90
02/07/2018	1.01	0.93	1.03	0.96
03/07/2018	1.07	0.95	1.04	0.95
04/07/2018	0.99	0.85	0.98	0.87
05/07/2018	0.95	0.86	0.93	0.86
06/07/2018	1.04	0.91	1.04	0.91
07/07/2018	1.08	0.96	1.22	1.10
08/07/2018	1.05	0.92	1.21	0.97
09/07/2018	1.15	1.03	1.13	1.04
10/07/2018	1.23	0.97	1.24	1.04
11/07/2018	1.01	0.92	1.07	0.97
12/07/2018	1.12	0.87	1.15	0.96
13/07/2018	1.06	0.90	1.11	0.99
14/07/2018	1.05	0.85	1.16	0.93
15/07/2018	1.25	1.04	1.30	0.99
16/07/2018	1.21	1.02	1.20	1.01
17/07/2018	1.32	1.03	1.33	1.03
18/07/2018	1.34	1.11	1.35	1.09
19/07/2018	1.31	1.14	1.30	1.13
20/07/2018	1.21	0.74	1.19	0.70
21/07/2018	1.37	1.15	1.42	1.13
22/07/2018	1.14	0.82	1.17	0.85
23/07/2018	1.20	1.07	1.27	1.16
24/07/2018	1.15	0.93	1.17	1.03
25/07/2018	1.15	0.99	1.20	1.10
26/07/2018	1.11	0.94	1.21	1.06
27/07/2018	1.23	1.09	1.25	1.17
28/07/2018	1.20	0.99	1.22	1.00
29/07/2018	1.32	1.15	1.31	1.25
30/07/2018	1.22	0.87	1.17	0.96
31/07/2018	1.21	1.02	1.25	1.05

Total Number of Measurements, A:	21593	21596
Minimum Free Chlorine Standard:	0.5	0.5
Number of Measurements Meeting Standard, B:	21593	21596

COMPLIANCE, C = B/A X 100%: 100.00 100.00

File Path: N:\Water Treatment Branch\Administration\Reports\Regulatory Submissions\Chlorine\2018\07-July

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		Deacon Booster Pumping Station Branch 1			Deacon Booster Pumping Station Branch 2		
Licence No. PWS-09-412-01							
Date	Free Chlorine (mg/L)		Total Chlorine (mg/L)	Free Chlorine (mg/L)		Total Chlorine (mg/L)	
	Analyser	Grab	Grab	Analyser	Grab	Grab	
01-Jul-2018	NA	NA	NA	NA	NA	NA	
02-Jul-2018	NA	NA	NA	NA	NA	NA	
03-Jul-2018	1.04	1.15	1.33	1.02	1.13	1.36	
04-Jul-2018	1.01	1.12	1.32	0.98	1.10	1.29	
05-Jul-2018	0.87	1.04	1.25	0.89	1.03	1.22	
06-Jul-2018	1.00	1.09	1.30	0.92	1.11	1.27	
07-Jul-2018	NA	NA	NA	NA	NA	NA	
08-Jul-2018	NA	NA	NA	NA	NA	NA	
09-Jul-2018	1.16	1.15	1.38	1.13	1.22	1.39	
10-Jul-2018	1.24	1.30	1.49	1.22	1.29	1.52	
11-Jul-2018	1.01	1.14	1.33	1.05	1.21	1.35	
12-Jul-2018	0.99	1.17	1.36	1.03	1.16	1.34	
13-Jul-2018	1.10	1.12	1.33	1.17	1.09	1.33	
14-Jul-2018	NA	NA	NA	NA	NA	NA	
15-Jul-2018	NA	NA	NA	NA	NA	NA	
16-Jul-2018	1.22	1.24	1.47	1.22	1.32	1.49	
17-Jul-2018	1.28	1.30	1.48	1.24	1.32	1.54	
18-Jul-2018	1.51	1.28	1.49	1.55	1.33	1.57	
19-Jul-2018	1.45	1.39	1.59	1.42	1.46	1.62	
20-Jul-2018	0.90	1.30	1.47	0.84	1.26	1.47	
21-Jul-2018	NA	NA	NA	NA	NA	NA	
22-Jul-2018	NA	NA	NA	NA	NA	NA	
23-Jul-2018	1.14	1.05	1.34	1.24	1.15	1.37	
24-Jul-2018	1.15	1.13	1.34	1.13	1.14	1.37	
25-Jul-2018	1.18	1.19	1.45	1.20	1.32	1.51	
26-Jul-2018	1.06	1.16	1.34	1.17	1.17	1.40	
27-Jul-2018	1.22	1.29	1.50	1.25	1.18	1.44	
28-Jul-2018	NA	NA	NA	NA	NA	NA	
29-Jul-2018	NA	NA	NA	NA	NA	NA	
30-Jul-2018	1.31	1.32	1.58	1.27	1.31	1.48	
31-Jul-2018	1.16	1.39	1.53	1.27	1.29	1.52	
Total number of measurements taken, A:		21			21		
Chlorine Standard for Monitoring Location (mg/L):		0.50			0.50		
Number of measurements meeting standard, B:		21			21		
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: 7-Aug-18



Water and Waste Department • Service des eaux et des déchets

Friday, August 3, 2018

Our Incident/Report No: 02-2018
LIMS Reference No: **9940**
Incident Date: **July 17, 2018**

Mr. Derek Clarke
Drinking Water Officer
Manitoba Sustainable Development, Office of Drinking Water
Box 6000
Gimli, MB R0C 1B0

RE: CORRECTIVE ACTION REPORT

WATER SYSTEM, CODE	Winnipeg Public Water System, 252.00
LOCATION OF NON-COMPLIANT INCIDENT	Winnipeg 3-Dist WC05
INCIDENT REPORTED BY	Renée Grosselle, Manager of Environmental Standards
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 until two consecutive negative results were reported. 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)	Turbidity-field (ntu)	Temperature (°C)	Time Sampled (hrs)
WC05	9940	17-Jul-18	<1	2	<1	0.72	0.96	0.38	15.2	10:30
WC05_Resample	11912	18-Jul-18	<1	<1	2	0.62	0.79	0.18	13.4	15:45
WC05_Resample 2	11913	19-Jul-18	<1	<1	<1	0.66	0.91	0.21	15.7	15:55

NOTES/COMMENTS:

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



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Friday, August 3, 2018

Our Incident/Report No: 03-2018
LIMS Reference No: **12128**
Incident Date: **July 25, 2018**

Mr. Derek Clarke
Drinking Water Officer
Manitoba Sustainable Development, Office of Drinking Water
Box 6000
Gimli, MB R0C 1B0

RE: CORRECTIVE ACTION REPORT

WATER SYSTEM, CODE	Winnipeg Public Water System, 252.00
LOCATION OF NON-COMPLIANT INCIDENT	Winnipeg 3-Dist SW11
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 until two consecutive negative results were reported. 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

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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)	Turbidity-field (ntu)	Temperature (°C)	Time Sampled (hrs)
SW11	12128	25-Jul-18	<1	1	<1	1.05	1.20	0.27	21.2	11:33
SW11_Resample	14424	26-Jul-18	<1	<1	<1	0.93	1.16	0.20	20.4	15:15
SW11_Resample Duplicate	14425	26-Jul-18	<1	<1	<1	NA	NA	NA	NA	15:15
SW11_Resample 2	14426	27-Jul-18	<1	<1	<1	0.92	1.15	0.19	21.8	15:21
SW11_Resample Duplicate 2	14427	27-Jul-18	<1	<1	<1	NA	NA	NA	NA	15:22

NOTES/COMMENTS:

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