



Kale Black, Sr. Drinking Water Officer
Office of Drinking Water, Manitoba Sustainable Development
309 – 25 Tupper Street North
Portage La Prairie, MB R1N 3K1

November 5, 2021

RE: CORRECTIVE ACTION REPORT FOR WINNIPEG PUBLIC WATER SYSTEM, 252.00

Incident No: CAR-12-2021

Reported to ODW: October 7, 2021

Reported by: Tim Shanks, Manager of Water Services

Approved by: Tim Shanks, Manager of Water Services

Incident Date: October 7, 2021

Incident Location: Winnipeg 3-Dist NW02_ Analyzer

Incident Type: Low Disinfectant Residual in Distribution System, 22(1) MR 40/2007

Description of Issue and Corrective Actions:

The online analyzer installed at the NW02 Distribution System Monitoring Location began measuring decreasing chlorine residuals starting at approximately 11:35am, measuring a minimum of 0.09 mg/L free chlorine at 12:25pm. Water Services contacted the ODW to report the free chlorine residual below 0.1 mg/L and dispatched an instrument technician to confirm the chlorine analyzer readings. The instrument technician checked the analyzer and it appeared to be working normally. A review of work in the area revealed that flow testing had been performed on the hydrant adjacent to the building at approximately 11:30am, the reduced flow and resulting discoloured water were determined to be the cause of the low chlorine residual.

Test Results: Grab sample @ Hydrant (8:30pm): free chlorine 0.71 mg/L; turbidity 1.69 NTU; total coliforms 0 MPN/100mL; *E. coli* 0 MPN/100mL

Reference No: L2649446

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

N:\Environmental Standards\Analytical Services\Government Agencies\Office of Drinking Water\Corrective Action Reports

West Kildonan Library Chlorine Analyzer Data

<u>Date Time</u>	<u>Value</u>
10/7/2021 11:00:27 AM	0.56254226
10/7/2021 11:05:27 AM	0.56254226
10/7/2021 11:10:27 AM	0.566315889
10/7/2021 11:15:27 AM	0.565864265
10/7/2021 11:20:27 AM	0.564352691
10/7/2021 11:25:27 AM	0.566467047
10/7/2021 11:30:27 AM	0.552460074
10/7/2021 11:35:27 AM	0.518333197
10/7/2021 11:40:27 AM	0.521135509
10/7/2021 11:45:27 AM	0.523172379
10/7/2021 11:50:27 AM	0.51462841
10/7/2021 11:55:27 AM	0.513057351
10/7/2021 12:00:27 PM	0.419417262
10/7/2021 12:05:27 PM	0.353748888
10/7/2021 12:10:27 PM	0.350752264
10/7/2021 12:15:27 PM	0.350752264
10/7/2021 12:20:27 PM	0.362451315
10/7/2021 12:25:27 PM	0.091499701
10/7/2021 12:30:27 PM	0.107529961
10/7/2021 12:35:27 PM	0.106842689
10/7/2021 12:40:27 PM	0.104825214
10/7/2021 12:45:27 PM	0.141698614
10/7/2021 12:50:27 PM	0.146417886
10/7/2021 12:55:27 PM	0.146417886
10/7/2021 1:00:27 PM	0.146491587
10/7/2021 1:05:27 PM	0.150024503
10/7/2021 1:10:27 PM	0.153188601
10/7/2021 1:15:27 PM	0.156229764
10/7/2021 1:20:27 PM	0.158615217
10/7/2021 1:25:27 PM	0.161247641
10/7/2021 1:30:27 PM	0.164462388
10/7/2021 1:35:27 PM	0.164462388
10/7/2021 1:40:27 PM	0.16861546
10/7/2021 1:45:27 PM	0.172497064
10/7/2021 1:50:27 PM	0.176465064
10/7/2021 1:55:27 PM	0.178340778
10/7/2021 2:00:27 PM	0.181591645

