

**Vermont Department of Environmental Conservation
Drinking Water and Groundwater Protection Division**

One National Life Drive - Main 2 [phone] 802-828-1535
Montpelier, VT 05620-3521 [fax] 802-828-1541
<http://dec.vermont.gov/water>

Agency of Natural Resources

Renaë Marshall
Hinesburg Water Dept
10632 Route 116
Hinesburg, VT 05461

October 2, 2018

Re: Error on 2017 Consumer Confidence Report template issued for WSID VT0005070

Dear Renaë Marshall,

It has recently come to our attention that there was an error on your 2017 Consumer Confidence Report (CCR) template which caused an incorrect Maximum Contaminant Level (MCL) for gross alpha to be shown in the radionuclides detected contaminants table. Your system is one of 36 systems impacted by this error in the coding behind creation of the CCR templates. The entry for 'gross alpha including radon and uranium' with an MCL of 10 picocuries per liter (pCi/L) is incorrect. The MCL should have been listed as 15 pCi/L and the results are for gross alpha particle activity, not "gross alpha including radon and uranium".

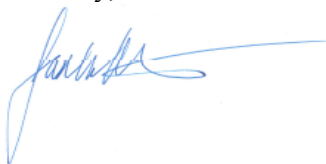
The MCL of 15 pCi/L applies to adjusted gross alpha (including radium 226 but excluding radon and uranium). To compare your gross alpha particle activity result to the adjusted gross alpha MCL of 15 pCi/L, a separate uranium result is required, and a calculation is done to attain the adjusted gross alpha value. The adjustment calculation is not performed by the laboratory. Adjusted gross alpha is calculated by converting uranium mass (in µg/L) to activity (in pCi/L) and then subtracting the uranium activity from the gross alpha particle activity result. If there are no uranium results and the gross alpha particle activity is below 10 pCi/L, an estimated uranium concentration was determined.

To clarify this issue, we are providing an addendum with a revised table for you to distribute to users. Please distribute this addendum on or before November 2, 2018.

Please contact Jeff Girard, Compliance and Certification Manager, at jeff.girard@vermont.gov, 802-585-0314 if you have further questions about the CCR.

If you have further questions regarding the adjusted gross alpha calculation, please contact me at janelle.wilbur@vermont.gov, 802-585-4898.

Sincerely,



Janelle S. Wilbur
Chemical Contaminant Rule Manager, DWGWPD

Enclosed: Corrected Radionuclides Contaminant Table from 2017 CCR
cc: Erik Bailey, Designated Operator
WSID File 5070

We had an error in the reporting of radionuclides in the Consumer Confidence Report you received this year. Please see the revised table below.

Detected Radionuclide Contaminants HINESBURG WATER DEPT

Radionuclides	Collection Date	Highest Value	Range	Unit	MCL	MCLG	Typical Source
Combined Radium	01/18/2017	3.74	3.74 - 3.74	pCi/L	5	0	Erosion of natural deposits
Gross Alpha Particle Activity*	01/18/2017	11.60	11.6 - 11.6	pCi/L	NA	0	Erosion of natural deposits
Radium-226	01/18/2017	3.74	3.74 - 3.74	pCi/L	5	0	Erosion of natural deposits

*The EPA has set a maximum contaminant level (MCL) for adjusted gross alpha at 15 pCi/L. Comparison of the gross alpha particle activity result to the MCL requires a separate uranium result and an adjustment calculation, when levels are high enough. Adjusted gross alpha is a value derived by converting uranium mass to activity and subtracting the uranium activity from the gross alpha particle activity result.

Additional resources regarding gross alpha, substitution, and monitoring requirements within the Radionuclides Rule can be found at the following websites:

<https://www.epa.gov/dwreginfo/radionuclides-rule>

<http://www.healthvermont.gov/health-environment/drinking-water/radioactive-elements>

https://www.epa.gov/sites/production/files/2015-09/documents/monitoring_kevin_keenon.pdf