BLUE VALLEY MD 2016 Drinking Water Quality Report For Calendar Year 2015

Public Water System ID: CO0125148

Esta es información importante. Si no la pueden leer, necesitan que alguien se la traduzca.

We are pleased to present to you this year's water quality report. Our constant goal is to provide you with a safe and dependable supply of drinking water. To receive a copy of this report, billing information, administrative assistance, permits, tap fees and to attend scheduled public meetings please call **Blue Valley Metropolitan District at 970-724-3502**. For water quality information, operations and emergencies please contact **Water Solutions, Inc. at 970-262-0217**.

General Information

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791) or by visiting http://water.epa.gov/drink/contaminants.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV-AIDS or other immune system disorders, some elderly, and infants can be particularly at risk of infections. These people should seek advice about drinking water from their health care providers. For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and microbiological contaminants call the EPA Safe Drinking Water Hotline at (1-800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Contaminants that may be present in source water include:

- •Microbial contaminants: viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- •Inorganic contaminants: salts and metals, which can be naturallyoccurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- •Pesticides and herbicides: may come from a variety of sources, such as agriculture, urban stormwater runoff, and residential uses.
- •Radioactive contaminants: can be naturally occurring or be the result of oil and gas production and mining activities.
- •Organic chemical contaminants: including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and also may come from gas stations, urban storm water runoff, and septic systems.

In order to ensure that tap water is safe to drink, the Colorado Department of Public Health and Environment prescribes regulations limiting the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

Lead in Drinking Water

If present, elevated levels of lead can cause serious health problems (especially for pregnant women and young children). It is possible that lead levels at your home may be higher than other homes in the community as a result of materials used in your home's plumbing. If you are concerned about lead in your water, you may wish to have your water tested. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. Additional information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at http://www.epa.gov/safewater/lead.

Source Water Assessment and Protection (SWAP)

The Colorado Department of Public Health and Environment has provided us with a Source Water Assessment Report for our water supply. For general information or to obtain a copy of the report please visit http://wqcdcompliance.com/ccr. The report is located under "Source Water Assessment Reports", and then "Assessment Report by County". Select GRAND County and find 125148; BLUE VALLEY MD or by contacting MATTHEW WILLITTS at 970-262-0217. The Source Water Assessment Report provides a screening-level evaluation of potential contamination that *could* occur. It does not mean that the contamination has or will occur. We can use this information to evaluate the need to improve our current water treatment capabilities and prepare for future contamination threats. This can help us ensure that quality finished water is delivered to your homes. In addition, the source water assessment results provide a starting point for developing a source water protection plan. Potential sources of contamination in our source water area are listed on the next page.

Please contact us to learn more about what you can do to help protect your drinking water sources, any questions about the Drinking Water Consumer Confidence Report, to learn more about our system, or to attend scheduled public meetings. We want you, our valued customers, to be informed about the services we provide and the quality water we deliver to you every day.

Our Water Sources

<u>Source</u>	Source Type	Water Type	Potential Source(s) of Contamination
INF GAL	Well	Groundwater UDI Surface Water	existing/abandoned mine sites, row crops, pasture/hay, deciduous, evergreen and mixed forests, septic systems and road miles

Terms and Abbreviations

- Maximum Contaminant Level (MCL) The highest level of a contaminant allowed in drinking water.
- Treatment Technique (TT) A required process intended to reduce the level of a contaminant in drinking water.
- Action Level (AL) The concentration of a contaminant which, if exceeded, triggers treatment and other regulatory requirements.
- Maximum Residual Disinfectant Level (MRDL) The highest level of a disinfectant allowed in drinking water. There
 is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- Maximum Contaminant Level Goal (MCLG) The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfectant Level Goal (MRDLG) The level of a drinking water disinfectant, below which there
 is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial
 contaminants.
- Violation (No Abbreviation) Failure to meet a Colorado Primary Drinking Water Regulation.
- **Formal Enforcement Action (No Abbreviation)** Escalated action taken by the State (due to the risk to public health, or number or severity of violations) to bring a non-compliant water system back into compliance.
- Variance and Exemptions (V/E) Department permission not to meet a MCL or treatment technique under certain conditions.
- Gross Alpha (No Abbreviation) Gross alpha particle activity compliance value. It includes radium-226, but excludes radon 222, and uranium.
- **Picocuries per liter (pCi/L)** Measure of the radioactivity in water.
- **Nephelometric Turbidity Unit (NTU)** Measure of the clarity or cloudiness of water. Turbidity in excess of 5 NTU is just noticeable to the typical person.
- Compliance Value (No Abbreviation) Single or calculated value used to determine if regulatory contaminant level (e.g. MCL) is met. Examples of calculated values are the 90th Percentile, Running Annual Average (RAA) and Locational Running Annual Average (LRAA).
- **Average (x-bar)** Typical value.
- Range (R) Lowest value to the highest value.
- Sample Size (n) Number or count of values (i.e. number of water samples collected).
- Parts per million = Milligrams per liter (ppm = mg/L) One part per million corresponds to one minute in two years or a single penny in \$10,000.
- Parts per billion = Micrograms per liter (ppb = ug/L) One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- Not Applicable (N/A) Does not apply or not available.

Detected Contaminants

BLUE VALLEY MD routinely monitors for contaminants in your drinking water according to Federal and State laws. The following table(s) show all detections found in the period of January 1 to December 31, 2015 unless otherwise noted. The State of Colorado requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. Therefore, some of our data, though representative, may be more than one year old. Violations and Formal Enforcement Actions, if any, are reported in the next section of this report.

Note: Only detected contaminants sampled within the last 5 years appear in this report. If no tables appear in this section then no contaminants were detected in the last round of monitoring.

	Lead and Copper Sampled in the Distribution System										
Contaminant Name	Time Period	90 th Percentile	Sample Size	Unit of Measure	90 th Percentile AL	Sample Sites Above AL	90 th Percentile AL Exceedance	Typical Sources			
Copper	08/14/2014 to 08/19/2014	0.3	5	ppm	1.3	0	No	Corrosion of household plumbing systems; Erosion of natural deposits			
Lead	08/14/2014 to 08/19/2014	5	5	ppb	15	0	No	Corrosion of household plumbing systems; Erosion of natural deposits			

	Disinfection Byproducts Sampled in the Distribution System										
Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	Highest Compliance Value	MCL Violation	Typical Sources	
Total Haloacetic Acids (HAA5)	2015	14	14 to 14	1	ppb	60	N/A	14	No	Byproduct of drinking water disinfection	
Total Trihalome thanes (TTHM)	2015	23	23 to 23	1	ppb	80	N/A	23	No	Byproduct of drinking water disinfection	

	Summary of Turbidity Sampled at the Entry Point to the Distribution System									
Contaminant Name	Sample Date	Level Found	TT Requirement	TT Violation	Typical Sources					
Turbidity	Date/Month: Feb	Highest single measurement: 0.47 NTU	Maximum 5 NTU for any single measurement	No	Soil Runoff					
Turbidity	Month: Dec	Lowest monthly percentage of samples meeting TT requirement for our technology: 100 %	In any month, at least 95% of samples must be less than 1 NTU	No	Soil Runoff					

	Radionuclides Sampled at the Entry Point to the Distribution System										
Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources		
Gross Alpha	2011	1	1 to 1	1	pCi/L	15	0	No	Erosion of natural deposits		
Combined Radium	2011	0.2	0.2 to 0.2	1	pCi/L	5	0	No	Erosion of natural deposits		
Combined Uranium	2011	1	1 to 1	1	ppb	30	0	No	Erosion of natural deposits		

	Inorganic Contaminants Sampled at the Entry Point to the Distribution System										
Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources		
Barium	2015	0.1	0.1 to 0.1	1	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits		
Fluoride	2015	0.4	0.4 to 0.4	1	ppm	4.0	4.0	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories		
Nitrate	2015	0.1	0.1 to 0.1	1	ppm	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits		

Secondary Contaminants**

**Secondary standards are <u>non-enforceable</u> guidelines for contaminants that may cause cosmetic effects (such as skin, or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water.

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	Secondary Standard
Total Dissolved Solids	2011	232	232 to 232	1	ppm	500
Dichloroacetic Acid	2015	7.1	7.1 to 7.1	1	N/A	

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Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	Secondary Standard
Trichloroacetic Acid	2015	7	7 to 7	1	N/A	
Sodium	2015	9	9 to 9	1	ppm	N/A

Violations, Significant Deficiencies, and Formal Enforcement Actions

Our water system had a routine sanitary survey inspection on March 11, 2016. The sanitary survey identified that the water supplier did not maintain calibration logs, was not calibrating, verifying or operating turbidity monitoring analytical equipment in accordance with manufacturer requirements. We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. During compliance period starting July 1, 2015 until June 7, 2016, we did not perform required quarterly calibration of the turbidity monitoring analytical equipment, and therefore cannot be sure of the quality of your drinking water during that time.

Although this is not an emergency, as our customers you have the right to know what happened, what you should do and what we are doing to correct the this situation. The manufacturer of the water supplier's turbidity monitoring analytical equipment recommends quarterly calibration of this equipment and the water system was calibrating this equipment yearly. There is no action required by the customer and the water can be consumed. The water system has contracted with the manufacturer of the turbidity monitoring analytical equipment to have this equipment calibrated quarterly in accordance with the manufacturer recommendation. The equipment has been calibrated by a factory technician on June 7, 2016 and is now scheduled for quarterly calibration.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

For more information regarding the sanitary survey inspection's findings, please contact Water Solutions, Inc. at 970-262-0217.