

# Bottled Water Quality Report for Berkshire Springs Inc.

## 2016 v.1.0

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### **INTRODUCTION**

Our bottled water meets all federal and state health standards. The United States Food and Drug Administration (FDA) regulates bottled water as a food product whereas the US Environmental Protection Agency (EPA) regulates tap water as provided by water utilities. Standards of quality enacted by the FDA for bottled water must be as protective of the public health as EPA's standards (known as Maximum Contaminant Levels (MCL)) for tap water. Ensuring the safety of the water is our primary objective in providing our product to the consumer.

### **OUR SOURCE FOR OUR WATER**

Berkshire Springs Inc.'s bottling facility uses protected spring sources for our spring water product. These springs have, for centuries, brought water from a protected underground aquifer to the surface. The water in these aquifers begins as rain and snow high up in the hills and it remains underground until we bring it to the surface. Layers of solid rock and clay provide an impervious (not-passable) protective cover for the aquifer water. These source waters are completely safe to drink. We test our sources regularly to verify that they are of extremely high quality.

### **HOW BOTTLED WATER IS PREPARED**

Bottled water is protected by a multi-barrier approach which may include steps such as source protection and monitoring, and treatment such as reverse osmosis, micron filtration, distillation, ozonation, the application of ultraviolet light or other appropriate processing measures. Bottled water products labeled as spring water, well water, artesian water and mineral water must come from protected sources which are monitored frequently. Bottled water may also come from treated municipal supplies. IBWA member companies using municipal sources employ processing methods, such as reverse osmosis, micron filtration, distillation and/or ozonation to remove any chemical and microbiological contaminants, including Cryptosporidium. IBWA members, regardless of their source type, use a variety of practices to ensure the safety and high quality of their products.

As our Berkshire Mountain Spring Water comes from such well-protected and rigorously monitored sources, we can keep our processing of our products to a minimum. We pass our pure natural spring water through a multiple stage filtration system extracting sediment and suspended particles down to 0.5 microns in size. Our Spring Water has less than 0.48 milligrams of sodium per 8 ounce serving.

All of our bottled water products are ozonated. We use ozone as a sanitizing agent instead of chlorine because it leaves no residual. Furthermore it does not cause a taste or odor problem. Ozone is oxygen (O<sub>3</sub> to be exact) which is bubbled through the water just before it goes into a

clean, sanitized bottle. Within a few hours after the bottle has been filled and capped, the ozone dissipates or converts back to the same form of oxygen that we breathe (O<sub>2</sub>).

**TABLE 1: BERKSHIRE MOUNTAIN SPRING WATER MINERAL ANALYSIS**

<b>General Mineral Analysis</b>	<b>Berkshire Mountain Spring Water</b>
Calcium	20 mg/L
Chloride	4.0 mg/L
Fluoride	<0.1 mg/L
Magnesium	7.40 mg/L
Potassium	2.7 mg/L
Sodium	2.0 mg/L
Sulfate	8.2 mg/L
Total Dissolved Solids	110 mg/L
Alkalinity	76 mg/L CaCO <sub>3</sub>
Specific Conductance	190 umhos/cm at 25C
pH	7.6
Sodium per 8oz. Serving	<0.475 mg

## OUR COMPANY'S WATER TESTING

Our company regularly tests for 64 organic chemicals and 41 inorganic chemicals/parameters that are regulated by the FDA. As an extra safeguard we also test for 59 unregulated contaminants. No contaminant was detected above FDA's limits in our testing as demonstrated by Table 2. There have been no violations of any Standard of Quality promulgated by the FDA, EPA, IBWA or any of the states we serve. This testing was performed for Berkshire Springs Inc. between February 23rd and March 18th, 2016 by National Testing Laboratories Ltd (NTL) of Ypsilanti MI. NTL is an internationally recognized independent testing facility whose labs are certified in multiple states including Connecticut, Pennsylvania, New Jersey and New York, (NVELAP# 11467).

**TABLE 2: BERKSHIRE MOUNTAIN SPRING WATER SOURCE ANALYSIS**  
*(All values reported in mg/L except as noted)*

<b>Product&gt;</b>	<b>Spring Water</b>	<b>Detection Limit</b>	<b>FDA SOQ</b>
<u>Inorganic Chemicals</u>			
Antimony	ND	0.003	0.006
Arsenic	ND	0.002	0.01
Barium	ND	0.1	2
Beryllium	ND	0.001	0.004
Cadmium	ND	0.001	0.005
Chromium	ND	0.007	0.1
Cyanide	ND	0.02	0.1
Fluoride	ND	0.1	4

<b>Product&gt;</b>	<b>Spring Water</b>	<b>Detection Limit</b>	<b>FDA SOQ</b>
<u>Inorganic Chemicals (cont.)</u>			
Lead	ND	0.001	0.015
Nickel	ND	0.005	
Nitrate-N	0.11	0.05	10
Nitrite-N	ND	0.05	1
Total Nitrate + Nitrite	0.11	0.05	10
Selenium	ND	0.002	0.05
Thallium	ND	0.001	0.002
<u>Secondary Inorganic Parameters</u>			
Aluminum	ND	0.005	0.2
Asbestos	ND	0.18 MFL	7 MFL
Bromide	ND	0.005	No standard
Chloride	4.0	1.0	250
Copper	ND	0.002	1.0
Foaming Agent	ND	0.1	0.5
Iron	ND	0.02	0.3
Manganese	ND	0.004	0.05
Silver	ND	0.002	0.10
Sulfate	8.2	5.0	250
Total Dissolved Solids (TDS)	110	5	500
Uranium	ND	0.001	0.03
Zinc	ND	0.004	5

<b>Product&gt;</b>	<b>Spring Water</b>	<b>Detection Limit</b>	<b>Lowest SOQ</b>
<u>Volatile Organic Chemicals</u>			
1,1,1-Trichloroethane	ND	0.0005	0.2
1,1,2-Trichloroethane	ND	0.0005	0.005
1,1-Dichloroethene	ND	0.0005	0.007
1,2,4-Trichlorobenzene	ND	0.0005	0.07
1,2-Dichloroethane	ND	0.0005	0.005
Benzene	ND	0.0005	0.005
Carbon tetrachloride	ND	0.0005	0.005
cis-1,2-Dichloroethene	ND	0.0005	0.07
trans-1,2-Dichloroethene	ND	0.0005	0.1
Ethylbenzene	ND	0.0005	0.7
Methylene chloride (Dichloromethane)	ND	0.0005	0.005
Methyl tertiary butyl ether (MTBE)	ND	0.0005	
Chlorobenzene	ND	0.0005	0.1
1,2-Dichlorobenzene	ND	0.0005	0.6
1,4-Dichlorobenzene	ND	0.0005	0.075
Styrene	ND	0.0005	0.1
Tetrachloroethene	ND	0.0005	0.005
Toluene	ND	0.0005	1
Trichloroethene	ND	0.0005	0.005
Vinyl chloride	ND	0.0005	0.002

<b>Product&gt;</b>	<b>Spring Water</b>	<b>Detection Limit</b>	<b>Lowest SOQ</b>
<u>Volatile Organic Chemicals (cont.).</u>			
Xylenes (total)	ND	0.0005	10
Bromodichloromethane	ND	0.0005	No standard
Dibromochloromethane	ND	0.0005	No standard
Chloroform	ND	0.0005	No standard
Bromoform	ND	0.0005	No standard
Total Trihalomethanes	ND	0.0005	0.08
<u>Semivolatile Organic Chemicals</u>			
Benzo(a)pyrene	ND	0.0002	0.0002
Di(2-ethylhexyl)adipate	ND	0.0002	0.4
Di(2-ethylhexyl)phthalate	ND	0.0006	0.006
Hexachlorobenzene	ND	0.0001	0.001
Hexachlorocyclopentadiene	ND	0.0001	0.05
Total Recoverable Phenolics	ND	0.001	
<u>Synthetic Organic Chemicals</u>			
2,4,5-TP (Silvex)	ND	0.0002	0.05
2,4-D	ND	0.0001	0.07
Alachlor	ND	0.0002	0.002
Aldicarb	ND	0.001	0.007
Aldicarb sulfone	ND	0.001	0.007
Aldicarb sulfoxide	ND	0.001	0.007
Atrazine	ND	0.0001	0.003
Carbofuran	ND	0.001	0.04

<b>Product&gt;</b>	<b>Spring Water</b>	<b>Detection Limit</b>	<b>FDA SOQ</b>
<u>Synthetic Organic Chemicals (cont.)</u>			
Chlordane	ND	0.0001	0.002
Dalapon	ND	0.001	0.2
1, 2-Dibromo-3-chloropropane (DBCP)	ND	0.00001	0.0002
Dinoseb	ND	0.0002	0.007
Dioxin (2,3,7,8-TCDD)	ND	5pg/L	30pg/L
Diquat	ND	0.001	0.02
Endothall	ND	0.009	0.1
Endrin	ND	0.0002	0.002
Ethylene dibromide (1,2-Dibromoethane)	ND	0.00001	0.00005
Glyphosate	ND	0.006	0.7
Heptachlor	ND	0.00001	0.0004
Heptachlor epoxide	ND	0.00001	0.0002
Lindane	ND	0.00002	0.0002
Methoxychlor	ND	0.0001	0.04
Oxamyl (vydate)	ND	0.001	0.2
Pentachlorophenol	ND	0.00004	0.001
Picloram	ND	0.0001	0.5
Polychlorinated biphenyls (PCBs)	ND	0.0005	0.0005
Simazine	ND	0.0001	0.004
Toxaphene	ND	0.001	0.003

<b>Product&gt;</b>	<b>Spring Water</b>	<b>Detection Limit</b>	<b>Lowest SOQ</b>
<u>Water Properties</u>			
Color	ND	3.0	15
Corrosivity	-0.6		
Turbidity	ND	0.1 NTU	1 NTU
pH	7.6	0.01 SU	6.5-8.5 SU
Odor	ND	1 T.O.N.	3 T.O.N.
<u>Radiological Contaminants</u>			
Gross alpha	-0.186(0.477)		15 pCi/L
Gross beta	2.08(1.02)		50 pCi/L
Radium 226	-0.222(0.267)		5
Radium 228	0.355(0.377)		5
<u>Microbiological Contaminants</u>			
Total Coliform	ND	1 CFU/ml	1 CFU/ml
Heterotrophic Plate Count	ND	1 CFU/ml	500 CFU/ml
Cryptosporidium parvum	ND	Presence	No standard
Giardia lamblia	ND	Presence	No standard



<b>Product&gt;</b>	<b>Spring Water</b>	<b>Detection Limit</b>	<b>Lowest SOQ</b>
<u>Unregulated Contaminants (IBWA template list)</u>			
Dibromomethane	ND	0.0005	No standard
1,3-Dichlorobenzene	ND	0.0005	No standard
1,1-Dichloropropene	ND	0.0005	No standard
1,1-Dichloroethane	ND	0.0005	No standard
1,1,2,2-Tetrachloroethane	ND	0.0005	No standard
1,3-Dichloropropane	ND	0.0005	No standard
Chloromethane	ND	0.0005	No standard
Bromomethane	ND	0.0005	No standard
1,2,3-Trichloropropane	ND	0.0005	No standard
1,1,1,2-Tetrachloroethane	ND	0.0005	No standard
Chloroethane	ND	0.0005	No standard
2,2-Dichloropropane	ND	0.0005	No standard
2-Chlorotoluene	ND	0.0005	No standard
4-Chlorotoluene	ND	0.0005	No standard
Bromobenzene	ND	0.0005	No standard
trans-1,3-Dichloropropene	ND	0.0005	No standard
1,2,4-Trimethylbenzene	ND	0.0005	No standard
1,2,3-Trichlorobenzene	ND	0.0005	No standard
Propylbenzene	ND	0.0005	No standard
n-Butylbenzene	ND	0.0005	No standard
Naphthalene	ND	0.0005	No standard

<b>Product&gt;</b>	<b>Spring Water</b>	<b>Detection Limit</b>	<b>FDA SOQ</b>
<u>Unregulated Contaminants (IBWA template list)</u>			
Hexachlorobutadiene	ND	0.0005	No standard
1,3,5-Trimethylbenzene	ND	0.0005	No standard
4-Isopropyltoluene	ND	0.0005	No standard
Isopropylbenzene	ND	0.0005	No standard
tert-Butylbenzene	ND	0.0005	No standard
sec-Butylbenzene	ND	0.0005	No standard
Trichlorofluoromethane	ND	0.0005	No standard
Dichlorodifluoromethane	ND	0.0005	No standard
Bromochloromethane	ND	0.0005	No standard
<u>Other unregulated Contaminants</u>			
Methomyl	ND	0.001	
Carbaryl	ND	0.001	
3-Hydroxycarbofuran	ND	0.001	
Dicamba	ND	0.0001	
Bentazon	ND	0.0002	
Molinate	ND	0.0002	
Propachlor	ND	0.0002	
Metribuzin	ND	0.0002	
Metolachlor	ND	0.0002	
Thiobencarb	ND	0.0002	
Aldrin	ND	0.00007	

<b>Product&gt;</b>	<b>Spring Water</b>	<b>Detection Limit</b>	<b>FDA SOQ</b>
<u>Other unregulated Contaminants (cont.)</u>			
Butachlor	ND	0.0002	
Dieldrin	ND	0.00002	
Trichlorotrifluoroethane	ND	0.0005	
Perchlorate	0.00005	0.00005	Ma 0.002

ND = Not detected © 1999 - 2004 IBWA