

## James & James Environmental 3801 Asheville Highway Hendersonville, NC 828-697-0063

To our valued customers,

The Annual Drinking Water Quality Report for 2022 will not be distributed to each customer, but a copy is available upon request. Contact your water system representative, JAMES & JAMES ENVIRONMENTAL at 828-697-0063.

El Informe Anual de Calidad de Agua Potable (Informe de Confianza Del Consumidor) del año 2022 no se distribuirá a cada cliente, pero puede obtener una copia si la pide. Contacte al representante de su compañía de agua, JAMES & JAMES ENVIRONMENTAL al 828-697-0063 para pedir una copia.

Thank you,

Ashley Ogle

Office Manager

James & James Environmental

828-697-0063

a.ogleofficemgr@jjemi.net

### 2022 Consumer Confidence Report (CCR) Certification Form

Water System Name: TOWN OF HOT SPRINGS	
Water System No.: NC <u>01-58-020</u> Report Year: <u>20</u>	22_ Population Served: <u>887</u>
The Community Water System (CWS) named above here and 142 requiring the development of, distribution of, a been executed. Further, the CWS certifies the informati with the compliance monitoring data previously submitt laboratory. In addition, if this report is being used to me by the checked box below, the CWS certifies that public accordance with the requirements of 40 CFR 141.204(d)	nd notification of a consumer confidence report have ion contained in the report is correct and consistent ed to the primacy agency by their NC certified eet Tier 3 Public Notification requirements, as denoted notification has been provided to its consumers in
Certified by: Name: Abigail Norton	Title: Mayor, Town of Hot Springs
Signature: Abigail Norton  Abigail Norton (May 23, 2023 12:29 EDT)	Phone #: 828-622-7591
Delivery Achieved Date:	Date Reported to State:
☐ The CCR includes the mandated Tier 3 Public Notice	ce for a monitoring/reporting violation (check box, if yes).
Check <b>all</b> methods used for distribution (see instructions	s on back for delivery requirements and methods):
☐ Paper copy to all ☐ US Mail ☐ H	and Delivery
■ Notification of availability of paper copy (Provide	e a copy of the notice.)
_	(i.e., US Mail, door hanger)
☐ Notification of CCR URL (must be direct URL):	
	(i.e., on bill, bill stuffer, separate mailing, email)
☐ Direct email delivery of CCR ☐ Attached	
Notification Method	(i.e., on bill, bill stuffer, separate mailing)
	Date Published:
	(i.e., on bill, bill stuffer, separate mailing, email)
paying consumers such as industry employees, a following methods:	ove required methods) were used to reach non-bill partment tenants, etc. Extra efforts included the
☐ mailing the CCR to postal patrons within	the service area
$\hfill\Box$ advertising the availability of the CCR in r	news media (attach copy of announcement)
☐ publication of the CCR in local newspape	r (attach copy of newspaper)
$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	(attach list if needed)
$\ \ \square$ delivering multiple copies to single bill ad	Idresses serving several persons such as: apartments,
businesses, and large private employers	
<ul> <li>delivery to community organizations such</li> </ul>	n as: (attach list if needed)

<u>Note</u>: Use of social media (e.g., Twitter or Facebook) or automated phone calls DO NOT meet existing CCR distribution methods under the Rule.

## 2022 Annual Drinking Water Quality Report

"Town of Hot Springs"
Water System Number: "01-58-020"

# Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

We are pleased to present to you this year's Annual Drinking Water Quality Report. This report is a snapshot of last year's water quality. Included are details about your source(s) of water, what it contains, and how it compares to standards set by regulatory agencies. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water and to providing you with this information because informed customers are our best allies. If you have any questions about this report or concerning your water, please contact James & James Environmental at (828) 697-0063. We want our valued customers to be informed about their water utility.

#### What EPA Wants You to Know

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 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 (800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised 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 from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. [Name of Utility] is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. 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. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

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, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife; inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming; pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses; organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems; and radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

#### When You Turn on Your Tap, Consider the Source

The water that is used by this system is Ground Water and is located at 186 Bridge St. in Hot Springs, NC.

#### Source Water Assessment Program (SWAP) Results

The North Carolina Department of Environmental Quality (DEQ), Public Water Supply (PWS) Section, Source Water Assessment Program (SWAP) conducted assessments for all drinking water sources across North Carolina. The purpose of the assessments was to determine the susceptibility of each drinking water source (well or surface water intake) to Potential Contaminant Sources (PCSs). The results of the assessment are available in SWAP Assessment Reports that include maps, background information and a relative susceptibility rating of Higher, Moderate or Lower.

The relative susceptibility rating of each source for Town of Hot Springs was determined by combining the contaminant rating (number and location of PCSs within the assessment area) and the inherent vulnerability rating (i.e., characteristics or existing conditions of the well or watershed and its delineated assessment area). The assessment findings are summarized in the table below:

Susceptibility of Sources to Potential Contaminant Sources (PCSs)

Source Name	Susceptibility Rating	SWAP Report Date
Well # 1	Moderate	September 2020
Well #2	Moderate	September 2020

The complete SWAP Assessment report for Town of Hot Springs may be viewed on the Web at: <a href="https://www.ncwater.org/?page=600">https://www.ncwater.org/?page=600</a> Note that because SWAP results and reports are periodically updated by the PWS Section, the results available on this web site may differ from the results that were available at the time this CCR was prepared. If you are unable to access your SWAP report on the web, you may mail a written request for a printed copy to: Source Water Assessment Program – Report Request, 1634 Mail Service Center, Raleigh, NC 27699-1634, or email requests to swap@ncdenr.gov. Please indicate your system name, number, and provide your name, mailing address and phone number. If you have any questions about the SWAP report please contact the Source Water Assessment staff by phone at 919-707-9098.

It is important to understand that a susceptibility rating of "higher" <u>does not</u> imply poor water quality, only the system's potential to become contaminated by PCSs in the assessment area.

#### **Help Protect Your Source Water**

Protection of drinking water is everyone's responsibility. We have implemented the following source water protection actions: You can help protect your community's drinking water source(s) in several ways: (examples: dispose of chemicals properly; take used motor oil to a recycling center, volunteer in your community to participate in group efforts to protect your source, etc.).

#### Violations that Your Water System Received for the Report Year

During 2022, or during any compliance period that ended in 2022, we received NO violation that covered the time period of 2022.

#### **Important Drinking Water Definitions:**

- o Not-Applicable (N/A) Information not applicable/not required for that particular water system or for that particular rule.
- o *Non-Detects (ND)* Laboratory analysis indicates that the contaminant is not present at the level of detection set for the particular methodology used.
- o *Parts per million (ppm) or Milligrams per liter (mg/L)* One part per million corresponds to one minute in two years or a single penny in \$10,000.
- o *Parts per billion (ppb) or Micrograms per liter (ug/L)* One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- o *Parts per trillion (ppt) or Nanograms per liter (nanograms/L)* One part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

- o *Parts per quadrillion (ppq) or Picograms per liter (picograms/L)* One part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000.
- o *Picocuries per liter (pCi/L)* Picocuries per liter is a measure of the radioactivity in water.
- Million Fibers per Liter (MFL) Million fibers per liter is a measure of the presence of asbestos fibers that are longer than 10 micrometers.
- Nephelometric Turbidity Unit (NTU) Nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.
- Variances and Exceptions State or EPA permission not to meet an MCL or Treatment Technique under certain conditions.
- Action Level (AL) The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- Treatment Technique (TT) A required process intended to reduce the level of a contaminant in drinking water.
- *Maximum Residual Disinfection 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 Residual Disinfection 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.
- Locational Running Annual Average (LRAA) The average of sample analytical results for samples taken at a particular
  monitoring location during the previous four calendar quarters under the Stage 2 Disinfectants and Disinfection Byproducts
  Rule.
- **Running Annual Average (RAA)** The average of sample analytical results for samples taken during the previous four calendar quarters.
- Level 1 Assessment A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
- Level 2 Assessment A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
- > Maximum Contaminant Level (MCL) The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- > 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.

#### **Water Quality Data Tables of Detected Contaminants**

We routinely monitor for over 150 contaminants in your drinking water according to Federal and State laws. The tables below list all the drinking water contaminants that we <u>detected</u> in the last round of sampling for each particular contaminant group. The presence of contaminants does <u>not</u> necessarily indicate that water poses a health risk. **Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2022.** The EPA and the State allow 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. Some of the data, though representative of the water quality, is more than one year old.

#### **Inorganic Contaminants**

Contaminant (units)	taminant (units)  Sample Date  NCL Your Range Water		N	MCLG MC		Likely Source of Contamination		
	Date	Y/N	water	Low H	igh			•
Antimony (ppb)	9/15/2022	N	ND	NA		6	6	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic (ppb)	9/15/2022	N	ND	NA		0	10	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium (ppm)	9/15/2022	N	0.060	NA		2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Beryllium (ppb)	9/15/2022	N	ND	NA		4	4	Discharge from metal refineries and coal- burning factories; discharge from electrical, aerospace, and defense industries
Cadmium (ppb)	9/15/2022	N	ND	NA		5	5	Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff from waste batteries and paints
Chromium (ppb)	9/15/2022	N	ND	NA		100	100	Discharge from steel and pulp mills; erosion of natural deposits
Cyanide (ppb)	9/15/2022	N	ND	NA		200	200	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride (ppm)	9/15/2022	N	0.22	NA		4	4	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Mercury (inorganic) (ppb)	9/15/2022	N	ND	NA		2	2	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills; runoff from cropland
Selenium (ppb)	9/15/2022	N	ND	NA		50	50	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
Thallium (ppb)	9/15/2022	N	ND	NA		0.5	2	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

#### **Nitrate/Nitrite Contaminants**

Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range Low High	MCLG	MCL	Likely Source of Contamination			
Nitrate (as Nitrogen) (ppm)	2/7/2022	N	ND	N/A	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits			

<u>Nitrate</u>: Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health care provider.

nthetic Organic Chemical (SOC) Contaminants Including Pesticides and Herbicides											
Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range Low High	MCLG	MCL	Likely Source of Contamination				
2,4-D (ppb)	10/26/22	N	ND	NA	70	70	Runoff from herbicide used on row crops				
2,4,5-TP (Silvex) (ppb)	10/26/22	N	ND	NA	50	50	Residue of banned herbicide				
Alachlor (ppb)	10/26/22	N	ND	NA	0	2	Runoff from herbicide used on row crops				
Atrazine (ppb)	10/26/22	N	ND	NA	3	3	Runoff from herbicide used on row crops				
Benzo(a)pyrene (PAH) (ppt)	10/26/22	N	ND	NA	0	200	Leaching from linings of water storage tanks and distribution lines				
Carbofuran (ppb)	10/26/22	N	ND	NA	40	40	Leaching of soil fumigant used on rice and alfalfa				
Chlordane (ppb)	10/26/22	N	ND	NA	0	2	Residue of banned termiticide				
Dalapon (ppb)	10/26/22	N	ND	NA	200	200	Runoff from herbicide used on rights of way				
Di(2-ethylhexyl) adipate (ppb)	10/26/22	N	ND	NA	400	400	Discharge from chemical factories				
Di(2-ethylhexyl) phthalate (ppb)	10/26/22	N	ND	NA	0	6	Discharge from rubber and chemical factories				
DBCP [Dibromochloropropane] (ppt)	10/26/22	N	ND	NA	0	200	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards				
Dinoseb (ppb)	10/26/22	N	ND	NA	7	7	Runoff from herbicide used on soybeans and vegetables				
Endrin (ppb)	10/26/22	N	ND	NA	2	2	Residue of banned insecticide				
EDB [Ethylene dibromide] (ppt)	10/26/22	N	ND	NA	0	50	Discharge from petroleum refineries				
Heptachlor (ppt)	10/26/22	N	ND	NA	0	400	Residue of banned pesticide				
Heptachlor epoxide (ppt)	10/26/22	N	ND	NA	0	200	Breakdown of heptachlor				
Hexachlorobenzene (ppb)	10/26/22	N	ND	NA	0	1	Discharge from metal refineries and agricultural chemical factories				
Hexachlorocyclo- pentadiene (ppb)	10/26/22	N	ND	NA	50	50	Discharge from chemical factories				
Lindane (ppt)	10/26/22	N	ND	NA	200	200	Runoff/leaching from insecticide used on cattle, lumber, gardens				
Methoxychlor (ppb)	10/26/22	N	ND	NA	40	40	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock				
Oxamyl [Vydate] (ppb)	10/26/22	N	ND	NA	200	200	Runoff/leaching from insecticide used on apples, potatoes and tomatoes				
PCBs [Polychlorinated biphenyls] (ppt)	10/26/22	N	ND	NA	0	500	Runoff from landfills; discharge of waste chemicals				
Pentachlorophenol (ppb)	10/26/22	N	ND	NA	0	1	Discharge from wood preserving factories				
Picloram (ppb)	10/26/22	N	ND	NA	500	500	Herbicide runoff				
Simazine (ppb)	10/26/22	N	ND	NA	4	4	Herbicide runoff				
Toxaphene (ppb)	10/26/22	N	ND	NA	0	3	Runoff/leaching from insecticide used on cotton and cattle				

**Volatile Organic Chemical (VOC) Contaminants** 

olatile Organic Chemical	$(\mathbf{VOC})\mathbf{C}$	ontamina	ints					
Contaminant (units)	Sample Date	MCL Violation Y/N	Your Water	Range Low High	MCLG	MCL	Likely Source of Contamination	
Benzene (ppb)	3/31/2022	N	ND	NA NA	0	5	Discharge from factories; leaching from gas storage tanks and landfills	
Carbon tetrachloride (ppb)	3/31/2022	N	ND	NA	0	5	Discharge from chemical plants and other industrial activities	
Chlorobenzene (ppb)	3/31/2022	N	ND	NA	100	100	Discharge from chemical and agricultural chemical factories	
o-Dichlorobenzene (ppb)	3/31/2022	N	ND	NA	600	600	Discharge from industrial chemical factories	
p-Dichlorobenzene (ppb)	3/31/2022	N	ND	NA	75	75	Discharge from industrial chemical factories	
1,2 – Dichloroethane (ppb)	3/31/2022	N	ND	NA	0	5	Discharge from industrial chemical factories	
1,1 – Dichloroethylene (ppb)	3/31/2022	N	ND	NA	7	7	Discharge from industrial chemical factories	
cis-1,2-Dichloroethylene (ppb)	3/31/2022	N	ND	NA	70	70	Discharge from industrial chemical factories	
trans-1,2-Dichloroethylene (ppb)	3/31/2022	N	ND	NA	100	100	Discharge from industrial chemical factories	
Dichloromethane (ppb)	3/31/2022	N	ND	NA	0	5	Discharge from pharmaceutical and chemical factories	
1,2-Dichloropropane (ppb)	3/31/2022	N	ND	NA	0	5	Discharge from industrial chemical factories	
Ethylbenzene (ppb)	3/31/2022	N	ND	NA	700	700	Discharge from petroleum refineries	
Styrene (ppb)	3/31/2022	N	ND	NA	100	100	Discharge from rubber and plastic factories; leaching from landfills	
Tetrachloroethylene (ppb)	3/31/2022	N	ND	NA	0	5	Discharge from factories and dry cleaners	
1,2,4 –Trichlorobenzene (ppb)	3/31/2022	N	ND	NA	70	70	Discharge from textile-finishing factories	
1,1,1 – Trichloroethane (ppb)	3/31/2022	N	ND	NA	200	200	Discharge from metal degreasing sites and other factories	
1,1,2 – Trichloroethane (ppb)	3/31/2022	N	ND	NA	3	5	Discharge from industrial chemical factories	
Trichloroethylene (ppb)	3/31/2022	N	ND	NA	0	5	Discharge from metal degreasing sites and other factories	
Toluene (ppm)	3/31/2022	N	ND	NA	1	1	Discharge from petroleum factories	
Vinyl Chloride (ppb)	3/31/2022	N	ND	NA	0	2	Leaching from PVC piping; discharge from plastics factories	
Xylenes (Total) (ppm)	3/31/2022	N	ND	NA	10	10	Discharge from petroleum factories; discharge from chemical factories	

**Disinfectant Residuals Summary** 

	MRDL Violation Y/N	Your Water (highest RAA)	Ra Low	nge High	MRDLG	MRDL	Likely Source of Contamination
Chlorine (ppm)	N	1.34	0.24	1.34	4	4.0	Water additive used to control microbes

Stage 2 Disinfection Byproduct Compliance - Based upon Locational Running Annual Average (LRAA)

Disinfection Byproduct	Year Sampled	MCL Violation Y/N	Your Water (highest LRAA)	Ra: Low	nge High	MCLG	MCL	Likely Source of Contamination
TTHM (ppb)	2022	N				N/A	80	Byproduct of drinking water disinfection
Location (Ex. B01)			57	13	57			
HAA5 (ppb)	2022	N				N/A	60	Byproduct of drinking water disinfection
Location (Ex. B01)			16	ND	16			

<sup>\*\*</sup>If any individual TTHM sample result (regardless of LRAA) is above 0.080 mg/l, you must include the following:

Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

\*\*If any individual HAA5 sample result (regardless of LRAA) is above 0.060 mg/l, you must include the following:

Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer.