



Wholesale Customer

BCWS provides water to the Sineath MHP Water System by purchasing the water wholesale from the Charleston Water System (CWS). CWS provides drinking water on a contract basis to other utilities in the Charleston area. BCWS does not supplement the purchased water from CWS with any other sources. For more information about this report, or any other questions relating to your drinking water, please call Michael P. Blankenship-Laboratory Superintendent at 843-719-2370.

Public Participation

You are invited to attend our public meetings and voice your concerns about your drinking water. We meet the 4TH Monday of every month beginning at 7:00 pm at the County Office Building, 1003 Hwy. 52, Moncks Corner, SC.

Este informe contiene información muy importante. Sobre el agua que usted bebe. Tradúscalo ó hable con alguien que lo entienda bien.

BCWS administration building is located at:
212 Oakley Plantation Drive
Moncks Corner, SC
Hours: M-F, 9:00 am – 5:00 pm.



SINEATH MOBILE HOME PARK WATER SYSTEM

The BCWS is proud to present to you our 2019 Water Quality Report for the Sineath Mobile Home Park Water System. In complying with EPA requirements, we have developed this report to provide you with valuable information about your drinking water. We are proud to share our results with you. Please read them carefully.

2019 Water Quality Report



Mark of Excellence

Since the beginning, Berkeley County Water and Sanitation's goal has been to provide the safest and highest quality water for all its customers. We are proud of our

history of quality service. BCWS is committed to providing you with this information about your water supply, because customers who are well informed are our best allies in supporting improvements necessary to maintain the highest drinking water standards



Treatment Facility

The BCWS supplies the Sineath Mobile Home Park water system with water purchased from Charleston Water System (CWS). The Hanahan water treatment plant uses state-of-the-art technology to produce the best quality drinking water possible at a reasonable cost. The plant is staffed 24 hours a day 365 days a year by highly trained, state licensed operators.

Surface Water Source



CWS treats water from two separate rivers. Through various sources, it is possible for contaminants to find their way into the river as they pass through the countryside. Drinking water, including bottled water, may contain small amounts of some contaminants. The presence of contaminants does not necessarily indicate the water poses a health risk. More information about contaminants and their associated health risks can be acquired by calling the **EPA's Safe Drinking**

Water Hotline (1-800-426-4791). The Environmental Protection Agency (EPA) and the South Carolina Department of Health and Environmental Control (DHEC) prescribe regulations which ensure that water sold by public water systems contains no harmful contaminants. The Food and Drug Administration (FDA) regulations prescribe similar limits for contaminants in bottled water. The Source Water Assessment and Protection Program (SWAP) for the state of South Carolina can be viewed at the DHEC site: www.scdhec.net/water/html/srcewtr.html
The plans main objective is to prevent contamination from occurring in watershed areas that supply drinking water.

Some Compounds Found In Drinking Water

Microbial Testing – *Giardia* and *Cryptosporidium* are two types of microscopic protozoa that can cause illness in humans. There are many ways to come in contact with these

parasites including contaminated foods, recreational waters, daycare centers, contact with contaminated soil, nursing homes and drinking water. CWS takes steps to ensure these organisms do not pose a problem in the drinking water. The treatment plant has multiple barriers of protection such as chemical coagulation, filtration, disinfection, and turbidity monitoring to ensure the optimum removal of these organisms. However, for people with compromised immune systems, the EPA and US Center for Disease Control offer the following advisory statement: *“Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons with HIV/AIDS or other immune system disorders, persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, some elderly and infants can be particularly at risk from infections. These people should seek advice 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 (1-800-426-4791)**.”*

Lead - 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. BCWS 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>.

Drinking Water Quality Report

The information in the following Tables cover the period of **January 2019 to December 2019**. The data presented is from the monitoring done in compliance with regulations.

REGULATED PARAMETERS

Parameter	Unit	Highest Level Detected	Range or Other Comments	MCL	Date Sampled	MCLG	Possible Sources in Water
Total Coliform Bacteria	% Positive Samples	1.9 % highest level detected in any monthly sample (all repeat samples were satisfactory)	0% to 1.9%	Coliform Bacteria in >5% of monthly samples	2019	0%	Naturally present in environment
Turbidity	NTU	0.08	0.05-0.08 100%	TT 95% of monthly samples must be less than 0.3 NTU	2019	None	Soil runoff
Copper	ppm	90 th Percentile-0.03	0.003 – 0.031	AL=1.3	2017	1.3	Corrosion of household plumbing materials
Lead	ppb	90 th Percentile – 0.6	ND – 1.4	AL= 15	2017	0	Corrosion of household plumbing materials
Nitrate/Nitrite	ppm	0.12	0.12	10	2019	10	Runoff from fertilizers
Fluoride	ppm	0.13 ppm source water. 0.54 ppm in finished water.	<0.10 to 0.54	4	2019	4	Additive to reduce tooth decay
Total Organic Carbon(TOC)	ppm	Actual % Removal Range: 56% - 65.0%	Actual % Removal: 59.8%	TT	2019	Required % removal: 35%-50%	Naturally present in environment
Chlorine	ppm	3.8	3.3 to 3.8	4	2019	4	Water additive used to control microbes
Chlorine Dioxide	ppb	260	0 to 260	800	2019	800	Added for disinfection
Chloramine Residual	ppm	RAA: 2.7	2.5 to 2.9	MRDL=4	2019	MRDLG=4	Added for disinfection
Chlorite	ppm	0.77	0.24 – 0.77	1.0	2019	0.8	Byproduct of water disinfection process
Haloacetic Acids (HAA5)	ppb	13.00	9.49 to 13.35	60	2019	No goal for the Total	Byproduct of water disinfection process
Total Trihalomethanes (TTHM)	ppb	12.00	9.70 to 13.44	80	2019	No goal for the Total	Byproduct of water disinfection process
Giardia in River Water	per liter	0.0	N/A	None	2019	None	Human and animal sources
Cryptosporidium in River Water	Per liter	0.0	N/A	None	2019	None	Human and animal sources

Definitions

Maximum Contaminant Level (MCL):The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to MCLG's as feasible using the best available technology.

Maximum Contaminant Level Goal (MCLG):The level of contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.

Action Level (AL):The concentration of 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 Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. Disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG):The level of a drinking water disinfectant below which there is no known or expected risk of health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contamination.

LRAA: Locational Running Annual Average. Stage 2 of the Disinfectants Byproducts Rule requires the LRAA for each sampling location to be below the MCL. CWS has 8 sampling locations.

NTU = Nephelometric Turbidity Units **PCU** = platinum cobalt units **ppm** = parts per million **ppb** = parts per billion **umhos/cm** = micromohs/centimeter **pCi/l** = picocuries per liter
C = centigrade **RAA** = running annual average **TT**= requires a specific treatment technique

Parameter	Highest Level allowed by EPA Regulation	
	Average	MCL
Alkalinity, ppm	28	No Standard
Chloride, ppm	14	250
Color, PCU	2	15
Conductivity, umhos/cm	181	No Standard
Hardness, ppm	53	No Standard
Iron, ppm	< 0.10	0.3
Manganese, ppm	< 0.05	0.05
Ortho-phosphate, ppm	1.2	No Standard
Silica, ppm	8.0	No Standard
Sodium	9	No Standard
Temperature, C	22	No Standard
Total Dissolved Solids (TDS), ppm	115	500

While a sample site can have a single result that exceeds the maximum contaminant level (MCL), the LRAA may be below the MCL. Therefore, the monitoring is in compliance.

Voluntary Testing of Unregulated Compounds Done During the Period of Jan 2019- Dec 2019

All were below their EPA Health Advisory or drinking water standard.

Compounds with Health Advisories

Additional Unregulated compounds detected during Unregulated Compound Testing

Compound	Units	Highest Level Detected	Range of Detections	EPA Health Advisory	Compound	Units	Highest Level Detected	Range of Detections	EPA Health Advisory
2,4-dichlorophenoxyacetic acid	ppt	8.7	ND-8.7	200,000	1,4 Dioxane	ppb	0.33	0.32-0.33	N/A
Aluminum	ppb	38	35-38	N/A	Acesulfame-K	ppt	160	88-160	N/A
Atrazine	ppt	16	7.2-16	700,000	Atenolol	ppt	5.8	ND-5.8	N/A
Barium	ppb	17	16-17	7,000	Boron	ppb	26	22-26	N/A
Bromodichloromethane	ppb	3.3	2.9-3.3	100	Chromium, hexavalent	ppb	0.06	0.06	N/A
Chloroform	ppb	3.2	2.6-3.2	350	lohexal	ppt	51	19-51	N/A
Dibromochloromethane	ppb	1.6	1.5-1.6	700	NDMA	ppt	5.6	5.1-5.6	N/A
Formaldehyde	ppb	7.1	ND-7.1	7,000	PFBS	ppt	3.5	3.2-3.5	N/A
Manganese	ppb	9.6	3.3-9.6	1,600	PFHpA	ppt	2.8	2.3-2.8	N/A
Perchlorate	ppb	0.13	0.12-0.13	25	PFHxA	ppt	5.6	4.3-5.6	N/A
PFOA	ppt	5.3	4.4-5.3	70	PFHxS	ppt	2.2	2.1-2.2	N/A
PFOS	ppt	7.0	6.3-7.0	70	PFPeA	ppt	5.8	4.7-5.8	N/A
Simazine	ppt	16	14	700,000	Sucralose	ppt	640	580-640	N/A
Strontium	ppb	53	43-53	20,000	Tetrahydrofuran	ppb	6.1	ND-6.1	N/A
Zinc	ppb	6.3	ND-6.3	10,000	Total Trihalomethanes	ppb	7.6	7.5-7.6	N/A