

SOUTH CHEYENNE WATER AND SEWER DISTRICT CONSUMER CONFIDENCE REPORT

January 1 - December 31, 2016

The South Cheyenne Water and Sewer District is proud to provide you with the Annual Consumer Confidence Report for Drinking Water Quality for calendar year 2016. This report is designed to inform you about the quality of water and services we deliver to you every day. 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.

FINDINGS: We are pleased to report to you that our water is safe and meets or exceeds federal and local requirements.

ABOUT OUR WATER SUPPLY: The South Cheyenne Water and Sewer Districts water supplier is the Cheyenne Board of Public Utilities. The BOPU receives water from surface water and groundwater. Surface water is collected from the Douglas Creek Drainage, located in the Snowy Range Mountains, about 75 miles west of Cheyenne. The water is stored in Rob Roy Reservoir and transported to Granite and Crystal Reservoirs via two water delivery pipelines. Surface water is also collected from the Crow Creek Drainage, located in the Pole Mountain/Vedauwoo area, about 30 miles west of Cheyenne. Crow Creek water is collected and stored in North Crow Reservoir (North Crow Creek Drainage), in Granite and Crystal Reservoirs (Middle Crow Creek Drainage) and South Crow Reservoir (South Crow Creek Drainage). Water is delivered from these reservoirs to the R.L. Sherard water treatment plants by pipelines. The City owns and operates about 35 groundwater wells located west and northwest of Cheyenne. The wells pump from the Ogallala and White River Aquifers. Cheyenne also collects surface water in the Little Snake River Drainage. The LSRD is located about 110 miles west of Cheyenne on the western slope of the Continental Divide. This water is transported through a tunnel and stored in Hog Park Reservoir located on the eastern slope of the Divide. Water released from Hog Park Reservoir is traded for surface water from the Douglas Creek Drainage. As water is released from Hog Park Reservoir, Cheyenne is allowed to collect water from the Douglas Creek Drainage and store the water in Rob Roy Reservoir for use in the drinking water system.

A Source Water assessment and Protection (SWAP) report was completed in 2004. To view a copy of this report, call 637-6460.

MONITORING: The Board of Public Utilities Water Treatment Division routinely monitors for potential contaminants in the drinking water according to Federal laws. The provided table shows the most recent results of the monitoring (through 12/31/16), completed in accordance with US EPA Drinking Water Regulations.

DEFINITIONS: In this table you will find many terms and abbreviations which might not be familiar. To help you better understand these terms, the following definitions are provided.

Action Level (AL) — The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

Maximum Contaminant Level (MCL) — The "Maximum Allowed" (MCL) is 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 "Goal" (MCLG) is 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.

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.

Parts per billion (ppb) or Micrograms per liter (mg/L) — One part per billion corresponds to one minute in 2,000 years, or one penny in \$10,000,000.

Parts per million (ppm) or Milligrams per liter (mg/L) — One part per million corresponds to one minute in two years, or one penny in \$10,000.

Picocurie per liter (pCi/L) — Picocurie per liter is a measure of radioactivity in water.

Treatment Technique (TT) — A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

NO VIOLATION: A detect but no violation: As you can see by the table, our system had no violations. We're proud that the drinking water provided by

BOPU/SCWSD water system meets or exceeds all Federal requirements. We have learned through monitoring and testing that some constituents have been detected. The EPA has determined that Cheyenne's water **IS SAFE** at these levels.

SOURCES: The sources of drinking water (both tap water & bottled water) include rivers, streams, lakes, reservoirs, ponds, 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:

(A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

(B) Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

(C) Pesticides and herbicides, which may come from a variety of sources such as agricultural, urban storm water runoff, and residential uses.

(D) 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 storm water runoff, and septic systems.

(E) 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.

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 at 1-800-426-4791. 40 CFR, Part 141§141.153(h)(1)(i),(ii)(A),(B),(C),(D),(E),iii and (iv)

Maximum Contaminant Levels (MCL) are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect. (This section reprinted with permission from the National Rural Water Association)

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 microbiological 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. The SCWSD 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>.

GOAL: In our continuing effort to provide safe and dependable water supply it is necessary to make improvements to Cheyenne's water system. System improvements are paid for through water rates charged to the users.

The SCWSD and BOPU goal is to provide the community of Cheyenne with safe, quality drinking water that meets federal and local requirements at the lowest cost. We encourage all of our water customers to learn about Cheyenne's water system and the Safe Drinking Water Act requirements and to help us protect our valuable water sources, which are the heart of our community, our way of life and vital to our future.

QUESTIONS: If you have questions about this report or concerning your water utility please call Dena Hansen, General Manager at 635-5608, or email scwsd215@bresnan.net

SOUTH CHEYENNE WATER AND SEWER DISTRICT BOARD OF DIRECTORS AND MANAGEMENT TEAM

Karen K. Hughes - President

Benjamin J. Marszalek - Vice-President

Gary Moser - Director

Sandy Moser - Director

James Rish - Director

Dena Hansen - General Manager

Scott Sprakties - Operations Manager

PUBLIC MEETINGS

The District Board of Director Meetings are held on the first Tuesday of each month, 5:30 p.m. at the SCWSD Office, 215 East Allison Road.

PROPERTY OWNERS AND MANAGERS

Please share this report with your tenants. Thank You.

QR- Round Top Storage Tank G.W.		TEST RESULTS				S-Sherard Plant	
Contaminant	Violation Yes/No	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination	
Total Coliform Bacteria Positive sample on 01/14/16	No	Presence/Absence Testing All follow-up tests were negative		0	Presence of Coliform bacteria in > 5% of monthly samples	Naturally present in the environment. BOPU tested 720 samples and of that only 1 sample resulted in a Total Coliform positive result. Upon retesting, that positive indicated a negative result.	
Turbidity	No	0.11 NTU 100%		N/A	TT 95% < 0.3	Soil runoff. Maximum allowable filtered water turbidity is 0.3 NTU in 95% of all samples. Turbidity values are recorded every 4 hours from all filters in operation and values reported monthly to EPA.	
Lead – 90 th percentile, based on 20 samples collected (18 th highest value) 8/2014	No	6	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits. This sample was taken from a private residence on the system.	
Copper – 90 th Percentile, based on 20 samples collected (18 th highest value) 8/2014	No	.28	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives. This sample was taken from a private residence on the system.	
Fluoride	No	R: 07 S: 0.7	ppm	4	4	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories.	
Nitrate (as Nitrogen)	No	R: 0.6 S: 05	ppm	10	10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits.	
TTHM Total Trihalomethanes (Sum of the 4 compounds: Chloroform, Bromoform, Bromodichloromethane, Dibromochloromethane)	No	Min:32 Max:76 Avg:54	ppb	0	80	By-product of drinking water chlorination.	
HAA5 Haloacetic Acids (Sum of the 5 compounds; Monochloroacetic Acid, Dichloroacetic Acid, Trichloroacetic Acid, Monobromoacetic Acid, Dibromoacetic Acid)	No	Min:22 Max:32 Avg:27	ppb	0	60	By-product of drinking water chlorination.	
Radionuclides Gross Alpha	No	R: 4.3±1.4 S: 3.6±1.3	pCi/L	None	15	Gross Alpha – Erosion of natural deposits.	
Radium 226	No	R: 0.23±0.19	pCi/L	None	15	Radium 226 and 228-Erosion of natural deposits.	
Radium 228	No	S: 0.07±0.8	pCi/L	None	15		
Uranium	No	R: 2.2±0.5 S: 1.2±0.4 R: <1.0 S: <1.0	ppb	None	30	Uranium-Naturally present in the environment.	
TOC	No	TOC Raw Max 6.3 TOC Finished Min: 2.7	ppm	N/A	TT	Total Organic Carbon is the measure of organic matter associated with the water source.	
Barium	No	R: 0.04 S: 0.04	ppm	2	2	Discharge of drilling wastes; erosion of natural deposits.	
Sulfate	No	R: 20 S: 20	ppm	None	250	Used as a coagulation compound in the treatment of drinking water. Water additive-Ferric Sulfate	

Additionally, the BOPU tested the drinking water for the following contaminants, and found no detects:

INORGANIC CONTAMINANTS

Arsenic, Antimony, Beryllium, Bromate, Cadmium, Chromium, Cyanide, Mercury, Nickel, Nitrite, Selenium, Thallium

SYNTHETIC ORGANIC CONTAMINANTS INCLUDING PESTICIDES AND HERBICIDES

2,4-D 2,3,5-TP (Silvex), Alachlor, Atrazine, Benzo(a)pyrene, Carbofuran, Chlordane, Dalapon, Di(2-ethylhexyl)adipate, Endrin, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Hexachlorocyclopentadiene, Oxamyl (Vydate), Pentachlorophenol, Simazine, Toxaphene

VOLATILE ORGANIC CONTAMINANTS

Benzene, Carbon Tetrachloride, Chlorobenzene, 1,2-Dichloroethane, 1,1-Dichloroethylene, cis-1,2-Dichloroethylene, trans-1,2-Dichloroethylene, Ethylbenzene, Styrene, 1,2,4-Trichlorobenzene, 1,1,1- Trichloroethane, Toluene, Vinyl Chloride, Xylene, MTBE, Trichloroethylene

UNREGULATED CONTAMINANTS Acetochlor, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 4,4-DDE, DCP Acid Metabolites, EPTC, Molinate, Nitrobenzene,

Terbacil, Perchlorate