

# Cedar Gulch #2 Drinking Water Information

## (System Information, Sampling Requirements, and Compliance Report)

**This system is not a candidate for an award:**

### Violation

<b>Population Served:</b>	27	<b>System Population:</b>	27
<b>Certified Operator:</b>	Mr Al Sage 5310 Ebony Place Piedmont, SD 57769	<b>Work Phone:</b>	(605)391-7483
		<b>Home Phone:</b>	(605)787-4681
		<b>Cell Phone:</b>	
		<b>Fax:</b>	
		<b>Email:</b>	sagewaterworks100@gmail.com
<b>Financial Contact:</b>	Mr Dwain Waldo 23475 Bradsky Road Rapid City, SD 57703	<b>Work Phone:</b>	
		<b>Home Phone:</b>	393-6003
		<b>Cell Phone:</b>	
		<b>Fax:</b>	
		<b>Email:</b>	dwain12@hotmail.com
<b>Other Contacts:</b>	Mr. Dan Lewis 2601 Grandview Drive Rapid City, SD 57701	<b>Work Phone:</b>	342-3585
		<b>Home Phone:</b>	343-0381
		<b>Cell Phone:</b>	
		<b>Fax:</b>	
		<b>Email:</b>	cedargulch2wsd@gmail.com
<b>Last Inspection:</b>	September 29, 2015		
<b>Type of System:</b>	Community	<b>Area Served:</b>	Pennington County
<b>Number of Service Connections:</b>	10	<b>Contamination Risk:</b>	high
<b>Water Produced And Used By The Cedar Gulch #2 Public Water System</b>			
<b>PWS Owner Type:</b>	Private Ownership	<b>Service Area:</b>	Housing Development
<b>Contract Laboratory:</b>			Midcontinent Laboratory

# Monitoring/Reporting - Entry Point

**Cedar Gulch #2**

**EPA ID: 2295**

## SAMPLING

Entry point: Treat Site - Well #2

	Chemical	Sampling Frequency	Waivers	Taken Last	Due Next	Notes
1	Inorganic Chemicals					
	A. Antimony	Triennially	No	Jan-18		
	B. Arsenic	Triennially	No	Jan-18		
	C. Barium	Triennially	No	Jan-18		
	D. Beryllium	Triennially	No	Jan-18		
	E. Cadmium	Triennially	No	Jan-18		
	F. Chromium	Triennially	No	Jan-18		
	G. Cyanide		Yes			State-wide waiver
	H. Fluoride	Triennially	No	Jan-18		
	I. Mercury	Triennially	No	Jan-18		
	J. Nickel	Triennially	No	Jan-18		
	K. Selenium	Triennially	No	Jan-18		
	L. Thallium	Triennially	No	Jan-18		
2	Radiological Chemicals	Quarterly	N/A			
3	VOC Chemicals		No	Feb-13	2019	
4	SOC Chemicals					
	A. Method 515.1	Not Required	Yes			
	B. Method 524	Not Required	Yes			
	C. Method 525	Not Required	Yes			
	D. Method 531.1	Not Required	Yes			
	E. Method 547	Not Required	Yes			
	F. Method 548	Not Required	Yes			
	G. Method 549	Not Required	Yes			
5	Nitrate	Annually	N/A	Jan-18		
6	Nitrite	Triennially	N/A	Jan-18		

(These values are calculated from available data. Check correspondence for verification.)

---

### Bacteriological Monitoring

Bacteriological sampling and analysis: January 1, 2017 to January 1, 2018

A	Samples submitted:	<u>12</u>
B	Samples required:	<u>One Sample Each Month.</u>
C	Survey samples:	<u>0</u>
D	Safe samples:	<u>12</u>
E	Unsafe samples:	<u>0</u>
F	Repeat samples:	<u>0</u>
H	Groundwater Samples:	

### Lead and Copper Monitoring

(These values are calculated from available data. Check correspondence for verification.)

A	Date Last Tested:	<u>September 28, 2016</u>
B	Samples required:	<u>5</u>
C	Sampling Frequency	<u>Triennially</u>
D	Date Due Next	<u>2019</u>
E	Lead - 90% Level	<u>1</u> Action Level - 15 ug/l
F	Copper 90% Level	<u>0.03</u> Action Level - 1.3 mg/l

### Disinfectant Residual Monitoring

Residual sampling and analysis: January 1, 2017 to January 1, 2018

A	Samples submitted:	<u>12</u>
B	Samples required:	<u>One Sample Each Month.</u>
C	Last Qtr Cl Residual:	<u>0.96</u> mg/l
D	Running Annual Average:	<u>0.57</u> mg/l
E	Date of last DBP test:	<u>September 28, 2016</u>
F	THM - Qtr Average:	<u>0</u> ug/l
G	Haa5 - Qtr Average:	<u>0</u> ug/l

### Asbestos

A	Date of last test:	<u>Waiver - Testing Not Required</u>
B	Asbestos Result:	<u></u> million fibers per liter

Comments

# Violations and Significant Deficiencies

**Cedar Gulch #2**

**EPA ID: 2295**

Violations From January 1, 2013 To January 1, 2018

Violation Type	Parameter	Date	Status
Exceedance of Allowable Contaminant Level	Combined Radium	10/01/2017	Public Notice Requested
	Combined Radium		Public Notice Received
	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Alpha Emitters	10/01/2017	Public Notice Requested
	Alpha Emitters		Public Notice Received
	Alpha Emitters		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Alpha Emitters	07/01/2017	Public Notice Requested
	Alpha Emitters		Public Notice Received
	Alpha Emitters		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Combined Radium	07/01/2017	Public Notice Requested
	Combined Radium		Public Notice Received
	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Combined Radium	04/01/2017	Public Notice Requested
	Combined Radium		Public Notice Received
	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Alpha Emitters	04/01/2017	Public Notice Requested
	Alpha Emitters		Public Notice Received
	Alpha Emitters		State Action-No Penalty
Failure to Monitor	SOCs - Diquat	01/01/2017	Public Notice Requested
	SOCs - Diquat		Compliance Achieved
Failure to Monitor	SOCs - Glyphosate	01/01/2017	Public Notice Requested
	SOCs - Glyphosate		Compliance Achieved
Failure to Monitor	SOCs - Endothall	01/01/2017	Public Notice Requested
	SOCs - Endothall		Compliance Achieved
Failure to Monitor	SOCs - Ethylene dibromide	01/01/2017	Public Notice Requested
	SOCs - Ethylene dibromide		Compliance Achieved
Failure to Monitor	SOCs - Dibromochloropropane	01/01/2017	Public Notice Requested
	SOCs - Dibromochloropropane		Compliance Achieved
Failure to Monitor	SOCs - 2,4-D	01/01/2017	Public Notice Requested
	SOCs - 2,4-D		Compliance Achieved
Failure to Monitor	SOCs - Pichloram	01/01/2017	Public Notice Requested
	SOCs - Pichloram		Compliance Achieved
Failure to Monitor	SOCs - Pentachlorophenol	01/01/2017	Public Notice Requested
	SOCs - Pentachlorophenol		Compliance Achieved
Failure to Monitor	SOCs - 2,4,5-TP (Silvex)	01/01/2017	Public Notice Requested
	SOCs - 2,4,5-TP (Silvex)		Compliance Achieved
Failure to Monitor	SOCs - Dinoseb	01/01/2017	Public Notice Requested
	SOCs - Dinoseb		Compliance Achieved
Failure to Monitor	SOCs - Dalapon	01/01/2017	Public Notice Requested
	SOCs - Dalapon		Compliance Achieved
Failure to Monitor	SOCs - Oxamyl	01/01/2017	Public Notice Requested
	SOCs - Oxamyl		Compliance Achieved
Failure to Monitor	SOCs - Carbofuran	01/01/2017	Public Notice Requested
	SOCs - Carbofuran		Compliance Achieved
Failure to Monitor	SOCs - Simazine	01/01/2017	Public Notice Requested
	SOCs - Simazine		Compliance Achieved
Failure to Monitor	SOCs - Toxaphene	01/01/2017	Public Notice Requested
	SOCs - Toxaphene		Compliance Achieved
Failure to Monitor	SOCs - Chlordane	01/01/2017	Public Notice Requested

	SOCs - Chlordane		Compliance Achieved
Failure to Monitor	SOCs - Lindane	01/01/2017	Public Notice Requested
	SOCs - Lindane		Compliance Achieved
Failure to Monitor	SOCs - Hexachlorobenzene	01/01/2017	Public Notice Requested
	SOCs - Hexachlorobenzene		Compliance Achieved
Failure to Monitor	SOCs - Endrin	01/01/2017	Public Notice Requested
	SOCs - Endrin		Compliance Achieved
Failure to Monitor	SOCs - Hexachlorocyclopentadiene	01/01/2017	Public Notice Requested
	SOCs - Hexachlorocyclopentadiene		Compliance Achieved
Failure to Monitor	SOCs - Di(2-ethylhexyl)phthalate	01/01/2017	Public Notice Requested
	SOCs - Di(2-ethylhexyl)phthalate		Compliance Achieved
Failure to Monitor	SOCs - Di(2-ethylhexyl)adipate)	01/01/2017	Public Notice Requested
	SOCs - Di(2-ethylhexyl)adipate)		Compliance Achieved
Failure to Monitor	SOCs - PCBs	01/01/2017	Public Notice Requested
	SOCs - PCBs		Compliance Achieved
Failure to Monitor	SOCs - Methoxychlor	01/01/2017	Public Notice Requested
	SOCs - Methoxychlor		Compliance Achieved
Failure to Monitor	SOCs - Benzo(a)pyrene (PAH)	01/01/2017	Public Notice Requested
	SOCs - Benzo(a)pyrene (PAH)		Compliance Achieved
Failure to Monitor	SOCs - Atrazine	01/01/2017	Public Notice Requested
	SOCs - Atrazine		Compliance Achieved
Failure to Monitor	SOCs - Heptachlor Epoxide	01/01/2017	Public Notice Requested
	SOCs - Heptachlor Epoxide		Compliance Achieved
Failure to Monitor	SOCs - Heptachlor	01/01/2017	Public Notice Requested
	SOCs - Heptachlor		Compliance Achieved
Failure to Monitor	SOCs - Alachlor	01/01/2017	Public Notice Requested
	SOCs - Alachlor		Compliance Achieved
Exceedance of Allowable Contaminant Level	Combined Radium	01/01/2017	Public Notice Requested
	Combined Radium		Public Notice Received
	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Alpha Emitters	01/01/2017	Public Notice Requested
	Alpha Emitters		Public Notice Received
	Alpha Emitters		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Combined Radium	10/01/2016	Public Notice Requested
	Combined Radium		Public Notice Received
	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Alpha Emitters	10/01/2016	Public Notice Requested
	Alpha Emitters		Public Notice Received
	Alpha Emitters		State Action-No Penalty
DBP Failure To Monitor	Chlorine	10/01/2016	Public Notice Requested
	Chlorine		Public Notice Received
	Chlorine		Compliance Achieved
Exceedance of Allowable Contaminant Level	Combined Radium	07/01/2016	Public Notice Requested
	Combined Radium		Public Notice Received
	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Alpha Emitters	07/01/2016	Public Notice Requested
	Alpha Emitters		Public Notice Received
	Alpha Emitters		State Action-No Penalty
FTM-Routine Samples	RTCR	10/01/2016	Public Notice Requested
	RTCR		Compliance Achieved
Exceedance of Allowable Contaminant Level	Alpha Emitters	04/01/2016	Public Notice Requested
	Alpha Emitters		Public Notice Received
	Alpha Emitters		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Combined Radium	04/01/2016	Public Notice Requested
	Combined Radium		Public Notice Received
	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Combined Radium	01/01/2016	Public Notice Requested
	Combined Radium		Public Notice Received

	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Alpha Emitters	01/01/2016	Public Notice Requested
	Alpha Emitters		Public Notice Received
	Alpha Emitters		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Combined Radium	10/01/2015	Public Notice Requested
	Combined Radium		Public Notice Received
	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Alpha Emitters	10/01/2015	Public Notice Requested
	Alpha Emitters		Public Notice Received
	Alpha Emitters		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Combined Radium	07/01/2015	Public Notice Requested
	Combined Radium		Public Notice Received
	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Alpha Emitters	07/01/2015	Public Notice Requested
	Alpha Emitters		Public Notice Received
	Alpha Emitters		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Combined Radium	04/01/2015	Public Notice Requested
	Combined Radium		Public Notice Received
	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Alpha Emitters	04/01/2015	Public Notice Requested
	Alpha Emitters		Public Notice Received
	Alpha Emitters		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Combined Radium	01/01/2015	Public Notice Requested
	Combined Radium		Public Notice Received
	Combined Radium		State Action-No Penalty
	Combined Radium		Public Notice Received
	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Alpha Emitters	01/01/2015	Public Notice Requested
	Alpha Emitters		Public Notice Received
	Alpha Emitters		State Action-No Penalty
	Alpha Emitters		State Action-No Penalty
Lack of Certified Operator	Certified Operator	02/01/2015	Reminder Notice
	DBP		Compliance Achieved
Exceedance of Allowable Contaminant Level	Alpha Emitters	10/01/2014	Public Notice Requested
	Alpha Emitters		Public Notice Received
	Alpha Emitters		Public Notice Received
	Alpha Emitters		State Action-No Penalty
	Alpha Emitters		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Combined Radium	10/01/2014	Public Notice Requested
	Combined Radium		Public Notice Received
	Combined Radium		Public Notice Received
	Combined Radium		State Action-No Penalty
	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Combined Radium	07/01/2014	Public Notice Requested
	Combined Radium		Public Notice Received
	Combined Radium		State Action-No Penalty
	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Alpha Emitters	07/01/2014	Public Notice Requested
	Alpha Emitters		Public Notice Received
	Alpha Emitters		State Action-No Penalty
	Alpha Emitters		State Action-No Penalty
Failure to Issue PN for Violation 00165	Public Notice	07/06/2014	
	Public Notice		Compliance Achieved
Failure to Issue PN for Violation 00164	Public Notice	07/06/2014	
	Public Notice		Compliance Achieved
Failure to Issue PN for Violation 00165	Public Notice	10/01/2014	Intentional No-Action
	Public Notice		Compliance Achieved
Failure to Issue PN for Violation 00164	Public Notice	10/01/2014	Intentional No-Action

	Public Notice		Compliance Achieved
Exceedance of Allowable Contaminant Level	Combined Radium	04/01/2014	Intentional No-Action
	Combined Radium		State Action-No Penalty
	Combined Radium		DENR Issued PN
	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Alpha Emitters	04/01/2014	Intentional No-Action
	Alpha Emitters		State Action-No Penalty
	Alpha Emitters		DENR Issued PN
	Alpha Emitters		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Combined Radium	01/01/2014	Public Notice Requested
	Combined Radium		State Action-No Penalty
	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Alpha Emitters	01/01/2014	Public Notice Requested
	Alpha Emitters		State Action-No Penalty
	Alpha Emitters		State Action-No Penalty
Failure to Monitor	Uranium	04/01/2014	Public Notice Requested
	Uranium		Public Notice Received
	Uranium		Compliance Achieved
Failure to Monitor	Combined Radium	04/01/2014	Public Notice Requested
	Combined Radium		Public Notice Received
	Combined Radium		Compliance Achieved
Failure to Monitor	Alpha Emitters	04/01/2014	Public Notice Requested
	Alpha Emitters		Public Notice Received
	Alpha Emitters		Compliance Achieved
Failure to Monitor	SOCs - Diquat	01/01/2014	Public Notice Requested
	SOCs - Diquat		Compliance Achieved
Failure to Monitor	SOCs - Glyphosate	01/01/2014	Public Notice Requested
	SOCs - Glyphosate		Compliance Achieved
Failure to Monitor	SOCs - Endothall	01/01/2014	Public Notice Requested
	SOCs - Endothall		Compliance Achieved
Failure to Monitor	SOCs - Ethylene dibromide	01/01/2014	Public Notice Requested
	SOCs - Ethylene dibromide		Compliance Achieved
Failure to Monitor	SOCs - Dibromochloropropane	01/01/2014	Public Notice Requested
	SOCs - Dibromochloropropane		Compliance Achieved
Failure to Monitor	SOCs - 2,4-D	01/01/2014	Public Notice Requested
	SOCs - 2,4-D		Compliance Achieved
Failure to Monitor	SOCs - Pichloram	01/01/2014	Public Notice Requested
	SOCs - Pichloram		Compliance Achieved
Failure to Monitor	SOCs - Pentachlorophenol	01/01/2014	Public Notice Requested
	SOCs - Pentachlorophenol		Compliance Achieved
Failure to Monitor	SOCs - 2,4,5-TP (Silvex)	01/01/2014	Public Notice Requested
	SOCs - 2,4,5-TP (Silvex)		Compliance Achieved
Failure to Monitor	SOCs - Dinoseb	01/01/2014	Public Notice Requested
	SOCs - Dinoseb		Compliance Achieved
Failure to Monitor	SOCs - Dalapon	01/01/2014	Public Notice Requested
	SOCs - Dalapon		Compliance Achieved
Failure to Monitor	SOCs - Oxamyl	01/01/2014	Public Notice Requested
	SOCs - Oxamyl		Compliance Achieved
Failure to Monitor	SOCs - Carbofuran	01/01/2014	Public Notice Requested
	SOCs - Carbofuran		Compliance Achieved
Failure to Monitor	SOCs - Simazine	01/01/2014	Public Notice Requested
	SOCs - Simazine		Compliance Achieved
Failure to Monitor	SOCs - Toxaphene	01/01/2014	Public Notice Requested
	SOCs - Toxaphene		Compliance Achieved
Failure to Monitor	SOCs - Chlordane	01/01/2014	Public Notice Requested
	SOCs - Chlordane		Compliance Achieved
Failure to Monitor	SOCs - Lindane	01/01/2014	Public Notice Requested
	SOCs - Lindane		Compliance Achieved

Failure to Monitor	SOCs - Hexachlorobenzene	01/01/2014	Public Notice Requested
	SOCs - Hexachlorobenzene		Compliance Achieved
Failure to Monitor	SOCs - Endrin	01/01/2014	Public Notice Requested
	SOCs - Endrin		Compliance Achieved
Failure to Monitor	SOCs - Hexachlorocyclopentadiene	01/01/2014	Public Notice Requested
	SOCs - Hexachlorocyclopentadiene		Compliance Achieved
Failure to Monitor	SOCs - Di(2-ethylhexyl)phthalate	01/01/2014	Public Notice Requested
	SOCs - Di(2-ethylhexyl)phthalate		Compliance Achieved
Failure to Monitor	SOCs - Di(2-ethylhexyl)adipate)	01/01/2014	Public Notice Requested
	SOCs - Di(2-ethylhexyl)adipate)		Compliance Achieved
Failure to Monitor	SOCs - PCBs	01/01/2014	Public Notice Requested
	SOCs - PCBs		Compliance Achieved
Failure to Monitor	SOCs - Methoxychlor	01/01/2014	Public Notice Requested
	SOCs - Methoxychlor		Compliance Achieved
Failure to Monitor	SOCs - Benzo(a)pyrene (PAH)	01/01/2014	Public Notice Requested
	SOCs - Benzo(a)pyrene (PAH)		Compliance Achieved
Failure to Monitor	SOCs - Atrazine	01/01/2014	Public Notice Requested
	SOCs - Atrazine		Compliance Achieved
Failure to Monitor	SOCs - Heptachlor Epoxide	01/01/2014	Public Notice Requested
	SOCs - Heptachlor Epoxide		Compliance Achieved
Failure to Monitor	SOCs - Heptachlor	01/01/2014	Public Notice Requested
	SOCs - Heptachlor		Compliance Achieved
Failure to Monitor	SOCs - Alachlor	01/01/2014	Public Notice Requested
	SOCs - Alachlor		Compliance Achieved
DBP Failure To Monitor	Chlorine	01/01/2014	Public Notice Requested
	Chlorine		Compliance Achieved
	Chlorine		Public Notice Received
Exceedance of Allowable Contaminant Level	Combined Radium	10/01/2013	Public Notice Requested
	Combined Radium		Public Notice Received
	Combined Radium		State Action-No Penalty
	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Alpha Emitters	10/01/2013	Public Notice Requested
	Alpha Emitters		Public Notice Received
	Alpha Emitters		State Action-No Penalty
	Alpha Emitters		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Combined Radium	07/01/2013	Public Notice Requested
	Combined Radium		Public Notice Received
	Combined Radium		State Action-No Penalty
	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Alpha Emitters	07/01/2013	Public Notice Requested
	Alpha Emitters		Public Notice Received
	Alpha Emitters		State Action-No Penalty
	Alpha Emitters		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Combined Radium	04/01/2013	Public Notice Requested
	Combined Radium		Public Notice Received
	Combined Radium		State Action-No Penalty
Exceedance of Allowable Contaminant Level	Alpha Emitters	04/01/2013	Public Notice Requested
	Alpha Emitters		Public Notice Received
	Alpha Emitters		State Action-No Penalty

Significant Deficiency

Date Identified

Date Corrected




## EPA ID#: 2295 System Name: Cedar Gulch #2

Sampler- Mr Al Sage Work Phone-(605)391-7483  
Title- Contract Operator  
Address- 5310 Ebony Place  
Piedmont SD 57769

Location- City: Rapid City County: Pennington  
Service Area- Homeowners Association  
PWS Owner Type- Private Ownership  
Water Supply Type- Groundwater Supply

Population Served- 27 Service Connections- 10

### Sources for Cedar Gulch II

Source	Name	Year Built	Depth (feet)	Diameter (inches)	Availability	Type	Vulnerability	Treatment
01	TREAT SITE - #1					Treatment Plant	Non-Vulnerable	Disinfection - Hypochlorites
03	#2	2005	2471	7	Permanent	Groundwater	Non-Vulnerable	Treatment At Plant
05	#1-CATTLE ONLY	2004	47	16		Groundwater	Non-Vulnerable	Treatment At Plant
06	TREAT SITE - #2				Permanent	Treatment Plant	Non-Vulnerable	Disinfection - Hypochlorites

**EPA ID#: 2295 System Name: Cedar Gulch #2**

**Common Ion Data**

*(All chemical data are reported in milligrams per liter (mg/l) except pH and Langlier Index)*

*Please refer to Private Well Data for more information about these test results.*

Source	Type	Date	TDS	Conductance	pH	Alk-M	Alk-P	Na	K	Ca	Mg	Fe	Mn	Cl	SO4	HCO3	CO3	Hardness	Langlier	NO3	F
01	Raw	11/16/09	2140	2680	7.62	409	0	172	17.9	312.0	87.4	9.13	0.04	110.0	1100	499	0	1140	+1.22	6.2	0.48

Source	Type	Date	TDS	Conductance	pH	Alk-M	Alk-P	Na	K	Ca	Mg	Fe	Mn	Cl	SO4	HCO3	CO3	Hardness	Langlier	NO3	F
06	Treated	11/30/11	860	1340	8.15	300	0	193	8.0	97.0	29.0	4.92	0.15	149.0	233	366	0	360	+1.10	0.3	0.50
06	Treated	09/29/15	591	881	7.66	218	0	43	7.0	98.0	29.5	0.31	0.18	5.0	256	266	0	366	+0.42	0.0	0.50
Averages			726	1111	7.91	259	0	118	7.5	97.5	29.3	2.62	0.17	77.0	245	316	0	363		0.2	0.50

You can contact us by calling or  
write us at  
23475 Bradsky Road  
Rapid City SD 57703

## Cedar Gulch #2

# 2017 Drinking Water Report

• • • • • • • • • •  
*It's your tap water!*



EPA ID: 2295



# Water Quality

*Last year, the Cedar Gulch #2 monitored your drinking water for possible contaminants. This brochure is a snapshot of the quality of the water that we provided last year. Included are details about where your water comes from, what it contains, and how it compares to Environmental Protection Agency (EPA) and state standards. We are committed to providing you with information because informed customers are our best allies.*

## Water Source

We serve more than 27 customers an average of 2,025 gallons of water per day. Our water is groundwater that we produce from local wells. The state has performed an assessment of our source water and they have determined that the relative susceptibility rating for the Cedar Gulch II public water supply system is high.

For more information about your water and information on opportunities to participate in public meetings, call and ask for Dwain Waldo.

## Additional Information

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 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.
- *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 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 can be obtained by calling the Environment Protection Agency's 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 Cedar Gulch #2 public water supply system 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>.

## Detected Contaminants

The attached table lists all the drinking water contaminants that we detected during the 2017 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1 – December 31, 2017. The state 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. Some of the data, though representative of the water quality, is more than one year old.

## Violations

Your system had violations in 2017. Please see the attached Table of Violations for information concerning these violations.

## 2017 Table of Detected Contaminants For Cedar Gulch II (EPA ID 2295)

### Terms and abbreviations used in this table:

- \* *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 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.*
- \* *Action Level(AL): the concentration of a contaminant which, when exceeded, triggers treatment or other requirements which a water system must follow. For Lead and Copper, 90% of the samples must be below the AL.*
- \* *Treatment Technique(TT): A required process intended to reduce the level of a contaminant in drinking water. For turbidity, 95% of samples must be less than 0.3 NTU*
- \* *Running Annual Average(RAA): Compliance is calculated using the running annual average of samples from designated monitoring locations.*

### Units:

- \*MFL: million fibers per liter
- \*mrem/year: millirems per year(a measure of radiation absorbed by the body)
- \*NTU: Nephelometric Turbidity Units
- \*pCi/l: picocuries per liter(a measure of radioactivity)
- \*ppm: parts per million, or milligrams per liter(mg/l)
- \*ppb: parts per billion, or micrograms per liter(ug/l)
- \*ppt: parts per trillion, or nanograms per liter
- \*ppq: parts per quadrillion, or picograms per liter
- \*pspm: positive samples per month

Substance	90% Level	Test Sites > Action Level	Date Tested	Highest Level Allowed (AL)	Ideal Goal	Units	Major Source of Contaminant
Copper	0.0	0	09/22/16	AL=1.3	0	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Lead	1	0	09/22/16	AL=15	0	ppb	Corrosion of household plumbing systems; erosion of natural deposits.

Substance	Highest Level Detected	Range	Date Tested	Highest Level Allowed (MCL)	Ideal Goal (MCLG)	Units	Major Source of Contaminant
-----------	------------------------	-------	-------------	-----------------------------	-------------------	-------	-----------------------------

Data for the water system needs to be added to this table.

Please direct questions regarding this information to Mr Al Sage with the Cedar Gulch II public water system.

## 2017 Information on Violations For Cedar Gulch II (EPA ID 2295)

(This Drinking Water Report can be used as a Tier III Public Notice if distributed to each customer within 12 months of when the system was notified of the violation.)

Violation Type	Parameter	Date System Notified	Duration In Months	Health Effects Language	Action Taken By Your System
Exceedance of Allowable Contaminant Level	Alpha Emitters	03/27/17		Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.	<p>Corrective action taken by your system:</p> <p><input type="checkbox"/> We have since completed the required compliance measures.</p> <p><input type="checkbox"/> We have taken additional measures within the water system administration to be sure that samples are taken properly in the future.</p> <p><input type="checkbox"/> The proper number of samples was taken in the following month and we are now back in compliance with the sampling regulations.</p> <p><input type="checkbox"/> Other(specify)_____</p>
Exceedance of Allowable Contaminant Level	Combined Radium	03/27/17		Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.	<p>Corrective action taken by your system:</p> <p><input type="checkbox"/> We have since completed the required compliance measures.</p> <p><input type="checkbox"/> We have taken additional measures within the water system administration to be sure that samples are taken properly in the future.</p> <p><input type="checkbox"/> The proper number of samples was taken in the following month and we are now back in compliance with the sampling regulations.</p> <p><input type="checkbox"/> Other(specify)_____</p>
Failure to Monitor	SOC Group 515	05/12/17	3	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 our drinking water meets health standards. Since we did not monitor for these contaminants we cannot be sure of the quality of the drinking water.	Back in compliance.
Failure to Monitor	SOC Group 524	05/12/17	3	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 our drinking water meets health standards. Since we did not monitor for these contaminants we cannot be sure of the quality of the drinking water.	Back in compliance.
Failure to Monitor	SOC Group 525	05/12/17	3	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 our drinking water meets health standards. Since we did not monitor for these contaminants we cannot be sure of the quality of the drinking water.	Back in compliance.
Failure to Monitor	SOC Group 531	05/12/17	3	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 our drinking water meets health standards. Since we did not monitor for these contaminants we cannot be sure of the quality of the drinking water.	Back in compliance.
Failure to Monitor	SOC Group 547	05/12/17	3	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 our drinking water meets health standards. Since we did not monitor for these contaminants we cannot be sure of the quality of the drinking water.	Back in compliance.
Failure to Monitor	SOC Group 548	05/12/17	3	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 our drinking water meets health standards. Since we did not monitor for these contaminants we cannot be sure of the quality of the drinking water.	Back in compliance.
Failure to Monitor	SOC Group 549	05/12/17	3	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 our drinking water meets health standards. Since we did not monitor for these contaminants we cannot be sure of the quality of the	Back in compliance.



Violation Type	Parameter	Date System Notified	Duration In Months	Health Effects Language	Action Taken By Your System
				drinking water.	
Exceedance of Allowable Contaminant Level	Alpha Emitters	06/26/17		Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.	<p>Corrective action taken by your system:</p> <p><input type="checkbox"/> We have since completed the required compliance measures.</p> <p><input type="checkbox"/> We have taken additional measures within the water system administration to be sure that samples are taken properly in the future.</p> <p><input type="checkbox"/> The proper number of samples was taken in the following month and we are now back in compliance with the sampling regulations.</p> <p><input type="checkbox"/> Other(specify)_____</p>
Exceedance of Allowable Contaminant Level	Combined Radium	06/26/17		Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.	<p>Corrective action taken by your system:</p> <p><input type="checkbox"/> We have since completed the required compliance measures.</p> <p><input type="checkbox"/> We have taken additional measures within the water system administration to be sure that samples are taken properly in the future.</p> <p><input type="checkbox"/> The proper number of samples was taken in the following month and we are now back in compliance with the sampling regulations.</p> <p><input type="checkbox"/> Other(specify)_____</p>
Exceedance of Allowable Contaminant Level	Alpha Emitters	09/06/17		Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.	<p>Corrective action taken by your system:</p> <p><input type="checkbox"/> We have since completed the required compliance measures.</p> <p><input type="checkbox"/> We have taken additional measures within the water system administration to be sure that samples are taken properly in the future.</p> <p><input type="checkbox"/> The proper number of samples was taken in the following month and we are now back in compliance with the sampling regulations.</p> <p><input type="checkbox"/> Other(specify)_____</p>
Exceedance of Allowable Contaminant Level	Combined Radium	09/06/17		Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.	<p>Corrective action taken by your system:</p> <p><input type="checkbox"/> We have since completed the required compliance measures.</p> <p><input type="checkbox"/> We have taken additional measures within the water system administration to be sure that samples are taken properly in the future.</p> <p><input type="checkbox"/> The proper number of samples was taken in the following month and we are now back in compliance with the sampling regulations.</p> <p><input type="checkbox"/> Other(specify)_____</p>
Exceedance of Allowable Contaminant Level	Alpha Emitters	01/16/18		Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.	<p>Corrective action taken by your system:</p> <p><input type="checkbox"/> We have since completed the required compliance measures.</p> <p><input type="checkbox"/> We have taken additional measures within the water system administration to be sure that samples are taken properly in the future.</p> <p><input type="checkbox"/> The proper number of samples was taken in the following month and we are now back in compliance with the sampling regulations.</p>

Violation Type	Parameter	Date System Notified	Duration In Months	Health Effects Language	Action Taken By Your System
Exceedance of Allowable Contaminant Level	Combined Radium	01/16/18		Some people who drink water containing radium 226 or 228 in excess of the MCL over many years may have an increased risk of getting cancer.	<input type="checkbox"/> Other(specify) _____ Corrective action taken by your system: <input type="checkbox"/> We have since completed the required compliance measures. <input type="checkbox"/> We have taken additional measures within the water system administration to be sure that samples are taken properly in the future. <input type="checkbox"/> The proper number of samples was taken in the following month and we are now back in compliance with the sampling regulations. <input type="checkbox"/> Other(specify) _____

For additional information concerning any violation please contact Mr Al Sage with the Cedar Gulch II public water system.