

CHAMA WATER SYSTEM

PO Box 794 | CHAMA | NM | 87520 | 575-419-2743

2020 CONSUMER CONFIDENCE REPORT

IS MY DRINKING WATER SAFE?

We are pleased to present the 2020 Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by the New Mexico Environment Department/Drinking Water Bureau (NMED/DWB). This is a comprehensive report of last year's water quality for Chama Water System PWSS# NM3501021. We are committed to providing Chama Water System this information so that you are aware of the contaminants in your drinking water.

DO I NEED TO TAKE SPECIAL PRECAUTIONS?

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 and/or EPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants. More information is available from the Safe Drinking Water Hotline (800-426-4791). Your health is important to us, please contact a physician with any health concerns.

WHERE DOES MY WATER COME FROM?

Chama Water System is here to provide excellence in quality and service to customers at a minimal cost while protecting the environment and exceeding all quality standards. The Chama Water System is a surface water system that gets its water supply from the Rio Chama via river intake.

Daily and weekly operations: administration, 24 hour on call emergency response, maintenance and inspection of water/sewer utility distribution and collection systems and water treatment facilities, laboratory sampling, and fiscal reports.

We Care

We are responsible for ensuring that any contaminants in your drinking water are restricted below a level at which there is no known health risk.

This report shows the types and amounts of key elements in your water supply, their likely sources and the maximum contaminant level (MCL) that the EPA considers safe.

Our water system meets the requirements of the Safe Drinking Water Act (SDWA). If for any reason the standards are not met, the public will be notified.

Chama Water System welcomes your input. Contact us for more information on getting involved.

WHY ARE THERE CONTAMINANTS IN MY DRINKING WATER?

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 (EPA) Safe Drinking Water Hotline (800-426-4791).

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. It can also pick up substances resulting from the presence of animals or from human activity (microbial contaminants such as viruses and bacteria that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife). A variety of sources such as agriculture, urban stormwater runoff, and residential uses may contain Inorganic Contaminants such as salts and metals, which can be either naturally occurring or result from urban stormwater runoff, industrial, domestic wastewater discharges, oil and gas production, mining, farming, pesticides and herbicides.

Organic Chemical Contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, can also come from gas stations, urban stormwater runoff, and septic systems. Radioactive contaminants can either occur naturally 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 that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

WATER TABLE QUALITY

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of contaminants in water provided by public water systems. The table on the right lists all of the drinking water contaminants that we detected during the calendar year of this report. Although many more contaminants were tested, only those substances listed below were found in your water. All sources of drinking water contain some naturally occurring contaminants. At low levels, these substances are generally not harmful in our drinking water. Removing all contaminants would be extremely expensive, and in most cases, would not provide increased protection of public health. A few naturally occurring minerals may actually improve the taste of drinking water and have nutritional value at low levels. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report.

SOURCE WATER ASSESSMENT & ITS AVAILABILITY

A Source Water Assessment has been performed for Chama Water System and is available for review. For a copy of the assessment, Contact David Torres 505.259.5048 or david.torres@state.nm.us.

Although throughout the United States it is common to find potential sources of contamination located atop well-heads, continued regulatory oversight, wellhead protection plans and other planning efforts continue to be the primary methods of protecting and ensuring high quality drinking water.

REGULATED CONTAMINANTS								
Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chlorine	2020	1.1	0.3 - 1.1	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haloacetic Acids (HAA5*)	2020	17	10.3 - 16.6	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
TTHM	2020	63	16.2 – 62.5	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2020	0.035	0.035 - 0.035	2	2	ppm	N	Discharge from steel and pulp mills; Erosion of natural deposits.
Arsenic	2020	1	1-1	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Nitrate (measured as Nitrogen)	2020	0	0 - 0	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Volatile Organic Chemicals	Collection Date	Highest level detected	Rang of levels	MCLG	MCL	Units	Violation	Likely Source of Contamination
Xylenes	2020	0.0023	0 - 0.0023	10	10	ppm	N	Discharge chem/petroleum factories
Microbiologic Contaminants	Collection Date	Limit (Treatment Technique)	Level Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Turbidity	2020	1.0	0.34	NA	0.3	NTU	N	Soil Runoff
100 percent of the samples were below the TT value of 0.3. A value less than 95 percent constitutes a TT violation. The highest single measurement was 0.34. Any measurement in excess of 1, unless otherwise approved by the state.								
Radioactive Contaminants	Collection Date	Highest Level De- tected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Beta/photon emitters	2015	1.2	1.2 - 1.2	0	4	mrem/yr	N	Decay of natural and man-made deposits.
Combined Radium 226/228	2015	0.04	0.04 - 0.04	0	5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium	2015	0.1	0.1 - 0.1	0	15	pCi/L	N	Erosion of natural deposits.
Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2019	1.3	1.3	0.66	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	2019	0	15	1.3	1	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

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IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monthly Reporting Requirements Not Being Met by the Chama Water System

Our water system recently violated a drinking water regulation. Although this is not an emergency, as our customers, you have a right to know what happened, what you should do, and **what we did** to correct this situation.

We are required to submit turbidity data and chlorine levels to the State on a monthly basis. This requirement has not been met for the month(s) of: April 2020

What does this mean?

This is not an emergency. If it had been you would have been notified immediately.

Monitoring and reporting turbidity and chlorine levels in your water are important in ensuring safe water to all our customers. **Chlorine is added to the water to inactivate bacteria that may be present. Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease causing organisms. These organisms include bacteria, viruses, and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. ** These symptoms are not caused only by organisms in drinking water. If you experience any of these symptoms and they persist, you may want to seek medical advice. Tests taken during this time period **did not** indicate the presence of bacteria in the drinking water system during this period. Monitoring during this time period **did not** indicate turbidity higher

than the maximum allowable, water was being trucked in by neighboring systems and continuously tested

What should I do? **Nothing.** There was a boil water advisory in place during this period. This issue was resolved in June 2020, and measures were taken to protect you at the time of the crisis, including bacteriological samples which indicated no harmful bacteria detected. If you have specific health concerns, please contact your health care professional. **What happened/ what is being done?** At the time of this violation no report data was supplied by outgoing operations staff, the treatment plant was not operating continuously or within compliance, water was being trucked in by other systems, and a treatment plant rehab was being scheduled. The Village followed required action, and guidance from the New Mexico Environment Department (NMED) during this crisis

We anticipate resolving the problem within Resolved and boil water advisory lifted in JUNE 2020 by NMED

For more information, please contact: Donald Thymes at 505-756-2184 Chama Water System,
NM3501021
P.O. Box 794,
Chama, NM 87520

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

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We are required to submit turbidity data and chlorine levels to the State on a monthly basis. This requirement has not been met for the month(s) of: May 2020

What does this mean?

This is not an emergency. If it had been you would have been notified immediately.

Monitoring and reporting turbidity and chlorine levels in your water are important in ensuring safe water to all our customers. **Chlorine is added to the water to inactivate bacteria that may be present. Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease causing organisms. These organisms include bacteria, viruses, and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. * These symptoms are not caused only by organisms in drinking water. If you experience any of these symptoms and they persist, you may want to seek medical advice. Tests taken during this time period **did not** indicate the presence of bacteria in the drinking water system during this period. Monitoring during this time period **did not** indicate turbidity higher than the maximum allowable.*

What should I do? Nothing. There was a boil water advisory in place during this period. This issue was resolved in June 2020, and measures were taken to protect you at the time of the crisis, including bacteriological samples which indicated no harmful bacteria detected. If you have specific health concerns, please contact your health care professional. **What happened/ what is being done?** At the time of this violation, the treatment plant was not operating or within compliance, water was being trucked in by other systems, and a treatment plant rehab was in progress. The Village followed required action, and guidance from the New Mexico Environment Department (NMED) during this crisis

Monitoring of the system is current and continuous.

We anticipate resolving the problem within **Resolved - The boil water advisory was lifted in June 2020 by NMED**

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IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monthly Reporting Requirements Not Being Met by the Chama Water System

Our water system recently violated a drinking water regulation. Although this is not an emergency, as our customers, you have a right to know what happened, what you should do, and **what we did (are doing)** to correct this situation.

We are required to submit turbidity data and chlorine levels to the State on a monthly basis. This requirement has not been met for the month(s) of: June 2020

What does this mean?

This is not an emergency. If it had been you would have been notified immediately.

Monitoring and reporting turbidity and chlorine levels in your water are important in ensuring safe water to all our customers. **Chlorine is added to the water to inactivate bacteria that may be present. Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease causing organisms. These organisms include bacteria, viruses, and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. ** These symptoms are not caused only by organisms in drinking water. If you experience any of these symptoms and they persist, you may want to seek medical advice.

Tests taken during this time period **did not** indicate the presence of bacteria in the drinking water system during this period. Monitoring during this time period **did not** indicate turbidity higher than the maximum allowable.

What should I do? NOTHING - The utility inadvertently failed to attach the document in the email report which was sent before the deadline, then submitted the report with attachment after being notified that it was missing.

What is being done? This was an oversight when the email was sent. A document was not attached. We now check the emails through 3 recipients before they are sent to make sure they are complete.

We anticipate resolving the problem within RESOLVED and report was attached immediately upon notification

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NM3501021
P.O. Box 794,
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Monthly Reporting Requirements Not Being Met By Chama Water System

Our water system recently violated a drinking water regulation. Although this is not an emergency, as our customers, you have a right to know what happened, what you should do, and **what we did (are doing)** to correct this situation.

We are required to submit turbidity data and chlorine levels to the State on a monthly basis. **WHAT HAPPENED?** This requirement **HAS** been met for the month(s) of: January 2021. The report was accidentally submitted on February 9th (before the deadline) with the report *template* attached instead of the report, although the data was discussed on the cover letter dated the 9th. When brought to our attention we immediately, the following day on February 11th, sent the correct attachment. A violation for failure to report was issued to the Village on February 16th, 5 days after the report was delivered to NMED. The Village requested that the violation be rescinded on the basis that the report contents were presented in the cover letter and the attachment was just inadvertently switched. The request was denied.

What does this mean?

This is not an emergency. If it had been you would have been notified immediately.

Monitoring and reporting turbidity and chlorine levels in your water are important in ensuring safe water to all our customers. **Chlorine is added to the water to inactivate bacteria that may be present. Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease causing organisms. These organisms include bacteria, viruses, and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. ** These symptoms are not caused only by organisms in drinking water. If you experience any of these symptoms and they persist, you may want to seek medical advice.

Tests taken during this time period **did not** indicate the presence of bacteria in the drinking water system during this period.

What should I do?

You do not need to use an alternative (e.g., bottled) water supply. However, if you have specific health concerns, please contact your health care professional.

What is being done? Reviewing attachments before emails are sent out

We anticipate resolving the problem within **RESOLVED FEBRUARY 11th, 2021**

For more information, please contact: Donald Thymes, 575-756-2184 Chama Water System, NM3501021
P.O. Box 794,
Chama, NM 87520

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IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Monitoring and Reporting Requirements Not Met for Chama Water System water system

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.

On 4-20-20 we became aware that our system recently failed to collect the correct number of drinking water samples. Although this incident was not an emergency, as our customers, you have a right to know what happened, and what we are doing to correct the situation.

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. Table1 list the contaminants and the compliance periods which we did not monitor or test and therefore cannot be sure of the quality of our drinking water during the compliance periods.

Table 1

Contaminant	Facility	Compliance Period
Total Organic Carbon	Raw Water & treatment Plant	January 2020
Total Organic Carbon	Raw Water & treatment Plant	February 2020
Total Organic Carbon	Raw Water & treatment Plant	March 2020

What should you do?

There is nothing you need to do for this particular violation

What happened? What is being done? We do not know why the previous operations staff did not sample in January or February. We have no record of a notice of violation delivered to the Village for January or February, as is listed in the table before April 20, 2021. In March there was no appropriately certified operator at the plant to pull samples and submit reports. The facility now has an operations staff who have been on site since April 9th, 2020.

For more information, please contact:

Donald Thymes at Donald Thymes 575-756-2184
Chama Water System, NM3501021
P.O. Box 794
Chama, NM 87520

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Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.

On **July 30th, 2020** we became aware that our system recently failed to collect the correct number of drinking water samples. Total organic carbon was not monitored in June 2020. Although this incident was not an emergency, as our customers, you have a right to know what happened, and what we are doing to correct the situation.

**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. Below is the contaminant and the compliance period which we did not monitor or test and therefore cannot be sure of the quality of our drinking water during the compliance period. *Total Organic Carbon – June 2020*

What should you do? There is nothing you need to do for this particular violation. **What Happened? What is being done?** We did indeed sample for and actually transported these samples to a laboratory in Albuquerque. There was a tent set up to drop samples due to Covid-19 restrictions. The samples were dropped off without any contact or receipt Chain of Custody form, as directed by the lab. After the violation was sent by the state we called the lab to find out what happened to our sample, they could not explain. Now, even with the drop off tent, we do not leave the lab without signatures of receipt on the Chain of Custody forms.

For more information, please contact:

Donald Thymes at Donald Thymes **575-756-2184**
Chama Water System, NM3501021
P.O. Box 794
Chama, NM 87520

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Monitoring Requirements Not Met for Chama Water System

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.

Our water system violated drinking water requirements over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we are doing (did) to correct these situations.

**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. During the 1st quarter of 2020 we did not monitor or test for disinfection byproducts (Total Haloacetic Acids) and therefore cannot be sure of the quality of your drinking water during that time. **

Table 1

Contaminants	Sample Name (Address)	Sampling Frequency	Compliance Period
Total Haloacetic Acids	HAA5-IND Sundial Gas Station	Quarterly (3 rd month of QTR)	1Q2020

What should you do?

There is nothing you need to do. You do not need to boil your water or take other corrective actions. You may continue to drink the water. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours. **What happened/what are we doing about it?** The system was without an appropriately certified system operator at the time this sampling was supposed to occur. We have since taken the required samples, as described in the last column of the table above. The samples showed we are meeting drinking water standards. We have reviewed the sampling schedule, there is an operations staff on site, and the issue has been resolved.

For more information please contact Donald Thymes, Village of Chama, at 575-765-2184
or at: Chama Water System, NM3501021
P.O. Box 794
Chama, NM 87520

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Our water system violated drinking water requirements over the past year. Even though these were not emergencies, as our customers, you have a right to know what happened and what we are doing (did) to correct these situations.

**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. During the 2nd and 3rd quarters of 2020 we did not complete all monitoring or testing for disinfection byproducts (Total Trihalomethanes and Haloacetic Acids) and therefore cannot be sure of the quality of your drinking water during that time. **

Table 1

Contaminants	Sample Name (Address)	Sampling Frequency	Compliance Period(s)
Total Trihalomethanes	TTHM-IND Vista del Rio Lodge	Quarterly (1 st month of QTR)	2Q2020
Total Haloacetic Acids	HAA5-IND Speedway Gas Station	Quarterly (3 rd month of QTR)	3Q2020

What should you do?

There is nothing you need to do. You do not need to boil your water or take other corrective actions. You may continue to drink the water. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.

What happened and what is being done?

The system was without a certified system operator at the time this sampling was supposed to occur. We have since taken the required samples, as described in the last column of the table above. The samples showed we are meeting drinking water standards. We have reviewed the sampling schedule, there is an operations staff on site, and the issue has been resolved.

For more information, please contact:

Donald Thymes at 575-419-2743 or at:

Chama Water System, NM3501021
P.O. Box 794
Chama, NM 87520

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Unit Descriptions	
Term	Definition
ug/L	ug/L : Number of micrograms of substance in one liter of water
ppm	ppm: parts per million, or milligrams per liter (mg/L)
ppb	ppb: parts per billion, or micrograms per liter (µg/L)
pCi/L	pCi/L: picocuries per liter (a measure of radioactivity)
NA	NA: not applicable
ND	ND: Not detected
NR	NR: Monitoring not required, but recommended.
MCLG	MCLG: Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which there is no known or expected risk to health.
MCL	MCL: Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water.
TT	TT: Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.
AL	AL: Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Variances and Exemptions	Variances and Exemptions: State or EPA permission not to meet an MCL or a treatment technique under certain conditions.
MRDLG	MRDLG: Maximum residual disinfection level goal. The level of a drinking water disinfectant below which there is no known or expected risk to health.
MRDL	MRDL: Maximum residual disinfectant level. The highest level of a disinfectant allowed in drinking water.
MNR	MNR: Monitored Not Regulated
MPL	MPL: State Assigned Maximum Permissible Level

ADDITIONAL INFORMATION FOR 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. Chama Water 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 www.epa.gov/safewater/lead.

ADDITIONAL INFORMATION FOR ARSENIC

While your drinking water meets EPA standards for arsenic, it does contain low levels of arsenic. EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

HOW CAN I GET INVOLVED?

Chama Water System encourages public interest and participation in the decisions affecting drinking water. Please contact Donald Thymes at DonaldT@villageofchama.org for more information.

ESPAÑOL

Este reporte contiene información muy importante sobre la calidad de su agua potable durante el año civil 2020. Si usted no comprende esta información, comuníquese con alguien que pueda traducir el información.