



Annual Drinking Water Quality Report

Public Water System #NM35-246-26

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Consumer Confidence Report

As required by the Environmental Protection Agency and The Environment Department of the State of New Mexico

APRIL 15, 2020

What is the purpose of this report?

We are pleased to provide you with our report on drinking water quality, also known as the "Consumer Confidence Report (CCR)". We provide this report every year, pursuant to federal law, in an effort to keep you informed about the water and services we delivered during the previous year. This report shows that we are achieving our goal - to provide you with a safe and reliable supply of drinking water.

Our water meets or exceeds all federal and state standards for drinking water quality.

Inside this report, you will find information about:

Your drinking water from the source tap.

Results of EPA or State required contaminant testing

Water Education

EWWA Information and Upcoming Dates



EWWA provides water and wastewater for parts of the East Mountain community.

EWWA Board of Directors

Chair	Linda	Barbour

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Entranosa Water & Wastewater Association

505-281-8700 1330 State Highway 333 Tijeras, NM 87059

www.entranosawater.com

- Monthly board meeting are held at the EWWA office. Members are welcome to attend, but please provide 48 hours of notice to schedule your attendance. Meeting schedules and agendas are available at https://www.entranosawater.com/board-meetings or by contacting our office at 505-281-8700.



Key Terms for Reading This Report

Cryptosporidium is a microbial pathogen found in surface water throughout the U.S. We monitor the river for Cryptosporidium. If ingested, these parasites may produce symptoms of nausea, stomach cramps, diarrhea, and associated headaches. Current test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Cryptosporidium is reported in oocysts, which are spores of the organism. During the 24-month sampling period, only one (1) cryptosporidium oocyst was measured in our source water.

Based on the levels of Cryptosporidium found in source water, the USEPA requires water systems to use specific treatment techniques and to demonstrate their effectiveness. For example, the San Juan-Chama Drinking Water Plant was designed to provide a multi-barrier approach (presedimentation, clarification, and filtration) to removing Cryptosporidium in order to meet the USEPA requirements.

Detected: The concentration of a substance measured at or above the detection limit.

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.

Maximum Residual Disinfectant 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 Disinfectant 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.

Parts Per Billion (PPB): Parts per billion or micrograms per liter (μ g/L). 1 PPB = 0.001 PPM. Example: 1 drop of water in an Olympic-size swimming pool.

Parts Per Million (PPM): Parts per million or milligrams per liter (mg/L). 1 PPM = 1,000 PPB. Example: 4 drops of water in a 55-gallon barrel. **picoCuries per liter (pCi/L):** A measure of radioactivity.

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

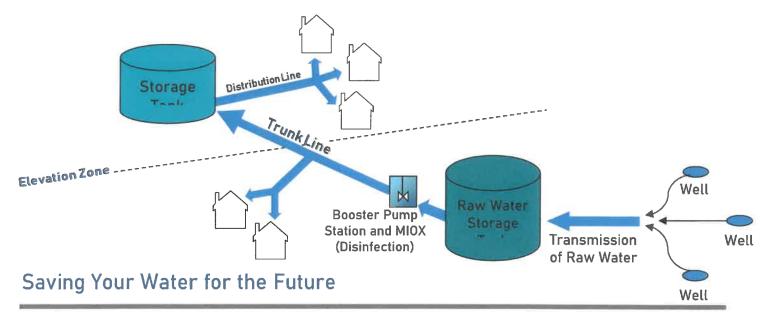
Responses to Frequently Asked Questions (FAQs) are provided at www.entranosawater.com



Where Does The Water Come From?

In 2019, we obtained our water from seven wells, located in four separate well fields. Our original, and traditional, source is the Horton Well Field from which we draw water in the fractured Madera Limestone formations of the Estancia Basin. Our second source is in the Pine Canyon region of the Estancia Valley, from which we draw out of alluvial (gravel) and sandstone formations. Our third source is new, Freedom Wells is sourced from alluvial formations. We utilize an approved EPA disinfection technology called MIOX, which

produces multiple, redundant, disinfection agents created by means of an electro-chemical reaction using sodium chloride (table salt) which produces hydrogen peroxide and a weak chlorine solution. We check the residual strength of the chlorine in various parts of the system on a weekly basis, and we obtain bacteriological samples every two weeks from various parts of the systems - these are analyzed at labs that have been certified by the State of NM and the results are reported to NMED.



Our wells vary in depth from 560' to 1080' and are resilient to the affects of drought. In our planning process, we allocate 1/3 of an acre foot of water for each residential property, about 108,000 gallons per year and Bernalillo County requires that we commit 0.6 acre feet per year (195,510 gallons) per residence in new subdivisions in the County, which automatically creates a water rights 'reserve' because all of that water will not be consumed. Our Conservation Plan was completed in 1998 and it has, traditionally, been effective. Our drought management plan was updated six years ago and has continually shown effectiveness.

Key Elements

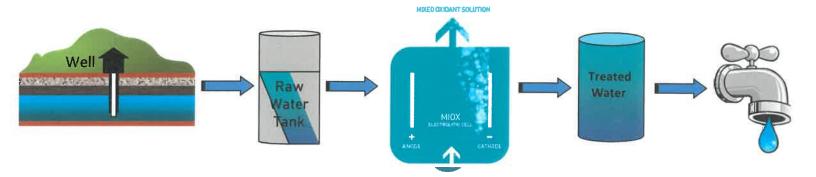
- Public Input
- Drought Mitigation Goals and Objectives
- Assess Supply and Demand
- Define Drought Indicators
- Identify and Assess Drought Mitigation Measures

For details of the Water Conservation Plan, contact EWWA for details or visit www.entranosawater.com/conservation-tips



MIOX in Your Water

Raw water is pumped from the wells to the raw water storage tanks via large-diameter pipelines. The water is treated through injection with our MIOX Mixed Oxidation Solution (MOS). MIOX is a high performing yet environmentally benign disinfectant.



TECHNOLOGY OVERVIEW

MIOX on-site generators produce chlorine-based disinfectants when a solution of sodium chloride (salt + water) is passed through an electrolytic cell. This process converts the chloride ions present in the solution to sodium hypochlorite.

MIXED OXIDANT SOLUTION

SODIUM HYPOCHLORITE

Entranosa's MIOX Mixed Oxidant Solution (MOS) system converts some of the oxygen in the water molecule into hydrogen peroxide. This combination of sodium hypochlorite and hydrogen peroxide creates a unique chemistry that has many proven operational benefits in drinking water applications.

Is the water safe?



In calendar year 2019 your tap water met the primary standards set by the U.S. Environmental Protection Agency (EPA) and the drinking water quality standards of the State of New Mexico (NMED). This past year, we conducted routine and random bacteriological testing, and assisted the NMED in obtaining water samples to test for the contaminants covered by the Safe Drinking Water Act (SDWA). While some of the tests reflected the presence of a contaminant that is 'normal' (discussed on page 7) and those are not harmful. None of the tests results violated the programmatic levels authorized by EPA. Your water was safe in 2019 and remains so.



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 those 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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Water Drinking Hotline (800-426-4791) ... although Cryptosporidium is <u>not</u> normally associated with groundwater sources.

For further information on guidelines please visit www.epa.gov or www.cdc.gov

Source Water Assessment and its availability

A "Susceptibility Analysis" of our system was conducted by NMED several years ago and it reports our facilities are well maintained and operated, and the sources of drinking water are generally protected from potential sources of contamination based on well construction, hydrogeologic characteristics, and system operations and management. The susceptibility rank of the entire water system is MODERATELY HIGH.

Although it is common to find potential sources of contamination, throughout the United States, located atop wellheads, persistent regulatory oversight, wellhead protection plans and other planning efforts, approved construction techniques and disinfection processes that are monitored serve as the primary methods of protecting and ensuring high quality drinking water.



Copies of the NMED analysis, also called a 'source water assessment' are available from us at the Entranosa office. In addition, copies may be requested from the Drinking Water Bureau (DWB) of NMED at (877) 654-8720 or (505) 476-8623 and ask for Jill Turner (program coordinator). Please provide your name, address, phone number, your email address (if applicable), and the name of Entranosa. The DWB may charge a nominal fee for paper copies.

Responses to Frequently Asked Questions (FAQs) are provided at www.entranosawater.com



Why are there contaminants in my drinking water?

Drinking water, including bottled water, may reasonably be expected to contain 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) across the Nation include rivers, lakes, streams, ponds, reservoirs, springs, and wells (all of our water is sourced from deep wells). As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and (and in some cases, radioactive material), and can pick up substances resulting from the presence of animals or from human activity. Contaminants are categorized as: *Microbial contaminants*, such as viruses and bacteria, and 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 storm water runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming; *pesticides and herbicides* may come from a variety of sources such as agriculture, urban storm water 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 storm water runoff, and septic systems. *Radioactive contaminants* 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 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.

Lead & copper

We conducted routine tests in 2018 and the results met the threshold requirements set by EPA at which lead and copper are considered safe with regard to health. Elevated levels of lead, **if present**, can lead to health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and household plumbing (i.e. lead based solder and flux, while prohibited from use in household plumbing systems, has been found in homes). We are responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components.

If you have a concern, and your water has been sitting for several hours, you can minimize the potential for exposure to Lead 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 might have your water tested, individually. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure are available from the Safe Drinking Water Hotline or at http://www.epa.govsafewater/lead.

Water Quality Data Table (2019)



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 below 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 that are not harmful to the public health at low levels. Removing all contaminants would be extraordinarily, would not provide increased protection to the public, and would alter the taste. The EPA or the State requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. As such, some of our data, though representative, may be more than one year old. In this table you will find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the definitions below the table.

Coliform Bacte	ria							
Sample Date	MCLG	Total Coliform Allowed	Highest positive	Fecal or Ecoli allowed	Fecal or Ecoli positive collected	Violation	Likely	Source of Contamination
Monthly in 2019	0	0	0	0	0	NO	Naturally p	resent in the environment
Disinfectants &	Disinfecta	int By-Pro	ducts					
Contaminant	Collect Date	Highest level	Range of Levels	MCLG	MCL	Units	Violation	Likely Source
Chlorine	2019	0.8	0.7 – 0.8	MRDLG = 4	MRDL= 4	Ppm	NO	Water additive used to control microbes
Haloacidic Acids (HAA5)	2019	2	1.6 – 2.6	No Goal	60	Ppb	NO	By-product of drinking water disinfection
Trihalomethene (TTHMs)	2019	1	0 – 2.3	No Goal	80	Ppb	NO	By-product of drinking water disinfection
Inorganic Conta	minants							
Contaminant	Collect Date	Highest level	Range of Levels	MCLG	MCL	Units	Violation	Likely Source
Arsenic	2019	2	2-2	0	10	Ppb	NO	Erosion of natural deposits
Barium	2019	0.12	0.12 - 0.12	2	2	Ppm	NO	Erosion of natural deposits
Fluoride	2019	0.61	0.61- 0.61	4	4	Ppm	NO	Erosion of natural deposits
Nitrate (measured as Nitrogen)	2019 .	2	1.38 - 1.74	10	10	Ppm	NO	Runoff from fertilizer use; leaching from septic tanks; erosion of natural deposits
Radioactive Con	taminants							
Contaminant	Collect Date	Highest level	Range of Levels	MCLG	MCL	Units	Violation	Likely Source
Beta/photon emitters	2014	7.4	2.7 – 7.4	0	4	mrem/yr	NO	Decay of natural and manmade deposits



Combined Radium (226/228)	2014	1.12	0.13 - 1.12	0	5	pCi/L	NO	Erosion of natural deposits
Gross Alpha, excluding radon and uranium	2014	11.9	2.9 – 11.9	0	15	pCi/L	NO	Erosion of natural deposits
Uranium	2014	7	3-7	0	10	ug/L	NO	Erosion of natural deposits
Synthetic Organ	nic contan	ninants, in	cluding pe	esticides a	and herbici	des		
	Collect date	Highest Level	Range of Levels	MCLG	MCL	Units	Violation	Likely Source of Contamination
Heptaclor	2017	41	0 - 41	0	400	ppt	NO	Residue of banned pesticide
Hexachloro- benzene	2017	0.021	0 - 0.021	0	1	ppb	NO	Discharge from metal refineries and agricultural chemical factories
Hexachloro- cyclopentadiene	2017	0.062	0 <i>-</i> - 0.062	50	50	ppb	NO	Discharge from chemical factories
Lindane	2017	21	0 - 21	200	200	ppt	NO	Runoff/leaching from insecticide used on cattle, lumber, gardens
Lead & Copper								
	Collect date	MCLG	Action Level (AL)	90 th percentile	# sites over 90 th percentil e AL	Units	Violation	Likely Source of Contamination
Lead	2018	0	0.015	.010	0	ppm	NO	Erosion of natural deposits; leaching from wood preservative; corrosion of household plumbing
Copper	2018	0	1.3	0.48	0	ppm	NO	Erosion of natural deposits; corrosion of household plumbing

<u>Term</u>	<u>Definition</u>
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. MCLGs allow for a margin of safety.
MCL	MCL: Maximum Contaminant Level: 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.
π	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. MRDLGs do not reflect the benefits of the use of disinfectants to control microMRbial contaminants.
MRDL	MRDL: Maximum residual disinfectant level. 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.



MNR	MNR: Monitored Not Regulated
MPL	MPL: State Assigned Maximum Permissible Level
90 th percentile	The stratified value of the sample at the 90 th percentile – the third from the highest value, in our case
Average (ave)	Regulatory compliance with some MCLs are based on running annual average of monthly samples
Ppm	Milligrams per liter or parts per million – or one ounce in 7,350 gallons of water
Ppb	Micrograms per liter or parts per billion – or one ounce in 7,350,000 gallons of water
Ppt	Nanograms per liter or parts per trillion

Radon

We did some random radon testing in 2009, and the highest recorded level was 325 pCi/L, which is considered acceptable. Radon is a radioactive gas that you can't see, taste, or smell and it is found throughout the United States. Radon can move up through the ground and into a home through cracks and holes in the foundation. Radon can build up to high levels in all types of homes. Radon can also get into indoor air when released from tap water - from showering, washing dishes, and other household activities. Radon entering your home through tap water, compared to radon entering the home through soil, is a very small percentage of radon in indoor air (estimated to be about 2%).

Radon is known as a human carcinogen, and breathing air with radon can lead to lung cancer. Water containing radon may contribute to increased radon levels in indoor air. Breathing air containing radon can lead to lung cancer. Drinking water containing radon may also cause increased risk of stomach cancer. Studies indicate that up to two percent of airborne Radon in the home is sourced by aeration of water. If you are concerned about radon in your home, you can test for it. Although the New Mexico Environment Department no longer provides test kits as part of their Radon Outreach Program, you may call program manager Michael Taylor at (505)-476-8608 or Michael Ortiz (505)-476-8605 with questions. By whatever means, if you determine that you have an airborne radon level of 4 picocuries per liter (pCi/L) of air or higher, authorities recommend that you take steps to remedy the problem. There are simple ways to fix a radon problem that aren't too costly, which includes ventilating the home. For additional information, call NMED at (505) 827-2855 or call EPA's Radon Hotline (800-SOS-RADON). You can purchase a radon test kit at www.drhomeair.com and get a discount by clicking on 'state programs', which is located in the middle of the banner. Then click on either "New Mexico" or "NM Bernalillo County".

Please visit our website www.entranosawater.com



Other Information

Most of the questions we receive about the quality of water we provide do NOT deal with the main contents of this report nor the primary contaminants and health aspects of water, but with the secondary characteristics of the water - iron, calcium, hardness, taste, etc. - the 'esthetics'. Our water sources (well fields) have different characteristics because they are derived from different geologic formations. The table that follows is intended to help answer the common queries, divided by source. These results were obtained from tests that were conducted in April of 2007. Note that the 'mix' of the water will vary throughout the year, from month to month, due to maintenance, weather conditions, and demand.

Characteristics	Horton Field	Pine Canyon
iron	0.1 mg/L	< 0.1 mg/L
Manganese	< 0.005 mg/L	< 0.001 mg/L
Silica	9.14 mg/L	9.56 mg/L
Sodium	32.2 mg/L	15.8 mg/L
Sulfate	27.9 mg/L	33 mg/L
lardness (Ca & Mg)	578 mg/L	197 [^] mg/L
Calcium	180.8 mg/L	45.2 mg/L
Magnesium	34.4 mg/L	20.3 mg/L
Chloride	16.3 mg/L	< 10 mg/L

0.03 mg/L

Table of Other Information for Source Water

Water Pressure

Aluminum

Checking your water pressure routinely is vital for your line and plumbing safety. Because EWWA has an intricate system that varies in different elevations, water being pump will have variances in pressure. We work diligently to monitor pressures and water activity. One item that is of big help on our meters is a Pressure Regulating Valve (PRV). As required, Entranosa has a PRV installed in every meter it services but it is also a requirement for homeowners to have a PRV installed on their side of the line. In a working effort, the two PRV's regulate incoming water and ultimately prevent leaks. Another responsibility a homeowner has is periodically checking their water pressure. A simple way is by utilizing a water pressure gauge, which are available at the EWWA office for only \$10.00. This gauge is placed on your outside spigot for a quick reading. Water pressure at your home should be reading at a normal 65-75 psi. If pressures are below 60 psi or above 80 psi, please contact EWWA. Purchasing a water gauge and having a PRV can potentially save you hundreds or thousands

of dollars in leak repairs. Contact EWWA for more information on pressure and water information.

505-281-8700 - 1330 State Highway 333, Tijeras, NM 87059 - www.entranosawater.com Report of Violations



80 100 120

60 WWATTS 140

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160

0.14 mg/L

For the year of 2019, Entranosa Water and Wastewater Association had no violations to report under EPA regulations. Deadline of April 1st was not met as a Community Water System that sells water to another Community Water System to deliver the information necessary for the buyer Community Water System to prepare their Consumer Confidence Report. This was a Reporting violation that was met on 06/04/2019 with the July 1 deadline for annual distribution of EWWA's Consumer Confidence Report to customers and state or local primary agency for report covering January 1 – December 31 of the previous calendar year. The water provided in the year 2019 met all other goals and regulations that are required by mandatory state and federal agencies.

How can I get involved?

Entranosa is a cooperative association organized under the Cooperative Act, with a mission to provide quality

drinking water services to the community and the membership of the Association. Every member can participate in one way or another to include simply asking questions or providing us information. Should you wish to actively participate with the Association, call Jack at the office (505)281-8700 or call and ask for one of the board members to contact you. You may choose to attend Board Meetings, which are normally held on the next to last Thursday of each month but we request you contact us prior to the meeting so we can make appropriate arrangements for seating, and to confirm the meeting date and time. The Board of Directors (Chair Linda Barbour, Vice-Chair Lee Liggett, Secretary Rik Thompson, Treasurer Dennis Hodges, Member Paul Gorder, Member Rob Baracker, Member Skip Mead and Board legal





counsel Liz Taylor) would welcome your participation. Our contact information is located on the coversheet of this report, and also appears on our billing statements. The next three board meetings are scheduled for April 30th, May 21st and June 18th at 11:30 a.m. – but please call ahead so we can make proper arrangements and we can let you know if the schedule changes. Board meetings are restricted to members only.

- Monthly board meeting are held at the EWWA office. Members are welcome to attend, but please provide 48 hours of notice to schedule your attendance. Meeting schedules and agendas are available at https://www.entranosawater.com/board-meetings or by contacting our office at 505-281-8700.



Annual Meeting

Our annual meeting has not been scheduled but tentative dates are October 28th, 29th or 30th 2020 at Nature Pointe. Dinner hours will begin at 4:30 p.m. and the Business meeting to follow at 5:30 p.m. You will receive a meeting packet in early September containing the agenda, details of the meeting, and the summary results of our recently completed audit - but please plan, **NOW**, to attend. You will be electing, or reelecting, members to the Board this year, and during the meeting we will present information about the activities of the Association. If you are interested and have some



time to commit, please consider running for the Board of Directors, nominations need to be submitted by August 1, 2020. A nomination can consist of a note that says "I would like to run for the board of directors",



with your name and contact information, or you can send us an email or letter. If you nominate a neighbor or friend, please make sure they know about it!

Thanking our Members

On behalf of CEO, Jack Crider and the EWWA Board of Directors, Entranosa Water and Wastewater Association would like to *thank you* for another operational year. EWWA works hard to meet its goal of providing members with a safe and reliable supply of drinking water. Our certified water operators and office staff provide nothing but the best member service while assisting you in all your water needs.

We would love to hear your comments or concerns!

Please feel free to contact us

At

505-281-8700

0r

Email

ewwa@entranosawater.com

505-281-8700 - 1330 State Highway 333, Tijeras, NM 87059 - www.entranosawater.com



Annual Report on Drinking Water Quality

Entranosa Water & Wastewater Association 1330 State Highway 333 Tijeras, NM 87059

505-281-8700 (office)

505-604-5935 (Emergency Line)

www.entranosawater.com

As required by the Environmental Protection Agency (EPA) and the New Mexico Environment Department (NMED)

Call Before You Dig - it IS the Law!

Dial 811

