

**TYRONE WATER & WASTEWATER ASSOCIATION BOARD MEETING JUNE 21,  
2023 – 6:30 P.M. – TYRONE COMMUNITY CENTER  
Draft Minutes**

**1. Call to order and declare a quorum – Alan Berg-President**

- a. Meeting was called to order. Mandy Lilla, Doug Gorthy, and Angie Roach were present in-person; Alan Berg called in by Zoom. Alan Berg declared a quorum.

**2. Approval/disapproval of Agenda-Deletions-A. Berg**

- a. Item 5c was removed from the agenda as discussions between TWWA and TCA are ongoing. Doug Gorthy moved to approve the agenda as amended. Angie Roach seconded the motion. All members approved the agenda as amended.

**3. Approval/disapproval of minutes of the May 10, 2023, annual membership meeting - A. Roach**

- a. Angie Roach made a motion to approve the minutes as presented. Doug Gorthy seconded the motion. The motion carried unanimously.

**4. Approval/disapproval of the April and May 2023 financial reports-A Berg- projected cash on hand at the end of the 2022-2023 fiscal year.**

- a. The April financial report was not available for the last meeting, so Karen Monroe presented both the April and May 2023 financial reports. April had \$30,006.45 in revenue but we ended the month with a \$1,076.40 deficit. Similarly, May had \$31,411.26 in revenue, but we ended the month with a \$1,894.18 deficit.
- b. Questions from the Board:
  - i. Why did the utilities increase substantially between April and May? We owed a back water bill to the Town of Silver City for our “lost water” agreement. We didn’t pay the Town while we were discussions with them as to how this should be handled, so in May, we had to pay them for the last few months.
  - ii. How are we losing water? We’re not really losing water. It’s actually the difference between the master meter (near the water tower) and all of the individual meters in town. The master meter registers every gallon, but homeowners’ meters only register in 1000-gallon increments. So there’s always a difference due to this significant ‘rounding error’. We are still working with the Town of Silver City on how to calculate and pay for actual water losses/uses (e.g. fire hydrant testing).
- c. Doug Gorthy motioned to approve the financial reports as presented. Angie Roach seconded the motion. The motion carried unanimously.

## 5. Old Business

### a. Update from Bohannon Huston Inc. on the status of the first phase of the field work for the new water system

- i. Alan Berg presented information on Bohannon Huston Inc's (BHI's) progress. They have completed the fieldwork for the surveys and are preparing topographic maps. These maps will be used to determine water pipe size and placement. We can expect a 60% Design by the end of July, a 95% Design in September, and a Final Design by November 24. The Final Design will be used to develop a bid package, and then we can apply to the Colonias for a loan-grant to build the system.
- ii. Alan Berg further reported that BHI is on-track. We've spent ~\$58,000 of the \$300,000 budget so far, and they have been very responsive to our requests.

### b. Review of the bids for the new lift station construction project. Due to the structure of the funding, the Southwest New Mexico Council of Governments (SWNMCOG) Board of Directors will select the qualified bidder for the new lift station at their Board meeting on June 22, 2023. The recommendation for approval will be based on reviews of the submittals made by Priscilla Lucero, Stantec Engineering, and TWWA.

- i. Alan Berg reported that the SWNMCOG Board of Directors will approve both the Final Lift Station Design and the Contractor tomorrow. While SWNMCOG has been managing this project, we have been able to provide input and clarification to Stantec.
- ii. Alan Berg further reported that File Construction out of Albuquerque had the winning bid. File Construction has informed us that they need a 4-month lead time to get started.
- iii. We had a total of \$1.9 million for the project, and the money is going fast. Thus, SWNMCOG will no longer assist with emergency repairs of the current lift station.
- iv. Alan Berg stated that we will need to get the cattle out of the area for construction; we are working with Freeport-McMoRan (they are the adjacent landowner and grazing lessor) on this.

### ~~c. TWWA and Tyrone Community Association (TCA) management duties in 2023-2024. Discussion of joint tenancy agreement between the TWWA and TCA.~~

## 6. New Business

### a. Approval/disapproval of 2024-2029 Infrastructure Capital Improvement Plan (ICIP) Resolution 2023-12.

- i. Alan Berg stated that we must approve a new ICIP to meet the July deadline. Doug Gorthy read Resolution 2023-12 aloud. See the Attachments for the 2024-2029 ICIP.
- ii. Comments from Alan Berg: The State of New Mexico requires us to have an approved ICIP in order to receive Colonias and other State funds. Priscilla

Lucero (SWNMCOG) and BHI both reviewed this ICIP. The plan includes water system improvements, wastewater engineering and improvements, and money for a backhoe and dump truck. The ICIP can and will change through time.

- iii. Doug Gorthy made a motion to adopt Resolution 2023-12. Angie Roach seconded the motion.
- iv. Questions: Is this a grant? What is the funding source? No, this is a planning document not a grant document. The purpose of the ICIP is to inform the State of New Mexico about our needs as a Community. The State will look at all the requests from across the state and determine what/how to fund them. An ICIP must be approved by the local government Board of Directors; that way it's an official request from the entire Community.
- v. A roll-call vote was taken. Doug Gorthy, Angie Roach, Mandy Lilla and Alan Berg all voted yes. The motion passed unanimously.

**b. Approval/disapproval of 2023-2024 TWWA annual budget-Berg**

**i. Attached is the draft budget that will be submitted to New Mexico Department of Financial Administration.**

- 1. Alan Berg stated that we must approve a draft budget to submit to the State Auditor. See Attachments for the draft budget.

**ii. Major revenue sources and expenses for 2023-2024**

- 1. Alan Berg stated that we have a significant change in revenue as our assessments will decrease to \$65/month. Additional sources of revenue include rental of the water tower to internet providers and the monthly fee for waterline repairs (the latter is collected as part of our water bills from the Town of Silver City). The projected annual revenue is \$272,880.
- 2. Alan Berg noted that the expenditures must match the revenue and are also \$272,880. Expenditures include a Water Operator, System Maintenance, Special Services (i.e. Accounting, Legal, Engineering), Insurance, Emergency Response Services, the USDA Loan, and our funding our Debt and Utility Reserves.

iii. Dr. Jesse Lewis (who had arrived during this review) made a motion to accept the 2023-2024 TWWA annual budget. Angie Roach seconded the motion.

**iv. Additional discussion and comments on the budget:**

- 1. The Water and Wastewater support fees pay for daily checks on the system by Eddie Mendoza and the Salazars. We do not have a full-time water operator, and even with the new lift station, we will still have to clean the wipes from a basket. These costs will remain about the same for the next year.
- 2. The budget starts July 1. The lift station will not be complete for nine months yet. Administrative expenses are getting larger.
- 3. In response to a question about whether we budget for failures of the lift station, Alan Berg called attention to the Emergency Response and Subcontractors portion of the budget. He stated that this amount

should decrease as long as there are no lightning strikes. The new lift station should operate better and also comes with a 1-year warranty. Eddie Mendoza reminded everyone that even with a new lift station, we could still have failures of the water and wastewater lines in the townsite.

4. We would like for assessments to remain at \$65/month, but this will require other funds for emergencies (see Item 6b).
  5. The insurance quote is different than the budget, because this year we bought pollution insurance. We do not believe that we will need that insurance coverage next year. Question: Did our pollution insurance premiums increase because of the two overflow incidents? No, not yet, but we are still in the period of coverage.
  6. A general discussion of going out for bid again for all our insurance policies ensued. Note that the budget does not restrict us from working to reduce our expenses.
  7. The State of New Mexico will use this budget for various purposes including audits. If we have some aberration of cost, we will have to do a Budget Adjustment Request.
- v. A roll-call vote was taken. Doug Gorthy, Angie Roach, Mandy Lilla, Dr. Jesse Lewis and Alan Berg all voted yes. The motion passed unanimously.
- c. **Approval/disapproval of budget related items for operation, maintenance, and emergency costs for the Rain for Rent pump and appurtenances. -Berg**
- i. **The Rain for Rent emergency standby system costs \$4,300 per month and the budget managed by SWNMCOG is unable to continue financing this system as the bids for the new lift station exceed the available dollars.**
  - ii. **Over \$82,000 of the \$1,915,022.00 Grant have been spent to date. TWWA funds will have to pay for the monthly rental going forward until the new lift station is up and running.**
  - iii. **The funds for the monthly rental of the Rain for Rent pump will come from the USDA/RD Short Term Reserves. The USDA/RD has approved the expenditure of these reserves with the acknowledgement that the TWWA has to repay the reserve funds.**
  - iv. Alan Berg read items i-iii aloud.
  - v. Alan Berg then stated that he would accept a motion to approve the use of \$4300 per month from the USDA/RD Short Term for the next 9 months. Dr. Jesse Lewis made a motion to approve the use of the USDA/RD Short Term reserves. Doug Gorthy seconded the motion.
  - vi. Discussion centered around whether it made sense to continue to pay for an emergency standby system or if we should buy our own pump and/or holding tank. Pros and cons of various options were considered, until Eddie Mendoza reminded everyone that none of the other 5 lift stations in the area have back-up pumps or tanks. As Alan Berg succinctly stated, “we are just paranoid at this point.”

- i. A roll-call vote was taken. Doug Gorthy, Angie Roach, Mandy Lilla, Dr. Jesse Lewis and Alan Berg all voted yes. The motion passed unanimously.

## **7. Report and Approval of Officers and Committees**

### **a. President's Report-Alan Berg-new webpage for TWWA.**

- i. TWWA will have a new website soon. It's currently in progress, but you can see it at tyronenmwater.org. The website will eventually have our files, construction schedules, etc.
- ii. Alan Berg stated that we are preparing a grant request to Freeport-McMoRan for \$112,000 to help with the assessment of our water tower (the entire cost of the assessment would be \$150,000). The limit for grants from Freeport-McMoRan is \$50,000/year, but we can divide the assessment work over three years. The \$112,000 funds would be a 100% grant (i.e. not a grant-loan like Colonias funds).
- iii. Alan Berg reminded the Board Members that we still need a Vice President and Treasurer.

### **b. Vice President's Report-** No Vice President at this time.

### **c. Secretary's Report-Angie Roach** – Nothing to report.

### **d. Treasurer's Report-** No Treasurer at this time.

### **e. Doug Gorthy-member**

- i. Doug Gorthy stated that the TWWA Board had received an email asking why we are still using Stantec on the current lift station (as they had also designed the current failing lift station)? Doug addressed the question: There were strings attached to the funding from the State of New Mexico. As we were new (and thus untrusted) entity, they decided to give us a 100% grant but the money had to go through the SWNMCOG. The SWNMCOG made the final decision to use Stantec. We have to work with Stantec for the new lift station and the 1-year warranty; we have no choice.
- ii. Doug Gorthy pointed out that in the last year we have received \$1.9 million from the State of New Mexico's Emergency Fund plus a grant-loan of \$382,000 from the Colonias Fund. Additionally, we are asking Freeport-McMoRan for \$122,000 over the next 3 years. All told, we have borrowed or been given a "gob" of money in the past year. Out of pocket, this would have cost over \$7500 per house!

### **f. Mandy Lilla-member**

- i. Mandy Lilla stated that she had reviewed the bids from the contractors for the lift station. She expressed concern about the large differences in the line items in the bids between the different contractors; with these large differences, it could be an indicator that the contractor did not understand what we were asking for and that this may require large change orders. Alan Berg responded that we will have to deal with it after the bid is awarded tomorrow; we can discuss costs with the contractor after that. TWWA will continue to report on its activities with the contractor.

**g. Water Operator - Eddie Mendoza**

**i. status of Vogelsang macerator repair**

1. Eddie Mendoza reported that the macerator was sent for repair in April and just finished yesterday (it was only supposed to be 2 weeks)! They have the pump together, and now we just need to go pick it up. This is important because we've only had one macerator to run this entire time.
2. Eddie Mendoza stated that we will take a look at the old (currently running) macerator to determine which one to keep in the system. We can keep running the old one until it dies, or we can put the rebuilt one and keep the old one as a back-up.
3. Question: Will the new lift station have this kind of macerator pump (i.e. could we save money on the lift station project by using this rebuilt pump)? Eddie Mendoza responded: No, these pumps will be obsolete when the new station is built. This led to brainstorming session and the idea of possibly putting both macerator pumps and the generator in place and getting rid of the Rain for Rent emergency stand-by system. This option may be considered further.

**ii. Consumer Confidence Report (CCR)**

1. Eddie Mendoza discussed the new Consumer Confidence Report that he compiled (see Attachments). All samples were good; there were no issues. He was also pleased to see that the levels of our disinfection byproducts (HAAS and TTHM) have decreased. Mainly, we have calcium – which we all know causes the white residue on our plumbing fixtures.

**8. Public Input (limited to 3 minutes/person)**

- a. There were no additional comments or questions.

**9. Adjournment-A. Berg**

- a. Doug Gorthy made a motion to adjourn the Board Meeting. Dr. Jesse Lewis seconded the motion. The motion carried unanimously.

## **Attachments**

## Infrastructure Capital Improvement Plan FY 2025-2029

### Tyrone Water & Wastewater Association Project Summary

ID	Year	Rank	Project Title	Category	Funded to date	2025	2026	2027	2028	2029	Total	Amount	Phases?
											Project Cost	Not Yet Funded	
40993	2025	001	Water & Wastewater System Improvements	Facilities - Administrative Facilities	0	100,000	0	0	0	0	100,000	100,000	No
39920	2025	002	Backhoe Purchase	Equipment - Other	0	200,000	0	0	0	0	200,000	200,000	No
39895	2025	003	Water System Improvements	Water - Water Supply	382,220	7,115,000	0	0	0	0	7,497,220	7,115,000	Yes
39906	2025	004	Wastewater Preliminary Engineering Report	Other - Other	0	65,000	0	0	0	0	65,000	65,000	No
39909	2025	005	Wastewater System Improvements	Water - Wastewater	0	2,500,000	1,000,000	1,000,000	0	0	4,500,000	4,500,000	No
41019	2025	006	Park Improvements	Other - Other	0	350,000	0	0	0	0	350,000	350,000	No
39907	2025	007	Dump Truck Purchase	Vehicles - Other	0	100,000	0	0	0	0	100,000	100,000	No

<b>Number of projects:</b>	7												
<b>Grand Totals</b>	<b>Funded to date:</b>	<b>Year 1:</b>	<b>Year 2:</b>	<b>Year 3:</b>	<b>Year 4:</b>	<b>Year 5:</b>	<b>Total Project Cost:</b>						<b>Total Not Yet Funded:</b>
	382,220	10,430,000	1,000,000	1,000,000	0	0	12,812,220						12,430,000



**SPECIAL DISTRICT: Tyrone Water and Wastewater Association**

<b>REVENUES</b>	<b>ACTUALS YEAR TO DATE</b>	<b>BUDGET REQUEST</b>	<b>VARIANCE BUDGET REQUEST</b>
<b>General Fund ACCT K101 ( enter items below examples are listed)</b>			
322 Homeowner assessments at \$65/month		251,160	-
Revenue from internet providers WNM and TWN on water tower		2,400	0%
\$5/month fee for waterline repairs for each residence		19,320	0%
			-
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<b>SUBTOTAL GENERAL FUND REVENUES</b>	\$ -	\$ 272,880	0%
Other Financing Sources:			
Transfers In	-		-
Transfers Out	-		-
<b>Total Transfers</b>	\$ -	\$ -	-

**SPECIAL DISTRICT:** Tyrone Water and Wastewater Association

<b>EXPENDITURES</b>	<b>ACTUALS YEAR TO DATE</b>	<b>BUDGET REQUEST</b>	<b>VARIANCE BUDGET REQUEST</b>
<b>General Fund ACCT K101 ( enter items below examples are listed)</b>			
Water and Wastewater Operator and support		68,000	0%
Real Estate Taxes		2,000	0%
Electricity		6,000	0%
Other Utilities - internet, telephone		3,000	0%
System Parts and Supplies		6,840	0%
System Repairs and Maintenance		20,000	0%
Vehicle Expenses		4,000	0%
Office and Administrative Expenses		6,000	0%
Professional Services - Accounting, Engineering, Legal		44,000	0%
Insurance-Vehicle, Liability, D&O, Crime, Pollution		25,000	0%
Dues, Fees, Permits and Licenses		2,000	0%
Taxes - Gross Receipts Tax, Water Conservation Fee		1,000	0%
Board Training courses		4,000	0%
Emergency response and subcontractors		22,000	0%
Annual debt service - USDA RD		29,040.00	0%
Annual debt service - CIF starts in 2025		0.00	-
Fund water debt/utility reserves		30,000.00	0%
			-
			-
			-
			-
			-
			-
<b>SUBTOTAL GENERAL FUND EXPENSES</b>	<b>\$ -</b>	<b>\$ 272,880</b>	<b>0%</b>
Other Financing Sources:            Transfers In			-
Transfers Out			-
<b>Total Transfers</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>
<b>TOTAL GENERAL FUND EXPENSES AFTER TRANSFERS IN/OUT</b>	<b>\$ -</b>	<b>\$ 272,880</b>	<b>-</b>
			-
			-



## Tyrone Townsite 2022 Consumer Confidence Report

We are pleased to present you with this year's Annual Drinking Water Report for water sampled during the period of **January through December 2022**. This report is designed to provide our consumers with detailed information regarding where your water comes from, what contaminants were detected during sampling, and how your drinking water compares to the standards set forth by the New Mexico Environment Department Drinking Water Bureau and the Environmental Protection Agency.



### **Health Information**

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 may be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. The U.S. EPA/CDC (Center for Disease Control and Prevention) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbiological contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

### **Source Water Assessment Report**

The Source Water Assessment and Protection Program (SWAPP) assesses the susceptibility of public water supplies to potential contamination by microbiological pathogens and chemicals. Results of the assessment revealed that the system is well maintained and operated, and sources of drinking water are generally protected from potential sources of contamination based on well construction, hydrogeological settings, and system operations and management. The susceptibility rank of the entire water system is high. To discuss findings of this report, or to obtain a copy, please contact the Town of Silver City Utilities Department at 575-534-6365. Copies may also be requested by emailing the Drinking Water Bureau by calling David Torres 505-259-5048 or [David.Torres@env.nm.gov](mailto:David.Torres@env.nm.gov). Please include your name, address, telephone number and e-mail address, and the name of the Water System. NMED-DWB may charge a nominal fee for paper copies.

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Although throughout the United States, it is common to find potential sources of contamination located atop wellheads, protection plans, and other planning efforts continue to be primary methods of protection and ensuring high quality drinking water.

All sources of drinking water are subject to potential contamination by substances that are naturally occurring or manmade. These substances can be microbes, inorganic or organic chemicals and radioactive substances. All drinking water, including bottled water may be reasonably 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 at 1-800-426-4791.

### **Where does my water come from?**

Our water is purchased from the Town of Silver City which is supplied solely by ground water that is pumped out of wells located in two separate well fields. The Frank's Well Field is comprised of three wells (2 in-service) that all draw from the Gila-San Francisco Water Basin. The second well field is the Woodward Well Field that is comprised of five wells that all draw from the Mimbres Water Basin. The Gabby Hayes Well is an additional well that is not considered part of the Woodward Well Field but also supplies the Town with water and draws from the Mimbres Water Basin.

### **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 at 1-800-426-4791. 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 land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Microbial contaminants, such as viruses and bacteria, may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife. Inorganic contaminants, such as salts and metals, may be naturally occurring or result from urban stormwater runoff, industrial or domestic water dischargers, oil and gas production, mining, or farming. Pesticides and herbicides 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 are by-products of industrial processes and petroleum production and can also come from gas stations, urban stormwater runoff, and septic systems. And radioactive contaminants, may be naturally occurring or be the result of oil and gas production and mining activities. In order to ensure tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by water systems. The Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

<b>90<sup>th</sup> Percentile:</b>	Out of every 10 homes sampled, 9 were at or below this level.
<b>AL (Action Level):</b>	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
<b>ALG (Action Level Goal):</b>	The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.
<b>Average:</b>	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
<b>Level 1 Assessment:</b>	A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.
<b>Level 2 Assessment:</b>	A Level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
<b>MCL (Maximum Contaminant Level):</b>	The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLG's as feasible using the best available treatment technology.
<b>MCLG (Maximum Contaminant Level Goal):</b>	The level of a contaminant in drinking water below which there is no known or expected risk of health. MCLGs allow for a margin of safety.
<b>MRDL (Maximum Residual Disinfectant Level):</b>	The highest level of chlorine residual allowed in drinking water.
<b>MRDLG (Maximum Residual Disinfectant Level Goal):</b>	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.
<b>MREM (Millirems per Year):</b>	A measure of radiation absorbed by the body.
<b>NA (Not Applicable):</b>	Not applicable.
<b>pCi/ (Picocuries per Liter):</b>	A measurement of radioactivity in water.
<b>PPB (Parts per Billion):</b>	One part substance per billion parts water or 1 minute in 2,000 years.
<b>PPM (Parts per Million):</b>	One part substance per million parts water or 1 minute in 2 years.
<b>TT (Treatment Techniques):</b>	A required process intended to reduce the level of a contaminant in drinking water.
<b>Ug/L:</b>	Number of micrograms of substance in one liter of water.

**Table Water Terms and Definitions**

*\*The table for Unregulated Substances listed below are not regulated by the EPA; however, they are being provided to you as a service.*

Unregulated Substances (Unit)	Range of Detections	Average Detected
Alkalinity (ppm)	157 - 203	176



Calcium (ppm)	29.9 – 60.3	49.13
Hardness (ppm)	132 – 200	162 (Medium Hardness or 9.45 Grains per Gallon)
Iron (ppm)	0 – 0.27	0.07
Magnesium (ppm)	6.42 – 14.09	9.70
pH/Acidity (STD. Units)	7.53 – 8.04	7.80
Sodium (ppm)	22 – 26	24
Total Dissolved Solids (ppm)	190 - 238	215

### Water Sampling for Tyrone Townsite

#### Disinfection and Disinfection By-Products

Substance (Units)	Year Sampled	MCL	MCLG	Highest Level Detected	Range Low-High	Violation	Typical Source
Chlorine (ppm)	2022	4	4	0.55	0.27 – 0.55	No	Water additive used to control microbes.
Haloacetic Acids (HAA5) (ppb)	2022	60	NA	2.25	ND – 2.25	No	By-product of chlorination for disinfection of water formed when chlorine reacts to organics in water.
Total Trihalomethanes (TTHM) (ppb)	2022	80	NA	25.2	6.72 – 25.2	No	By-product of chlorination for disinfection of water formed when chlorine reacts to organics in water.

#### Inorganic Contaminants

Substance (Units)	Year Sampled	MCL	MCLG	Highest Level Detected	Range Low-High	Violation	Typical Source
Barium (ppm)	2017	2	2	0.0082	0.0028 – 0.0082	No	Discharge of drilling waste, metal refineries, erosion of natural deposits.
Fluoride (ppm)	2017	4	4	0.41	0.41 – 0.41	No	Erosion of natural deposits, discharge from fertilizer and aluminum factories.
Nitrate (ppm)	2022	10	10	1.6	0.84 – 1.6	No	Runoff from fertilizer use, leaching from septic tanks, sewage erosion of natural deposits.
Selenium (ppb)	2017	50	50	2.4	1.2 – 2.4	No	Discharge from petroleum refineries and mines or erosion of natural deposits.
Zinc (ppm)	2017	5	5	0.026	ND – 0.026	No	Naturally occurring discharge from metal factories.

#### Lead and Copper

Substance (Units)	Year Sampled	AL	MCLG	90 <sup>th</sup> Percentile	Violation	Typical Source
Copper (ppm)	2022	1.3	1.3	0.1	No	Corrosion of household plumbing systems;

						erosion of natural deposits; leaching from wood preservatives.
Lead (ppb)	2022	15	0	0.76	No	Corrosion of household plumbing systems, erosion of natural deposits.

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. Rio De Arenas is responsible for providing 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>.

**Microbiological Contaminants**

Substance (Units)	Year Sample d	MCL	MCLG	Highest Level Detected	Range Low-High	Violation	Typical Source
Total Coliforms (12 Samples Annually)	2022	0	0	0	0	No	Naturally present in the environment; not a health threat in itself; it is used to indicate whether other potential, harmful bacteria may be present.

**Radioactive Contaminants**

Substance (Units)	Year Sample d	MCL	MCLG	Highest Level Detected	Range Low-High	Violation	Typical Source
Alpha Emitters (pCi/L)	2019	15	0	5.3	3.3 – 5.3	No	Erosion of natural deposits.
Beta Emitters (pCi/L)	2019	50	0	3.7	2.3 – 3.7	No	Erosion of natural deposits.
Combined Radium (pCi/L)	2019	5	0	0.16	ND – 0.16	No	Erosion of natural deposits.
Uranium (ug/l)	2019	30	0	2	2	No	Erosion of natural deposits.

For questions concerning this report, please contact Alan Berg at TWWA (575) 654-0391 or P.O. Box 570, Tyrone, NM 88065.