NEW MEXICO ENVIRONMENT DEPARTMENT

Ground Water Quality Bureau



WELL TEST FORM

www.env.nm.gov

Complete sections 1 and 2 using a pen and write LEGIBLY, please leave blank any unknown information.

Contact information and individual well information will be withheld to the extent provided by law.

SECTION 1: WELL OWNER/USER INFORMATION			(PLEASE PRINT CLEARLY)	
Name:	E-mail:			Phone with area code:
Mailing Address:	City:		State:	Zip Code:
	2			1
SECTION 2: WELL INFORMATION				
Physical location of well: Same as Above OR physical address:				
County:				
Is your well permitted by the OSE?	Is this a shared well?		this well the primary source for drinking water?	
Yes No Don't know	Yes No Don't know		Yes No Don't know	
If yes, what is your permit number, if			f yes, how many people drink this water?	
known? #:	well? #		#	
How old is the well (yrs.)?	How deep is the well (ft.)?		epth to water (ft.)?	
Has your well ever run dry?	Casing Material?		Is the well within 100 ft. of a home septic tank leach	
Yes No Don't know	Steel PVC Don't know		field system? Yes No Don't know	
Do you use any water treatment equipment (ex: screen, reverse osmosis, Britta)? Yes No Don't know				
If yes, please describe:				
Do you suspect any water quality problems? Yes No				
If yes, please describe:				
SECTION 3: WATER ANALYSIS to be completed by water testing analyst				
Test	Result		Drinking Wate	r Standard
pH (units)			Between 6.5 and	1 8.5*
Specific Conductance (µS/cm)			Less than 1000 µS/cm	
Fluoride (mg/L)		ot Detected	Less than 2.0 m	g/L*, Less than 4.0 mg/L**
Iron (mg/L)	□No	ot Detected	Less than 0.3 m	g/L*
Sulfate (mg/L)		ot Detected	Less than 250 m	g/L*
Nitrate as nitrogen (mg/L)	□No	ot Detected	Less than 10 mg	/L**
Arsenic Screening	□No	ot Detected	Less than 0.01 m	ng/L**
If arsenic was detected in your water, we recommend your water be tested by a certified drinking water laboratory				

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Notice: The tests performed by NMED are only for those chemicals or characteristics listed on this form. The tests are not a substitute for a complete laboratory analysis, nor do they include tests for bacteria or other organisms. In addition, if a dirty sample container was used, or if the sample was collected more than 24 hours prior to analysis, the test results may be inaccurate.

INTERPRETING YOUR TEST RESULTS

pH: The pH indicates whether water is basic, neutral, or acidic. A pH value above 7 is basic and a value below 7 is acidic. The pH of water is important because pH can cause aesthetic problems and can cause metals to leach from plumbing materials.

Specific Conductance: Conductivity is alternative method to measure the hardness (total dissolved solids (TDS)) of water. Conductivity refers to the ability of water to conduct an electrical current. The higher the concentration of dissolved minerals and salts in water, the more electricity it conducts. Although there is no state or national standard for conductivity, the Environmental Protection Agency (EPA) recommends TDS concentration in drinking water of less than 1,000 μ S/cm. Water with high conductivity can impart an unpleasant taste and odor to water and can cause mineral deposits on plumbing fixtures.

Sulfate: Sulfate is a compound of sulfur and oxygen that is commonly found in ground water. It can give an unpleasant taste to drinking water. Individuals not accustomed to drinking water rich in sulfate may experience dehydration and a laxative effect. Populations potentially sensitive to abrupt exposure to high levels of sulfate in drinking water are infants and transient adults (students, visitors, hunters, etc.). The federal aesthetic standard for sulfate is 250 mg/L for drinking water.

Nitrate as Nitrogen: Nitrate is a compound of nitrogen and oxygen. There are many possible sources of nitrate contamination including fertilizer, animal waste, septic tanks, refuse dumps, and natural geologic deposits. Generally, the concentration in ground water is low, but higher levels can be dangerous for pregnant women and infants under six months of age to consume. The use of nitrate-contaminated drinking water to prepare infant formula is a well-known risk factor for infant methemoglobinemia (blue-baby syndrome). Cases have occurred after feeding babies formula that was reconstituted with water from private wells. State and federal health standards for nitrate as nitrogen are set at 10 mg/L for drinking water. If your well water has a higher concentration of nitrate than is considered a background concentration, it may indicate other contaminants are present.

Fluoride: Fluoride is a naturally occurring mineral that is proven to protect against tooth decay. To protect teeth from decay, the recommended fluoride concentration is from 0.7 to 1.2 mg/L in drinking water. Too much fluoride can cause undesirable effects such as dental fluorosis (brown staining and/or pitting of the permanent teeth as they develop) at concentrations above 2 mg/L and possible skeletal fluorosis (weakening of the bones) at levels above 4 mg/L. NMED recommends a maximum fluoride concentration of 2 mg/L in drinking water. If the fluoride level is below 0.7 mg/L, you should discuss options with your dentist.

Iron and Manganese: High iron concentrations in ground water, in the range of 1 to 5 mg/L, can be an indicator that the groundwater is deficient in oxygen. Deficiencies in oxygen in groundwater can be caused by septic tank discharges or by naturally occurring geologic deposits such as humus and peat.

If the water is agitated, such as in a washing machine, sink, tub or toilet, it becomes oxygenated, and the iron and manganese will precipitate as oxides. These oxides range in color from black/gray/brown to red/orange/yellow and can appear as small particles in the water or can cause stains on laundry and porcelain. The federal aesthetic standard for iron is 0.3 mg/L and 0.05 mg/L for manganese. Most of the manganese that we ingest comes from our food (0.7 - 10.9 mg/day) in an adult diet, higher for vegetarians). Although manganese is an essential nutrient at low doses, chronic exposure to high doses may be harmful. To protect against any potential neurological effects, the EPA has set a health advisory concentration of 0.3 mg/L for manganese.

Arsenic: Arsenic is a semi-metallic element. It is odorless and tasteless. It enters drinking water supplies from natural deposits in the earth or from agricultural and industrial practices. Exposure to high levels of arsenic has been linked to several types of cancer. NMED recommends a maximum arsenic concentration of 0.01 mg/L in drinking water.

WHAT TO DO IF YOUR TEST RESULTS APPROACH OR EXCEED THE STANDARD

If possible, attempt to locate the source of contamination and take corrective measures. Corrective measures could include disinfecting your well, purifying your water source through treatment, or establishing an alternate safe drinking water source. NMED recommends consulting with companies that specialize in home water treatment systems to find a solution that best meets your needs and budgetary considerations. NMED does not make product recommendations or company endorsements.