Drinking Water Test Packages			
ID	Package	Description	Tests included
WD01	Standard	Basic tests for which drinking water samples should be routinely tested	Total coliform bacteria, E. coli bacteria, pH, and total dissolved solids
WD02	Aesthetics/ Corrosivity	Includes tests from standard package plus those for water components that can contribute to bad taste, staining, scaling, and corrosivity	Total coliform bacteria, E. coli bacteria, pH, and total dissolved solids, plus hardness, corrosivity Index, copper (running water), Iron, and manganese
WD03	Aesthetics/ Corrosivity Plus Lead	Includes all tests from aesthetics/corrosivity package (above) plus first-draw and running-water tests for lead and first-draw copper	Total coliform bacteria, <i>E. coli</i> bacteria, pH, and total dissolved solids, plus hardness, corrosivity index, copper (first draw and running water), iron, manganese, first-draw and running-water lead
WD04	Agriculture/ Septic	Includes tests from standard package plus nitrate-nitrogen which may be elevated in water supplies located near intensively managed agricultural sites or in proximity to densely spaced or poorly operating septic systems	Total coliform bacteria, <i>E. coli</i> bacteria, pH, and total dissolved solids, and nitrate nitrogen
WD05	Mining	Includes tests from standard package plus those of greatest importance for water supplies located near existing or future mining activity	Total coliform bacteria, <i>E. coli</i> bacteria, pH, and total dissolved solids, plus aluminum, iron, manganese, and sulfate
WD06*	Gas/Oil Drilling	Includes tests from standard package plus those of greatest importance for water supplies located near existing or future gas and oil well-drilling activity	Total coliform bacteria, E. coli bacteria, pH, and total dissolved solids, plus barium and chloride
WD07	Trace	Includes tests from standard package plus trace elements and metals that may be present in water supplies located near industrial waste or dump sites	Total coliform bacteria, <i>E. coli</i> bacteria, pH, and total dissolved solids, plus arsenic, barium, cadmium, chromium, copper, lead, nickel, and zinc
WD08	Extensive	Includes a combination of the most tests offered by the lab for customers interested in a more comprehensive analysis of their drinking water	Total coliform bacteria, E. coli bacteria, pH, total dissolved solids, hardness, corrosivity, arsenic, barium, copper (first draw and running water), iron, lead (first draw and running water), manganese, sodium, chloride, sulfate, and nitrate-nitrogen

^{*}If you are performing this test for the purpose of documenting water quality before and/or after gas-drilling activities, it is recommended that you use an accredited laboratory that can collect your sample and provide full chain of custody. For a list of labs that provide this service, go to agsci.psu.edu/aasl/water-testing/drinking-water-testing.

individual Drinking Water (1836)			
Test	Importance/Sources		
Aluminum	Causes metallic-tasting water; sources: some naturally occurring, but most from mining activities		
Arsenic	May cause cancer and has other serious health effects; sources: naturally occurring and more rarely found in pesticides, treated lumber, or industrial-waste sites		
Bacteria (total coliform and <i>E. coli</i>)	May cause gastrointestinal illnesses and water to have bad taste or odor; sources: surface water, septic systems, and animal waste		
Barium	May cause hypertension and other health effects; sources: mostly from deep brines from gas/oil well drilling and may also occur from industrial activities		
Chloride	loride Causes salty-tasting water and corrosion and blackening of steel; sources: some naturally occurring, but primarily from gas/oil well drilling brid or road salt		
Copper	Causes blue-green stains; bitter, metallic-tasting water; gastrointestinal upset; and liver and kidney damage. Sources: most from corrosion of copper plumbing and more rarely from industrial-waste sites		
Corrosivity Causes metallic-tasting water, blue-green stains, and leaky pipes in homes with copper plumbing; sources: most naturally occurring, b to mining activities			
Fluoride	ide May cause bone damage and discoloration of teeth; sources: naturally occurring and present in some industrial wastes		
Hardness	Causes whitish-gray residue when water is heated, decreased life of water heater elements, and increased use of soap; sources: naturally occurring in many areas, especially where limestone occurs		
Iron	May cause orange-brown stains and metallic-tasting water; source: naturally occurring or from mining activities		
Lead	Many serious health effects and often found in association with copper; sources: primarily from metal plumbing and more rarely from industrial-waste sites		
Manganese	Causes black stains and gives water a metallic taste; sources: naturally occurring or from mining activities		
Nitrate Nitrogen	Causes blue-baby syndrome in infants; sources: fertilizers, animal wastes, septic systems		
pH	When low, causes bitter, metallic taste and corrosion and leaks in metal pipes, and when high, causes slippery-feeling water with soda taste and leads to scale deposits; sources: naturally controlled, but may be impacted by mining activities		
Sulfate	Causes bitter, medicinal-tasting water and has a laxative effect; sources: naturally occurring and from mining activities		
Total Dissolved Solids	Causes cloudy and/or bad-tasting water; sources: naturally occurring, but may be caused by any land-use changes		
Total Suspended Solids	Causes cloudy or muddy-looking, bad-tasting water; sources: can occur naturally after heavy rain, but most comes from land-disturbance activities such as construction and mining		
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Additional individual tests include alkalinity, calcium, cadmium, chromium, conductivity, magnesium, molybdenum, nickel, sodium, and zinc. Please contact the laboratory for details about these additional test parameters.