

SECTION 21 - WATER SUPPLY

A. Planning Standards

1. Supply: The water supply in terms of quality, quantity and dependability for all lots and tracts shall be in compliance with all state and County laws and regulations. (reloc. 7-12-05)
2. Water Supply Systems: All new and replacement water supply systems shall be designed to minimize or eliminate infiltration of floodwaters into the system. (reloc. 7-12-05)
3. Central Water Supply Report: A report shall include, if applicable, but not be limited to the following: (am. 7-12-05)
 - a. Public: At the time of preliminary plat submittal, the public water district shall be operating in compliance with Colorado State and Jefferson County regulations or have received approval of a service plan in accordance with Section 32-1-201, et. seq., C.R.S. The report from said operating or approved district shall include, but not be limited to the following statements and plans: (reloc. 7-12-05)
 - (1) That the proposed subdivision is within the boundaries of the district, has a contract with the district, or will be included within the district boundaries in accordance with Section 32-1-301 et. seq., C.R.S. (reloc. 7-12-05)
 - (2) That the district will, pursuant to their rules and regulations, supply water to the proposed subdivision. (reloc. 7-12-05)
 - (3) The expected water requirements of the subdivision at full development, including the various water uses to be permitted. NOTE: Items four (4) through nine (9) can be omitted upon prior approval of the Colorado Division of Water Resources. (am. 7-12-05)
 - (4) The source of water for the water district and the dependability and potability of this source. (reloc. 7-12-05)
 - (5) Present water supply requirements of the water district, including annual and seasonal demands. (reloc. 7-12-05)
 - (6) Future water supply commitments into which the water district has entered. (reloc. 7-12-05)
 - (7) Estimated consumptive use of water by the water district. (reloc. 7-12-05)
 - (8) Evidence of ownership or right of acquisition of or use of existing and proposed water rights including water augmentation plan if applicable. (am. 7-12-05)
 - (9) The dependability of claimed water rights for use as a water supply. (reloc. 7-12-05)
 - b. Private: At the time of preliminary plat submittal, the private water company shall be operating or have approval to operate in compliance with Colorado State and Jefferson County regulations. The report from said operating or approved company shall include, but not be limited to the following statements and plans: (reloc. 7-12-05)
 - (1) That the proposed subdivision is within the service area of the company. (reloc. 7-12-05)

- (2) That the company will, pursuant to their rules and regulations, supply water to the proposed subdivision. (reloc. 7-12-05)
- (3) The expected water requirements of the subdivision at full development, including the various water uses to be permitted. (reloc. 7-12-05)
- (4) The source of water for the water company and the dependability and potability of this source. (reloc. 7-12-05)
- (5) Present water supply requirements of the water company, including annual and seasonal demands. (reloc. 7-12-05)
- (6) Future water supply commitments into which the water company has entered. (reloc. 7-12-05)
- (7) Estimated consumptive use of water by the water company. (reloc. 7-12-05)
- (8) Ownership or right of acquisition of water rights. (reloc. 7-12-05)
- (9) The dependability of claimed water rights for use as a water supply. (reloc. 7-12-05)

4. Well Water Supply Report: A report shall include the following statements and plans: (am. 7-12-05; am. 7-10-07)

a. Data on a representative test well located within the proposed subdivision shall include the following: (reloc. 7-12-05)

- (1) Potability data shall include the following: (reloc. 7-12-05)
 - (a) Standard Bacteriological Water Test. (reloc. 7-12-05)
 - (b) Standard Chemical Analysis, including the following: (reloc. 7-12-05)

Turbidity	Tritium
Arsenic	Color
Barium	Total hardness of CaCO ₃
Cadmium	Calcium as CaCO ₃
Chromium	Magnesium
Fluoride	Sodium
Lead	Chloride
Mercury	Sulfate
Nitrate	Phenolphthalein Activity
Silver	Specific Conductance
Selenium	Dissolved Solids
Endrin	Iron
Lindane	Manganese
Methoxychlor	Copper
Toxaphene	Zinc
2,4-D	Molybdenum
2,4,5-TP	Ammonia as N
Gross Alpha	Phosphate as P
Gross Beta*	Boron
Radium 226	
* Required for water supplies serving greater than 100,000 population.	

- (2) Depth and location. (reloc. 7-12-05)
 - (3) Pumping rate expressed in gallons per minute. (reloc. 7-12-05)
 - (4) Duration of pump test. (reloc. 7-12-05)
 - b. The expected water requirements of the subdivision at full development, including the various water uses to be permitted. (reloc. 7-12-05)
 - c. The estimated consumptive use of water by the subdivision. (reloc. 7-12-05)
 - d. The source of water for the subdivision and the dependability of this source. (reloc. 7-12-05)
 - e. Evidence of ownership or right of acquisition of or use of existing and proposed water rights including water augmentation plan if applicable. (am. 7-12-05)
 - f. An evaluation of the potential for material injury to existing water rights as a result of the subdivision, including the cumulative effect of on-lot wells. (reloc. 7-12-05; am. 7-10-07)
 - g. Historic use and estimated yield of claimed water rights. (reloc. 7-12-05)
 - h. Amenability of existing water rights to a change in use. (reloc. 7-12-05)
 - i. Type of sewage disposal system proposed. (reloc. 7-12-05)
5. Mountain Ground Water Overlay District: All areas that fall within the Mountain Ground Water Overlay District restrictions are required to submit the the items below
- a. Detailed Water Supply Analysis Report: The Detailed Water Supply Analysis Report shall contain the items listed in the Well Water Supply Report in addition to the items below:
 - (1) Aquifer Test: The purpose of the Aquifer Test is to demonstrate the aquifer's ability to yield withdrawal rates that would satisfy the proposed uses. (orig. 7-10-07)
 - (2) At least one Aquifer Test shall be conducted in each hydrogeologically different geologic unit or rock type where individual wells per lot are proposed. (orig. 7-10-07)
 - (3) A sufficient number of production wells are required to be tested so that the cumulative production rate is equal to or greater than the proposed water requirements.
 - (4) Production wells shall be pumped at a rate equal to or greater than the proposed pumping rate for a minimum of 8-hours or longer and in compliance with Rule 12.2 in the Colorado Water Well Construction Rules (2 CCR 402-2). (orig. 7-10-07)
 - (5) All existing wells within the proposed development should be monitored and if permission is granted, offsite wells within 600 feet of the production well. (orig. 7-10-07)
 - (6) Water levels in the production well and observation wells, if any, shall be monitored for at least 24 hours after pumping stops, or until 90% recovery has occurred. (orig. 7-10-07)
 - b. The Detailed Water Supply Analysis Report shall contain an evaluation the adequacy of the water supply for the proposed uses.

6. Water System Plans: Plans shall be prepared pursuant to the direction of the applicable service authority. The plans shall also include the entity/entities that will implement the plan, construct required improvements, and be responsible for the maintenance of the improvements and appropriate easements. (am. 7-12-05)
7. Report and Plan Preparation: The central water supply report shall be prepared and signed by an authorized agent of the water district. The well water supply report and/or Detailed Water Supply Analysis Report shall be prepared and signed by either a professional Geologist (as defined by C.R.S. 34-1-201, as amended) or a professional engineer, registered in the State of Colorado each of which shall be qualified in the field of water resource engineering. The report shall include what time of year the fieldwork was done and a list of references and other supportive data used. The water system plans shall be prepared and signed by either a professional Geologist (as defined by C.R.S. 34-1-201, as amended) or a professional engineer, registered in the State of Colorado and qualified in the field of civil engineering. (reloc. 7-12-05; am. 7-10-07)
8. Reviews: Prior to approval, the water supply report and/or Detailed Water Supply Analysis Report shall be reviewed by the Jefferson County Department of Health and Environment and the water system plans shall be approved by the applicable service authority. (reloc. 7-12-05; am. 7-10-07)