In the eastern parts, dissolved solids concentrations are high and vary from 3,000 to 5,000 mg/L, with average about 4,500 mg/L.

In the western parts, dissolved solids concentrations are less than 1,000 mg/L, with some areas having concentrations below 50 mg/L.

Ground-water conditions in the Elephant Butte Reservoir are generally good, with few areas having problem conditions.

The water levels in the Elephant Butte Reservoir are generally stable, with minor fluctuations due to water management practices.

Well log data from the Elephant Butte Reservoir indicates that the aquifer is confined and has a high transmissivity.

Chemical analyses of water samples show that the water is generally hard, with calcium and magnesium being the dominant ions.

The water in the Elephant Butte Reservoir is suitable for domestic and irrigation use, but may require treatment for certain applications.

Maps showing ground-water conditions in the Elephant Butte Reservoir are available for download from the USGS website.