

F 1042 – AWSA wellfield

Well F 1042 “AWSA 15” is in the AWSA wellfield. The fit linear trend is $+119 \mu\text{S}/\text{cm}/\text{yr}$ ($R^2=0.84$). The high frequency of samples in time and the lack of substantial scatter in the data suggest that the EC was stable until 1995 when it began to rapidly increase, doubling in a year or two. The rate of increase declined over time, and the current trend may be somewhat less than the fit linear trend to all data. However, the data frequency decreased after 1996. The last result in the database is for 2006. El-Naqa and others (2007) examined other constituents and isotope ratios to identify the source of salinity at F 1042 as upward flow from lower-permeability carbonate rocks, and dissolution of matrix salts from those rocks.

