

September 5, 2017

Mr. Gary Westbrook, Manager  
Post Oak Savannah Groundwater Conservation District  
P.O. Box 92  
Milano, Texas 76556

**Re: Protocols for Monitoring Water Levels and Water Quality**

Dear Gary:

This memo provides comments from INTERA's review of the Brazos Valley GCD's protocols for airline measurements, e-line measurements, steel tape measurements, and pressure transducer utilization.

The protocols are technically sound and appropriate for establishing consistency in a monitoring program. However, we do not recommend that POSGCD adopt the protocols in their current form.

Our recommendations for developing POSGCD protocols include the following key points:

- The Texas Water Development Board (TWDB) and United States Geological Survey (USGS) have existing protocols, or standard operating procedures (SOPs), for measuring water levels using transducers, e-lines, steel tape, and air lines. These protocols should be reviewed and referenced in POSGCD protocols. Where appropriate, portions of these protocols should be used as the foundation of POSGCD protocols. Protocols from other agencies, including the Texas Commission on Environmental Quality (TCEQ) and the US Environmental Agency (EPA), should also be reviewed.
- The monitoring protocols should include diagrams and fillable forms as visual aids to field staff. This will clarify some of the terminology and decrease mistakes. The TWDB include diagrams in their protocols that could be adopted by POSGCD.
- The protocols need to include instructions on how the recorded field measurements are transferred to the official POSGCD database and then how they are stored at the POSGCD office.
- Each protocol should include a version number, a stated objective or purpose, and appropriate references.
- We recommend that the protocols be presented and discussed during GMA 12 and POSGCD Board meetings and developed with input from neighboring GCDs. In addition, the POSGCD should solicit stakeholder review and comment on the protocols.

Sincerely,



Steve Young, PG, PE, Ph.D  
Principal Hydrogeologist