Playa Instrumentation

All equipment will be placed inside a fenced enclosure near the center of the playa lake. Surface and subsurface equipment will include:

Basic Monitoring:

Integrated water level, temperature, and electrical conductivity sensor

Advanced Monitoring

- Water level, temperature, and electrical conductivity sensor
- Meteorological station
 - Provides data to calculate daily water losses via evapotranspiration
 - Includes solar panel, battery, lighting rod, and sensors for temperature, barometric pressure, relative humidity, rainfall, wind speed and wind direction, and solar radiation
 - Data logger with cellular modem for communications
- Heat dissipation probes
 - Measure soil moisture potential (dry range) at depth
 - Planned placement at depths of 2, 4, 8, and 16 meters
- Advanced tensiometers
 - Measure soil moisture potential (wet range) at depth
 - Planned placement at depths of 2, 4, 8, and 16 meters
- Monitor well with groundwater level datalogger (selected sites)
- Soil settlement anchors
 - Measure shrink-swell response of soil to moisture content changes
- Time lapse camera

All equipment installation and site access will be coordinated with landowners to minimize disruption to soil, vegetation, livestock, or crops