

San Elijo Hills Pipeline Analysis Fact Sheet

In-Situ Soil Resistivity Testing

- Performed by V&A at up to 30 locations
- Expected duration: 4 days
- One (1) V&A staff will place metal pins approximately 6 inches into the soil in a straight line at equidistant spacing. A soil resistance meter will be used to measure the resistance of the soil.
- Work will not require any shut-offs/disruptions.



Figure 1: In-Situ Soil Resistivity Testing Setup

Soil Chemical Analysis Testing

- Performed by T2 Utility Engineers at up to 8 locations
- Expected duration: 2 days
- Two (2) T2 Utility Engineers staff will pothole at select locations to collect soil samples in the area immediately surrounding the pipes. One (1) V&A staff member will be onsite during potholing activities. Soil samples will be tested at an accredited soil analytical laboratory to measure various chemical constituents that are used to evaluate the corrosion characteristics of the soil.
- Work will not require any shut-offs/disruptions.



Figure 2: Typical Potholing Setup

External Leak Detection Survey

- Performed by McKim & Creed
- Expected duration: 2 weeks
- Two (2) McKim & Creed staff will be walking around using manual sounding equipment (listening stick and noise loggers) to listen for indications of leak noise.
- Shut-offs/disruptions (typically 5 to 10 minutes total) may be needed for accounts where there could possibly be a customer-side leak impacting the ability to determine if distribution-side leakage is occurring.



Figure 3: Leak Detection Noise Loggers



Figure 4: Leak Detection Listening Stick

