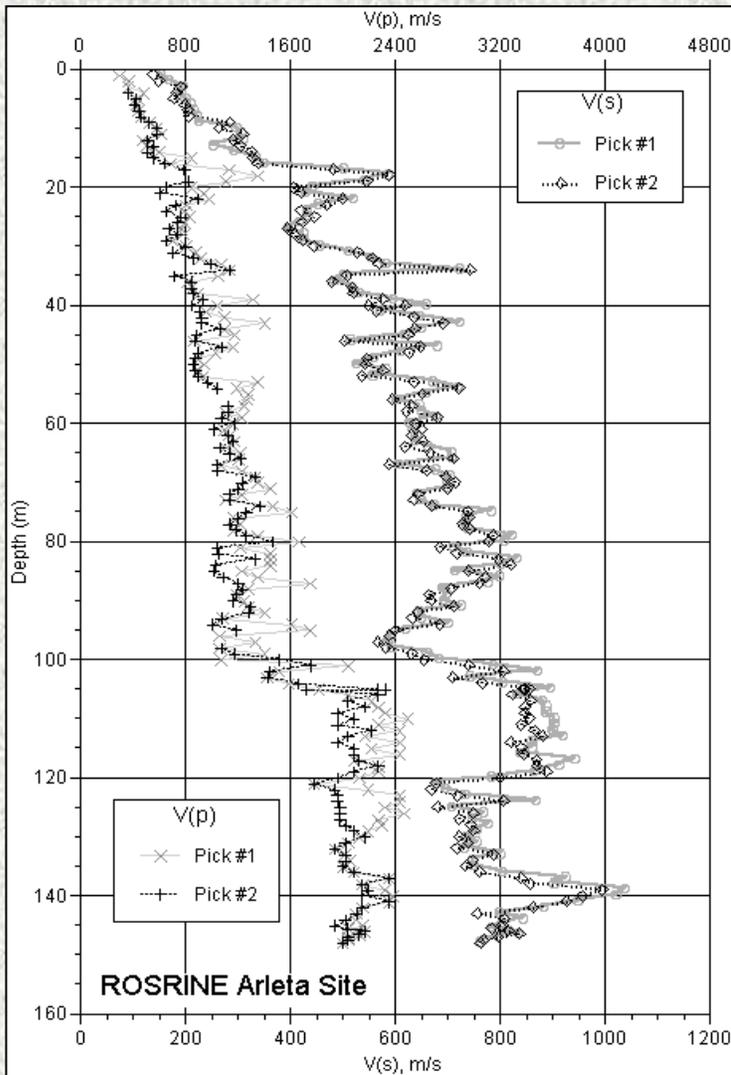


# Geophysics and Geology

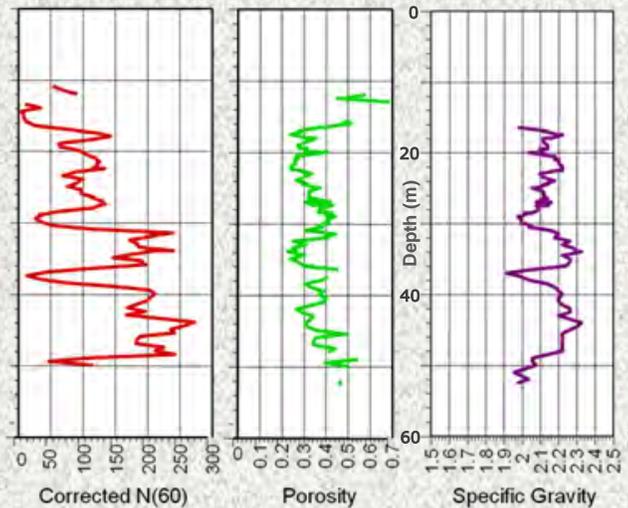
## Borehole PS Suspension Log



The PS Suspension tool is used to measure compression (P) and shear (S) wave velocities *in situ*. The tool is well-suited for low-velocity soils and rock,

Formation P- and S-wave velocity provides valuable information on the fundamental properties of soil and rock. Velocity data from PS Suspension logs are critical for evaluating earthquake hazards (including calculation of Vs30 for determination of site response). In addition, the PS log is useful for stratigraphic delineation and calculation of bulk density and initial elastic moduli.

Only a single borehole is needed for PS Suspension logging, providing cost savings when compared to crosshole logging methods. The tool is effective in PVC-cased and uncased holes, and has been successfully used to depths exceeding 1,000 feet at Caltrans.



More information on PS Suspension logs is available from the University of Missouri, Rolla at the following link:

<http://2006geophysics.mst.edu/hgconproceedings/2000papers/Borehole%20velocity%20logging%20for%20caltrans%20earthquake%20engineering%20program.pdf>