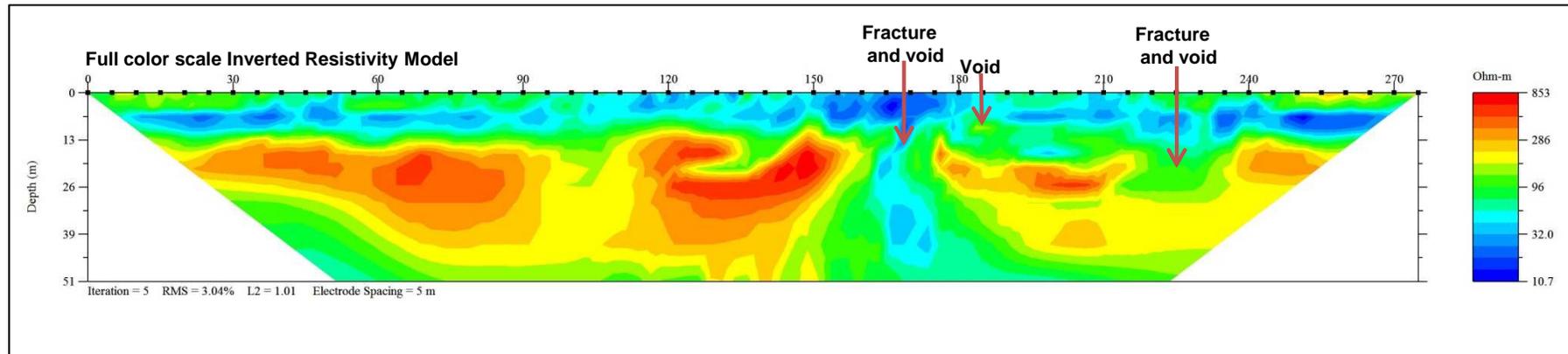
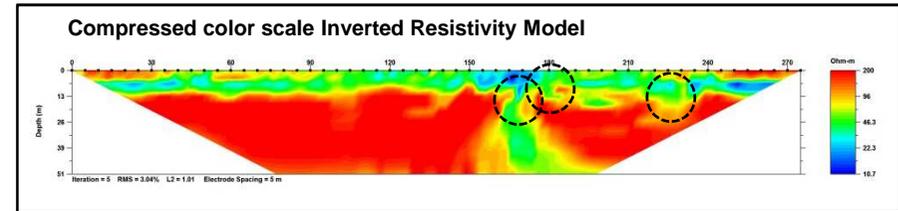
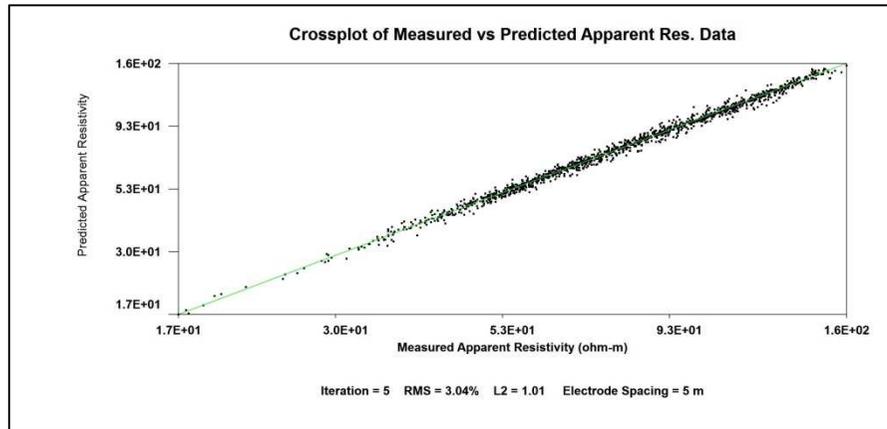


Earthen Dams: locating leakage with resistivity imaging surveys



2121 Geoscience Drive, Austin, TX 78726
 Tel: +1 (512) 335-3338
 Fax: +1 (512) 258-9958
 Email: sales@agiusa.com
 Website: <http://www.agiusa.com>



Objective: Locate leakage through karst limestone at the bottom of an earthen dam using resistivity imaging surveys

Survey date: October 10, 1996

Survey site: On the bottom of the Amistad dam, just inside the wall

Instrument: StingR1 with 56 Swift electrodes

Software: EarthImager2D with a merged wenner, schlumberger and dipole-dipole data set to maximize signal strength and resolution

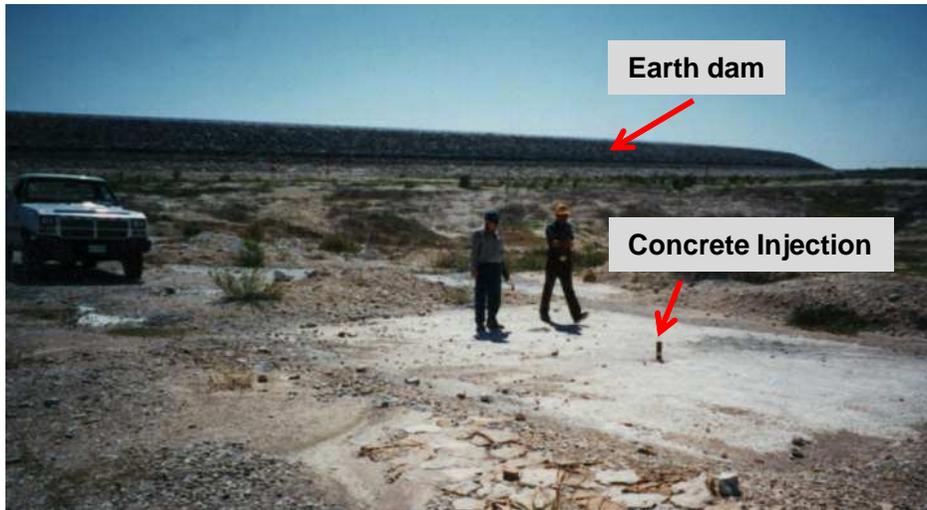
Results: Low resistivity anomalies located around coordinates 170 and 185 and 225 have now been drilled and grouted. The anomalies at 170m and 225m are fracture zones with associated voids. The anomaly at 185m is a void. These systems were injected with 703 cubic meters of grout. The water in the dam has raised significantly after resistivity imaging surveys and grouting of these 15 other similar targets.



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Since 1996 the reservoir has filled significantly

