

Enterprise GIS Dataset Stewardship

Identified Candidate Dataset

Dataset: i08_SoilsTestData_Initial.gdb

Primary Steward: Karen Tolentino

Primary Steward Division/Office/Program: FESSRO/Special Investigation/GIS and Remote Sensing

The candidate geodatabase, i08_SoilsTestData_Initial.gdb, contains two feature classes – soil borings and cone penetrometer tests (CPT). Both are point features that represent the approximate boring or CPT locations. Currently, most of the borings stored in this geodatabase are located in the Delta. Eventually, the geodatabase will include more borings and CPTs located outside of the Delta. The point features in the soil borings and CPT feature classes have hyperlinks to scanned copies of the boring/CPT logs and uses a domain for the Coordinate_System field.

The information on the soil borings and CPT feature classes were taken from various geotechnical investigation reports and other project documents stored in the Project Geology office at 3500 Industrial Boulevard, West Sacramento, California. Additional reports were provided by the Special Projects branch and other engineers from the FloodSAFE Environmental Statewide Stewardship and Resources Office located at 1416 9th Street, Sacramento, California. This dataset is expected to be maintained and updated regularly as new soil boring/CPT logs are produced.

The horizontal accuracy of the points varies with the method the point was digitized by. Some logs provide northings and eastings; and descriptive statements about the location of the boring hole. Other logs have approximate coordinate values and vague descriptions on the location. These points were digitized using the Add XY tool in ArcMap and projecting the points to their corresponding coordinate system. Most points were digitized using the maps found in the reports and their locations are usually not accurate due to the map not being drawn to scale. Some maps are unreadable or hand drawn. The comment field contains information on how each of the points was digitized. These datasets were not tested for vertical accuracy.

The soil borings feature class is linked to two relationship tables – geometric and material properties table and ULE/NULE D30 data table. The information in the geometric and material properties table was taken from a Delta Risk Management Strategy (DRMS) deliverable, Phase1_borings_geometric_and_material_properties.xls that was created by URS Corporation's Oakland GIS Group during Phase 1 DRMS project under contract for the California Department of Water Resources (DWR). The ULE/NULE D30 table was provided by the Division of Flood Management and contains soil borings located in areas included in the Urban Levee and Non-urban Levee Evaluations Program.