

# Online Data Management System for Groundwater Sustainability Planning for Owens Valley Groundwater Basin

Independence, California

## CLIENT

Owens Valley Groundwater Authority

## HIGHLIGHTS

- **Assimilation of data collected by multiple agencies into a single database accessible via an interactive online data portal**
- **GLA-Data capabilities:**
  - 1) Online data import and collection
  - 2) Custom tools and queries
  - 3) Access and view information related to wells, events, and data

DBS&A was selected by the Owens Valley Groundwater Authority (OVGA) to produce a Groundwater Sustainability Plan (GSP) that built on existing sustainable practices in the Owens Valley Groundwater Basin. This Plan outlines the path toward sustainable groundwater management in the Owens Valley Groundwater Basin in compliance with the Sustainable Groundwater Management Act (SGMA).

One of the project tasks was to effectively manage the vast quantity of water well data collected in the basin by multiple federal, state, and local agencies by assimilating them into a single relational database. DBS&A utilized GLA-Data, a comprehensive, web-accessible GIS-based database management system (DMS) as a publicly accessible, user-friendly interactive online data portal (<https://owens.gladata.com>). The system provides a powerful set of tools for efficient data analysis, visualization, and reporting.

The GIS-based online system includes mapping tools that allow the user to select wells based on water levels, screen intervals, and water quality. Additional GIS layers include geology, management areas, crop mapping, groundwater dependent ecosystems (GDEs), model boundaries, and soils types. Database capabilities include data import and collection using online forms and documentation, and custom tools and queries to support permitting, monitoring, and reporting to outside agencies.

