#### Mid-Kaweah Groundwater Sustainability Agency

**Board Meeting** 

January 10, 2017



#### Data Management and Public Involvement





### Data Management System (DMS)

• What is a DMS?

• Functionality

Public Involvement and Levels of Access



## What is a DMS?

- Database with pertinent hydrologic, geologic and geographic information
- Required by SGMA for Groundwater Sustainability Plans (GSPs)
- Keeps all information in an organized and secure location for the GSA, local agencies/districts, individual water users, and the public
- Used to track and assess basin groundwater conditions and sustainability
- Provides an online, interactive mapping interface (GIS) to facilitate rapid data review
- Based on DWR's own DMS system for SGMA



# **DMS Functionality**

- Data storage
- Data visualization (maps and graphs)
- Data review and analysis
- Track basin conditions
- Track and define sustainability criteria
- GSP compliance tracking and SGMA reporting
- Target future basin management actions and projects
- Assist with future basin management and project planning

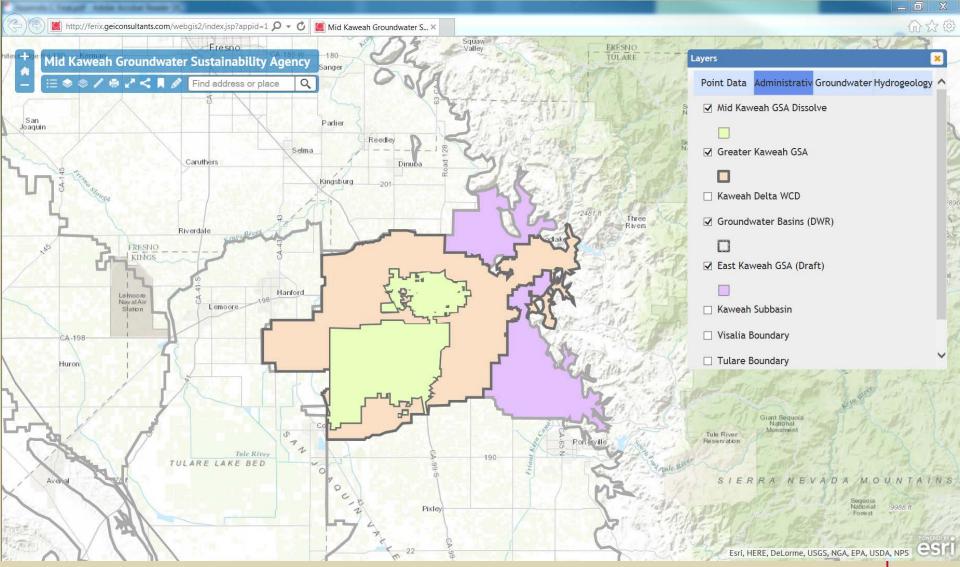


#### **Additional DMS Details**

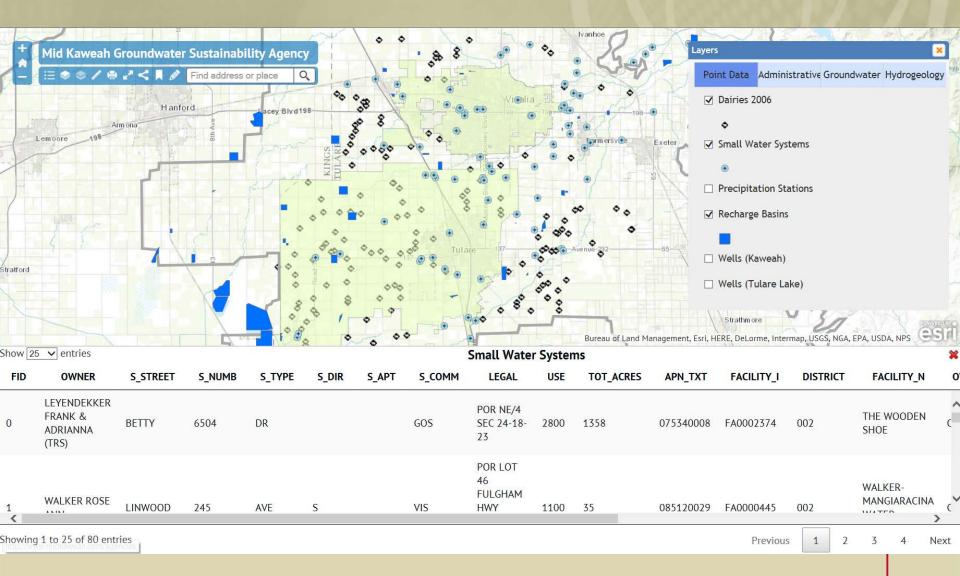
- Shows time series graphs of hydrologic data
- Allows for importation of new data as it becomes available (expandable)
  - Additional datasets outside of the MKGSA
  - Future data collection and monitoring efforts
- Can be expanded to include neighboring GSAs
- Designed so that data can be refined to Management Areas (MA)s or higher resolution



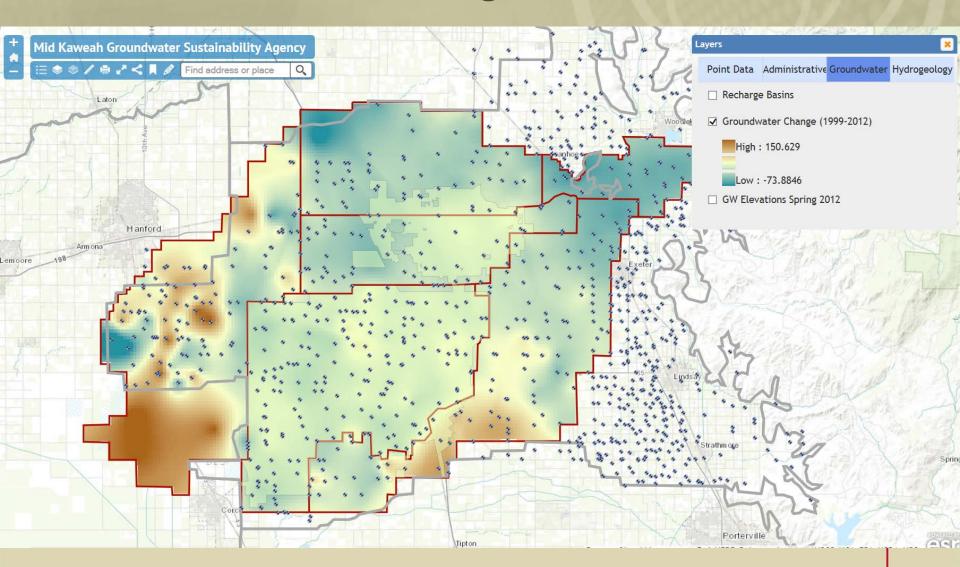
## Interactive, Online Mapping



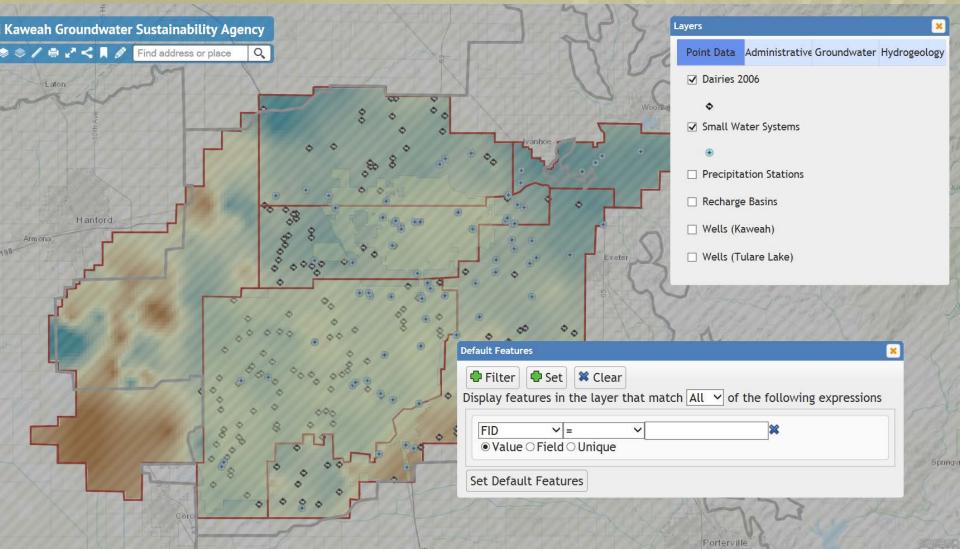
## **Review Data Tables**



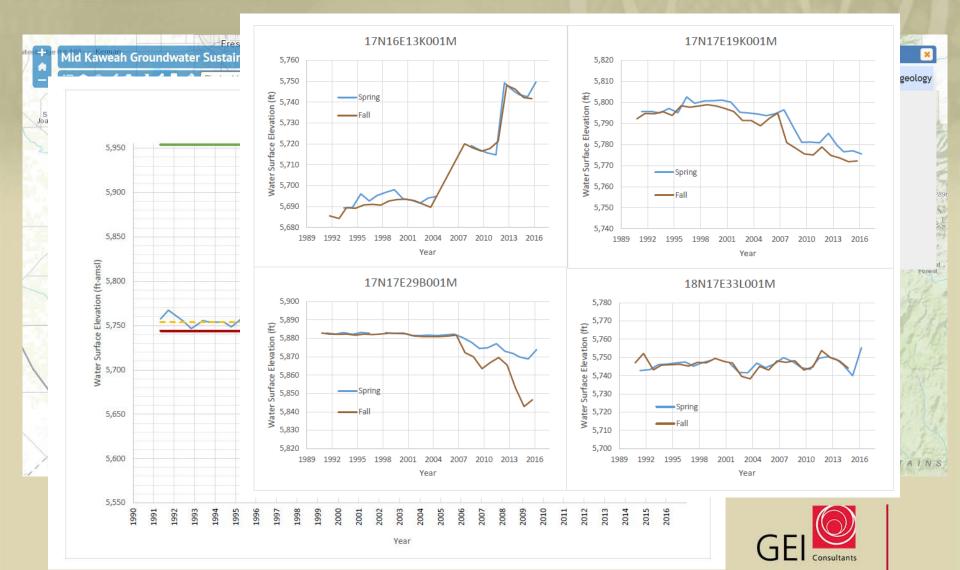
#### Review Regional Data and Analyses



#### Search and Query Specific Information



## **Review Data over Time**



## **Benefits of a DMS**

- Archives and protects valuable data from projects and monitoring programs
- Identifies areas of limited data (data gaps)
- Enhances transparency of basin conditions and facilitates agreement
- Reduces potential of conflict
- Improves quality of the data in the GSP
- Provides cost savings relative to multiple data storage systems



## **GSA, Agency and Public Access**

#### Public Access

- Online and linked to GSA website
- Facilitates transparency of basin conditions
- Improves understanding of basin sustainability
- Allows data visualization and review
- Communicates information and data to public without specific software or tools
- Assists local groundwater users with planning and operations
- Communicates local conditions related and their relationship to sustainability indicators



#### GSA, Agencies and Public Access

- Agency Capabilities
  - Includes same as Public Access
  - Can upload local monitoring data to the database
  - Can download local information to assist with operations and GSP compliance



#### GSA, Agencies and Public Access

- GSA Capabilities
  - Includes same as Public Access
  - Perform analyses
  - Automated reporting functions (calculations and graphics) for SGMA compliance
  - Can update database and mapping capabilities
  - Can add additional analyses or functions to facilitate and benefit GSA or local agency management



### **Questions/Comments**

