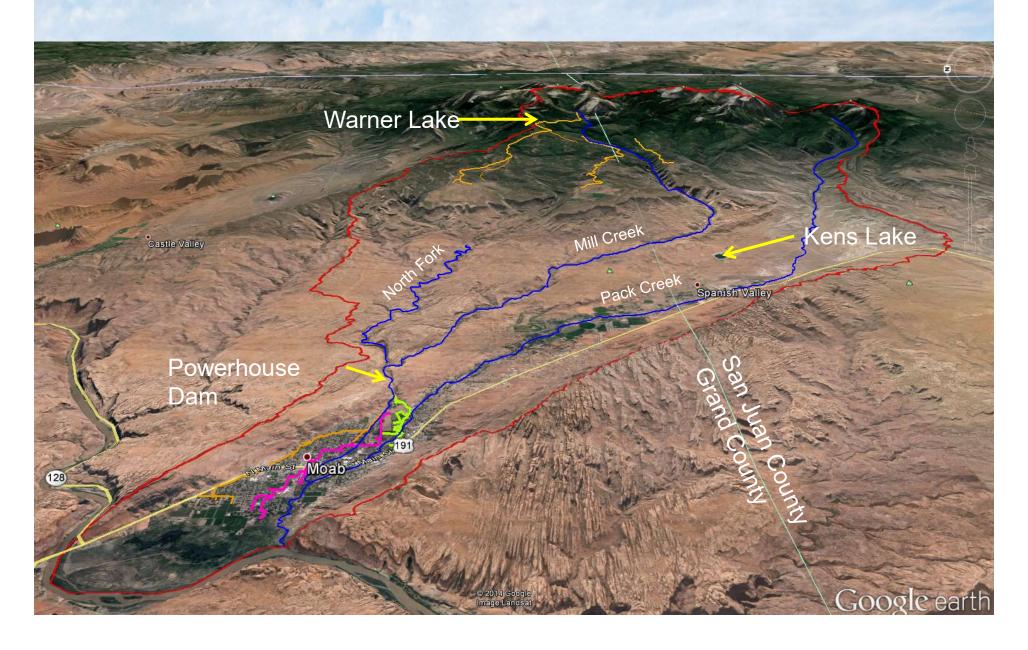


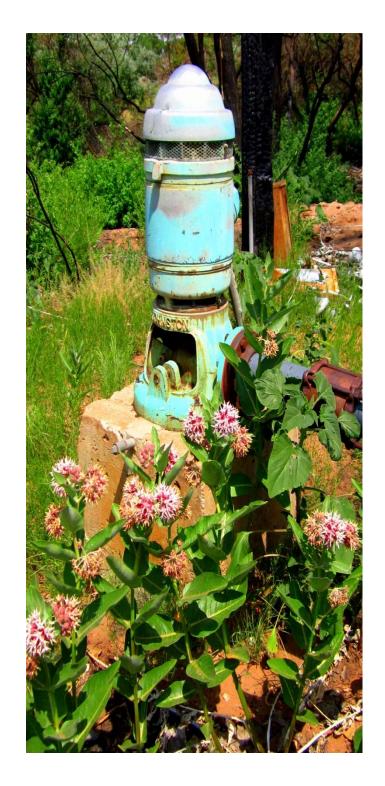
### **Utah Division of Water Rights**



REVIEW OF GROUNDWATER MONITORING MOAB / SPANISH VALLEY - CENTRAL

## Moab / Spanish Valley Watershed





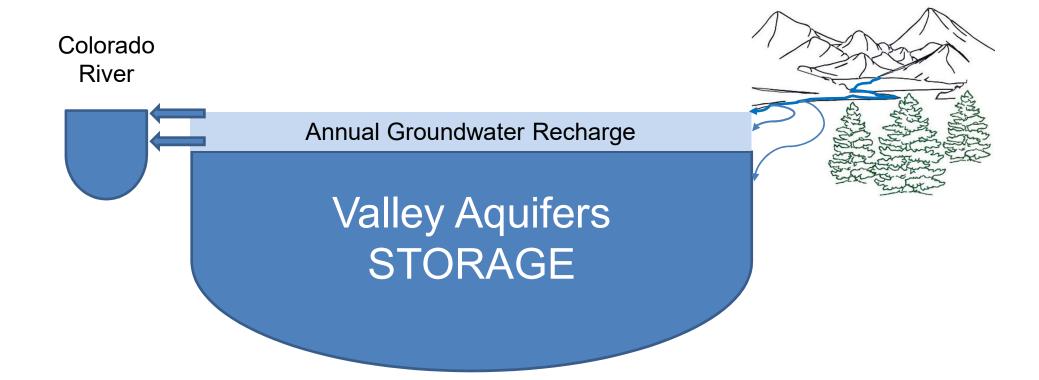
### Groundwater Management Plans

• Est. in Section 73-5-15 Utah Code

### Objectives:

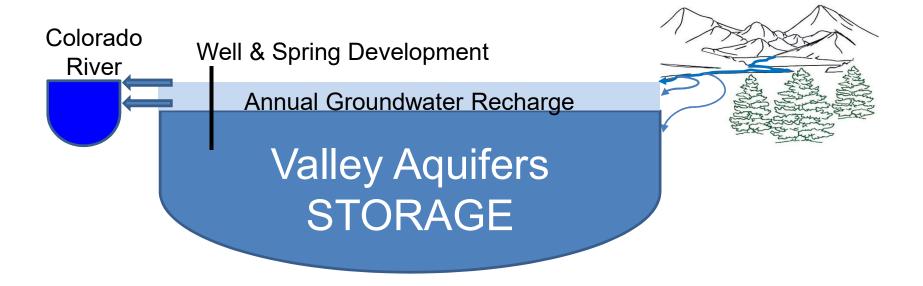
- Limit groundwater withdrawals to safe yield.
- Protect physical integrity of the aquifer.
- Protect water quality.

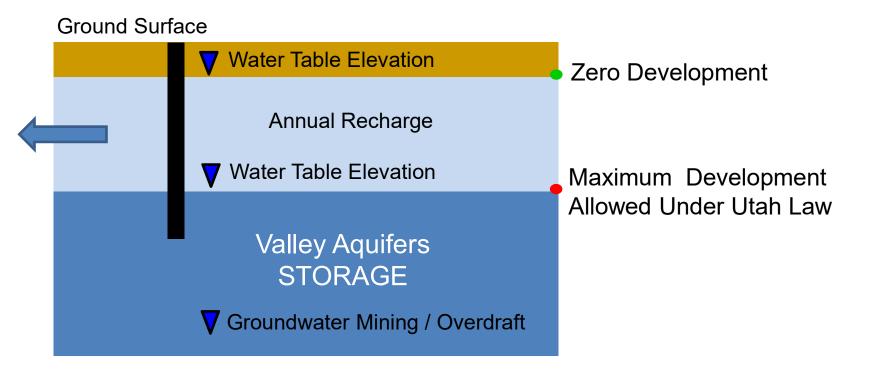
"Safe Yield" means the amount of groundwater that can be withdrawn from a groundwater basin over a period of time without exceeding the long-term recharge of the basin or unreasonably affecting the basin's physical and chemical integrity.



USGS "Evaluation of Groundwater Resources in the Spanish Valley Watershed, Grand and San Juan Counties, Utah" Scientific Investigations Report 2019-5062, pg. 55

- Recharge: 9,550 30,000 acre-feet
- Discharge: 14,000 16,000 acre-feet





## What Should Be Measured?

- Spring Flows
- Stream Flows
- Water Quality
- Water Table Elevations







# Who's collecting the Data?

- USGS
- Moab City
- Moab Irrigation Company
- Grand Water & Sewer SA
- San Juan Spanish Valley SSD
- Division of Water Quality
- Division of Water Rights

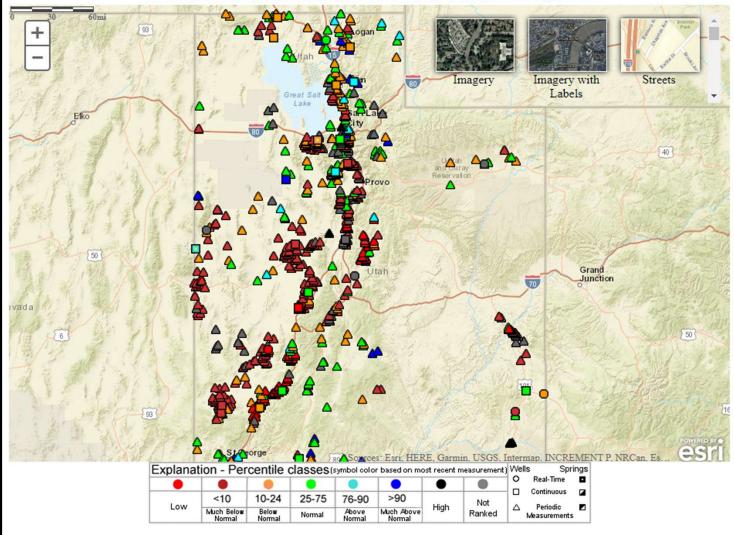


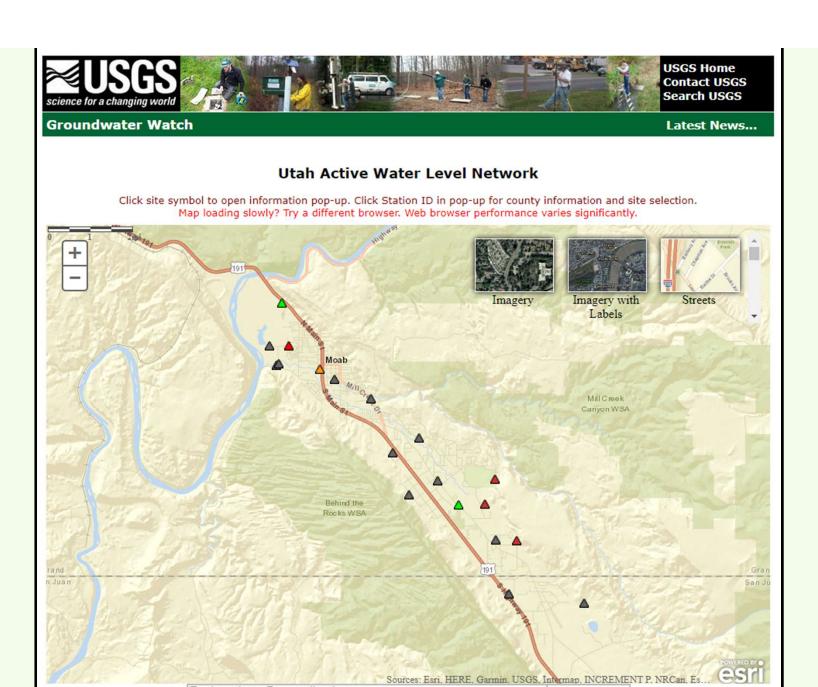
Groundwater Watch Latest News...

#### **Utah Active Water Level Network**

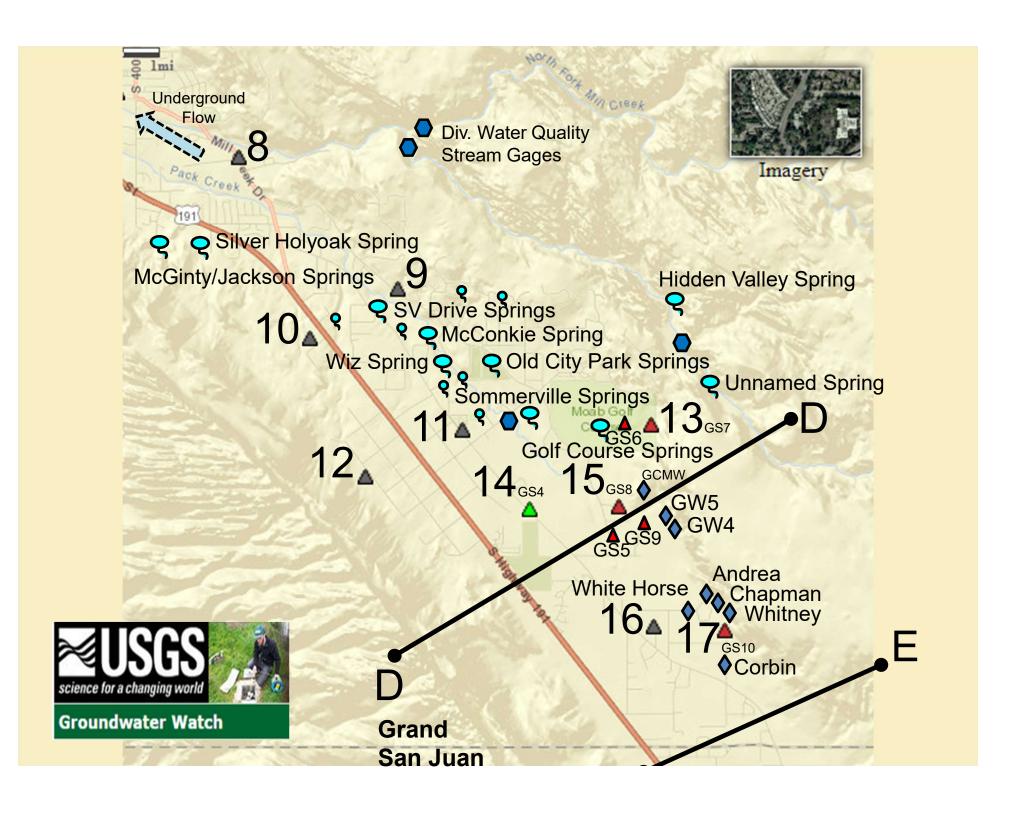
Click site symbol to open information pop-up. Click Station ID in pop-up for county information and site selection.

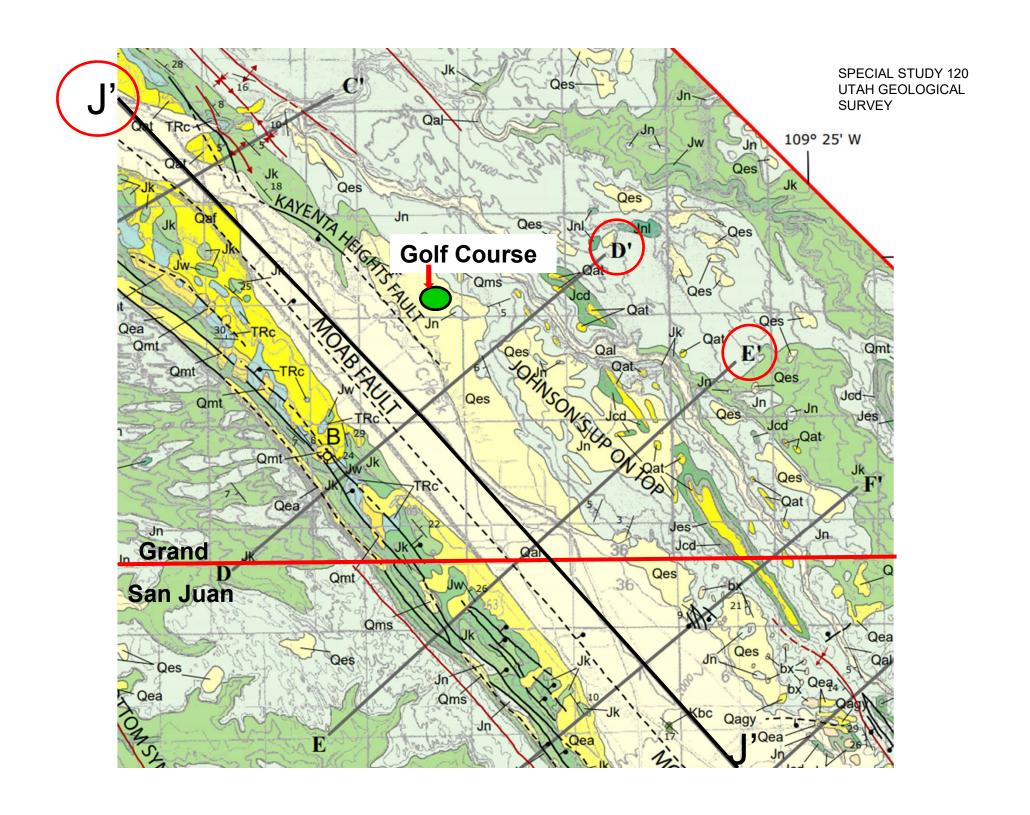
Map loading slowly? Try a different browser. Web browser performance varies significantly.

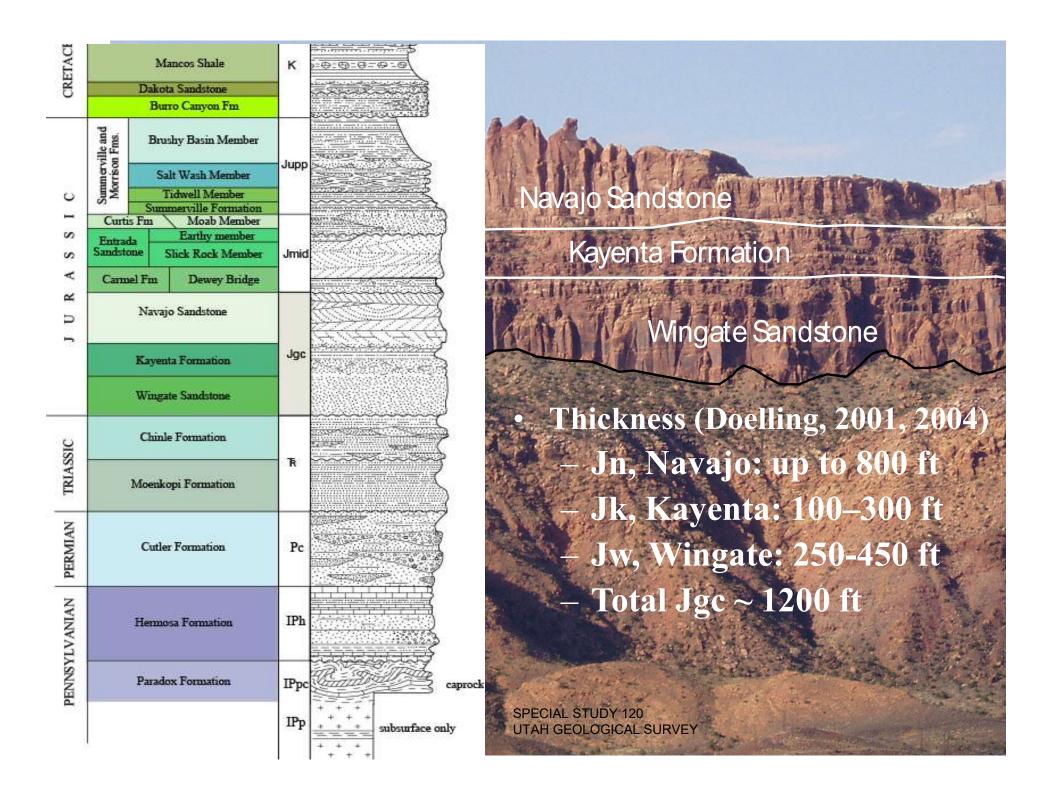


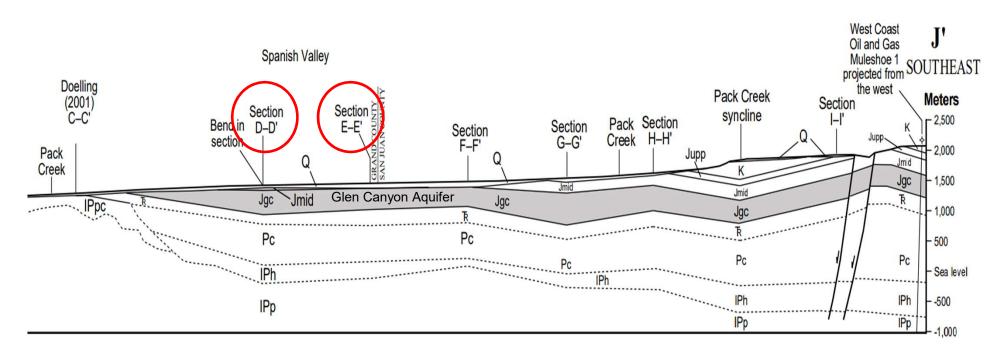


Explanation - Percentile classes (symbol color based on most recent measurement) Wells Continuous 10-24 >90 <10 25-75 76-90 Not Low Periodic Much Below Normal Below Normal Much Above Normal Above Normal Ranked Measurements



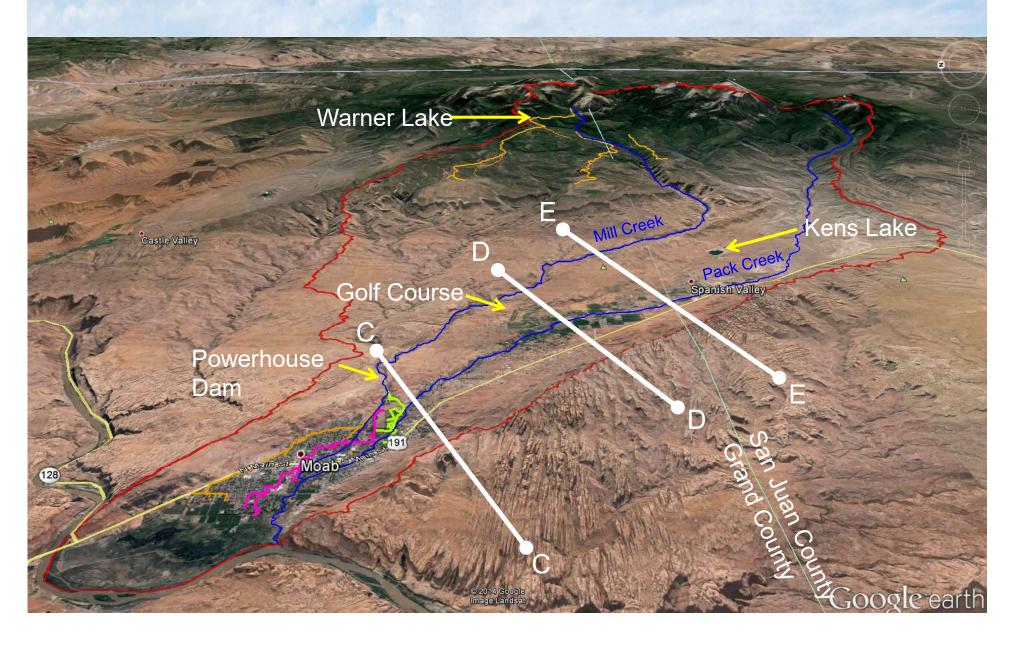


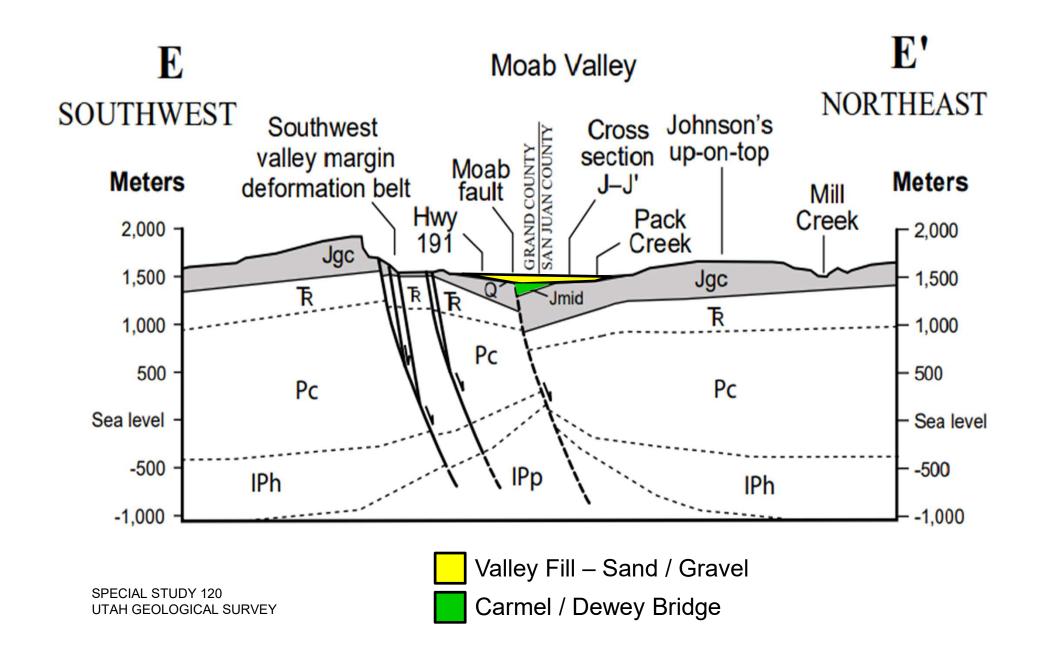


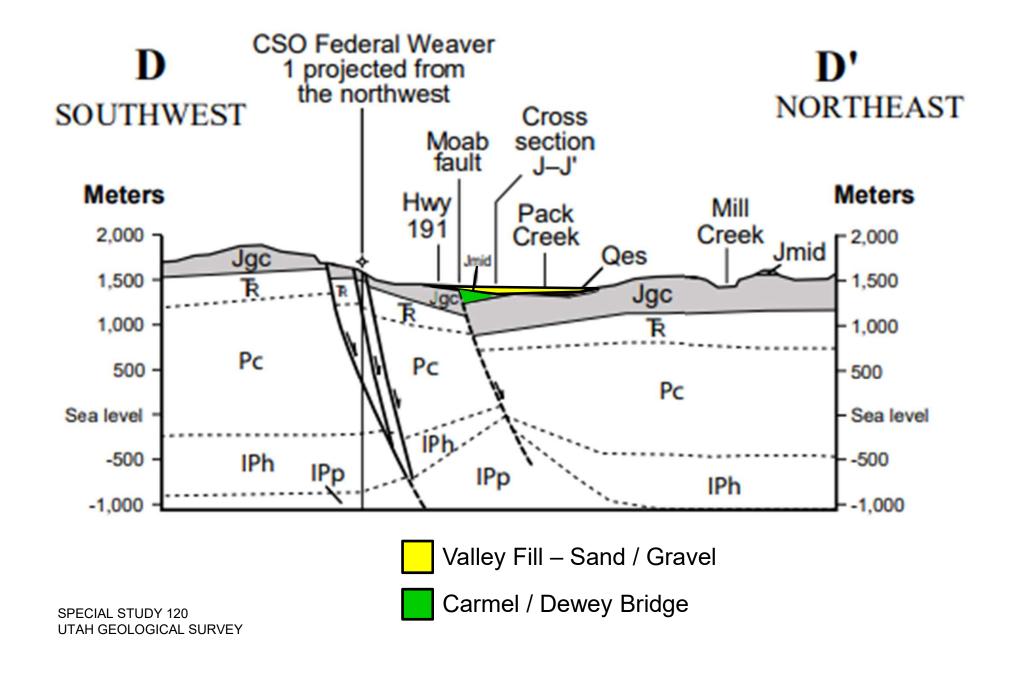


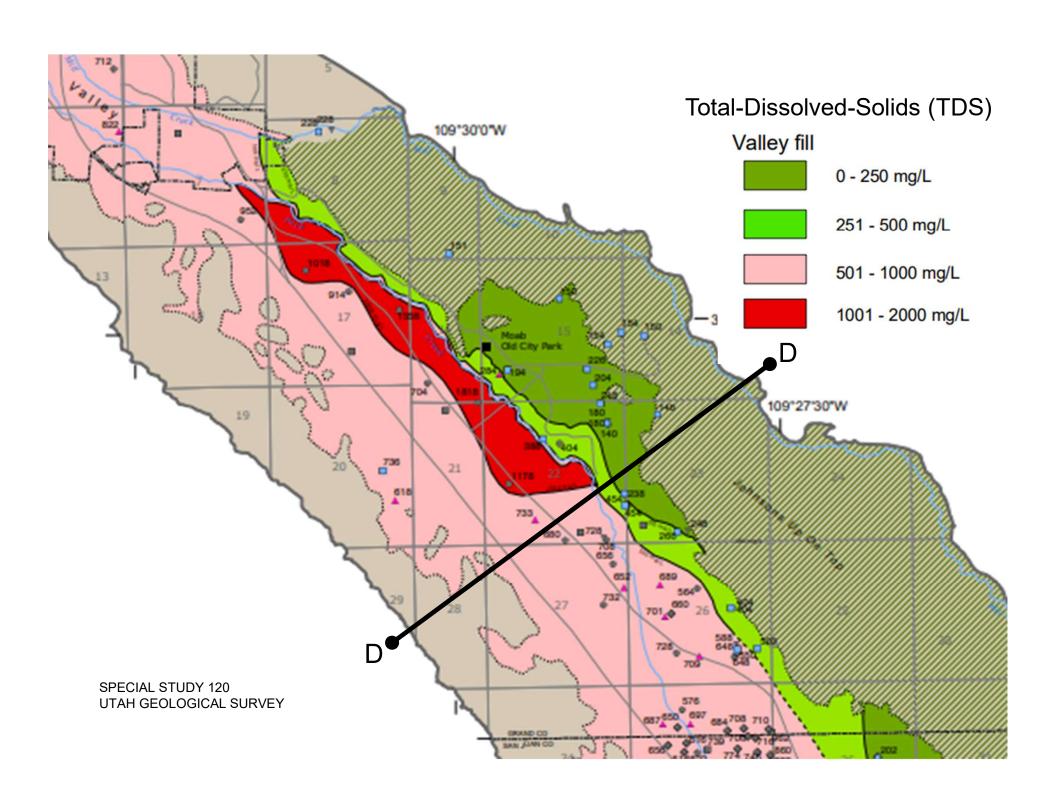
SPECIAL STUDY 120 UTAH GEOLOGICAL SURVEY

# Moab / Spanish Valley Watershed









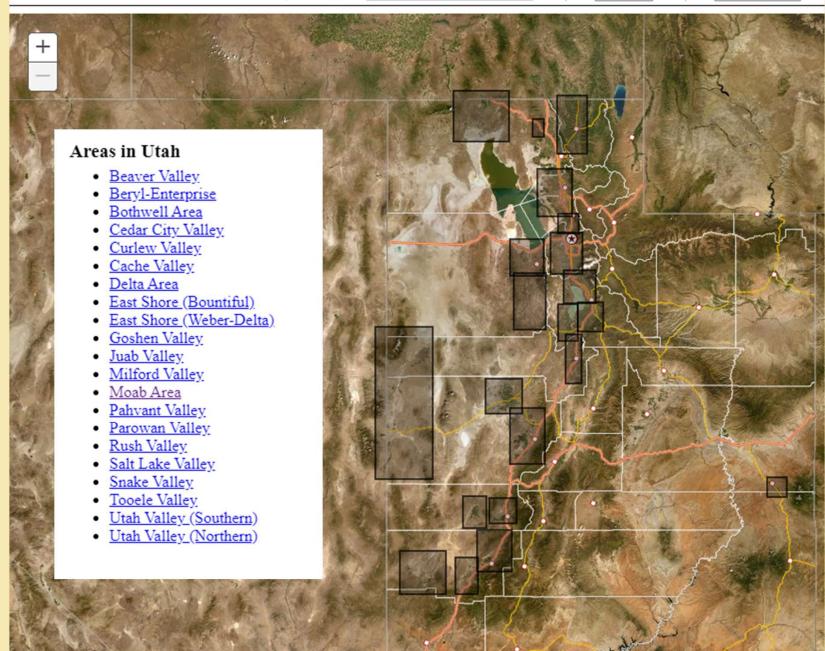
### **Utah Division of Water Rights**

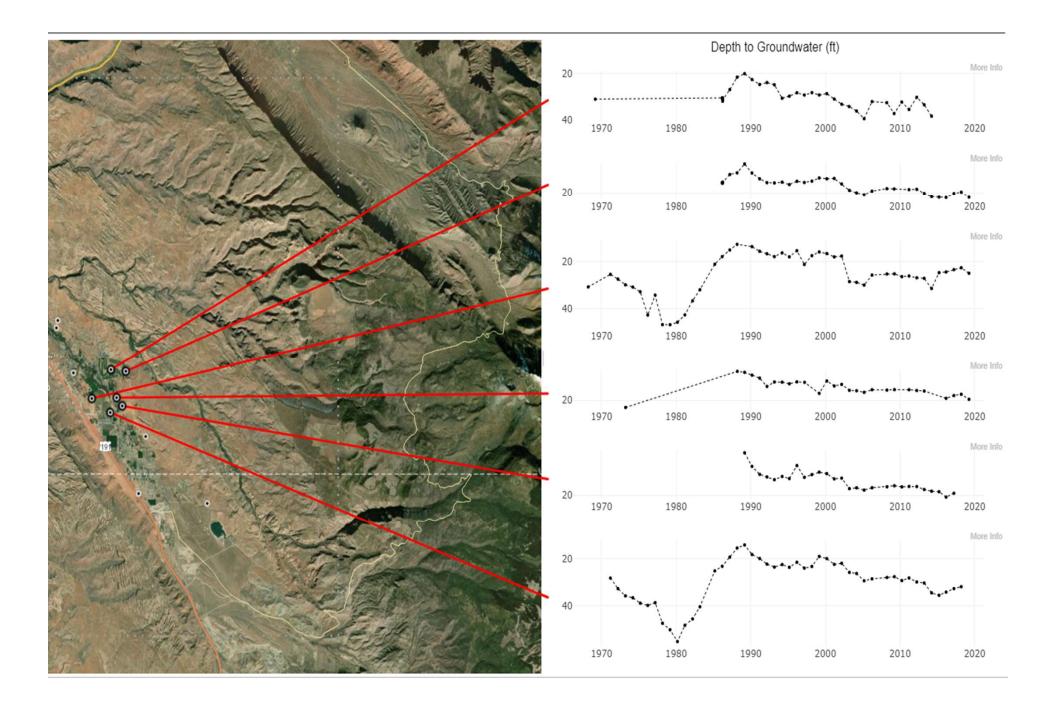
Groundwater Level Trend Viewer

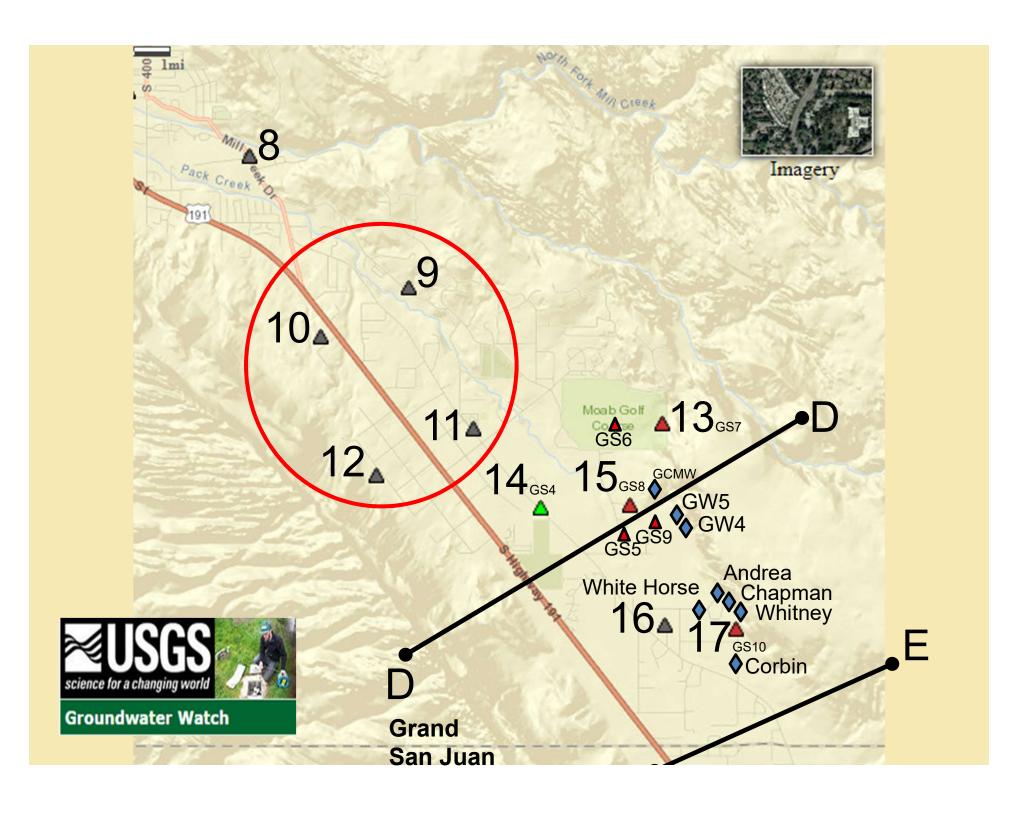
Region:

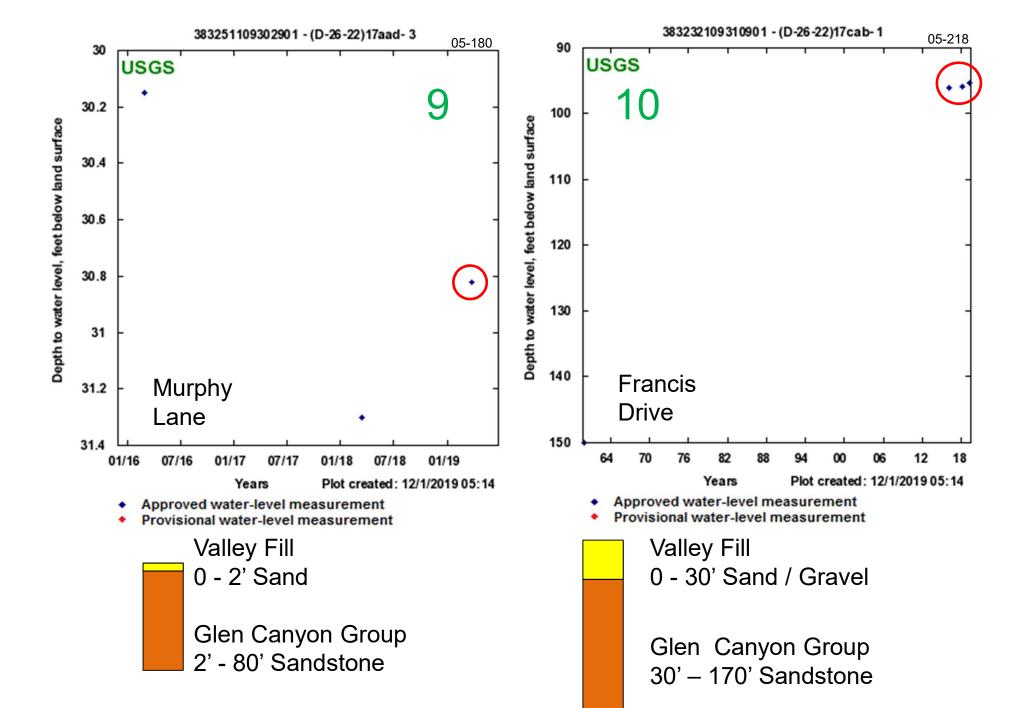
Options

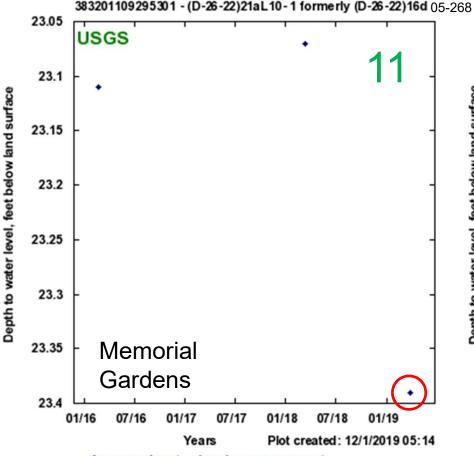
Map Options







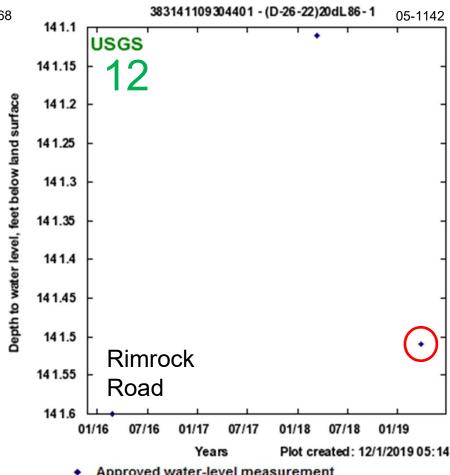




- Approved water-level measurement
- Provisional water-level measurement

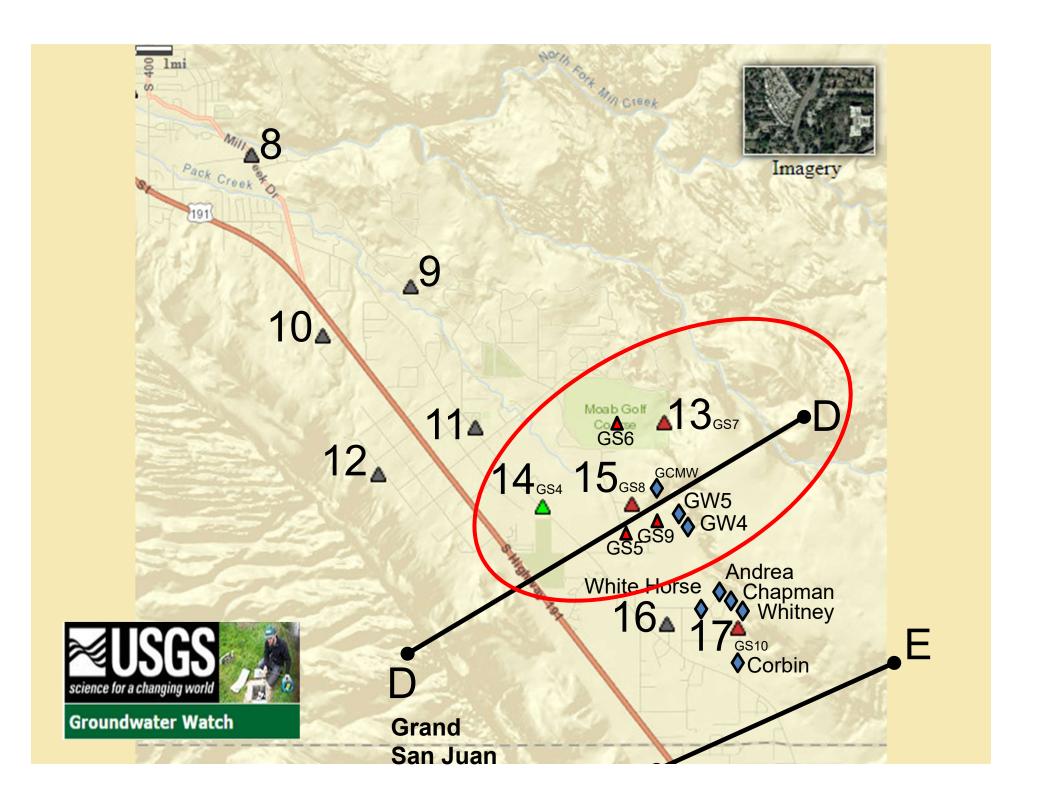
No Well Log

Nearest Well: 05-486 0 - 65' Sand / Gravel

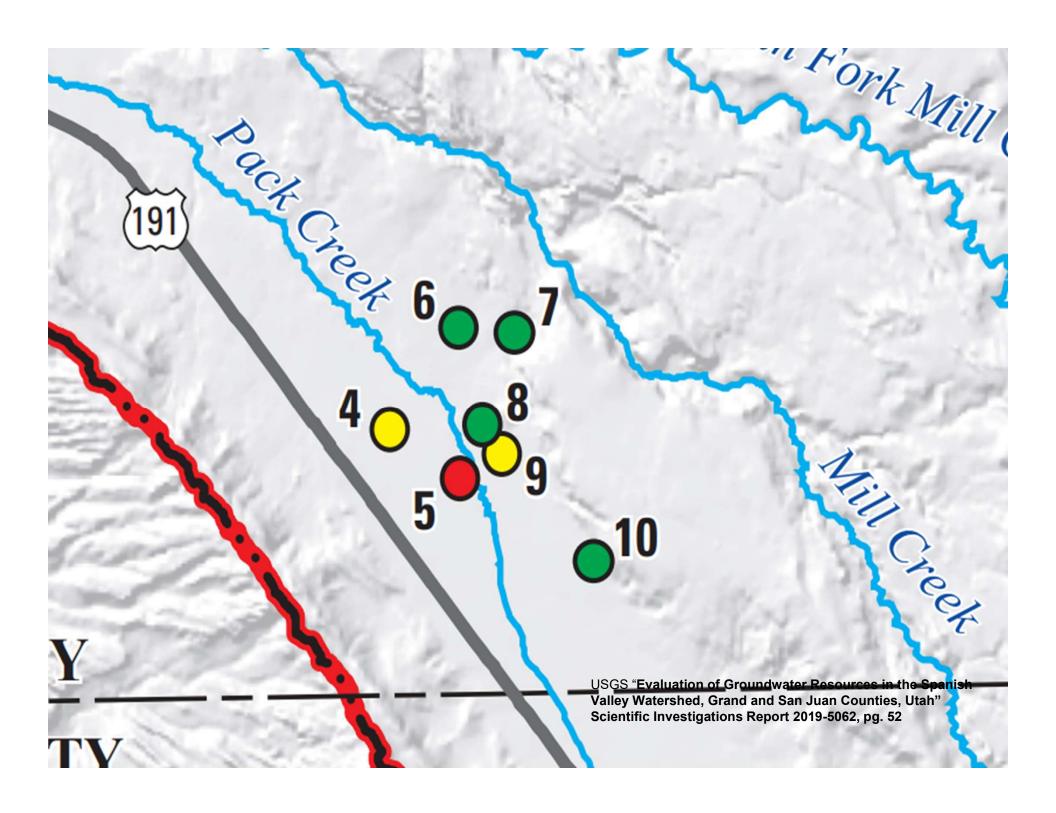


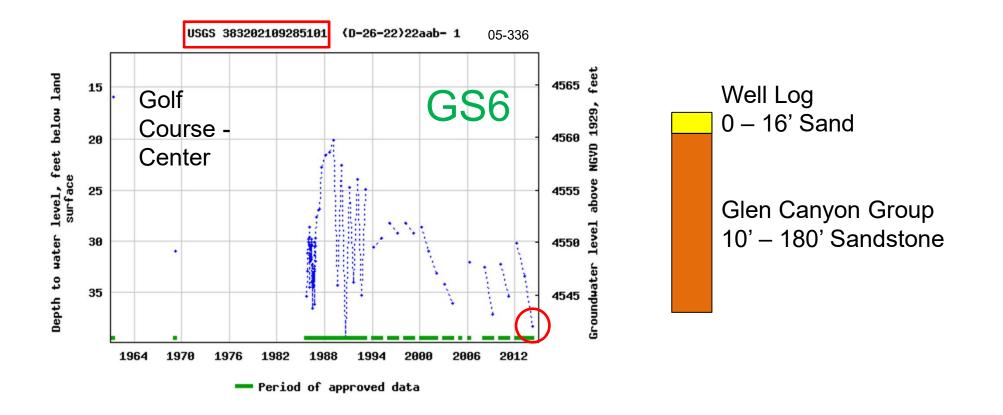
- Approved water-level measurement
- Provisional water-level measurement

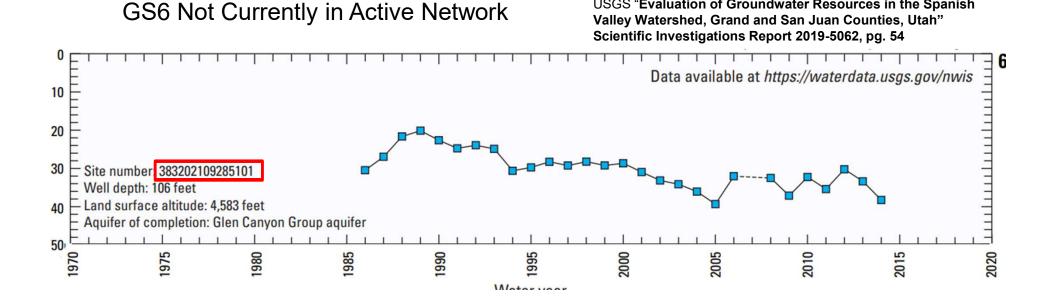




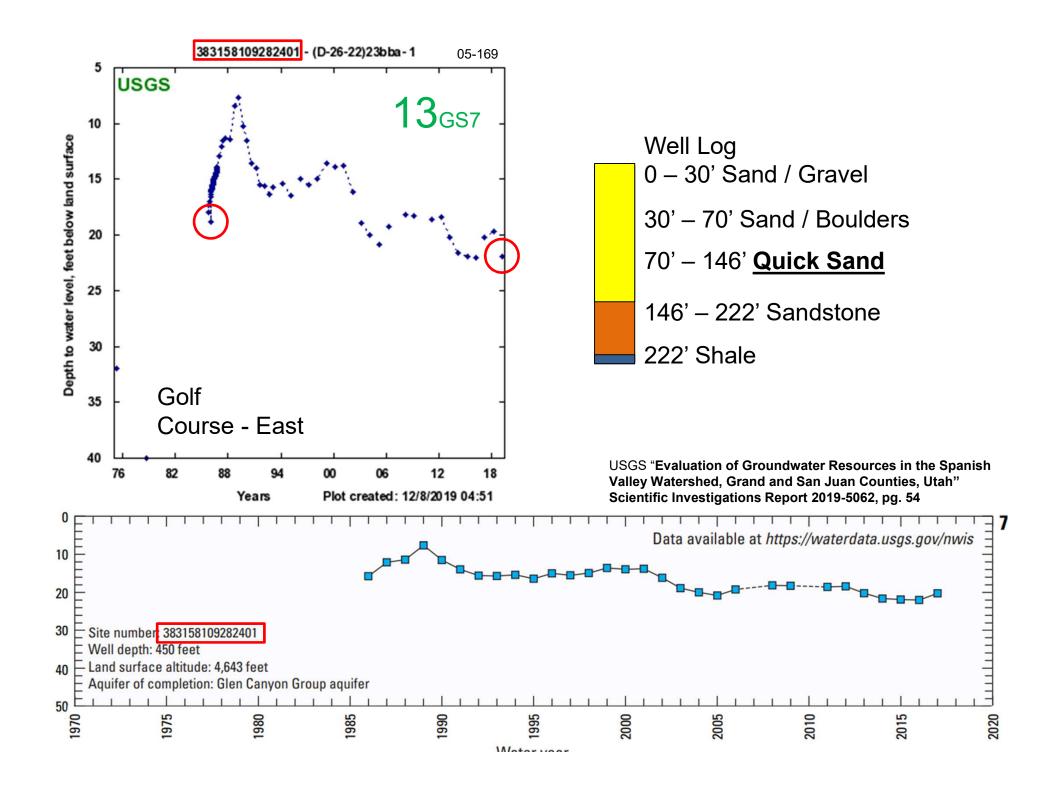


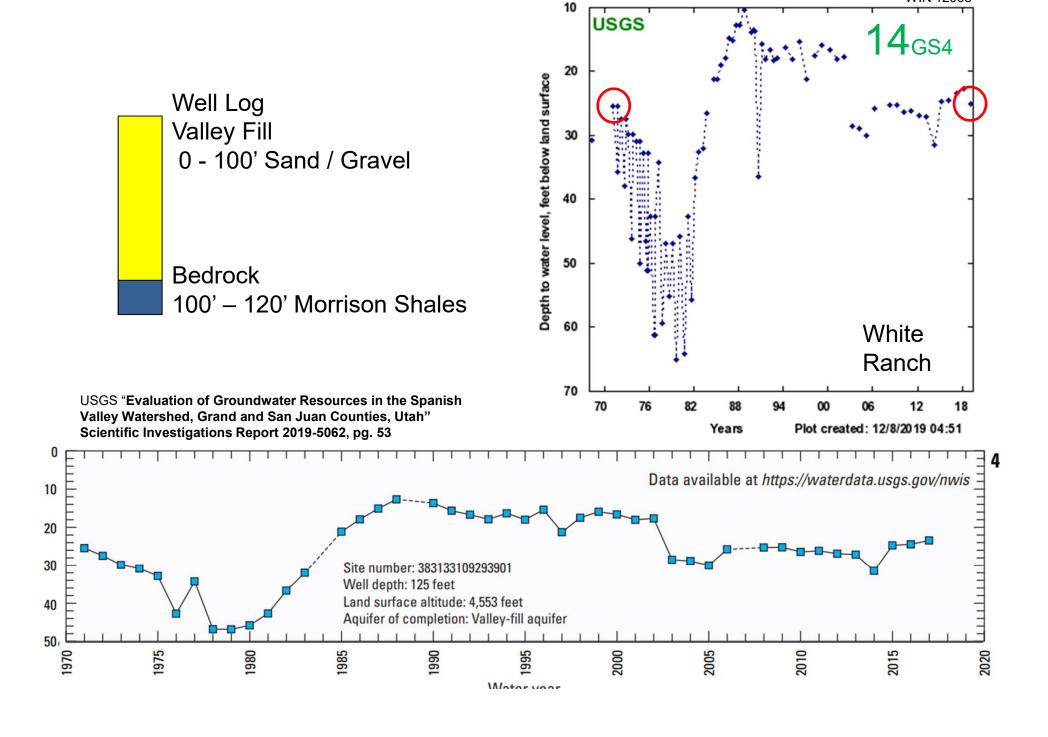






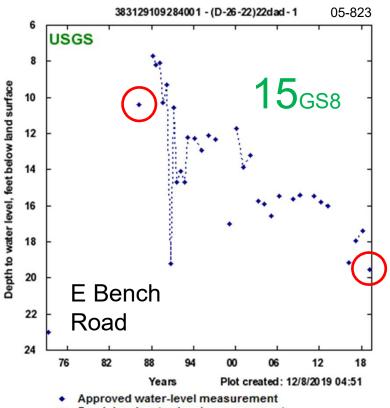
**USGS "Evaluation of Groundwater Resources in the Spanish** 





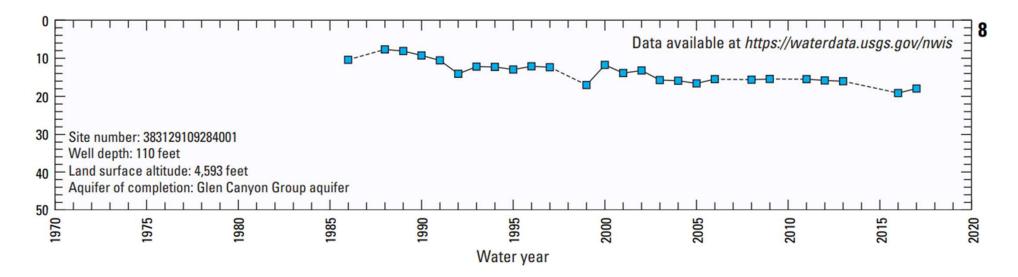
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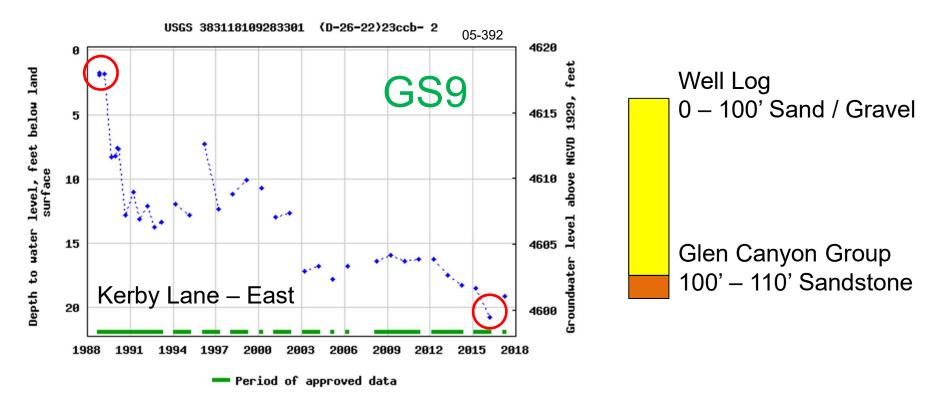
WIN 12068

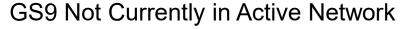


- Well Log 0 – 65' Sand & Broken Up Sandstone (Boulders?)
- 65' 80' Broken Up Sandstone (Faults/Joints?)
- 80' 110' Solid Sandstone

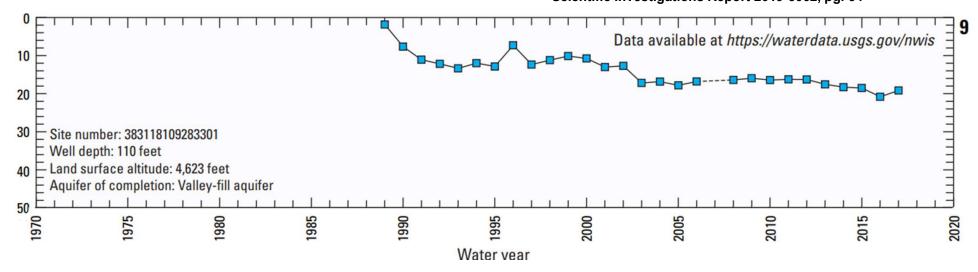
Provisional water-level measurement

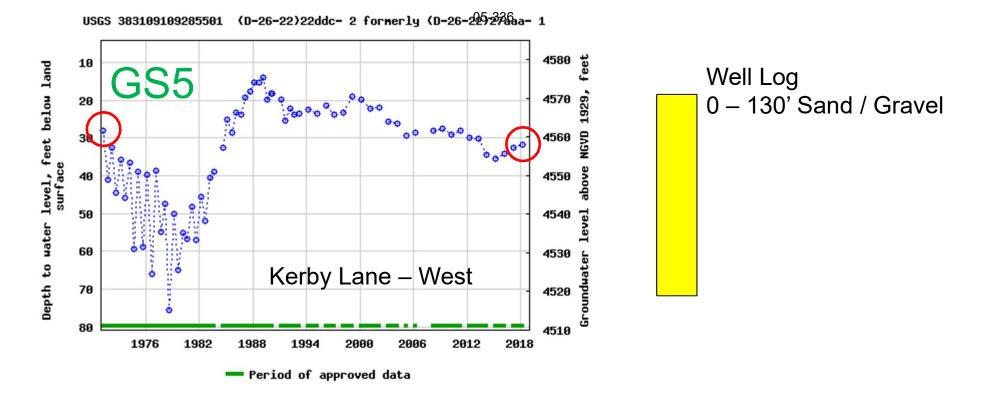


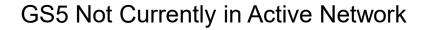




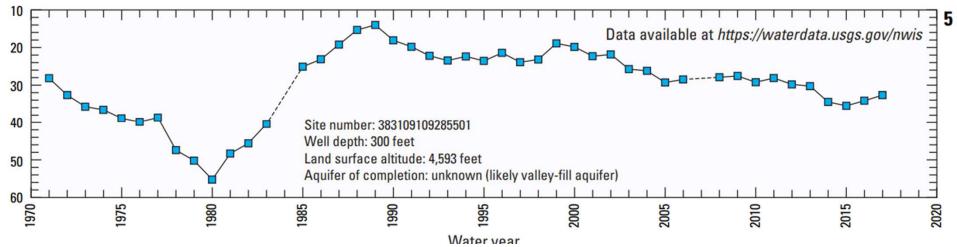
USGS "Evaluation of Groundwater Resources in the Spanish Valley Watershed, Grand and San Juan Counties, Utah" Scientific Investigations Report 2019-5062, pg. 54

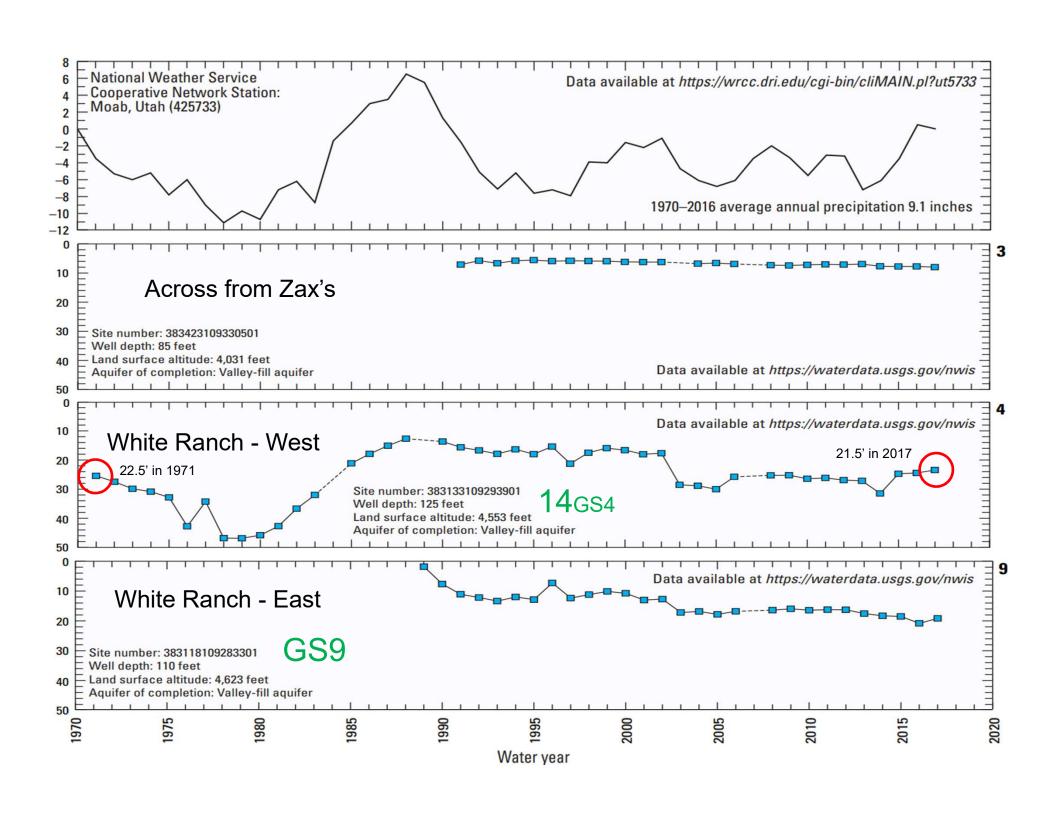


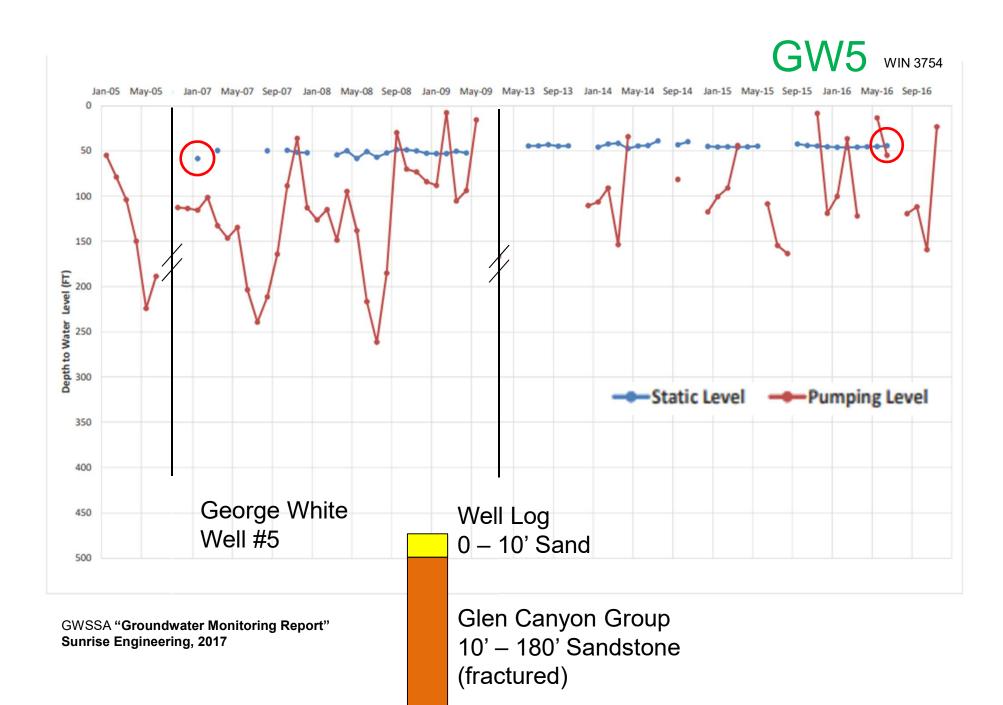




USGS "Evaluation of Groundwater Resources in the Spanish Valley Watershed, Grand and San Juan Counties, Utah" Scientific Investigations Report 2019-5062, pg. 53

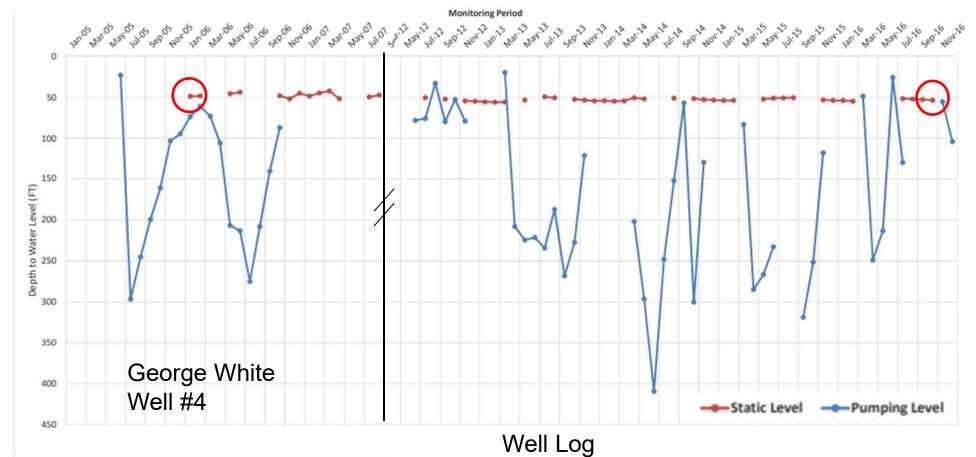






#### Static Level and Pumping Level Monitoring George White Well #4

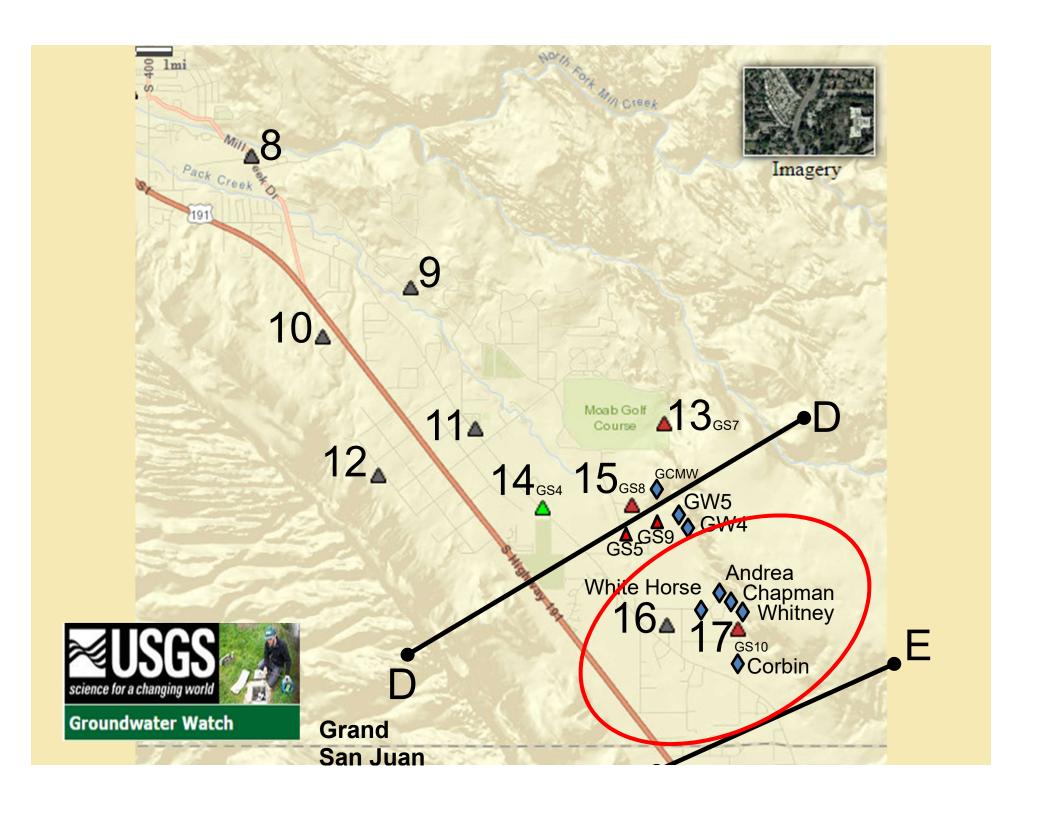


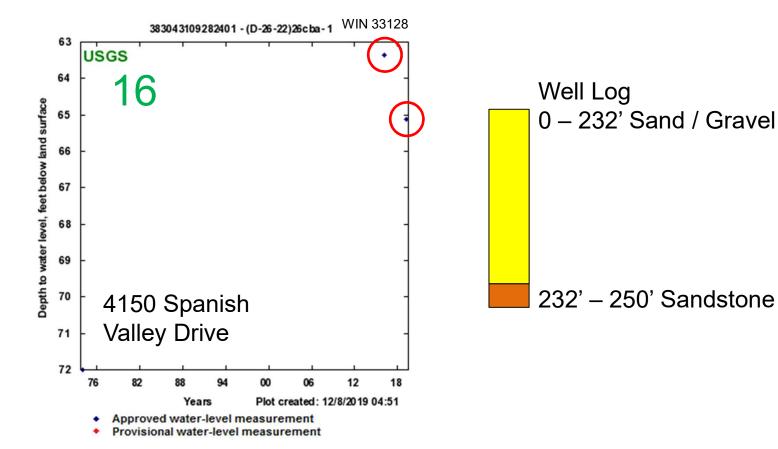


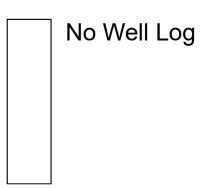
**GWSSA "Groundwater Monitoring Report" Sunrise Engineering, 2017** 

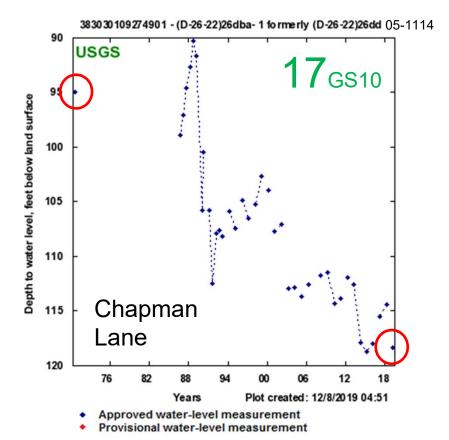
0 - 8' Sand

Glen Canyon Group 8' – 174' Sandstone

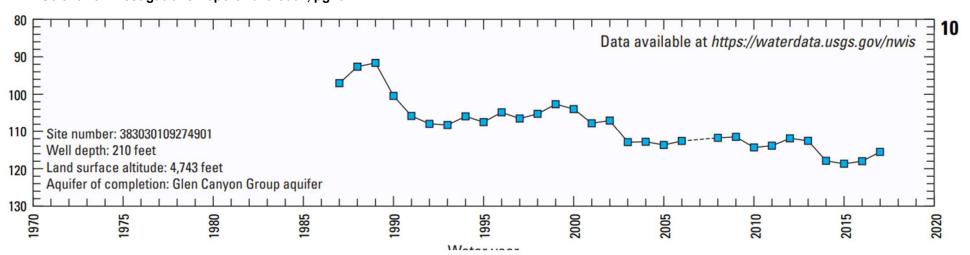


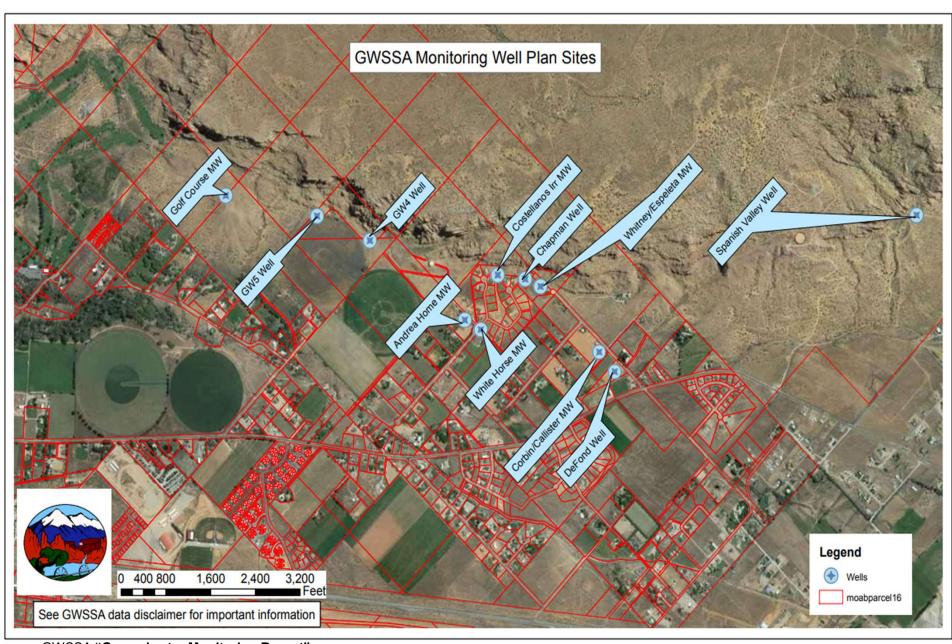




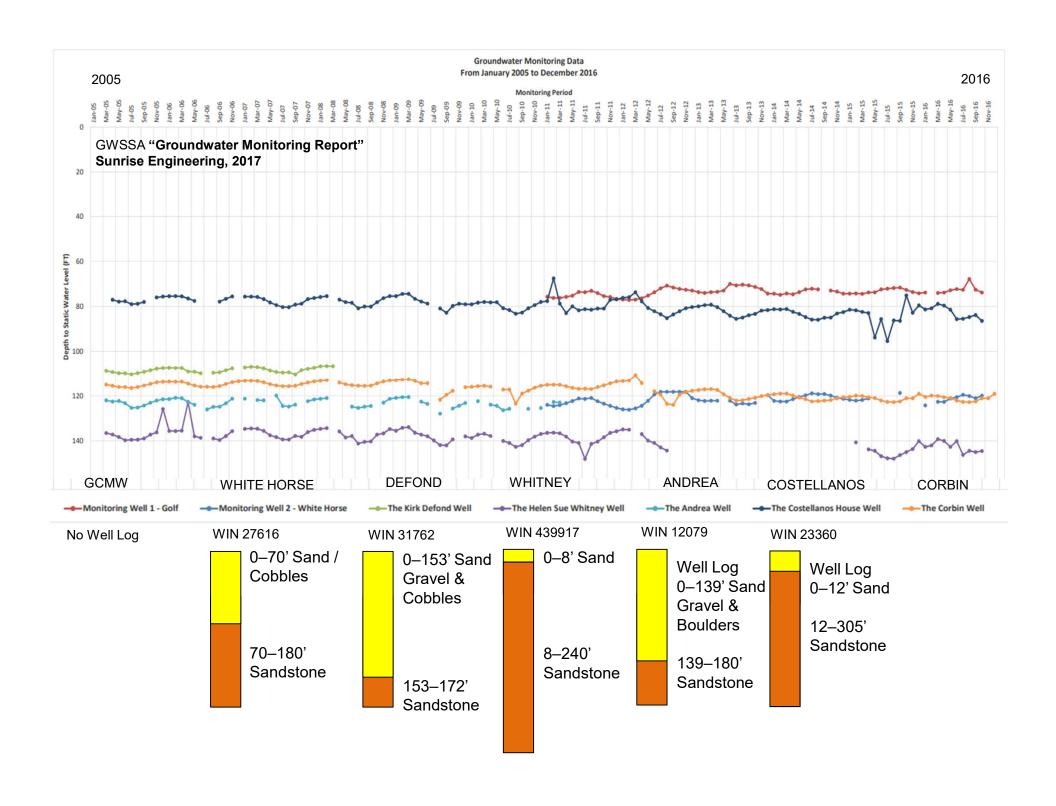


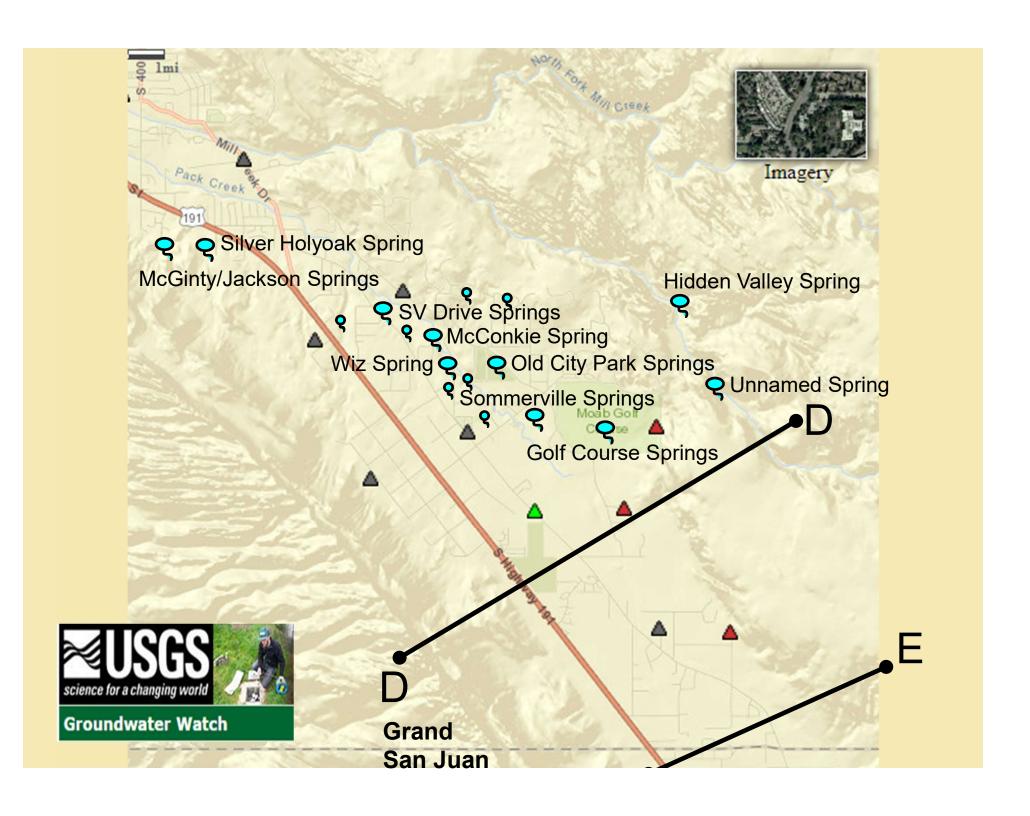
USGS "Evaluation of Groundwater Resources in the Spanish Valley Watershed, Grand and San Juan Counties, Utah" Scientific Investigations Report 2019-5062, pg. 54





GWSSA "Groundwater Monitoring Report" Sunrise Engineering, 2017





### Natural Spring Flows

- No Monitoring on any springs except for the following:
  - Moab Sommerville Springs
  - Moab Golf Course Springs



Thank You... Any Questions?



**Utah Division of Water Rights**