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Cc: [REDACTED]
Subject: 5-Year GSP Workshop -- input re: potential earthquake activity ...
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Hello,

Thanks for accepting my input.

Although I won't be able to attend the workshops, I do wonder whether the planning includes or can include overall earthquake resilience of the water system by creating a set of operations or procedures to be implemented post-earthquake in the area, should it ever occur.

I guess the concerns can be categorized as:

Infrastructure Vulnerability, since Earthquakes can significantly impact water infrastructure, such as:

- Damage to wells, pipelines, and treatment facilities
- Disruption of power supply needed for pumping and treatment
- Potential contamination of groundwater sources due to damaged infrastructure

Water Supply Resilience and how earthquake activity might affect:

- Groundwater availability and quality post-earthquake
- The ability to extract and distribute water in emergency situations
- Potential changes in aquifer properties or groundwater flow patterns

Subsidence and Liquefaction, looking at Earthquake-induced ground movements that can exacerbate issues related to:

- Land subsidence, which may already be a concern due to groundwater extraction

- Soil liquefaction, particularly in areas with high groundwater tables

Interconnected Surface Water as seismic activity could potentially alter:

- The relationship between groundwater and surface water bodies
- Streamflow patterns and groundwater recharge rates

Long-term Sustainability that incorporates earthquake considerations to ensure:

- The resilience of water supply systems in the face of natural disasters
- The ability to maintain sustainable groundwater management practices even after seismic events

Monitoring and Data Collection that include provisions for:

- Monitoring wells and other data collection systems that can withstand seismic activity
- Rapid assessment of groundwater conditions following an earthquake

Hope this input helps.

Thanks for your efforts,
Chris

