

Subcommittee Charter

- “Charter” for the SGMA Subcommittee has effectively ended.
- Charter (July 8, 2015):
 - Outreach to various stakeholders
 - Strategize on potential boundary issues
 - Discuss potential coordination issues
 - Make recommendations for potential changes to the governing JPA
 - Other elements relative to the formation of a GSA

SGMA Subcommittee

- Through the process of the SGMA Subcommittee several lengthy discussions were conducted to address governance issues:
 - These issues were addressed individually in the SGMA Subcommittee meeting
 - Given these discussions, the Board asked the subcommittee if there was a need to form a standalone Governance Subcommittee to address these issues

Key Factors to Consider

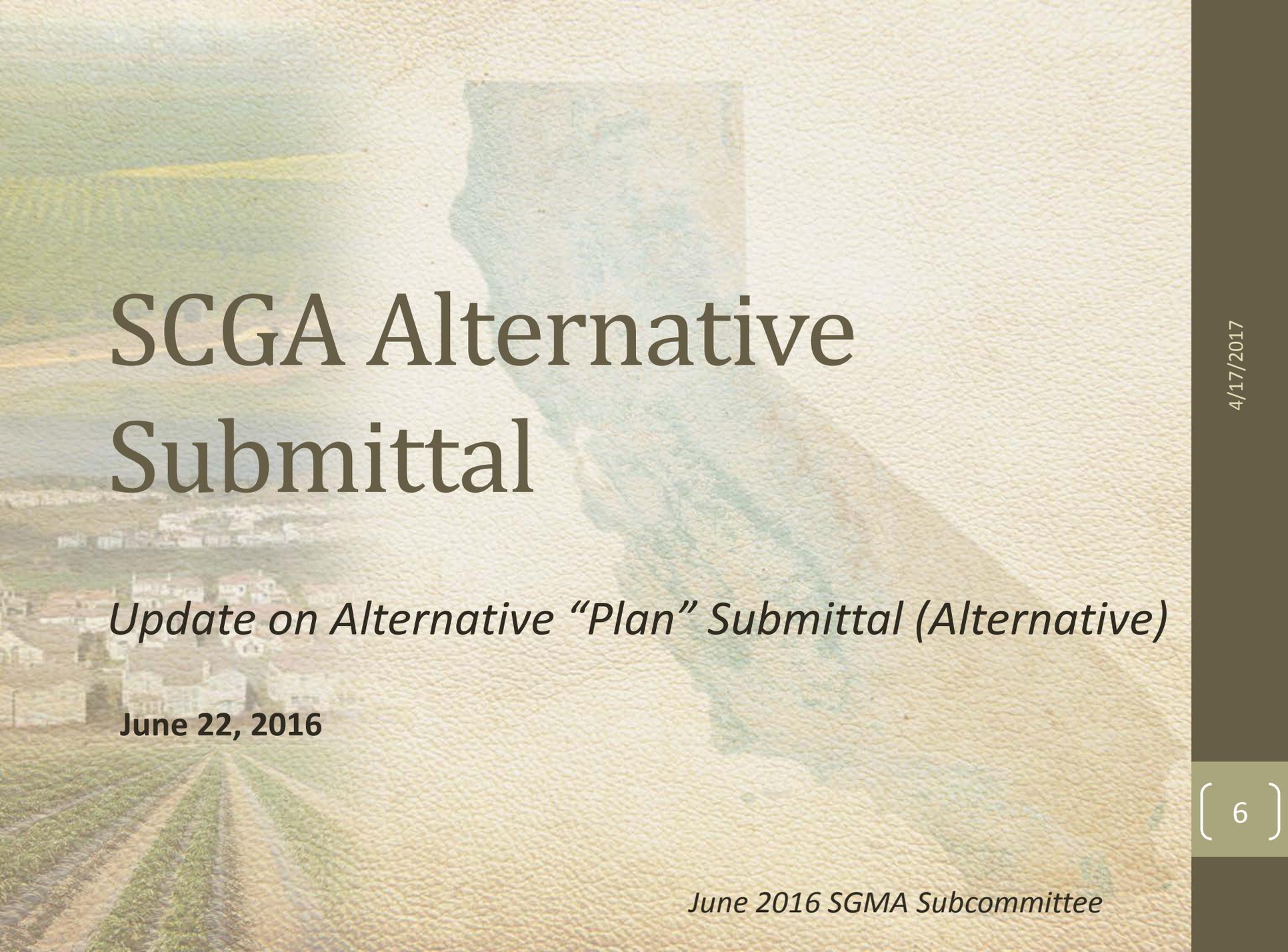
- Counsel has determined that no changes to SCGA's current governance is needed now to comply with SGMA
- Significant staffing resources are required to complete the Alternative Plan submittal
- Revenue source change for SCGA must be resolved prior to FY 2017/2018
 - Board to reconvene the Budget Subcommittee (approved at June 8, 2016 Board meeting) to address this issue – requires significant staff resources
- Significant education required to facilitate Board participation in a meaningful discussion on governance and its potential ramifications

Staff Activities

- Staff is currently tasked with:
 - Completion of the Alternative Plan submittal by January 1, 2017
 - Submitting the FY 2017/2018 Budget Subcommittee
 - Monthly Board meetings
 - On-going SCGA programs

Recommendation

- Revise the “Charter” for the SGMA Subcommittee to address issues related to:
 - Alternative Plan submittal
 - Includes working with Delta interests
 - Identification of potential changes to the governing JPA
 - Overlapping GSAs
 - Strategy to resolve overlapping GSA issue
 - Coordination agreements
 - Recommended for inter-basin coordination
- Reconvene Budget Subcommittee as directed by the Board



SCGA Alternative Submittal

Update on Alternative “Plan” Submittal (Alternative)

June 22, 2016

June 2016 SGMA Subcommittee

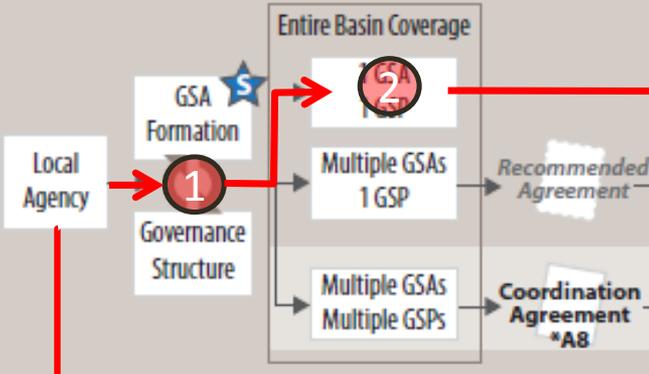
Overview

- Reminder, Why an Alternative Plan
- GSA Formation vs. Alternative Plan Development
- Approach to Including Outside GMP Areas
- Schedule

Pathway(s) to SGMA Compliance

Phase 1

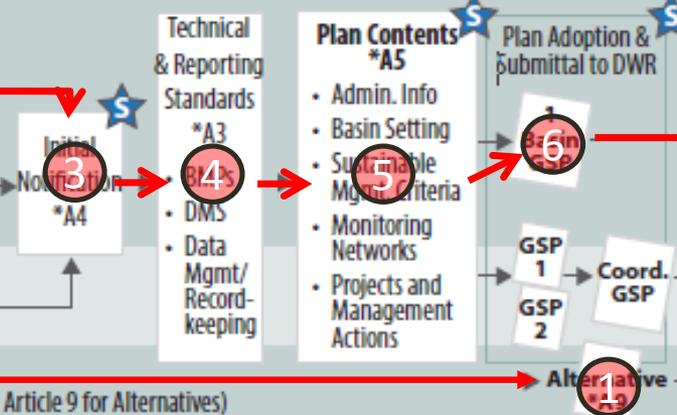
GSA Formation and Coordination



Alternative: Local agencies may choose to submit an Alternative (see Article 9 for Alternatives)

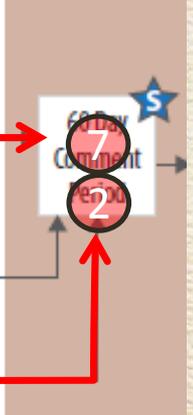
Phase 2

GSP Preparation and Submission



Phase 3

GSP Review



Phase 1 References (Draft GSP Regulations)

Article 8. Coordination Agreements

- Interbasin Agreements (§357.2)
- Intrabasin Agreements (§357.4)

See also Basin Boundary Regulations

http://water.ca.gov/groundwater/sgm/pdfs/SGMA_Basin_Boundary_Regulations.pdf

See also Groundwater Sustainability Agency Formation

<http://water.ca.gov/groundwater/sgm/gsa.cfm>

Phase 2 References (Draft GSP Regulations)

Article 3. Technical and Reporting Standards

- Best Management Practices (§352.4)
- Data and Reporting Standards (§352.6)
- Data Management and Recordkeeping (§352.8)

Article 4. Procedures

- Information Provided by the Department (§353.2)
- Reporting Provisions (§353.4)
- Initial Notification (§353.6)
- Public Comment (§353.8)
- Withdrawal or Amendment of Plan (§353.10)

Article 5. Plan Contents

- Subarticle 1. Administrative Information
- Subarticle 2. Basin Setting
- Subarticle 3. Sustainable Management Criteria
- Subarticle 4. Monitoring Networks
- Subarticle 5. Projects and Management Actions

Phase 3 References (Draft GSP Regulations)

Article 6. Evaluation

- Departmental Review
- Criteria for Plan Approval
- Periodic Review
- Consultation
- Resolution of Disputes

Article 9. Alternatives

- Adjudicated Alternatives
- Alternatives to the Plan
- Departmental Review



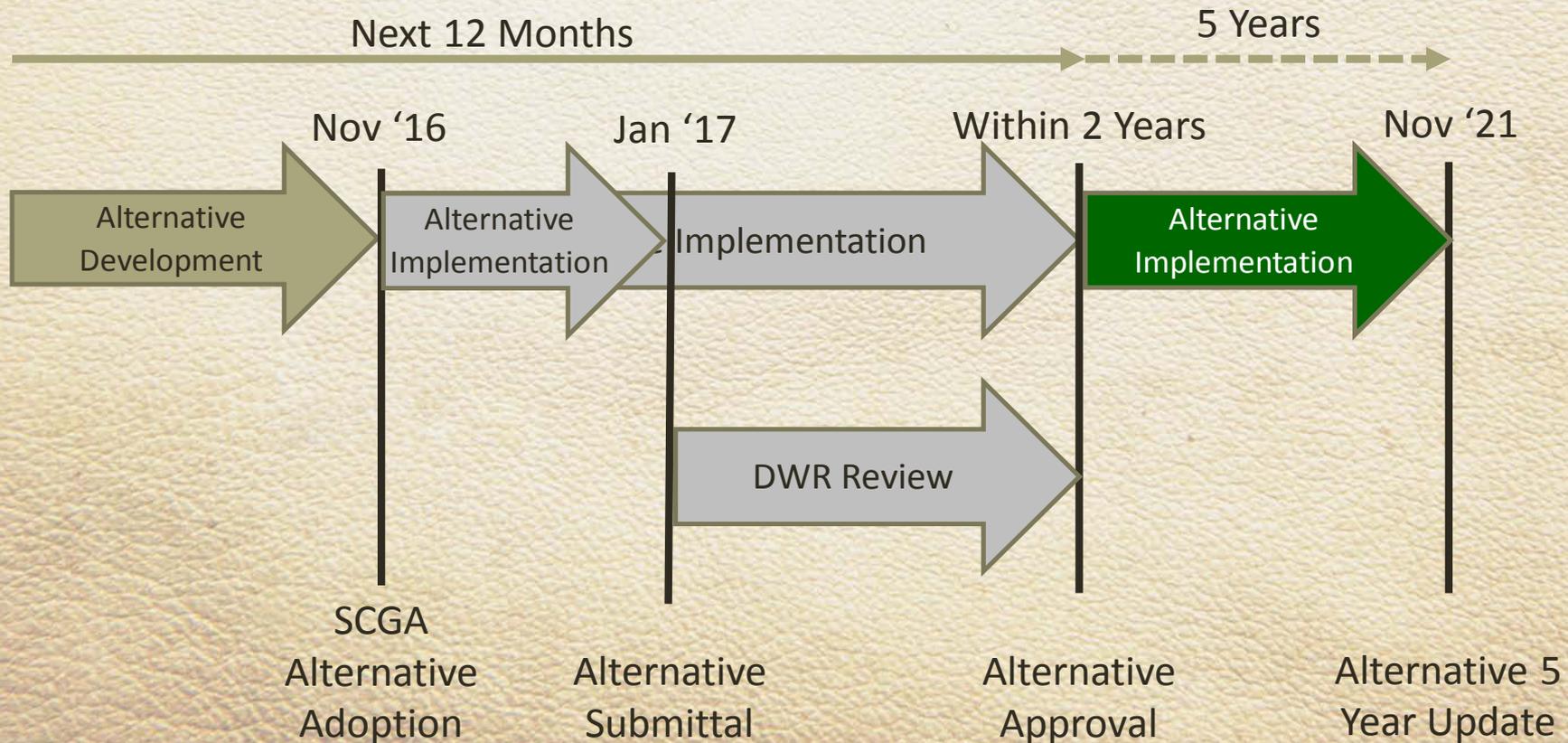
Stakeholder Process

SCGA's Interests

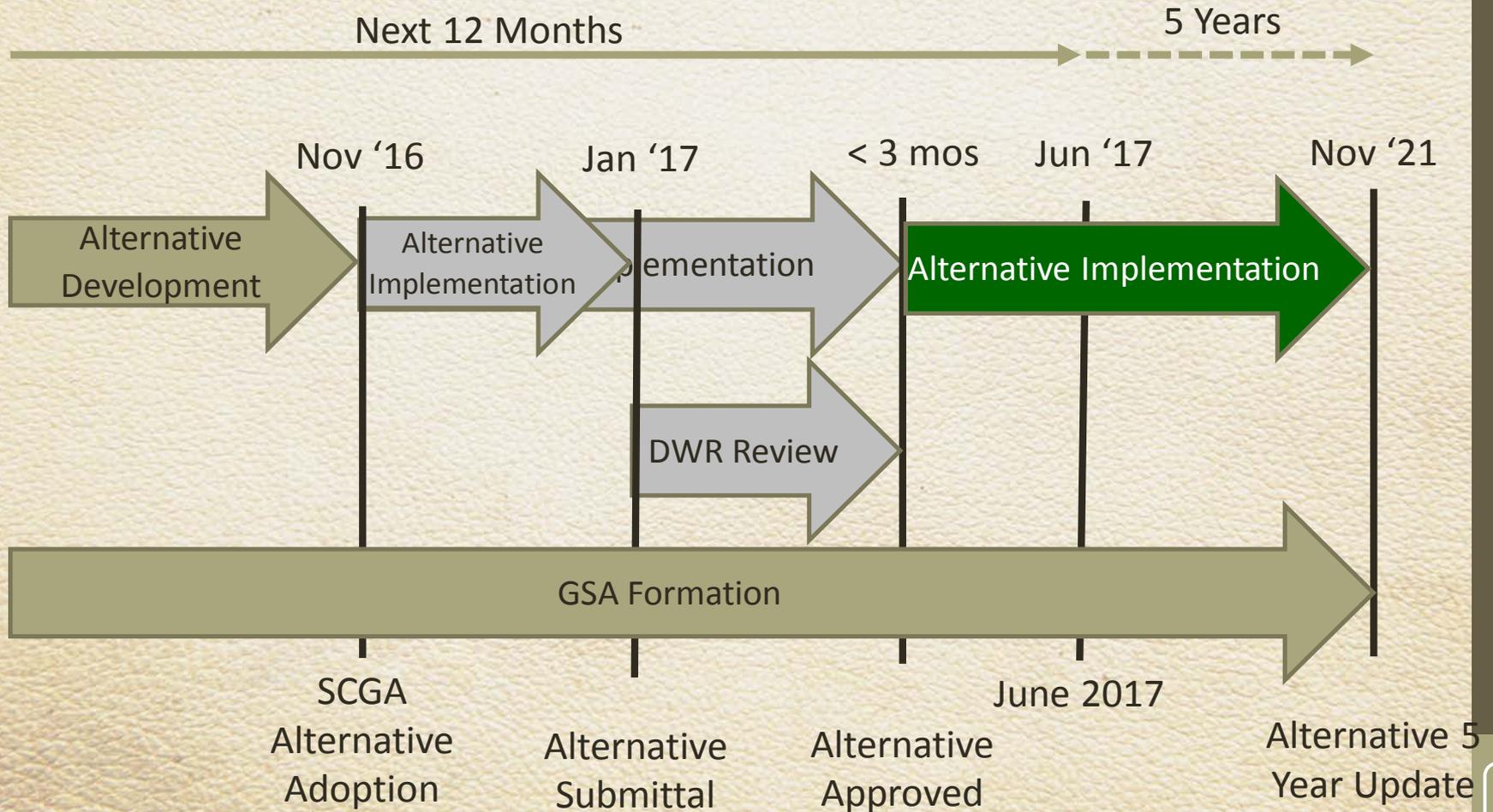
- SCGA has significant interest and investment in using its GMP and management authority for the sustainable management of groundwater within its service area

Alternative Submittal and GSA Formations

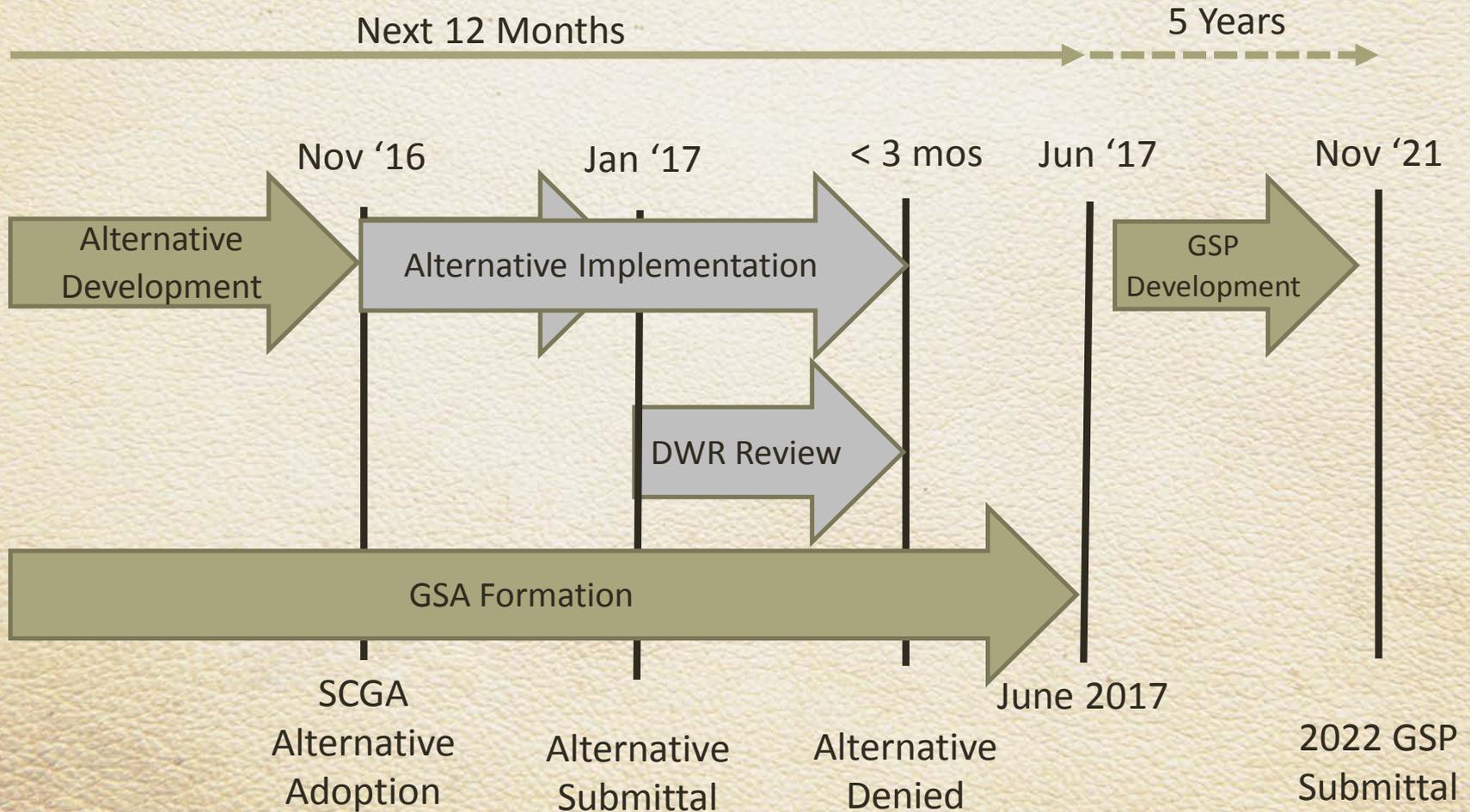
- Alternative Submittal and (GSA) formation processes happen in parallel
- Submittal, Approval, and Denial of Alternative could affect GSA Formation Processes



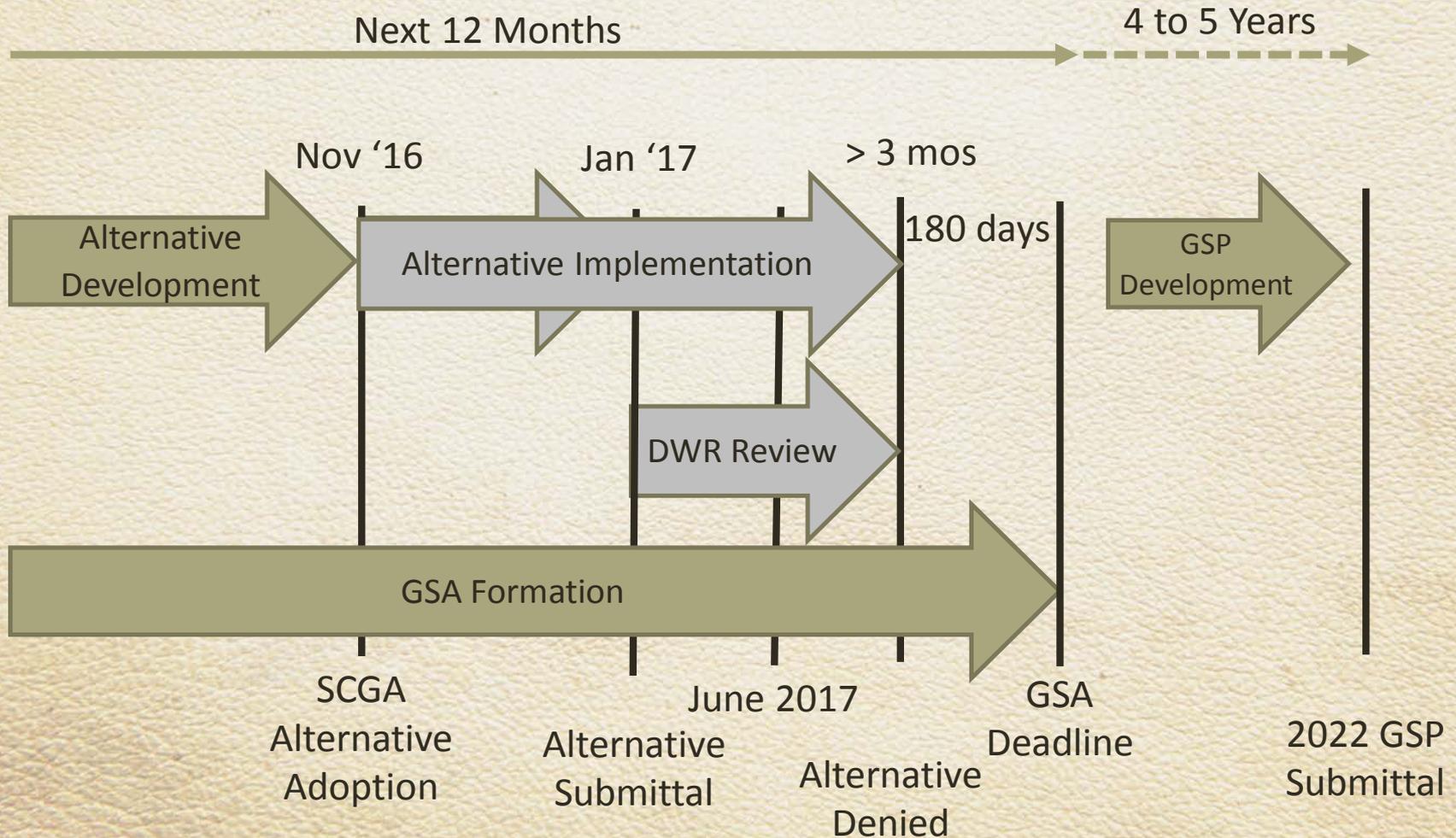
Scenario 1



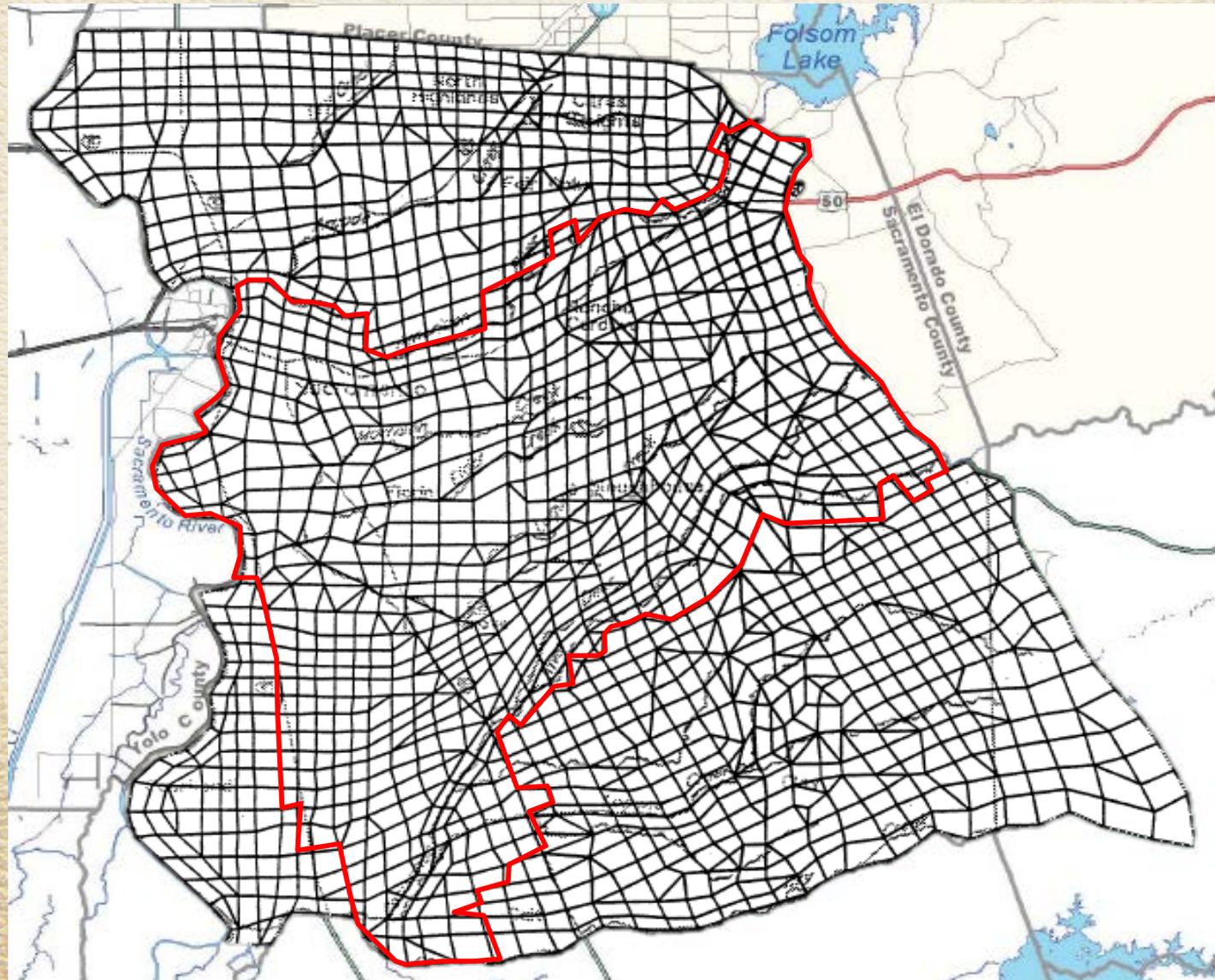
Scenario 2



Scenario 3



Boundaries are Model-Based



“Entire Basin” Requirement



Addition of Areas to Supplement GMP

- SCGA's Alternative may include areas outside of its jurisdictional area if :
 - 10+ years of sustainability
 - Support from these areas is not required for sustainable management of the groundwater subbasin

Eastern Fringe Areas

- JPA intent was to include up to the eastern basin boundary (or El Dorado County)
- Very little useable groundwater exists in those portions of the regional aquifer located inside fringe areas
- Areas are not affected by Alternative Plan's implementation

Delta Area

- JPA recognizes I-5 as western boundary
- DWR definition of South American Subbasin includes portions of legal Delta (i.e., areas not affected by SCGA plan implementation)
- Area is sustainable with groundwater levels influenced by Delta hydrology and tidal effects
- Area is not affected by Alternative Plan's implementation
- Sea Level Rise?

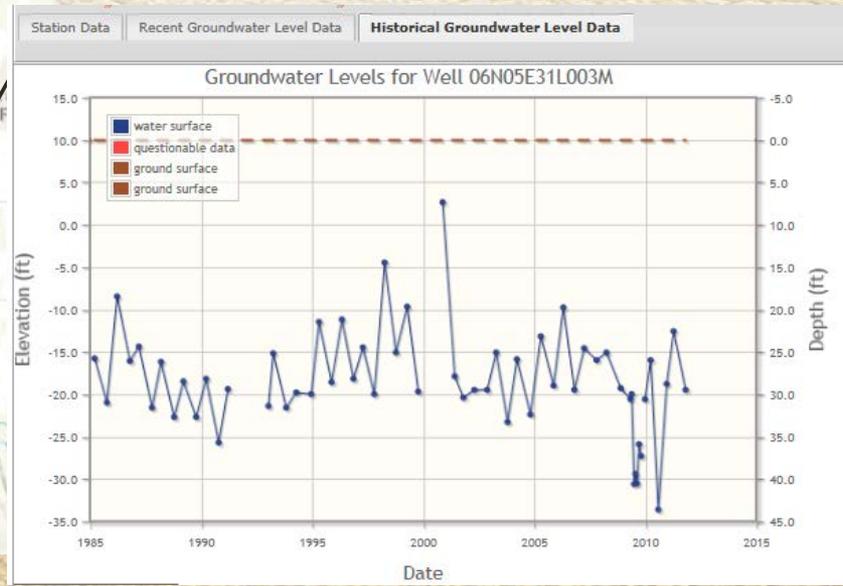
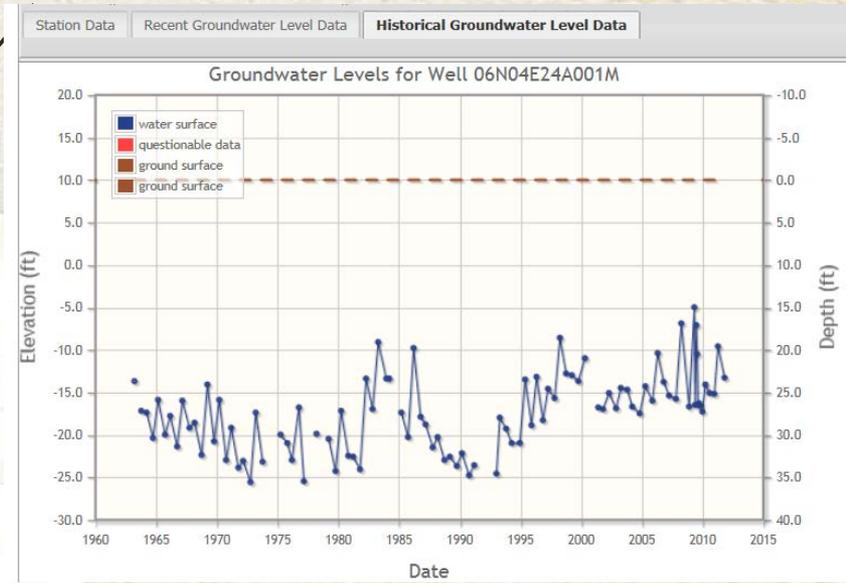
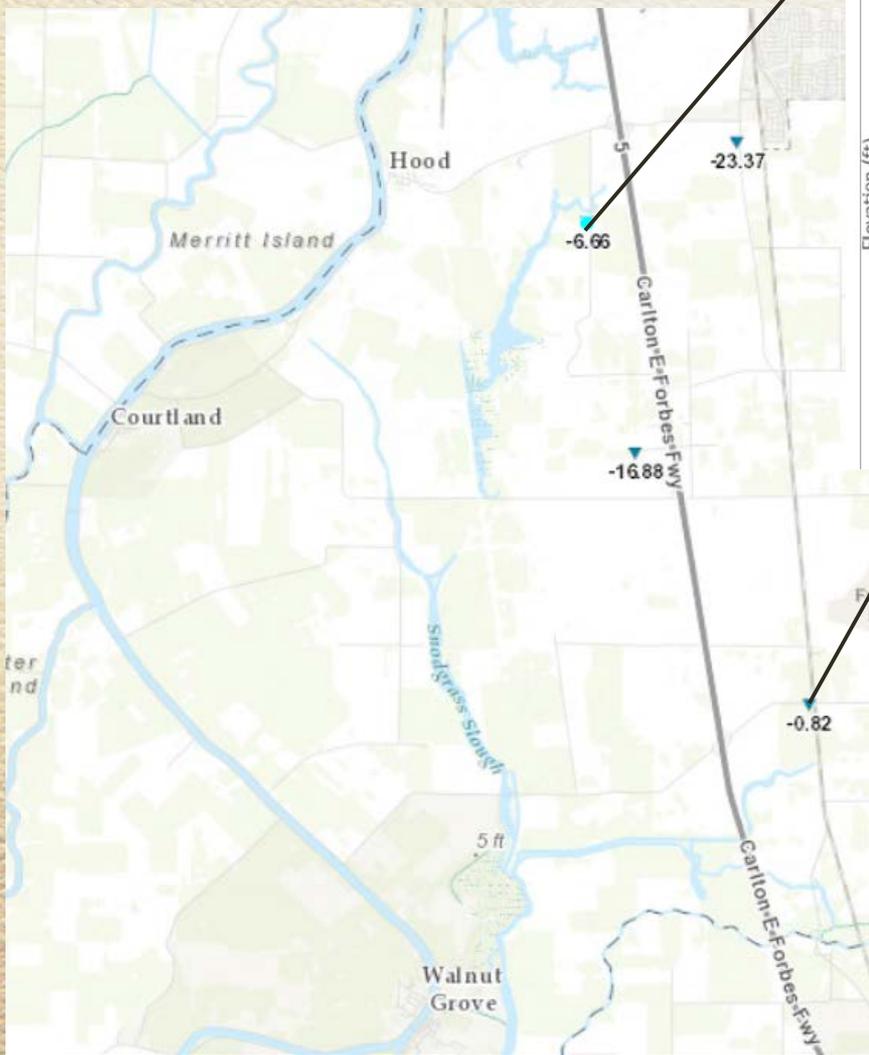
10 Years of Sustainability

- Third Option for Alternative Compliance:
 - *An analysis of basin conditions that demonstrates that the basin has operated within its sustainable yield over a period of at least 10 years.*
 - *shall include a report prepared by a registered professional engineer or geologist who is licensed by the state and submitted under that engineer's or geologist's seal.*

Sustainability Report

- Goal:
 - Demonstrate that the basin has operated within its sustainable yield over a period of at least 10 years
- Approach:
 - Utilize groundwater level hydrographs where relatively stable conditions exist, excluding normal seasonal variations

Delta Area Hydrographs



Sustainability Report

- Approach Continued:
 - Compare groundwater levels to rainfall and streamflow data to explain decreasing water levels due to below-normal hydrologic years
 - Utilize available contour maps of groundwater levels to identify directions and gradients of flow and the presence/absence of groundwater depressions over time
 - Verify water budget and interpolate areas of uncertainty using groundwater models

Sustainability Report

- Secondary Issues:
 - Water quality – Review available data to confirm absence of degradation
 - Subsidence – Differentiate potential subsidence due to dewatering of aquitards (subsurface silt and clay layers) versus agricultural factors (near-surface oxidation of organic-rich soils, compaction)

Subsidence

- Rodney – do have any figures of the location and what you described from reports of subsidence due to oxidation.
- CGPS Cumulative Subsidence: 1 - 2.5 inches due to “oxidation of organic deposits has occurred”
- Estimated potential subsidence is medium to high

Subsidence

Groundwater Information Center Interactive Map Application

Boundaries Subsidence Water Levels

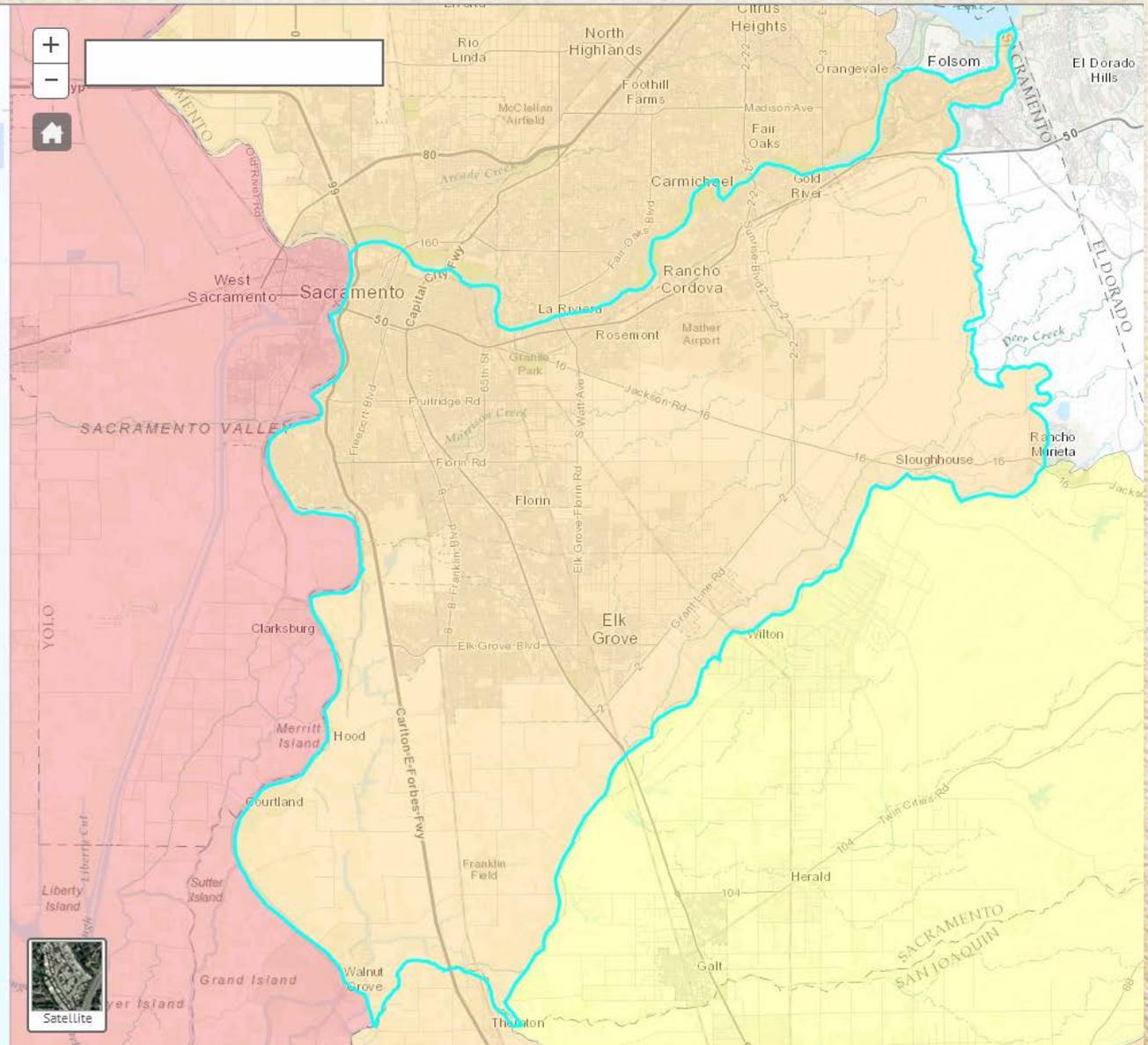
Clear all

Subsidence

- Active Extensometers
- CGPS Cumulative Subsidence1
- CGPS Trends
- Historical Change Wells
- Reported Subsidence Location
- Large Areas of Subsidence
- Estimated Potential Subsidence 20140807



- Insufficient Data
- Low
- Low to Medium
- Medium to High
- High



Subsidence

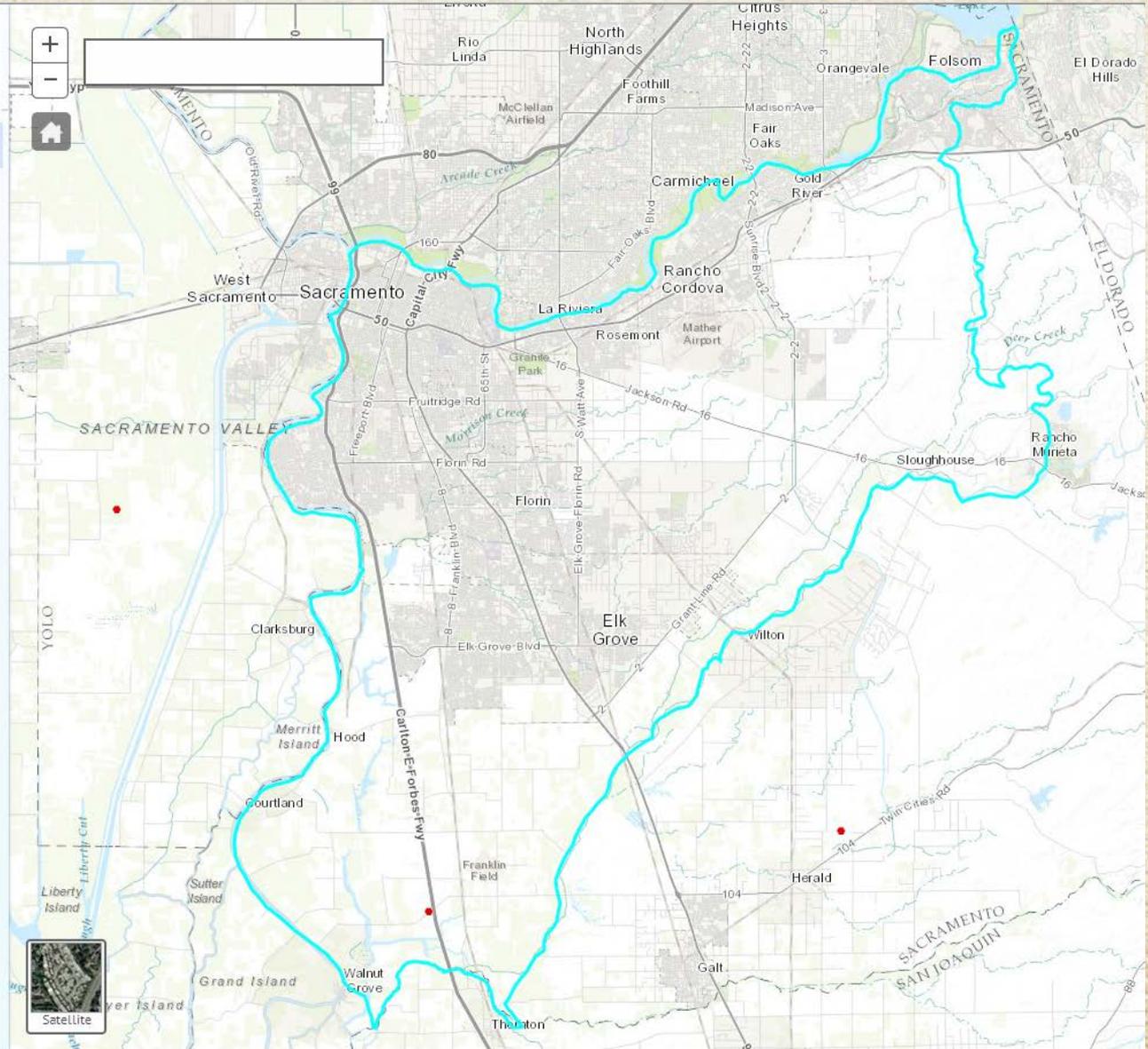
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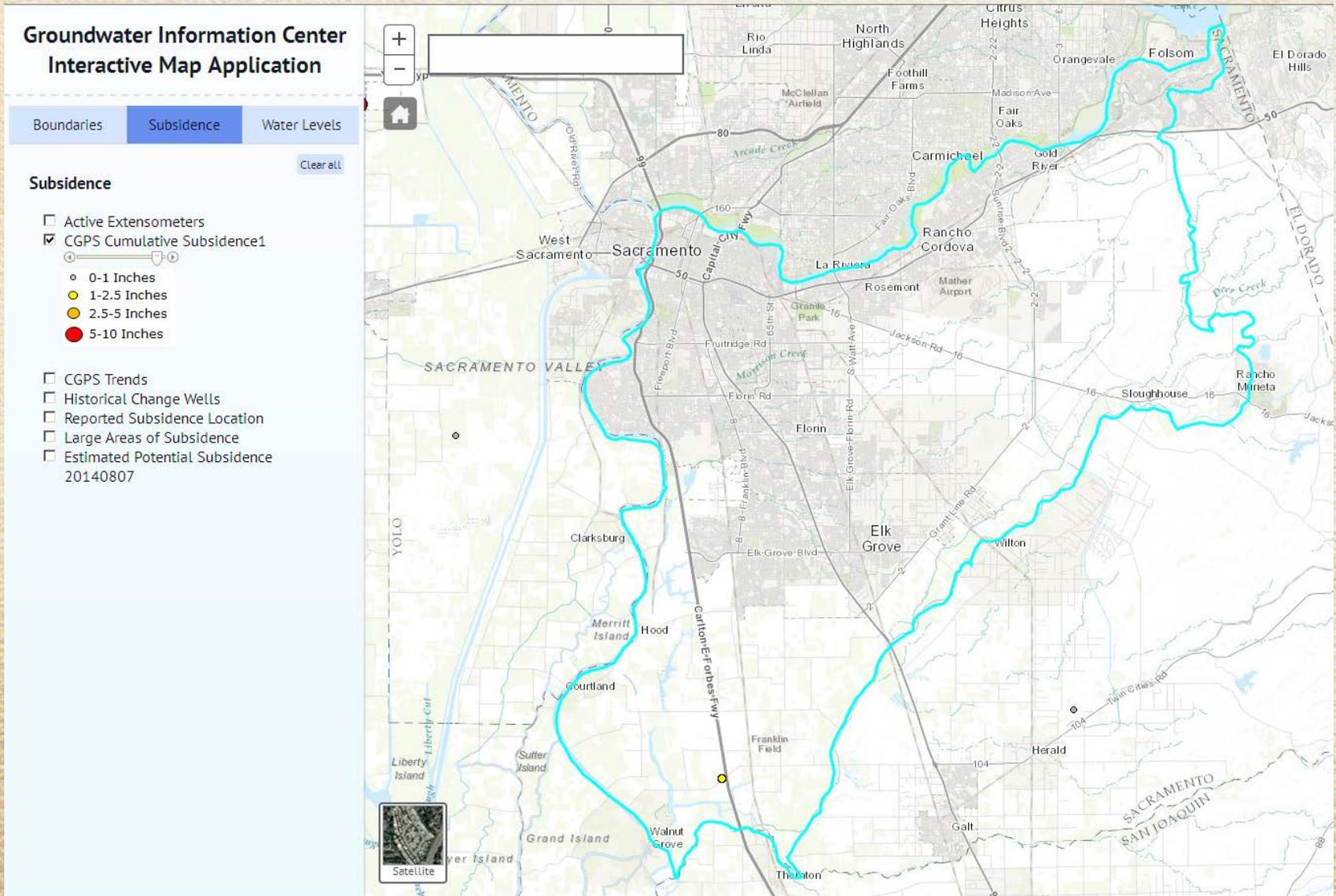
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Subsidence

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- 0 10
- 0-1 Inches
 - 1-2.5 Inches
 - 2.5-5 Inches
 - 5-10 Inches
-
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Subsidence



Subsidence

Groundwater Information Center Interactive Map Application

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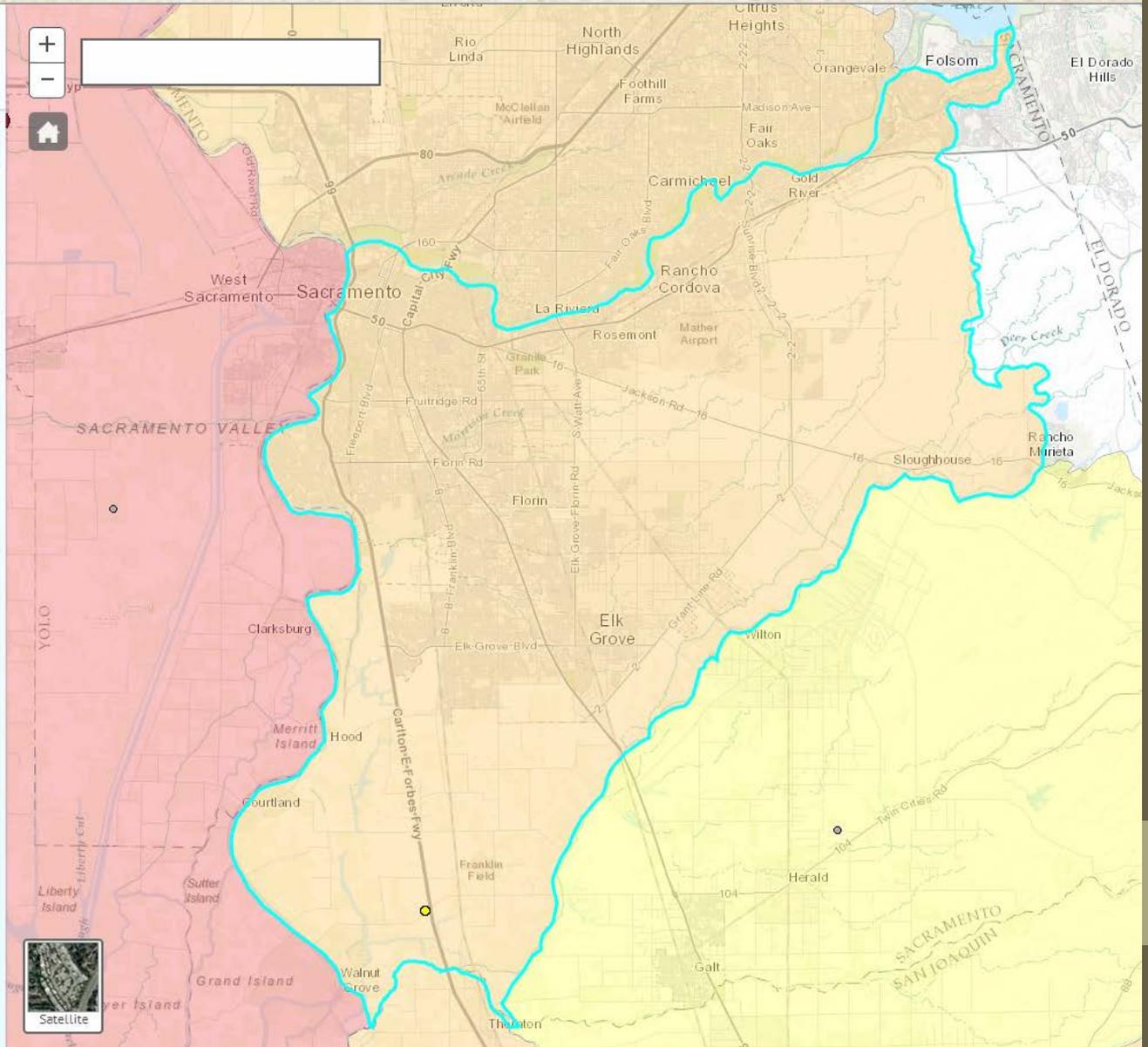
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Subsidence

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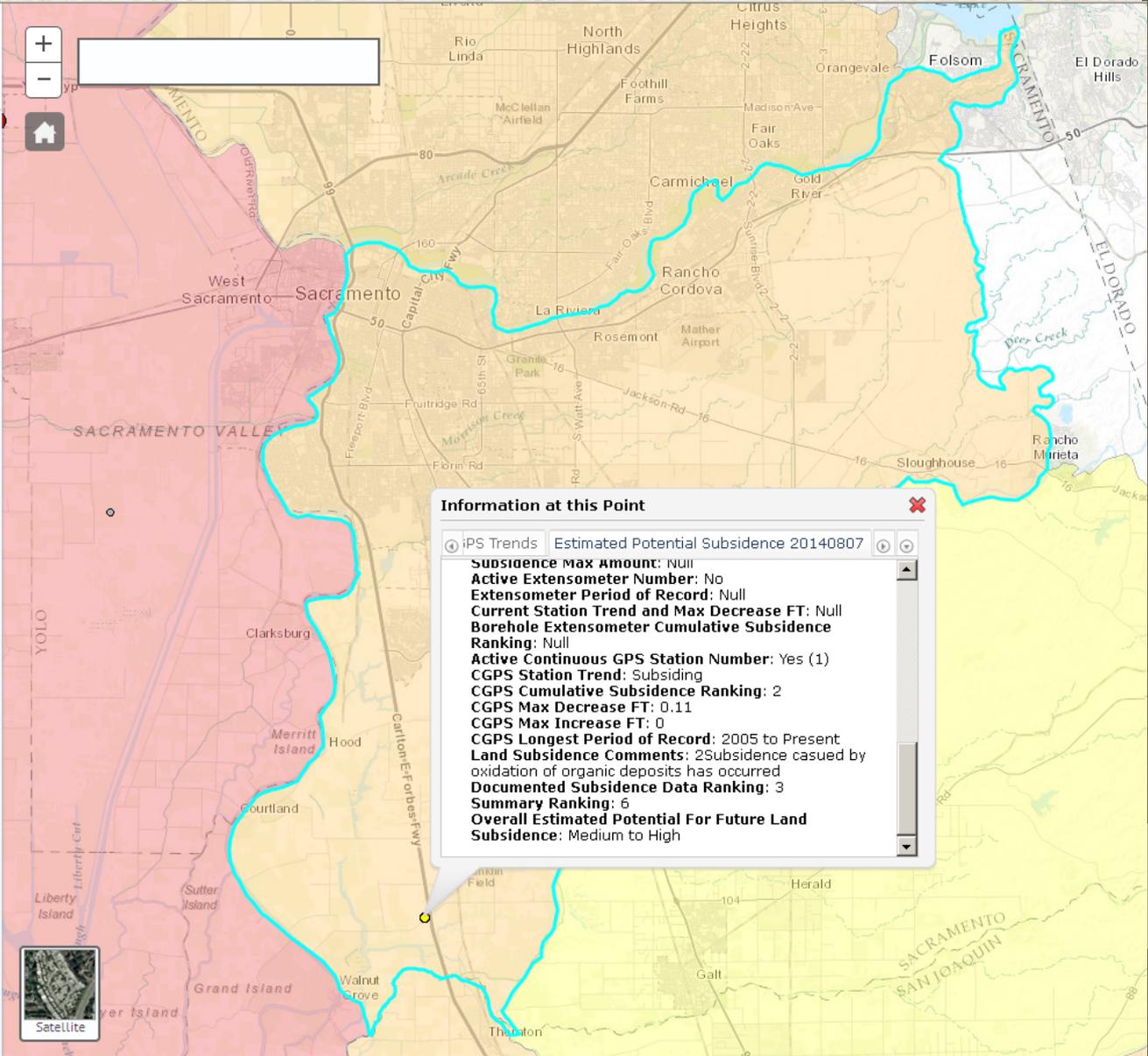
Insufficient Data

Low

Low to Medium

Medium to High

High



Delta Outreach

- Needed SCGA Outreach Activities:
 - Provide notification letter to local agencies
 - Hold public meeting with Ag and Urban interests in the Delta
- Discussion of Assurances, including:
 - Delta can continue to plan for and implement SGMA
 - Future GSA and basin boundary modifications can take place
 - No costs associated with the east of I-5 portion of subbasin will be assessed unless conditions change in the Delta.

Actions

- DWR Meeting to Discuss Approach
- Delta Coordination and Outreach
- Develop Notice of Preparation for July Board Hearing
- Alternative Plan Preparation

Questions?