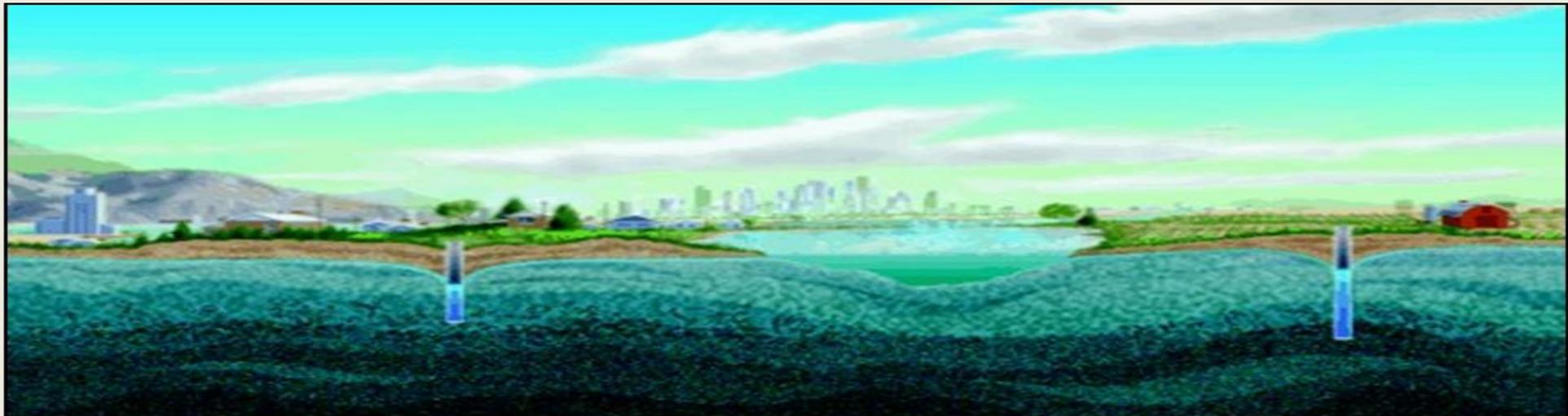




# 2016 Draft Approved Basin Boundary Modifications

*Public Meeting*

July 2016





# Presentation Overview

- Introductions and SGMA Context
- DWR Role and Authority
- Brief Summary of 2016 Basin Modification Submission Period
- Overview of Statewide Requests and Results
- Approved Regional Boundary Modifications
- Clarifying Questions Period
- Official Comment Period

# Overall Regulatory Approach

***“A central feature of these bills is the recognition that groundwater management in California is best accomplished locally.”***

Governor Jerry Brown, September 2014



**Public**  
*Engagement*

**Local Agencies**  
*Plan Development*  
*Plan Implementation*

**Department of Water Resources**  
*Plan Evaluation*  
*Statewide Minimum Standards*  
*Technical & Financial Assistance*

**Sustainable  
Groundwater  
Management**

# DWR's SGMA Responsibilities and Due Dates



- ✓ **Initial Basin Prioritization: §10723.4**
  - Completed by January 31, 2015
- ✓ **Regulations for Modifying Groundwater Basin Boundaries: §10722.2**
  - Completed by January 1, 2016
- ✓ **Identification of Critically Overdrafted Basins: §12924**
  - Completed January 2016
- ✓ **Groundwater Sustainability Plan and Alternatives Regulations: §10733.2**
  - Due June 1, 2016
- **Water Available for Replenishment: §10729(c)**
  - Due January 1, 2017
- **Best Management Practices: §10729(d)**
  - Due January 1, 2017
- **Bulletin 118: §12924**
  - Interim Update due January 2017; Comprehensive Update due 2020
- **Groundwater Sustainability Agency Formation: §10723**
  - Due by June 30, 2017



# DWR Role and Authority

- Existing Authority to define groundwater basins in the state (§12924)
  - Established Bulletin 118 documenting groundwater basins and resources of the state
  - Last Update Bulletin 118, 2003
  - Previous Releases – 1975, 1980
  - Numerous Region Specific Bulletin-118 Reports
- Review Local Agency Basin Boundary Modification Request
  - Local Agency Modification Requests
  - Basin Boundary Regulations - Effective November 2015

# 2016 Basin Boundary Modification Request Submission Period

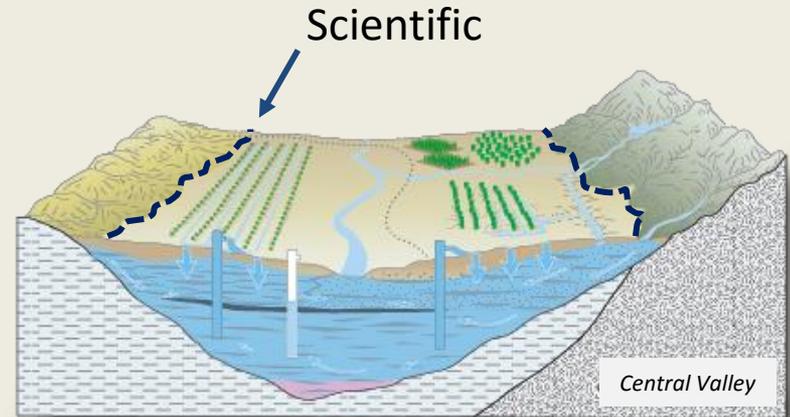


- **Administrative Edits** - Focused on line work clean up and gross geologic errors
  - National Hydrologic Dataset for water ways
  - Existing County jurisdictions
  - California Geological Survey 1:250K Statewide maps (BBAT)
- **Basin Boundary Modification Requests**
  - Performed under the New Basin Boundary Regulations
  - Basin Boundary Modification Request System (BBMRS) contains all technical information and review comments

# Key Definitions

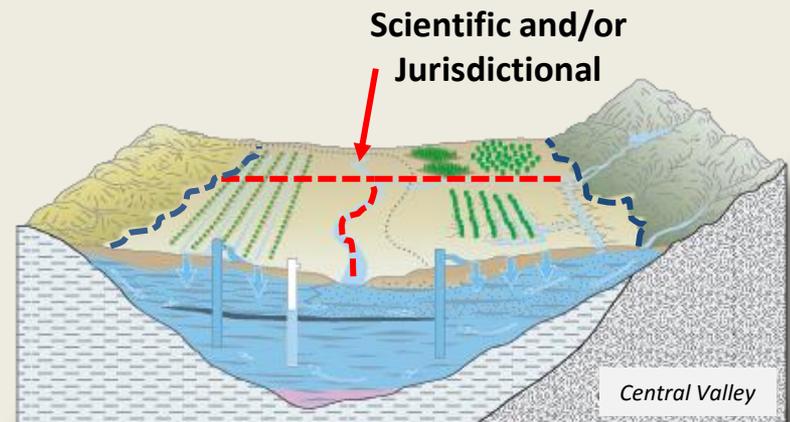
## ➤ SGMA Definitions

➤ **Groundwater Basin** – An alluvial aquifer or a stacked series of alluvial aquifers with reasonably well-defined boundaries in a lateral direction and having a definable bottom



Modified from Faunt, 2009

➤ **Groundwater Subbasin** – A subbasin is created by dividing a groundwater basin into smaller units using geologic and hydrologic barriers or institutional boundaries



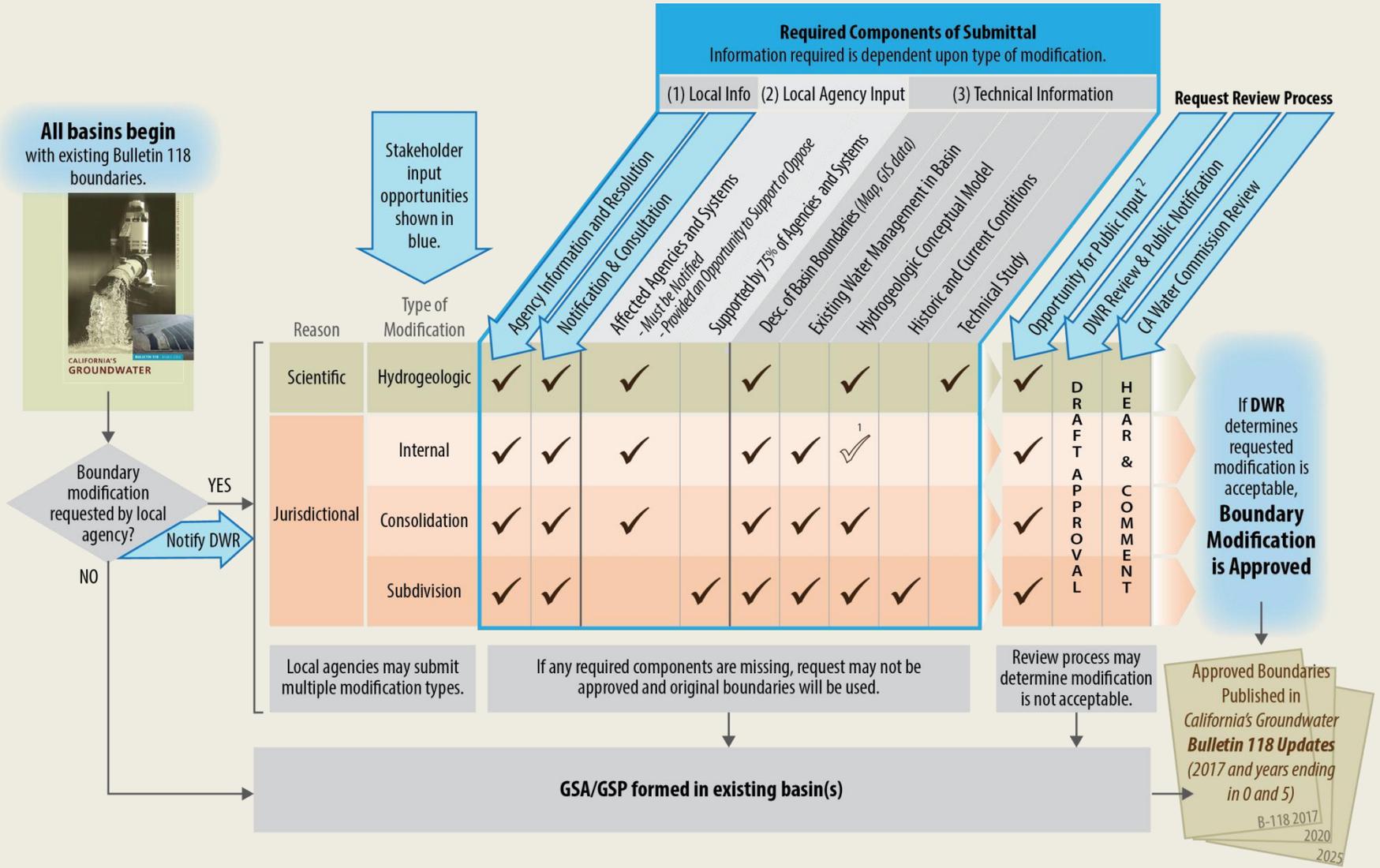
Modified from Faunt, 2009



# SGMA General Criteria

1. ...likelihood that the **proposed basin can be sustainably managed,**
2. ...whether the proposed basin **would limit the sustainable management of adjacent basins,**  
and
3. ...whether there is a **history of sustainable management of groundwater levels** in the proposed basin.

# Regulation Framework



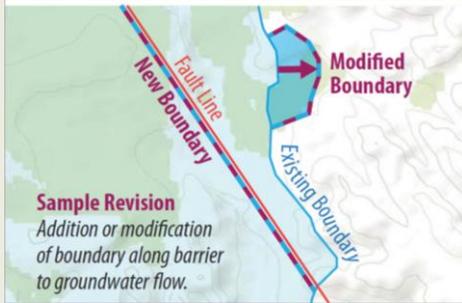
# Types of Modification

## Article 3

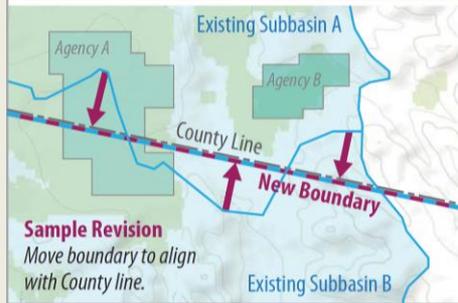
### Scientific

### Jurisdictional

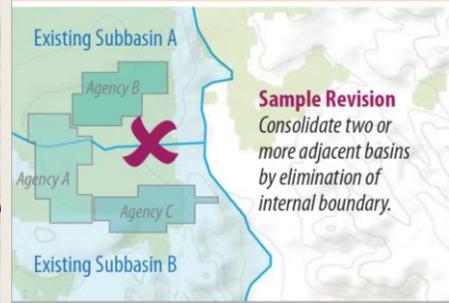
#### Scientific



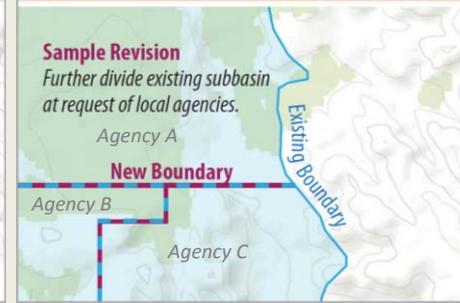
#### Internal (Jurisdictional)



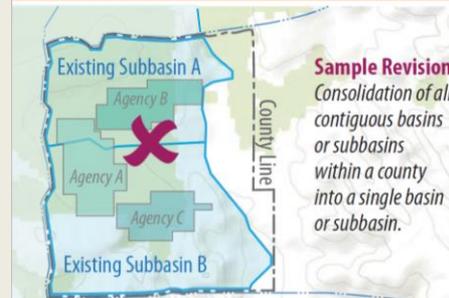
#### Consolidation (Jurisdictional)



#### Subdivision (Jurisdictional)



#### County Consolidation (Jurisdictional)



# DWR Tools for Basin Boundary Modification

## 1. DWR Basin Boundary Modification Website (Informational)

[http://www.water.ca.gov/groundwater/sgm/basin\\_boundaries.cfm](http://www.water.ca.gov/groundwater/sgm/basin_boundaries.cfm)

## 2. DWR Basin Boundary Assessment Tool (Technical)

<https://gis.water.ca.gov/app/bbat/>

**SGM Sustainable Groundwater Management**

### Basin Boundary Modifications

The Sustainable Groundwater Management Act (SGMA) established a process for **local agencies** to request that the Department of Water Resources (DWR) revise the boundaries of existing groundwater basins or subbasins, including the establishment of a new subbasin. The **Basin Boundary Emergency Regulation** was developed through an extensive **stakeholder outreach process** and was adopted on October 21, 2015. The provisions of the emergency regulation go into effect on November 16, 2015.

#### Planning to request a modification to basin boundaries?

If you are an eligible local agency and are thinking of requesting modification to the boundaries of your basin, follow these steps:

1. Review the Basin Boundary Modification **Regulations**.
2. Submit **Initial Notification** within 15 days of exploring a modification – notification is preliminary and is intended to signal that a modification request **may** occur. It serves to notify other local agencies, public, and the department. Use **Basin Boundary Assessment Tool** to explore geology and other boundaries.
3. Determine appropriate required documents and actions to comply with regulations for modification request submission. See the **Basin Boundary Modification Resources** for examples and supporting information.
4. **Submit Basin Boundary Modification Request** – Submission period is open from January 1, 2016 through March 31, 2016.

#### How to Submit Basin Boundary Modification Requests

DWR has developed a **Basin Boundary Modification Request System** for use by local agencies to submit initial notification and basin boundary modification requests. The system also provides public access to view basin boundary modification information.

**Important Note** - One of the first steps in the basin boundary modification process is initial notification of a potential basin boundary modification. This process is described in Section 343.9 of the regulation and on the **Basin Boundary Modification Request System**.

**When to Submit Basin Boundary Modification Requests**

### Groundwater Basin Boundary Assessment Tool

DWR Boundary Assessment | **Boundary References** | Geology References

**Boundary References**

- County Boundaries
- Region Office Service Areas
- Hydrologic Regions
- Prop 1 Funding Areas
- Regional Water Quality Control Board Boundaries
- Tribal Lands
- Military Installations, Ranges, and Training Areas
- CDFW Lands
- Regional Flood Planning Boundaries
- Reclamation Districts
- CASGEM Designated Monitoring Entities as of 10-19-15
- CASGEM Groundwater Basin Prioritization
- Groundwater Management Plans
- IRWM Regions
- Disadvantaged Community Block Groups
- Disadvantaged Community Tracts
- Disadvantaged Community Places
- Water Agencies
- Bulletin 118 Groundwater Basins
- Watersheds

**Boundary References**

Click on features in the map or see below for more information:

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Below are brief descriptions to the layers contained in the map:

**County Boundaries** This layer depicts the boundaries of California's Counties as developed by CAL FIRE.

**Region Office Service Areas** This layer depicts the coverage Area of DWR's Region Offices. [More Info.](#)

**Hydrologic Regions** This layer depicts the 10 areas representing the major California watersheds and is used by a variety of DWR programs including the CA Water Plan. [More Info.](#)

**Prop 1 Funding Areas** This layer depicts the 12 funding areas called out in Proposition 1. [More Info.](#)

**Regional Water Quality Control Board Boundaries** This layer depicts the boundaries of the 9 Regional Water Quality Control Boards. [More Info.](#)

**Tribal Lands** This layer depicts Tribal Lands in the State of California. This layer includes: Historical location of Indian Land which was once held in Trust for a Terminated Tribe and/or the location of a landless Federally Recognized Tribe; Indian Land currently held in Trust by the United States Government; Indian Land currently held in Trust by the United States Government and known as a Public Domain Allotment; Indian Land currently held in Trust by the United States Government but resides in the Nevada or Arizona Jurisdiction. [More Info.](#)

**Military Installations, Ranges, and Training Areas** This layer depicts major Military installations, ranges, and training areas in California. [More Info.](#)



# BBMRS

- Initial Notification
  - Inform Local Agencies, Public and DWR
  - Opened in November 2015
- Request Submission Period
  - Jan 1 through March 31
  - Submit required information to support request
  - Allowed for local agency and public input
  - Specific 30-day public Input period following Completeness Review

**CA.GOV** Department of Water Resources  
Basin Boundary Modification Request System

**Welcome** to the Basin Boundary Modification Request System. The Sustainable Groundwater Management Act (SGMA) established a process for local agencies to request that the Department of Water Resources (DWR) revise the boundaries of a groundwater basin or subbasin, including the establishment of a new subbasin. This tool is for use by local agencies to request basin boundary modifications and for the public to access basin boundary modification information.

Registration and login are required to submit a basin boundary modification request, but are not required to view submitted information.

The system accepts voluntary basin boundary modification requests from local agencies, pursuant to DWR's Basin Boundary emergency regulation. Additional information is available about the existing Bulletin 118 groundwater basins and an interactive map is available to help visualize the Bulletin 118 groundwater basins and other relevant political, geologic, and geographic boundaries.

- Prior to performing a modification request, a printable template is available here to inform you of the items needed to complete the request.
- Upon submission, you will receive an email acknowledging receipt of your initial notification or modification request.
- For assistance with the Basin Boundary Modification System, please email the administrator at [Timothy.Godwin@water.ca.gov](mailto:Timothy.Godwin@water.ca.gov).

**Local Agency Submissions Tools**

**Click Here to Submit Initial Notification**  
(Pursuant to Section 343.9)

**Click Here to Submit Basin Boundary Modification Request**  
(Submission Period:  
January 1, 2016 through March 31, 2016)

**Public and Interested Party Tools**

**View List of Submitted Initial Notifications**

**View List of Submitted Modification Requests**

**View Map of Submitted Initial Notifications**

**View Map of Submitted Modification Requests**

If you are interested in being informed when Basin Boundary Modifications related Actions or any other SGM Program actions are made, please subscribe to email listserv here: <http://www.water.ca.gov/groundwater/sgm/subscribe.cfm>

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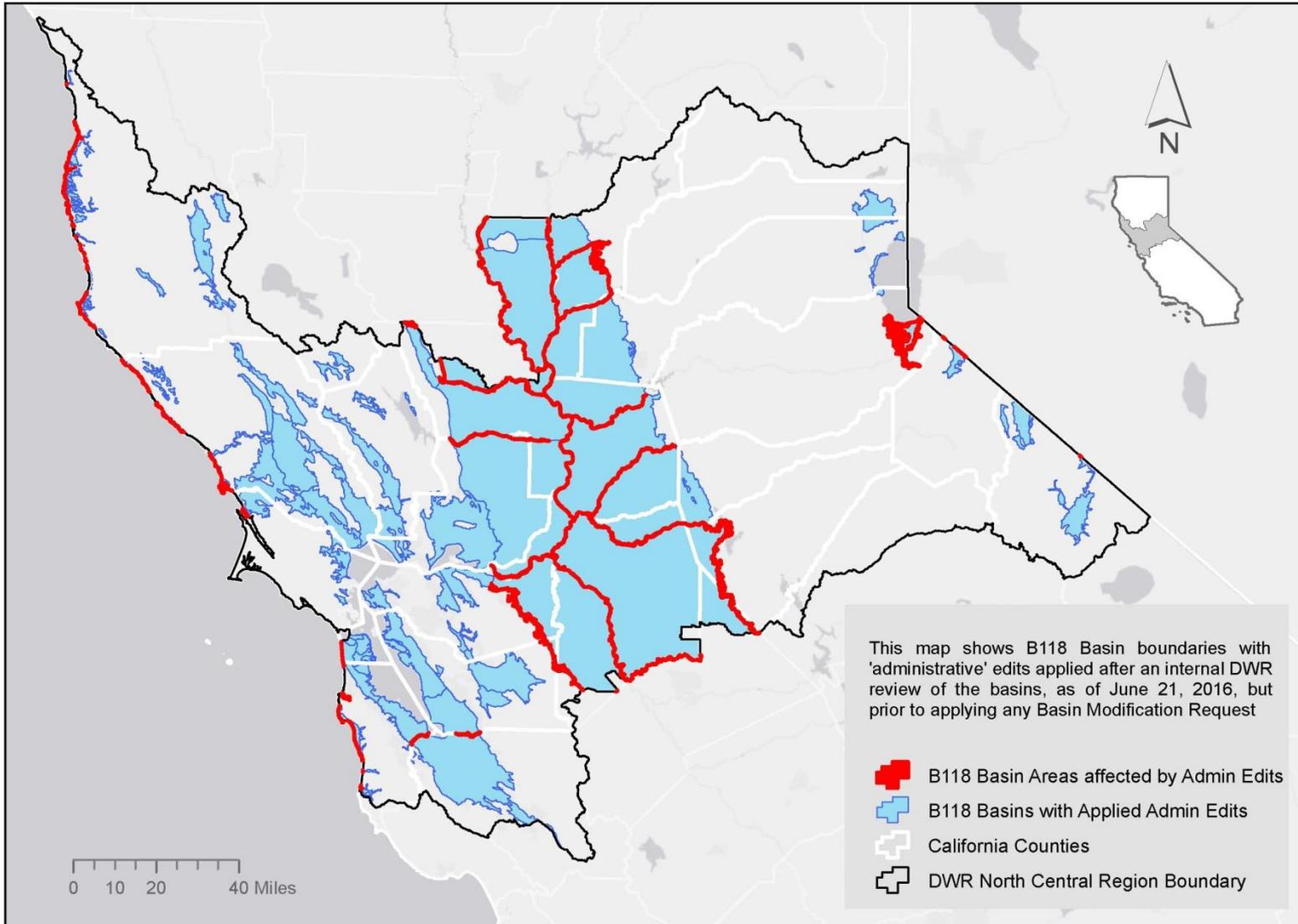
# Request Review

- Submission Period
  - January 1 through March 31, 2016
- DWR – Local Agency interaction to align request to meet objectives and comply with the regulation
- DWR conducts ‘Completeness’ review
  - Evaluates modification type, presented GIS modifications, and general content of supporting information
- 30-day Public Input Period
- DWR Technical Review of supporting information, public input, and responses
- Recommendation Reviews
  - Region-wide
  - State-wide
  - Executive



# Administrative Edits

- **Administrative Edits**
  - Existing Authority (§12924)
  - Focused on line work clean up and gross geologic errors
    - National Hydrologic Dataset for water ways
    - Existing County jurisdictions
    - Geology updated based upon the California Geological Survey 1:250K Statewide maps



DWR North Central Region - B118 Basins and Changed Areas



# Primary NCRO Administrative Edits

- Edits to basins within Sacramento Valley using
  - NHD
  - Counties
- Edits to external edges of Tracy, North Yuba, Eastern San Joaquin and South Tahoe subbasins
  - Align boundary with California Geologic Survey 1:250k or 1:100k maps



# Basin Boundary Modification Requests



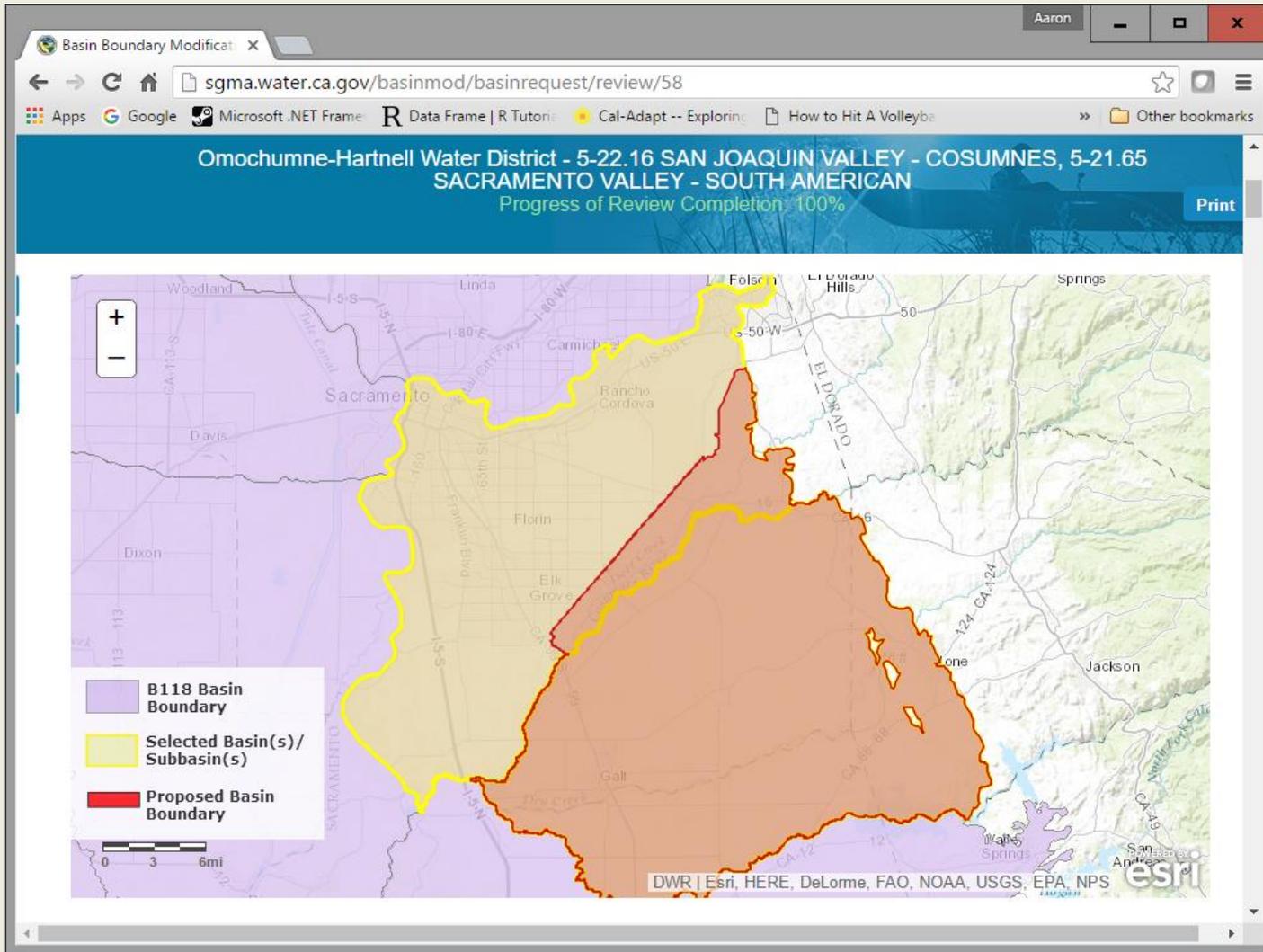
# NCRO Modification Requests

- 8 modification requests submitted
- 5 requests approved
- 1 request denied, but modified and approved due to other circumstances
- 2 requests denied





# San Joaquin Valley - Cosumnes





# San Joaquin Valley - Cosumnes

- Who: Omochumne-Hartnell Water District
- What: Jurisdiction Internal
- Request to align northern boundary of Cosumnes Subbasin along jurisdiction boundary of Omochumne-Hartnell Water District
- Request denied at this time due to Sacramento County concerns

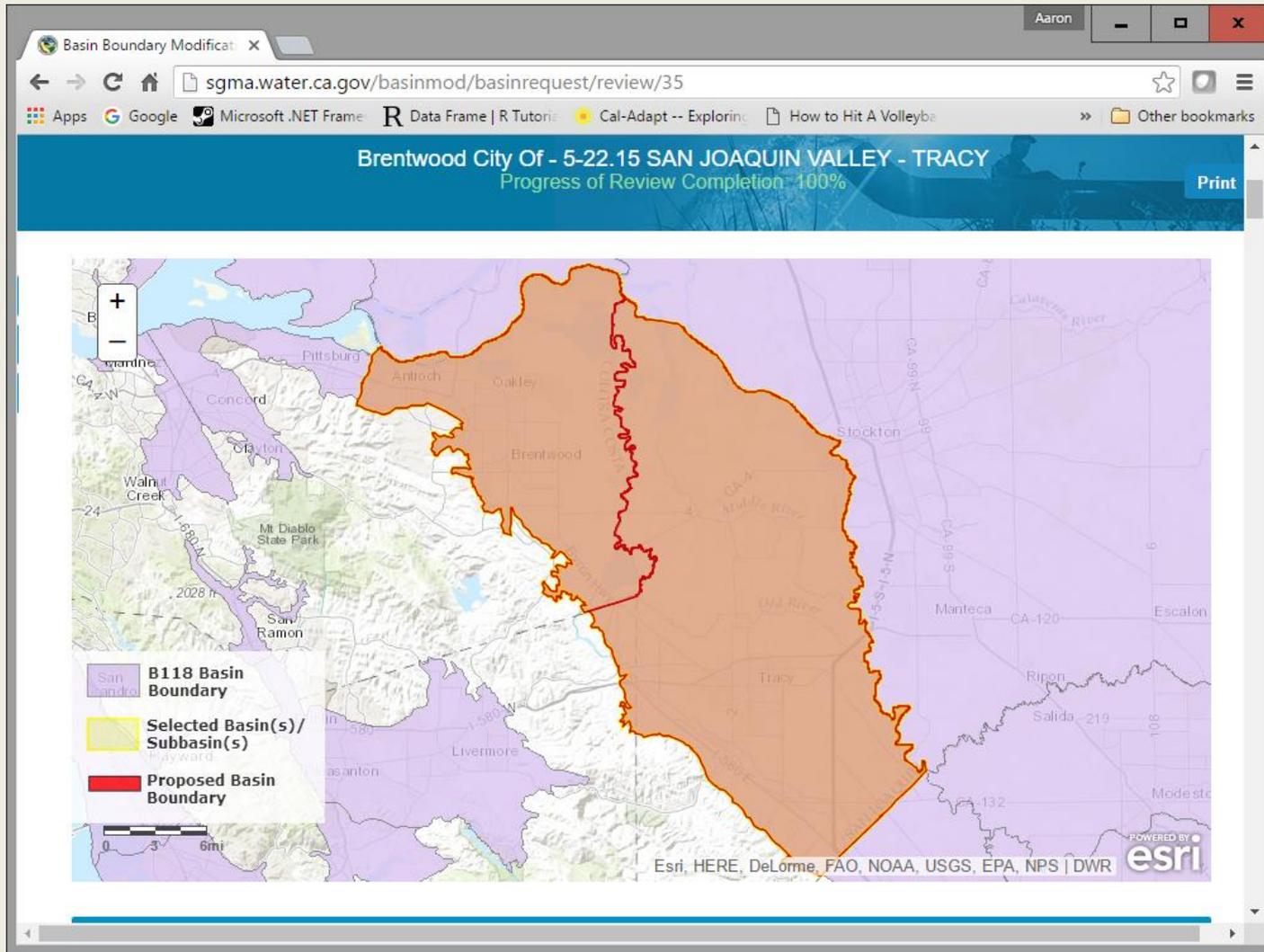


# San Joaquin County – Tracy

- Who: City of Brentwood
- What: Jurisdiction Subdivision
- Request to subdivide Tracy subbasin along Contra Costa county boundary
- Request denied at this time; Requirement to obtain 75% positive support for subdivision not yet met



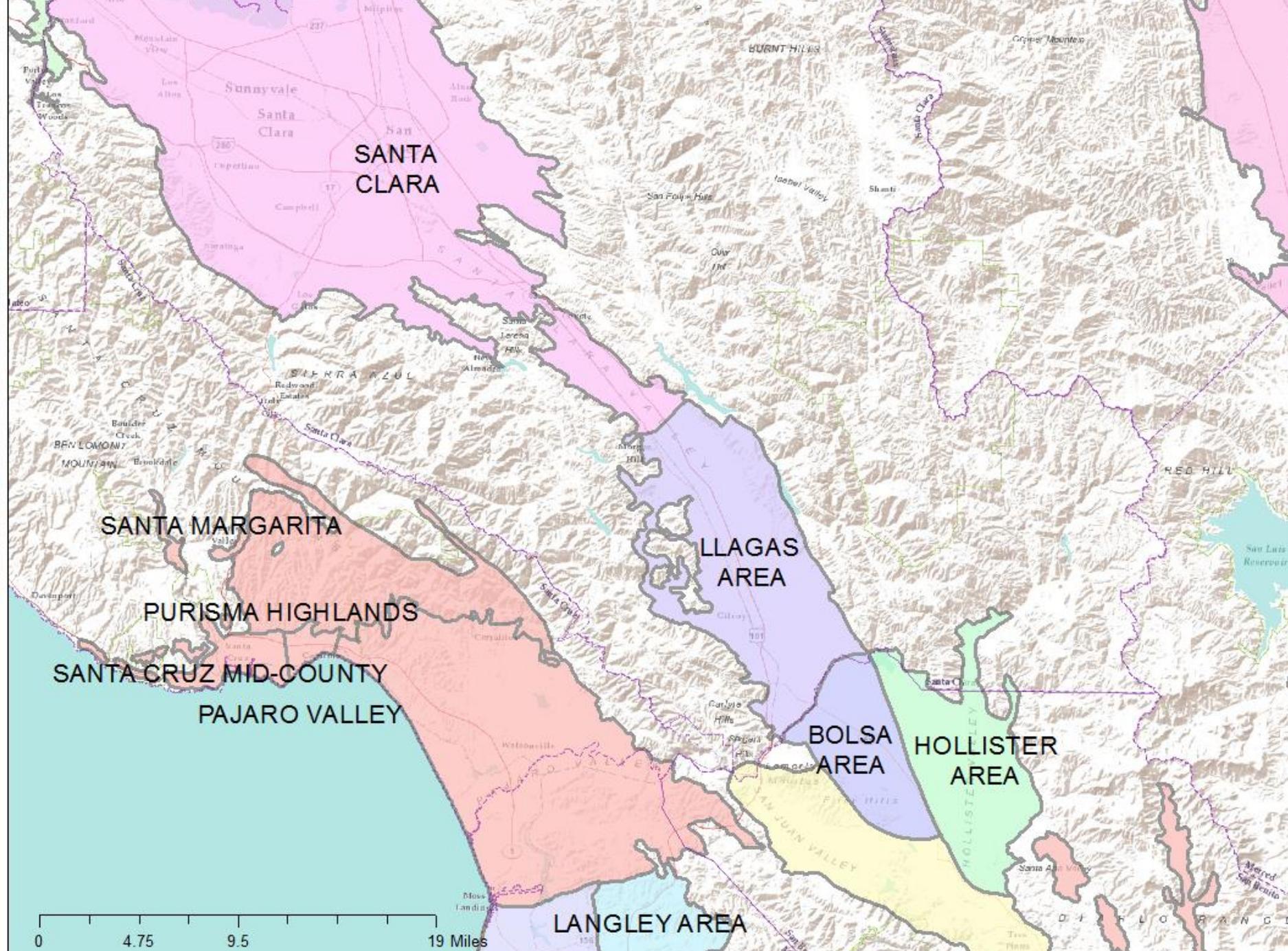
# San Joaquin County – Tracy





# Gilroy – Hollister Valley - Llagas Area

- Who: Santa Clara Valley Water District
- What: Scientific External
- Modify eastern external boundary to align with extent of alluvium as described in more recent USGS open file report
- Approved



**SANTA CLARA**

**SANTA MARGARITA**

**PURISMA HIGHLANDS**

**SANTA CRUZ MID-COUNTY**

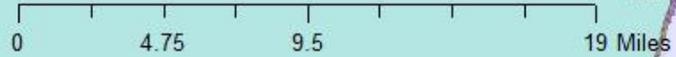
**PAJARO VALLEY**

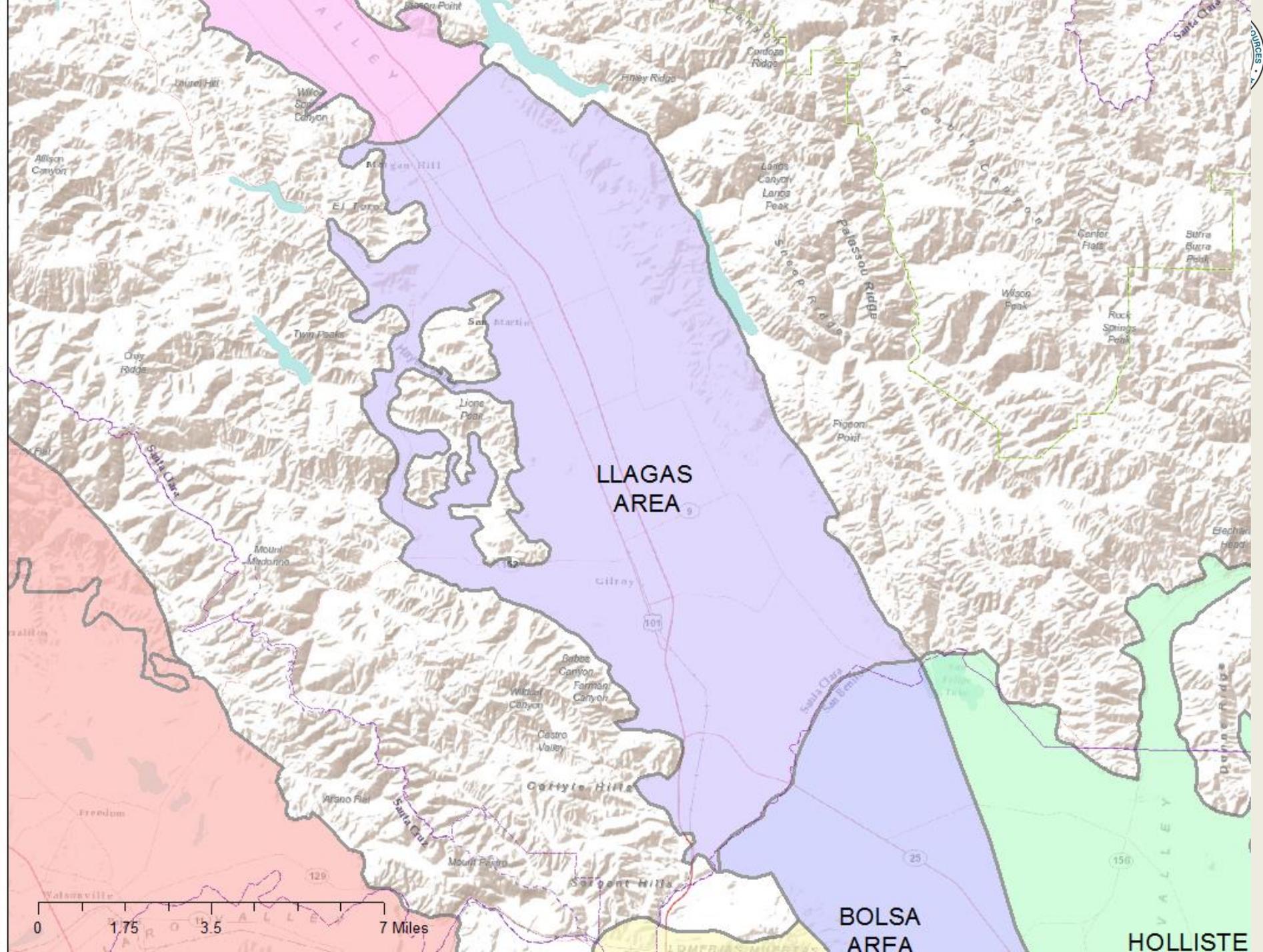
**LLAGAS AREA**

**BOLSA AREA**

**HOLLISTER AREA**

**LANGLEY AREA**





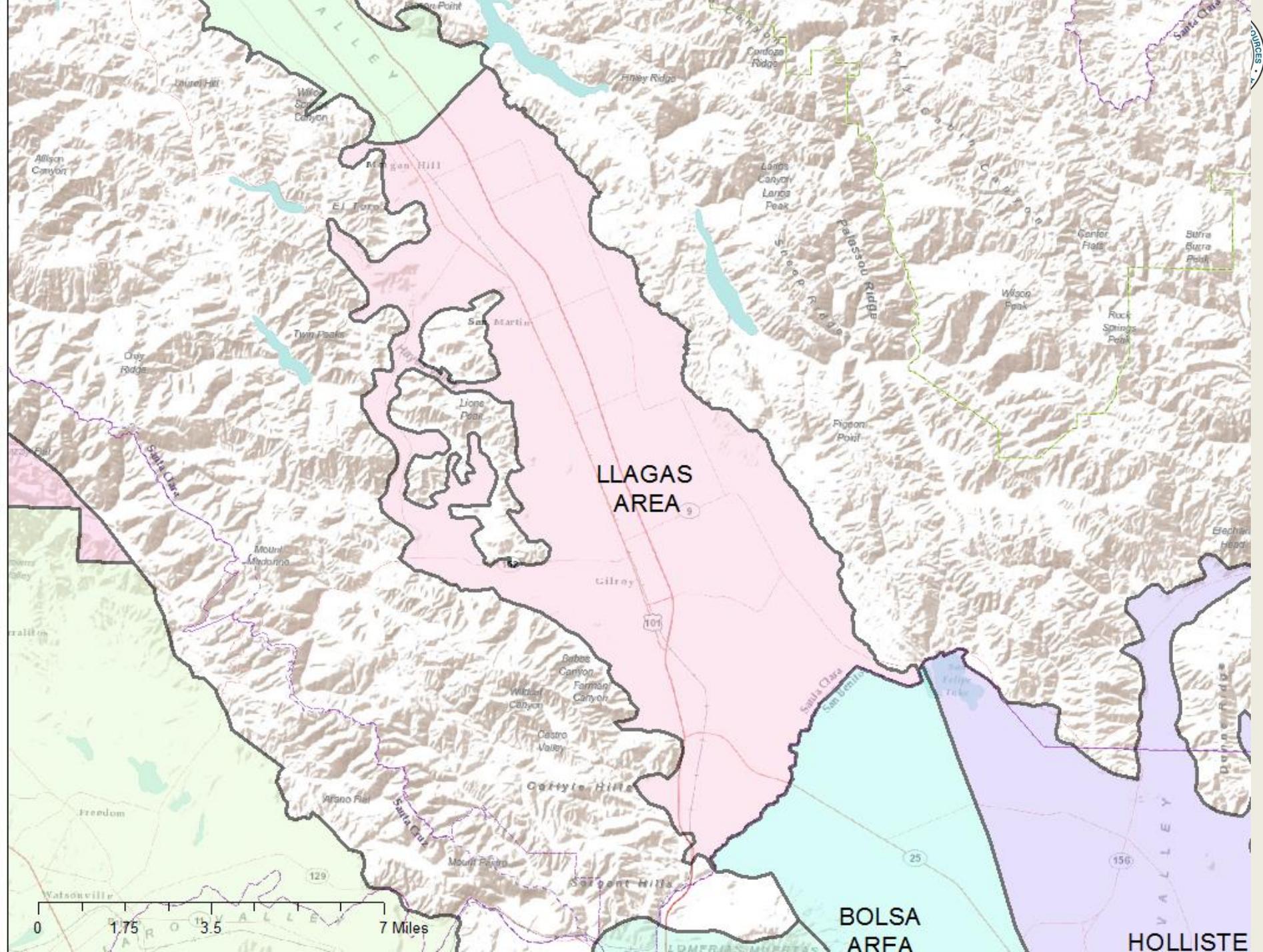
# LLAGAS AREA

# BOLSA AREA

# HOLLISTE

0 1.75 3.5 7 Miles

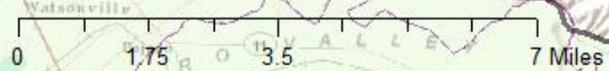
COURSES



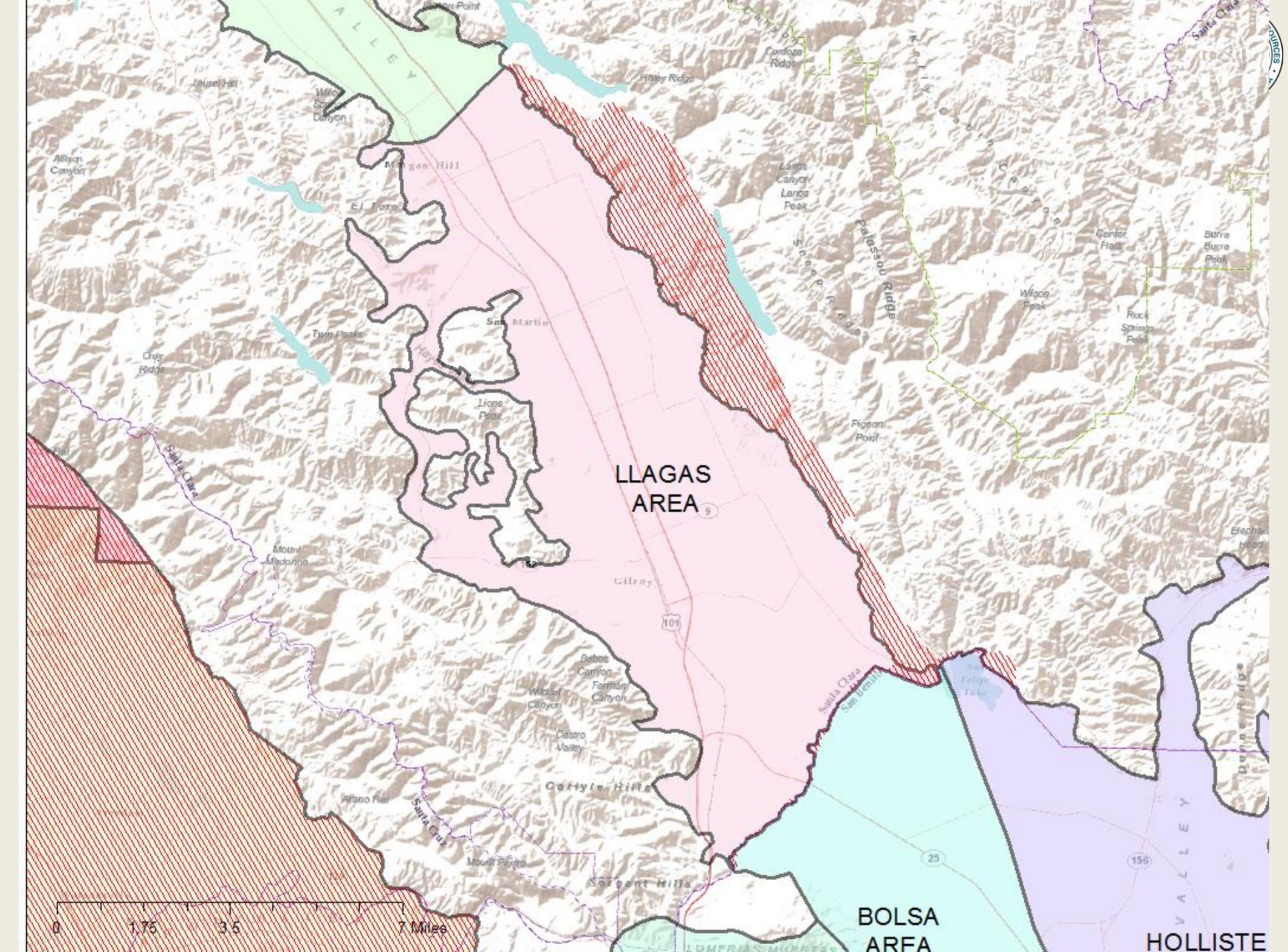
# LLAGAS AREA

BOLSA AREA

HOLLISTE



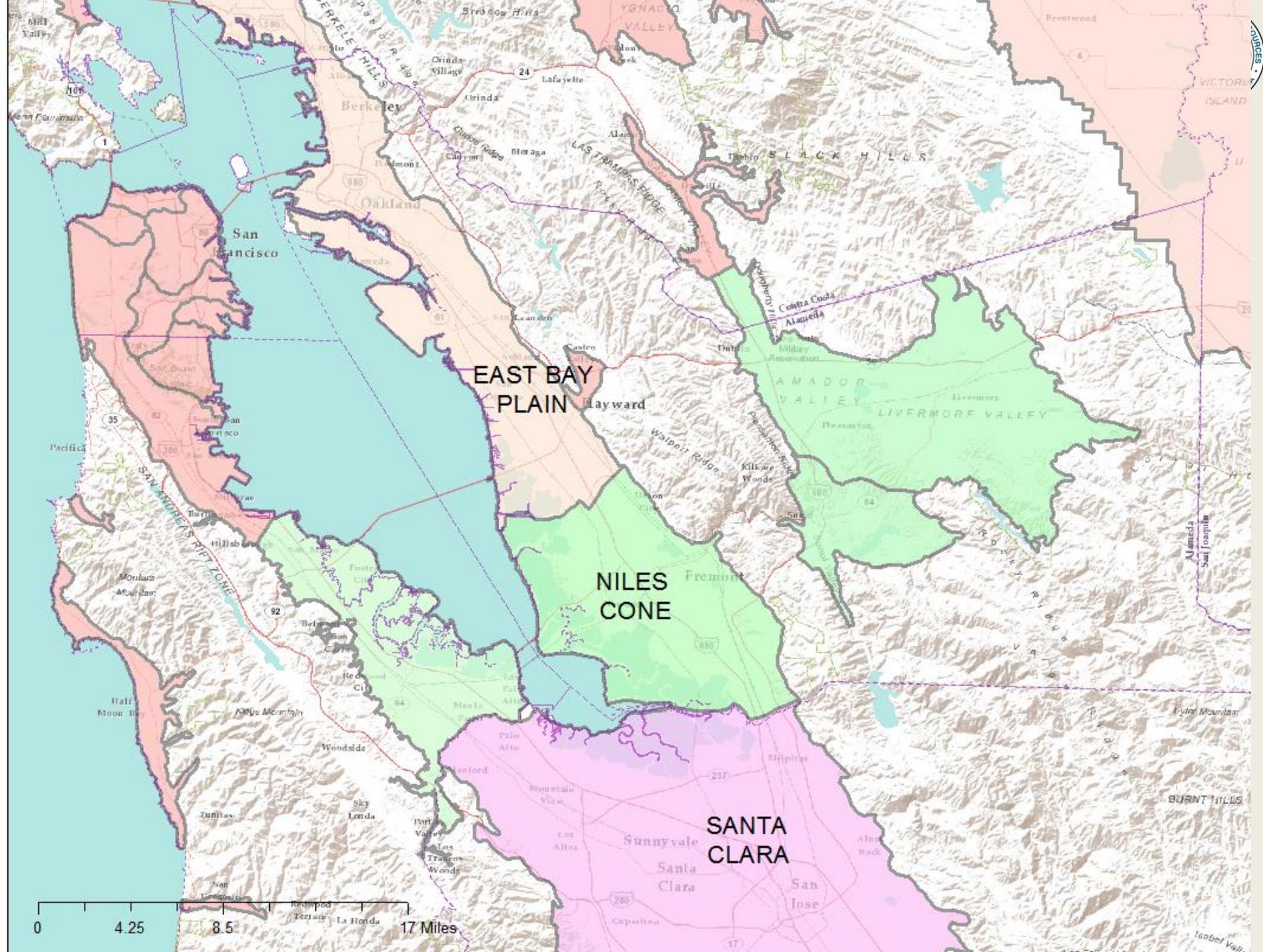
COURSES





# Santa Clara Valley - Niles Cone

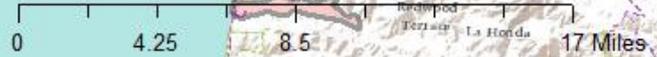
- Who: Alameda County Water District
- What: Jurisdictional internal
- Align the the boundary between Niles Cone and East Bay Plain subbasins with Alameda County Water District statutory boundary.
- Approved as modified



**EAST BAY  
PLAIN**

**NILES  
CONE**

**SANTA  
CLARA**

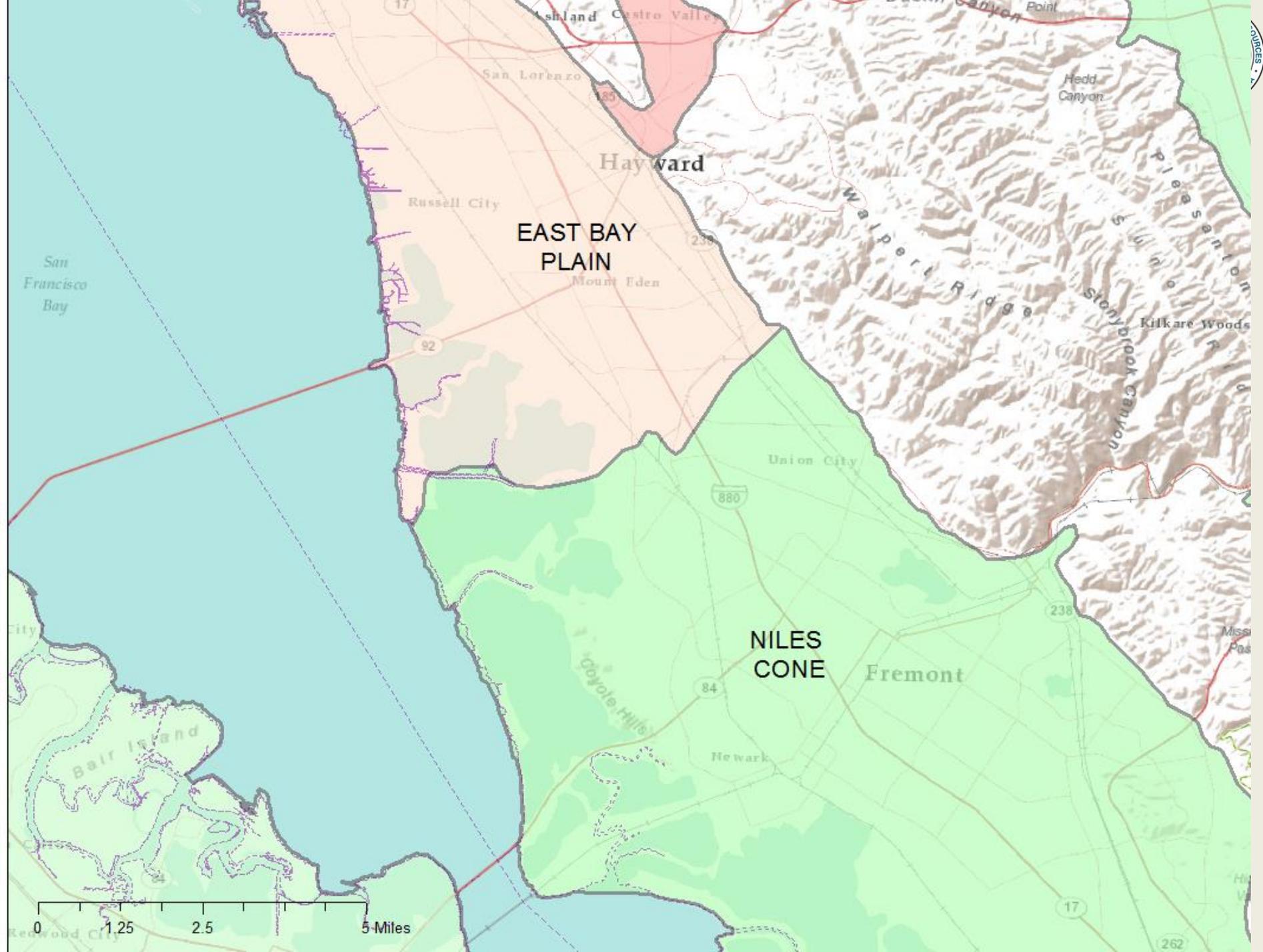


CONGRES

VICTORIA ISLAND

BURNT HILLS

Temple Vall



**EAST BAY PLAIN**

**NILES CONE**

Hayward

Fremont

Russell City

Union City

Mount Eden

Newark

San Lorenzo

Hedd Canyon

San Francisco Bay

Bair Island

Goyle Hills

Wapere Ridge

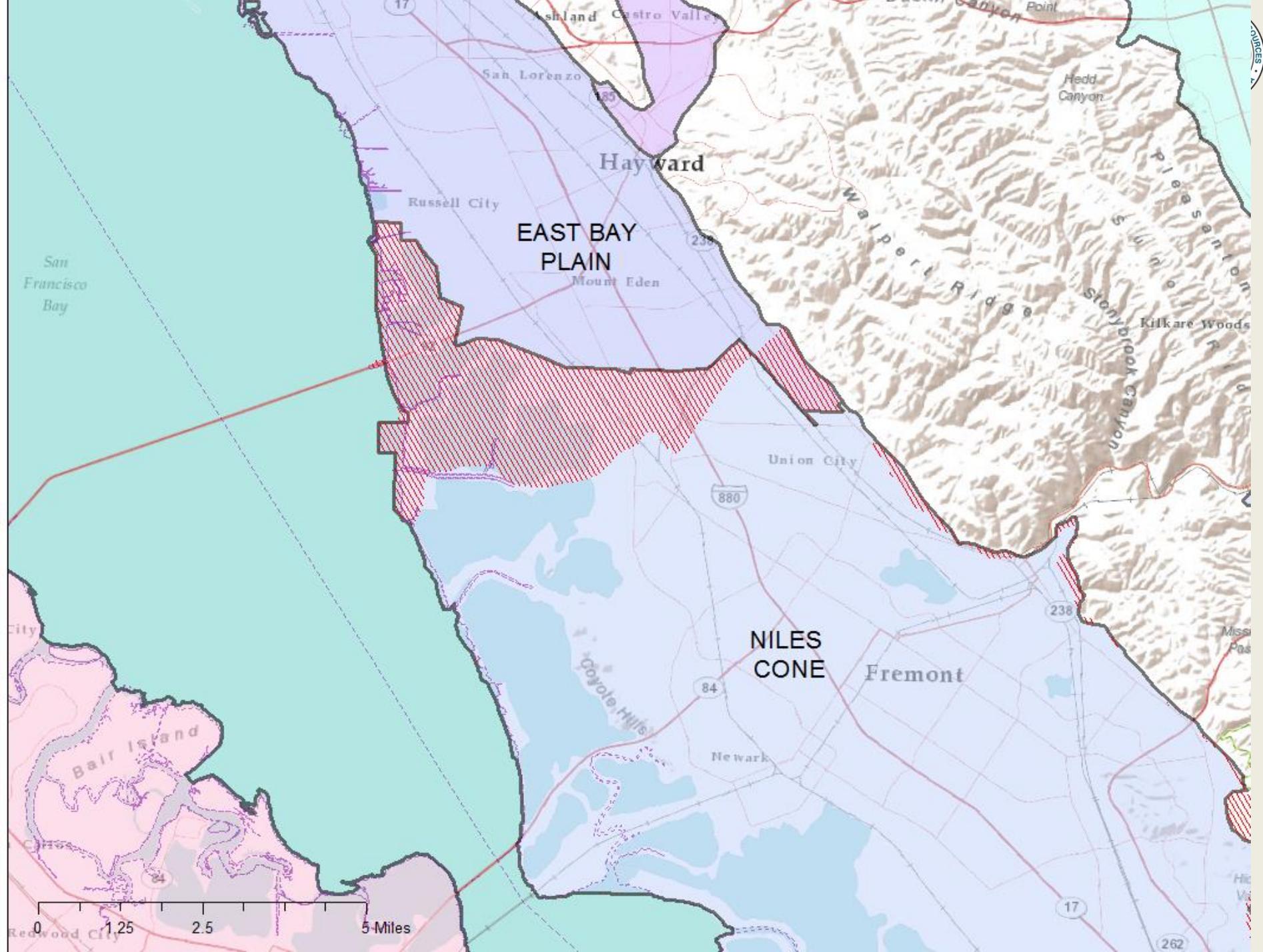
Stony Brook Canyon

Kilkare Woods

0 1.25 2.5 5 Miles

ARC/INFO





**EAST BAY PLAIN**

**NILES CONE**

Hayward

Fremont

San Lorenzo

Union City

Newark

Russell City

Mount Eden

San Francisco Bay

Bair Island

0 1.25 2.5 5 Miles

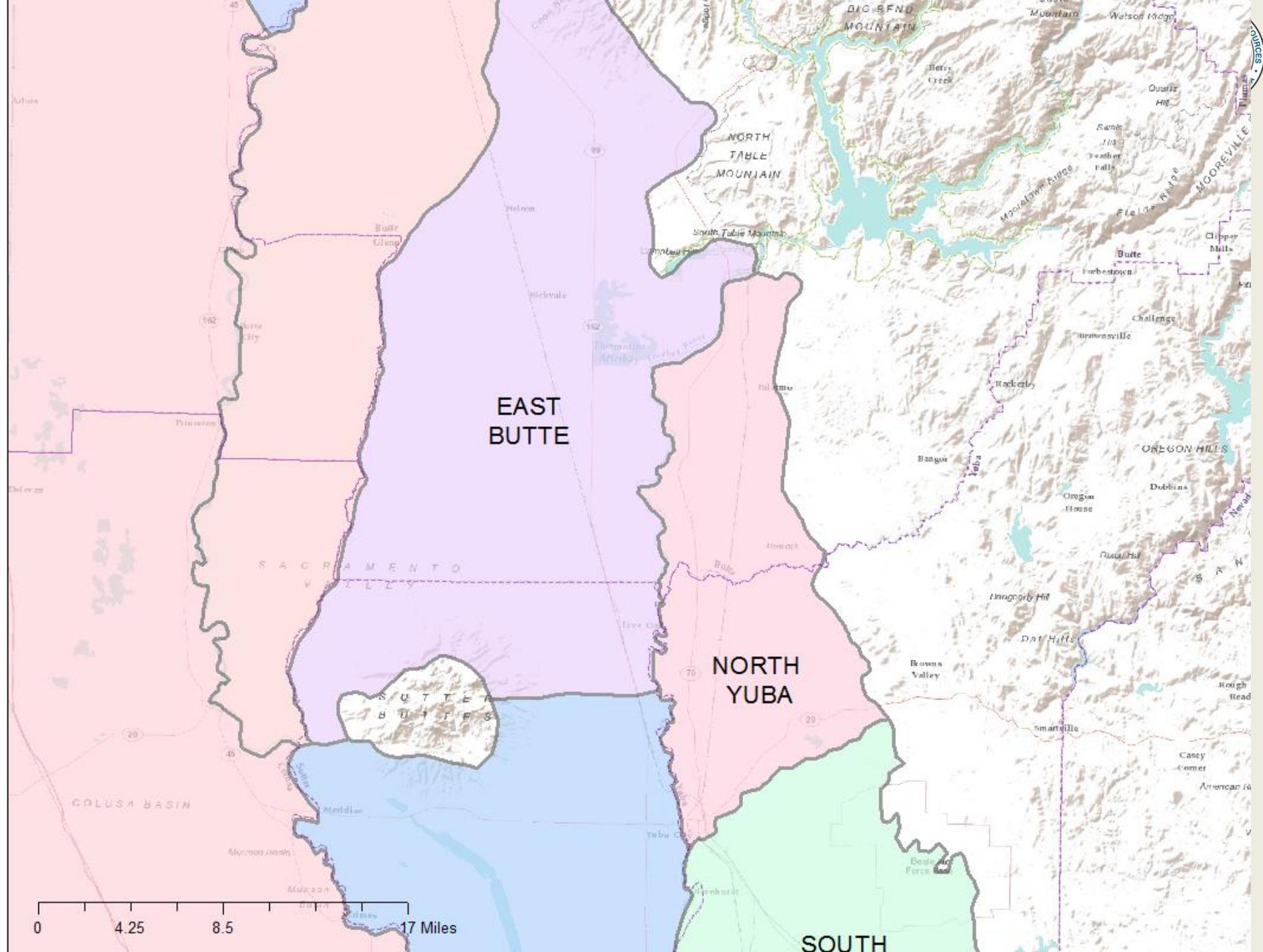
CONGRES



# Sacramento Valley - North Yuba

- Who: Yuba County Water Agency
- What: OTHER\* (originally submitted as a Jurisdiction subdivision)
- Align northern boundary of North Yuba subbasin with Yuba/Butte county boundary.
- Aggregate existing Eastern Butte subbasin with orphaned portion of North Yuba subbasin within Butte county.
- Original subdivision request denied (75% support not yet met)
- Modification approved as other (with changes) to correct an error that was incorporated into the B118 boundaries between 2003 and 2016.

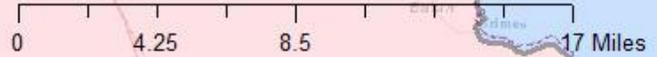


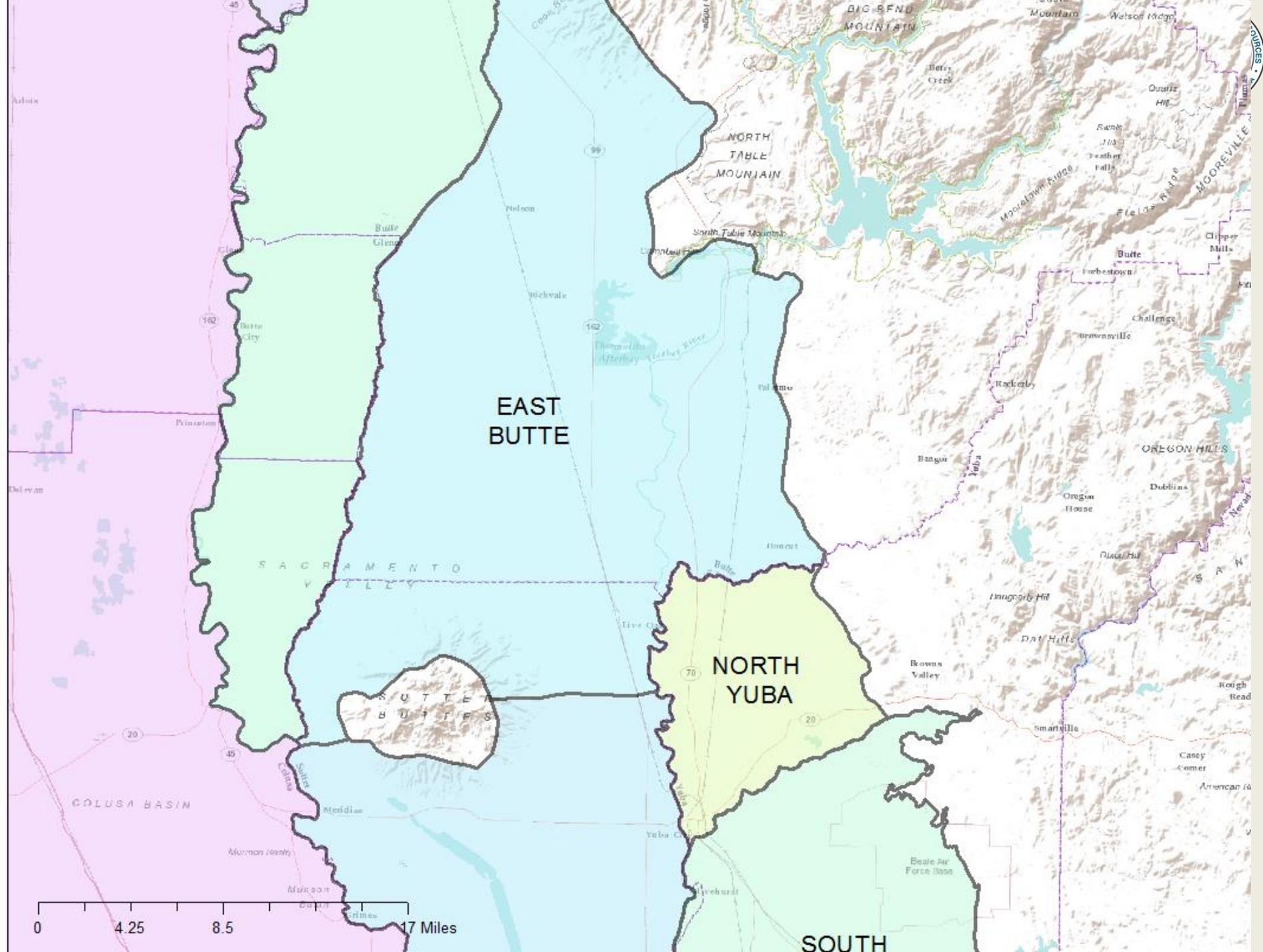


EAST  
BUTTE

NORTH  
YUBA

SOUTH





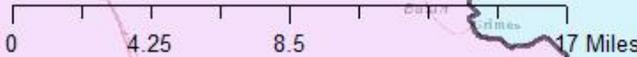
EAST BUTTE

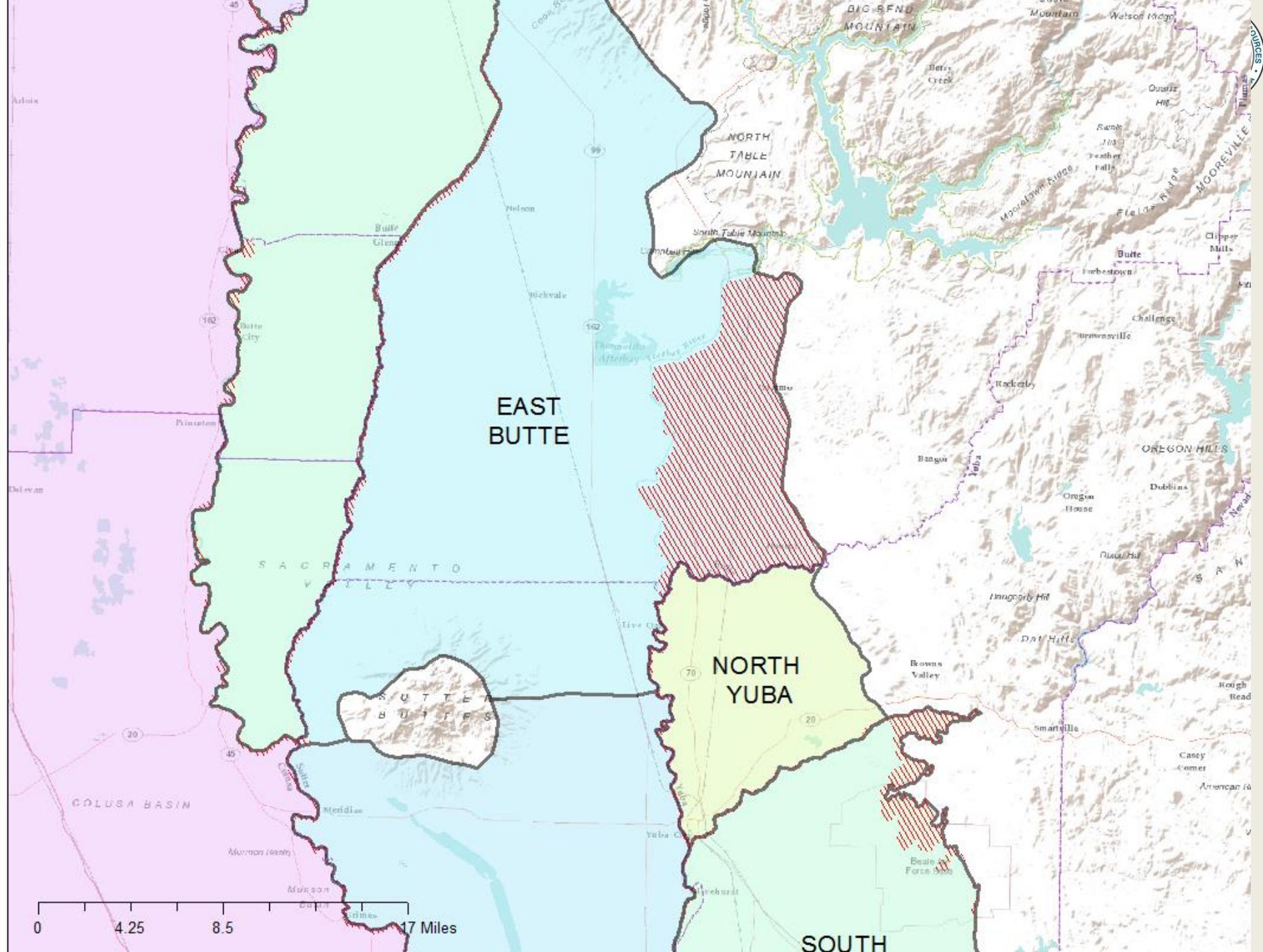
SACRAMENTO VALLEY

SUTTER BUTTES

NORTH YUBA

SOUTH

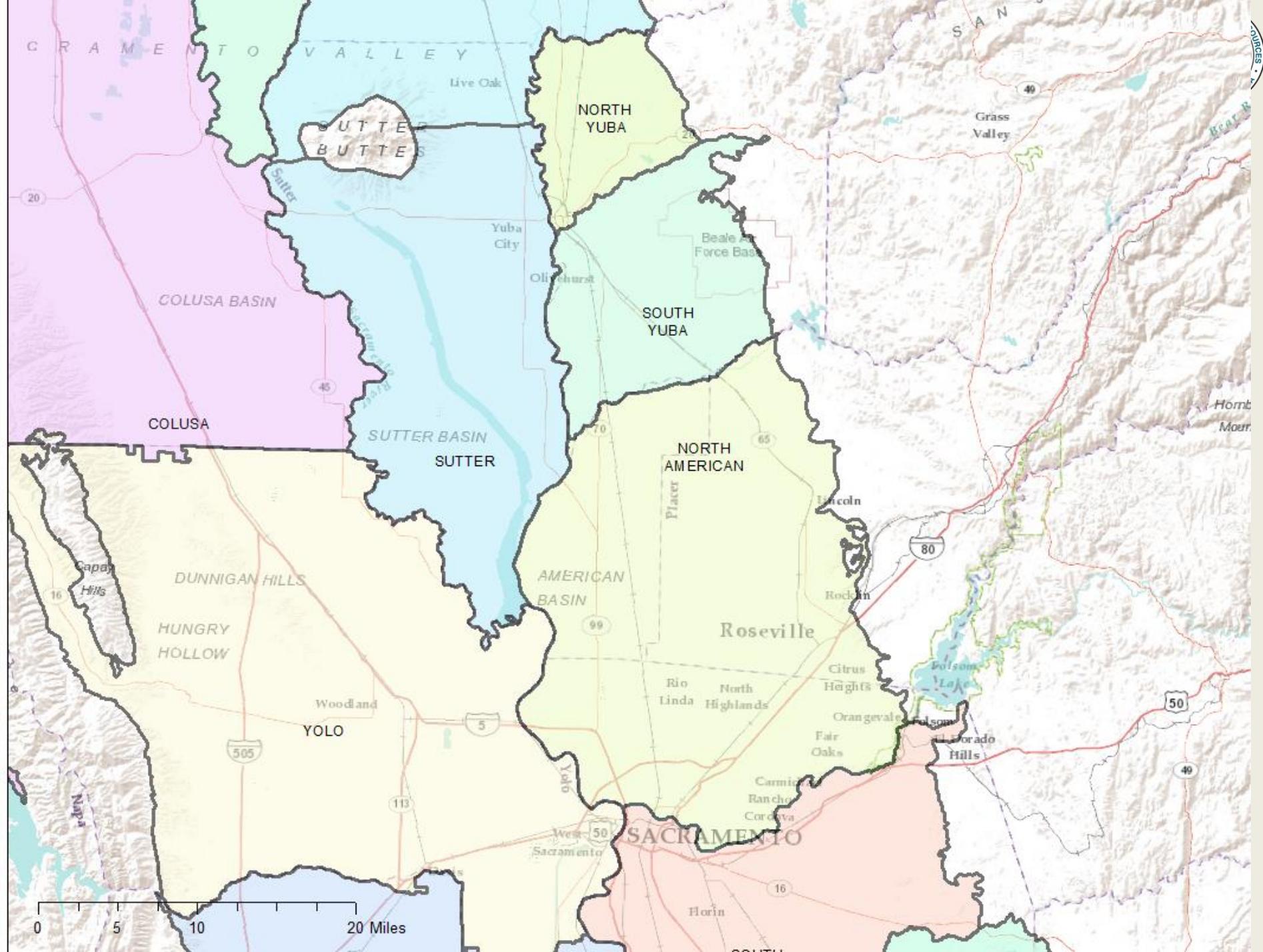


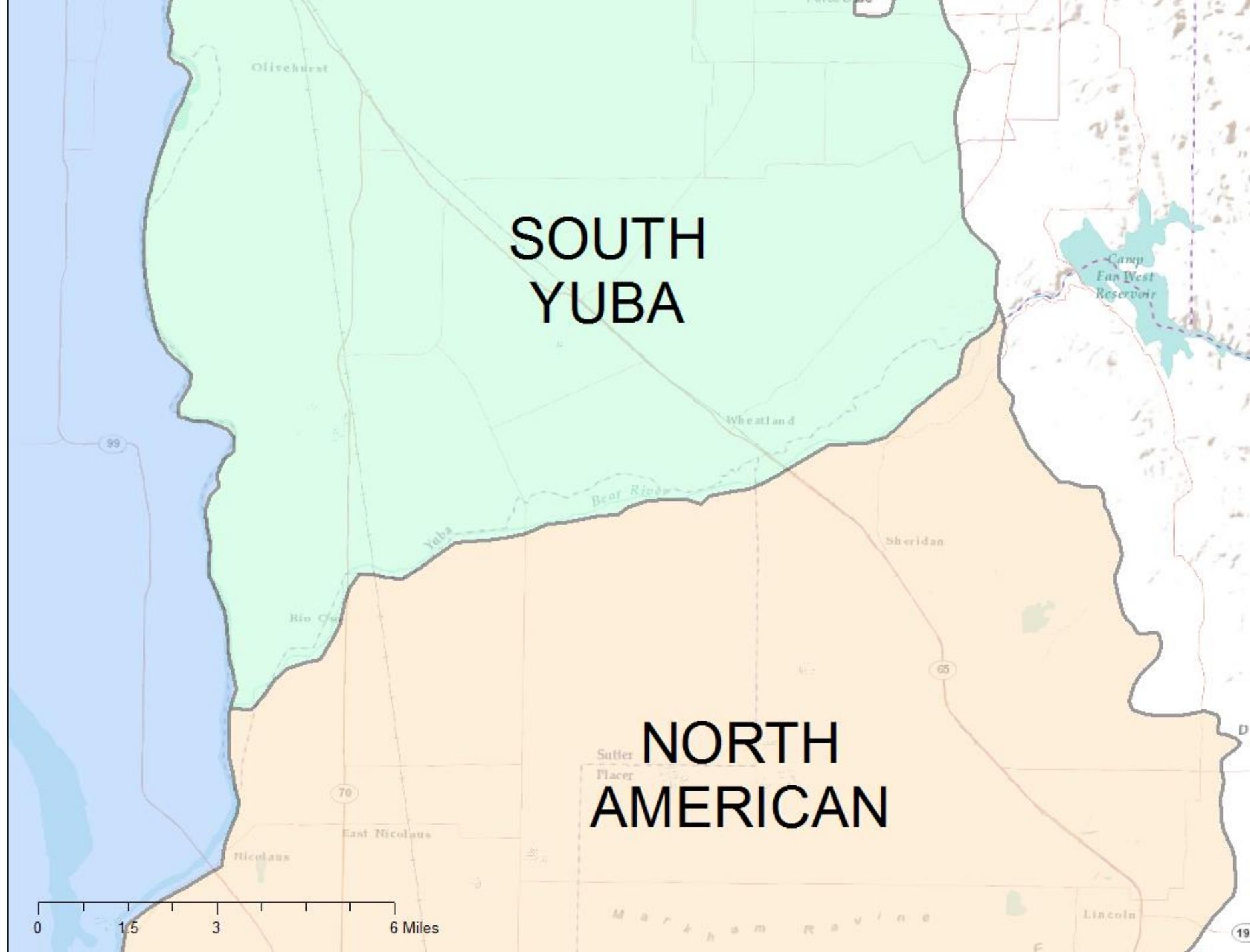




# Sacramento Valley – North American

- Who: Placer County
- What: Jurisdiction Internal
- Aligns the boundary between North American and South Yuba along the Placer/Yuba county boundary
- Approved





# SOUTH YUBA

# NORTH AMERICAN

0 1.5 3 6 Miles

# SOUTH YUBA

# NORTH AMERICAN

Olivehurst

Wheatland

Camp  
Fair West  
Reservoir

Sutler  
Placer

Sheridan

Rio Chico

70

East Nicolaus

Nicolaus

65

Marathon Ravine

Lincoln

0 1.5 3 6 Miles

99

CONCRETE

19

# SOUTH YUBA

# NORTH AMERICAN

Olivehurst

Wheatland

Camp  
Fair West  
Reservoir

Sheridan

Rio C...

Sutter  
Placer

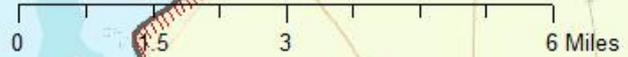
70

East Nicolaus

Nicolaus

Marathon Ravine

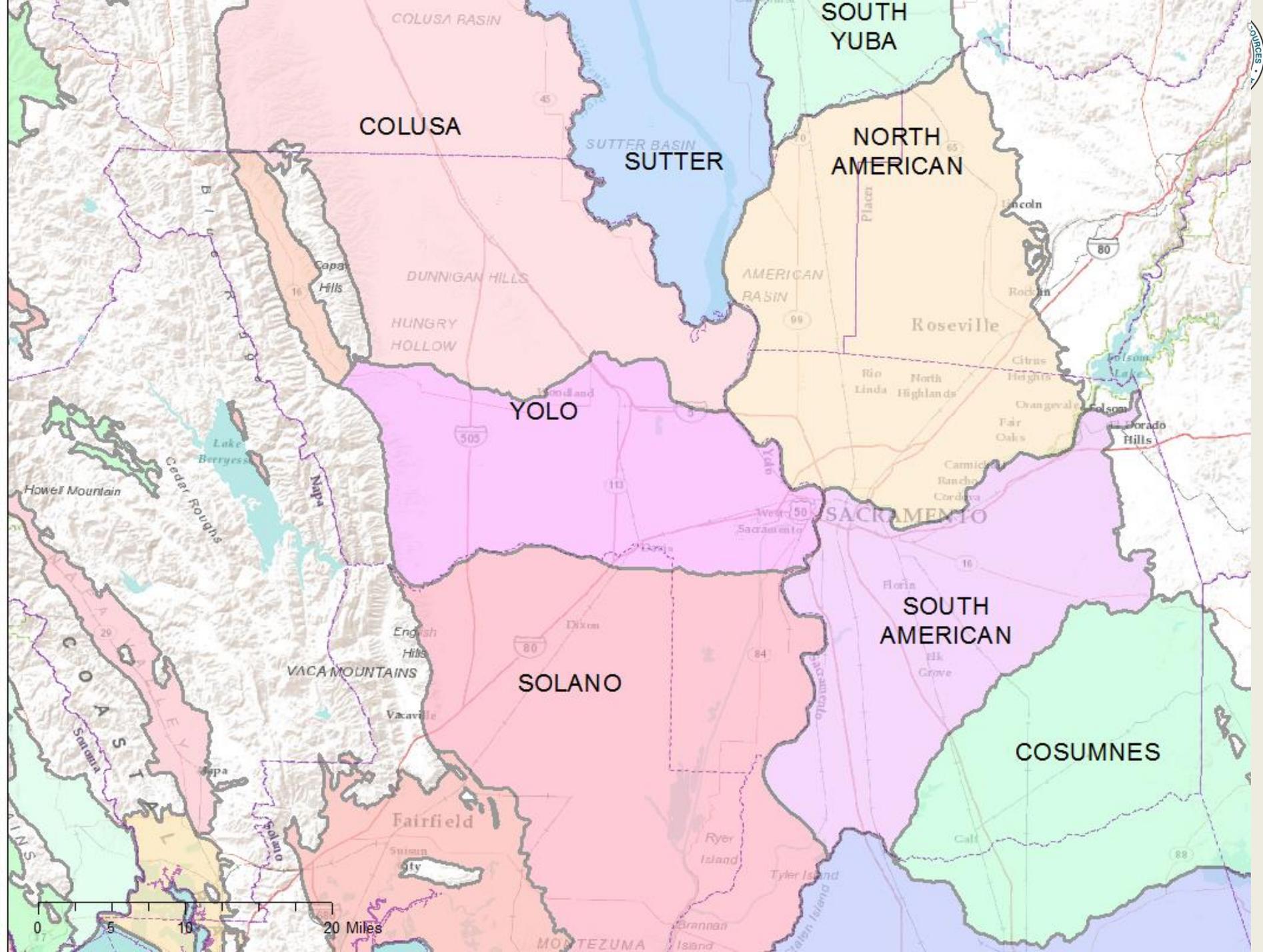
Lincoln



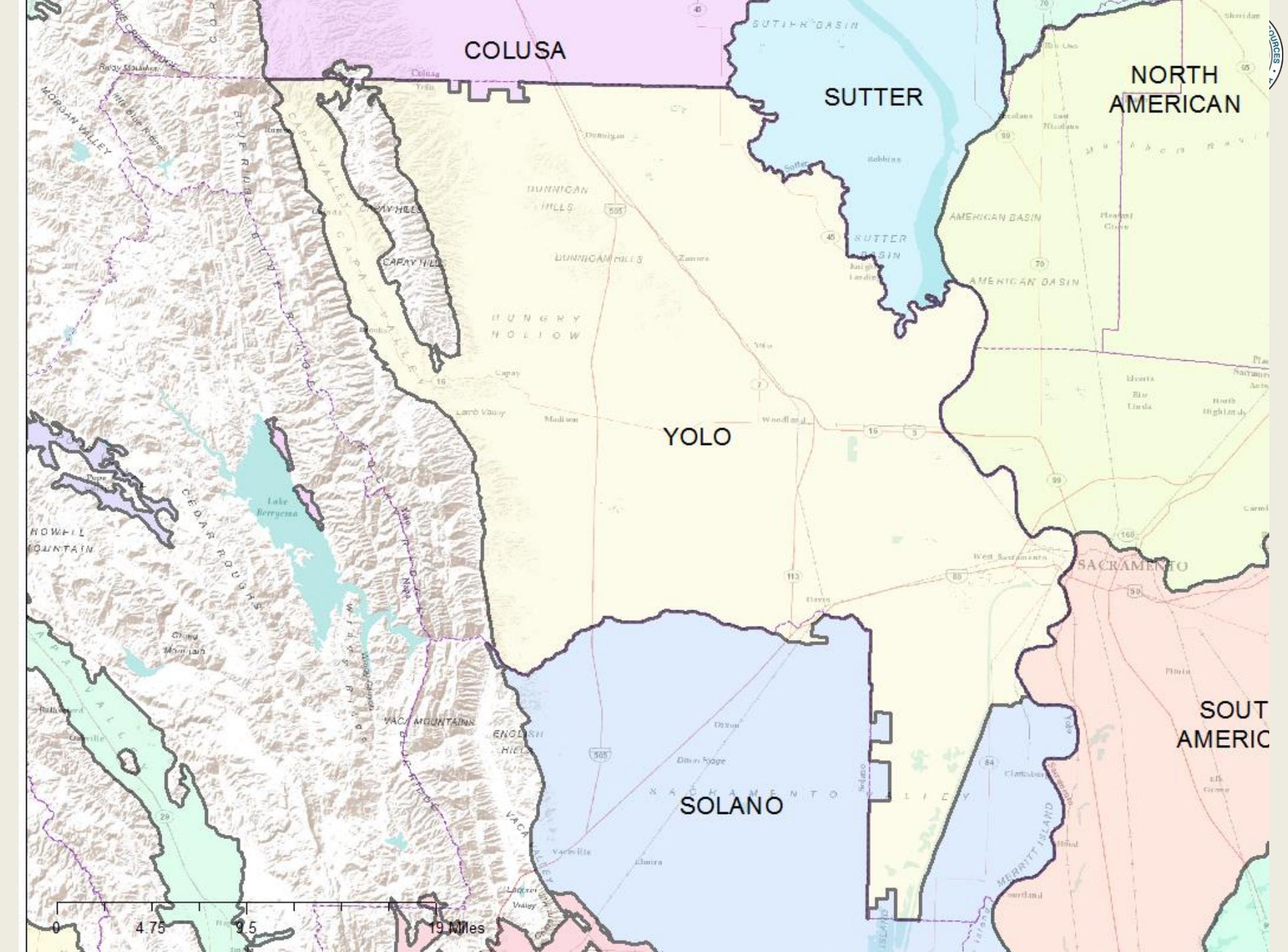


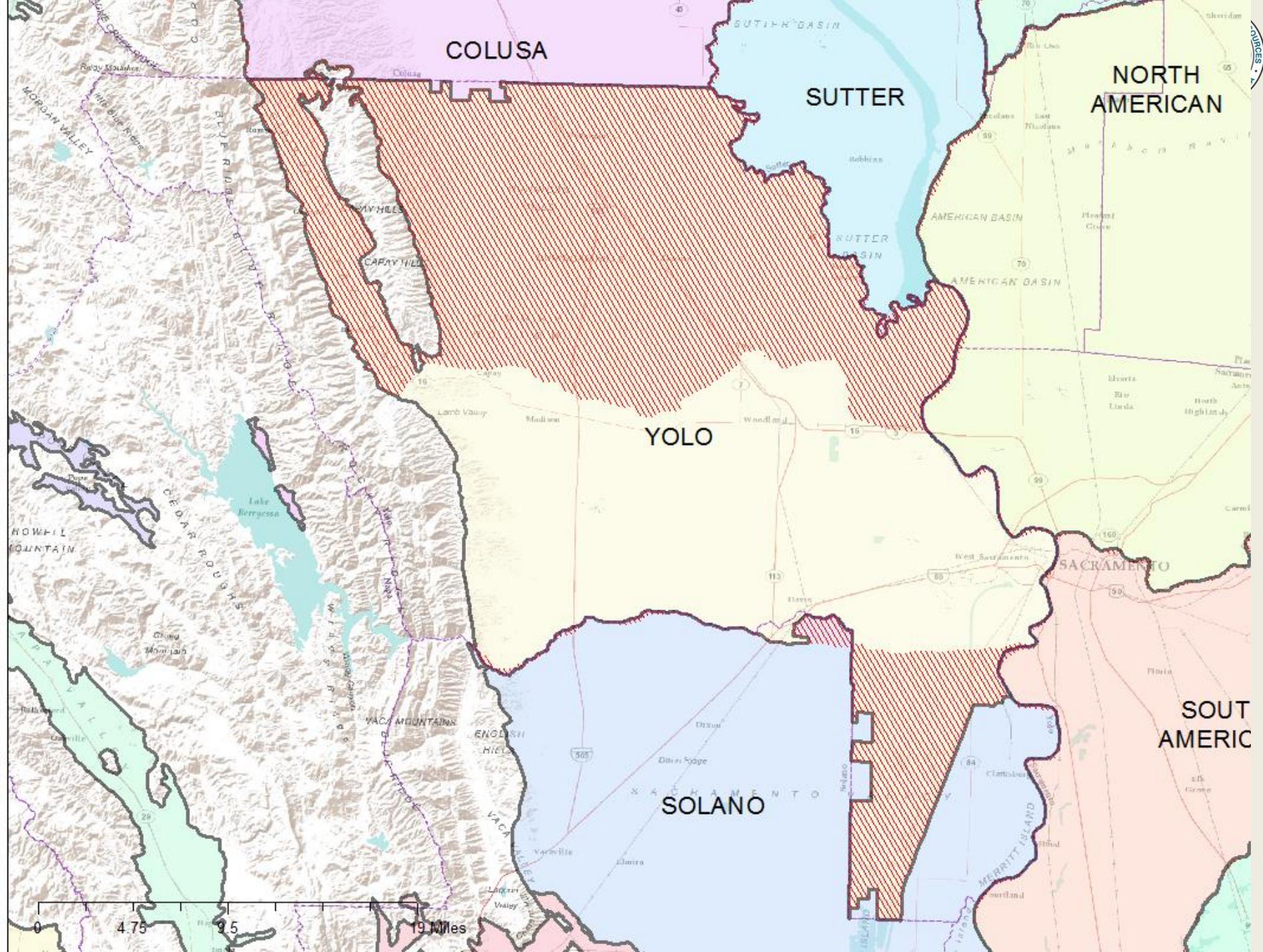
# Sacramento Valley - Yolo

- Who: Yolo County FCWCD
- What: Combination (Jurisdiction Internal and County Consolidation)
- Consolidate most of Yolo County within the Yolo subbasin,
- Affects Colusa, Solano, and small areas of Sutter, North American, and South American subbasins
- Some areas within Yolo county in the Solano subbasin are not included per local agency agreement with Yolo County FCWCD
- Approved









COLUSA

SUTTER

NORTH AMERICAN

YOLO

SOLANO

SACRAMENTO

SOUTH AMERICAN

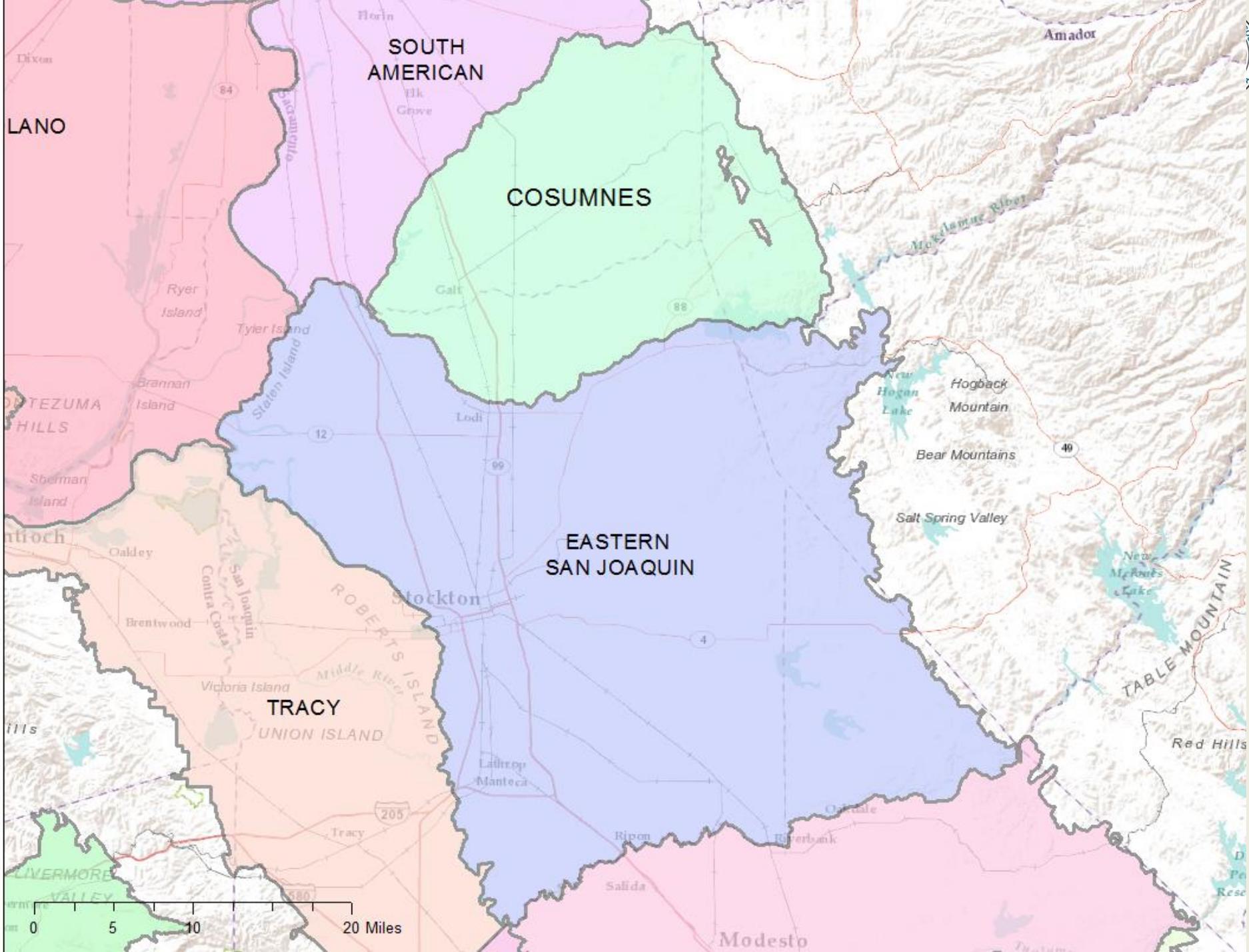
0 4.75 9.5 Miles

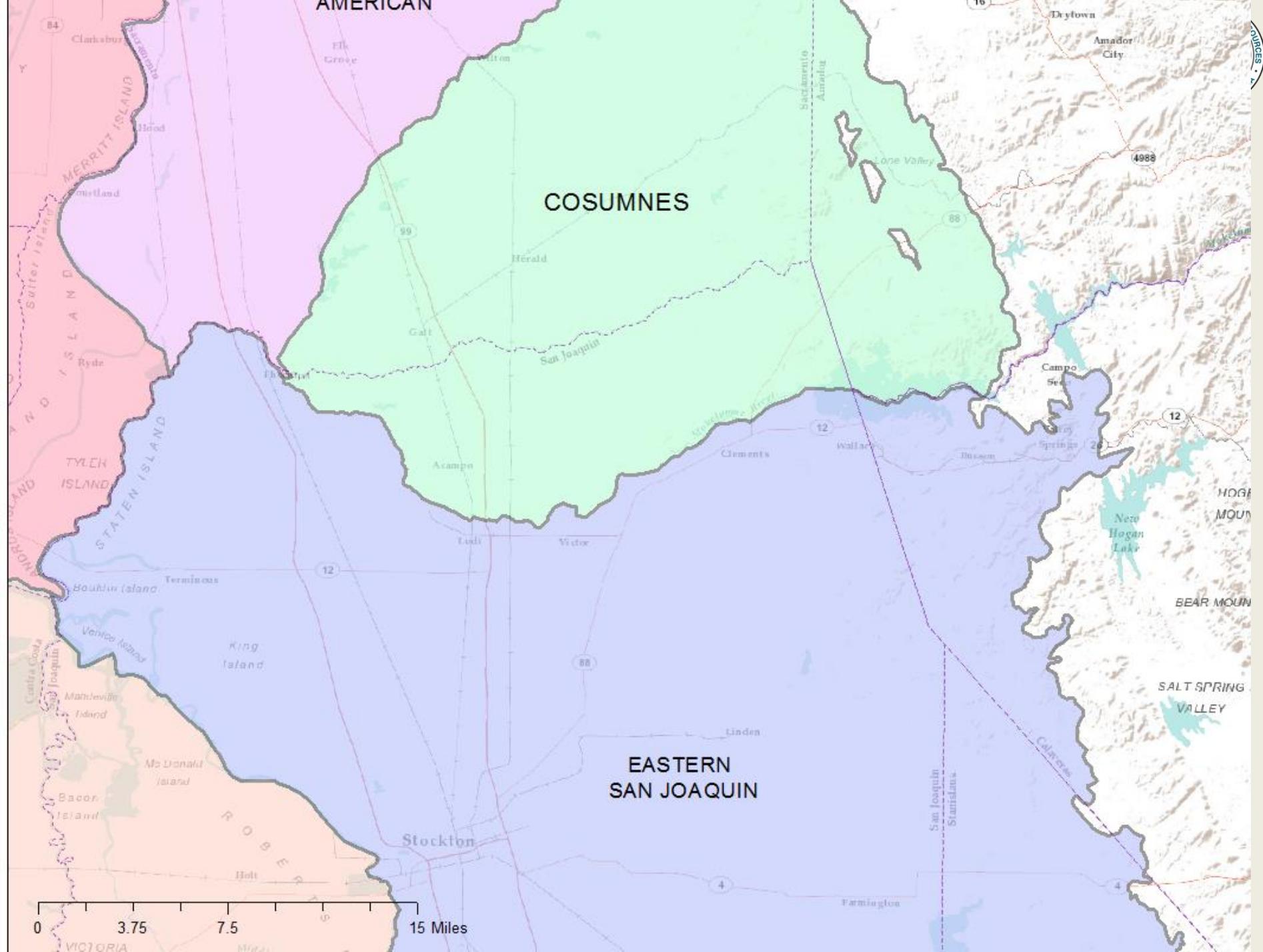
SOURCES

# San Joaquin Valley – Eastern San Joaquin



- Who: Eastern San Joaquin County GBA
- What: Jurisdiction Internal Modification
- Move boundary between Eastern San Joaquin and Cosumnes subbasins to be coincident with Sacramento/San Joaquin county boundary
- Approved



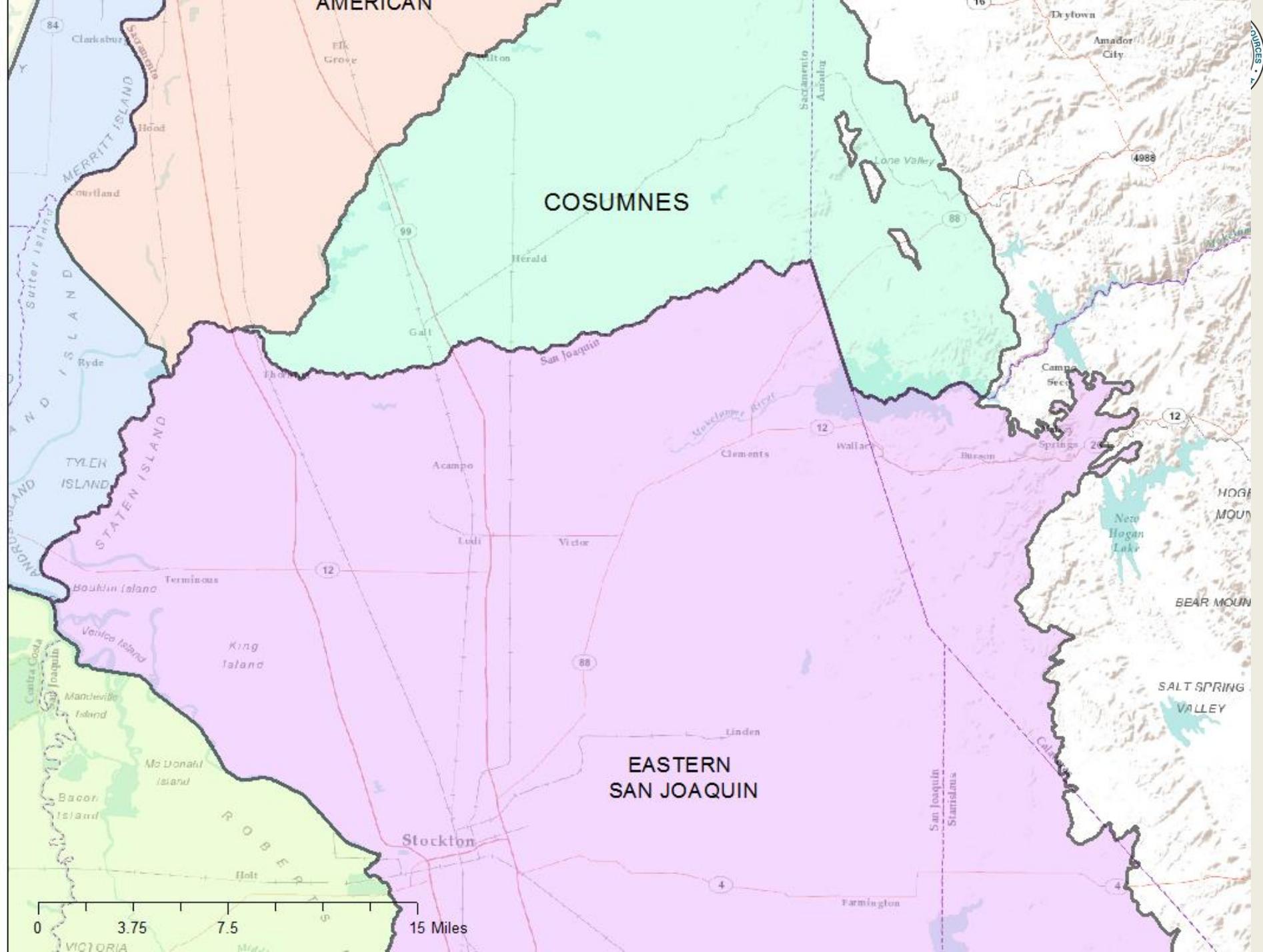


COSUMNES

EASTERN  
SAN JOAQUIN

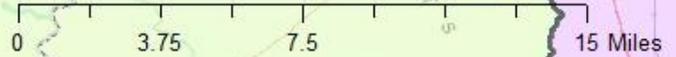
Stockton

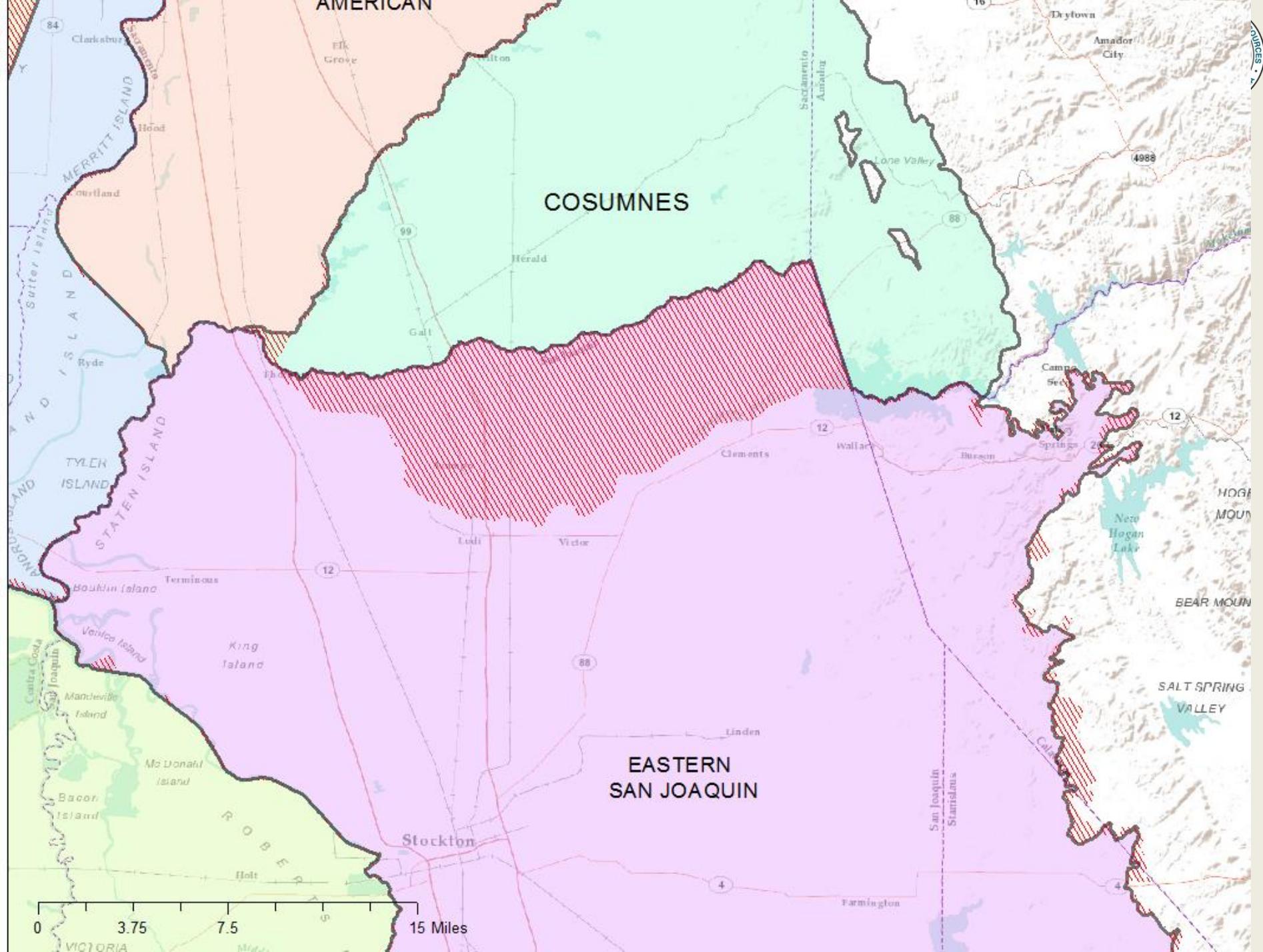
0 3.75 7.5 15 Miles



COSUMNES

EASTERN  
SAN JOAQUIN





# Clarify Questions





# Official Comment Period

- Comments will be heard, but not responded to.
- There will be a 3-minute time limit
- Your comments will be summarized in briefing to the California Water Commission
- Your comments will be recorded to assure accuracy