

Technical Advisory Committee

- TAC members
 - 10 members
 - Glenn County Dept. of Planning and Public Works
 - UC Cooperative Extension
 - Glenn County Environmental Health
 - Glenn County Dept. of Agriculture
 - DWR
 - 4 At-large Stakeholders (North, South, Central, East)
 - Board of Supervisor Member (ex-officio)
- Groundwater Levels
 - Periodically reviews
 - Report to the WAC on status of network annually
 - May propose a change in monitoring frequency to the WAC
 - May propose a change in network to the WAC
- Water Quality
 - Report to the WAC on the status of network annually
 - May propose a change in monitoring frequency to the WAC
 - May propose a change in network to the WAC
- Land Subsidence
 - Report to the WAC on the status of network annually
 - May propose a change in monitoring frequency to the WAC
 - May propose a change in network to the WAC
- Review of Technical Data
 - Establish standard methods for review and analysis of collected data
 - Meets bimonthly (irrigation season) April through September (or as necessary)
 - Focus on compliance with current BMO
 - Meets quarterly (off season) October through March (or as necessary)
 - Focus on review of BMO compliance for previous irrigation season
 - develop new BMO criteria for following year
 - Establish methods for data collection, storage, dissemination
 - Establish QA/QC guidelines for gw level, gw quality, land subsidence data collection (for WAC & Board approval)
- BMO non-compliance
 - Identify area (unrelated to export) and report to the WAC
 - Collect available pertinent data and investigate possible cause
 - Recommend actions to resolve BMO non-compliance to the WAC
- Export
 - Receive export/transfer program information from County

- Report to the WAC any areas of BMO non-compliance that are thought to be caused by an export/transfer program, based on substantial scientific evidence
- Collect and evaluate available pertinent data and investigate possible cause
- Recommend actions to resolve the BMO non-compliance to the WAC
- May recommend adaptive management plan to the WAC
- Conflict Resolution
 - Review initial report
 - Prepare initial investigation report
 - Notify local sub-watershed WAC member(s)

Water Advisory Committee

- WAC members
 - 13 members
 - At-Large Private Pumpers (Agricultural/Municipal/Industrial) - 4
 - Resource Conservation District - 1
 - Glenn County Farm Bureau - 1
 - Tehama Colusa Canal Authority Districts – 2
 - Orland Unit Water Users Association – 1
 - East County Reclamation and Irrigation Districts – 2
 - Glenn Colusa Irrigation District – 1
 - Central River Irrigation Districts – 1
- Publically present findings semi-annually (Spring and Fall) to Board
- Recommend changes to the determination of the BMO (Exhibit A) to the Board
- Groundwater Levels
 - Establish Groundwater Level Monitoring Network for Board approval
 - Receive recommendations regarding network from the TAC and forward to the Board
 - Establish monitoring frequency for Board approval
 - Receive annual report on network from TAC
 - Receive recommendations regarding frequency from the TAC and forward to the Board
- Water Quality
 - Establish Groundwater Quality Monitoring Network for Board approval
 - Receive annual report from the TAC on the status of network
 - Determine monitoring frequency for Board approval
 - Receive proposed changes in monitoring frequency from the TAC
 - Receive proposed changes in network from the TAC
- Land Subsidence
 - Establish Land Subsidence Monitoring Network for Board approval
 - Determine monitoring frequency for Board approval
 - Receive annual report from the TAC on the status of network

- Receive proposed changes in monitoring frequency from the TAC
 - Receive proposed changes in network from the TAC
- Review of Technical Data
 - Approve QA/QC guidelines for gw level, gw quality, land subsidence data collection established by the TAC (also for Board approval)
 - Disseminate monitoring data through public presentations and webpage
- BMO non-compliance
 - Receive BMO non-compliance (unrelated to export) report from TAC
 - Receive recommend actions to resolve BMO non-compliance from the TAC for Board approval
 - Recommend adaptive management plan if BMO non-compliances if TAC recommendations do not result in timely and positive actions to reestablish BMO compliance
- Programs by Water or Irrigation Districts
 - Receive annual reports from water/irrigation districts that operate their own groundwater management programs pursuant to AB 3030 or Central Valley Project Improvement Act (CVPIA) if such programs are based upon safe yield.
- Export (Exhibit C)
 - Receive export/transfer program information from County
 - Receive report from the TAC on any areas of BMO non-compliance that are thought to be caused by an export/transfer program, based on substantial scientific evidence
 - Receive recommended actions to resolve the BMO non-compliance from the TAC
 - Evaluate water agency's monitoring and mitigation plan to determine if that plan includes provisions which would address the noncompliance issue
 - Notify the Board
 - Receive recommend adaptive management plan from the TAC (if necessary)
 - May advise the Board to modify, reduce or terminate groundwater extraction in the affected area for the remainder of export/transfer period once adaptive management plan is received from the TAC
- Conflict Resolution
 - Receive notification to local sub-watershed WAC member(s) from TAC of conflict

BMO REVISIONS

Glenn County Technical Advisory Committee
November 13, 2014

FURTHER CONSIDERATIONS

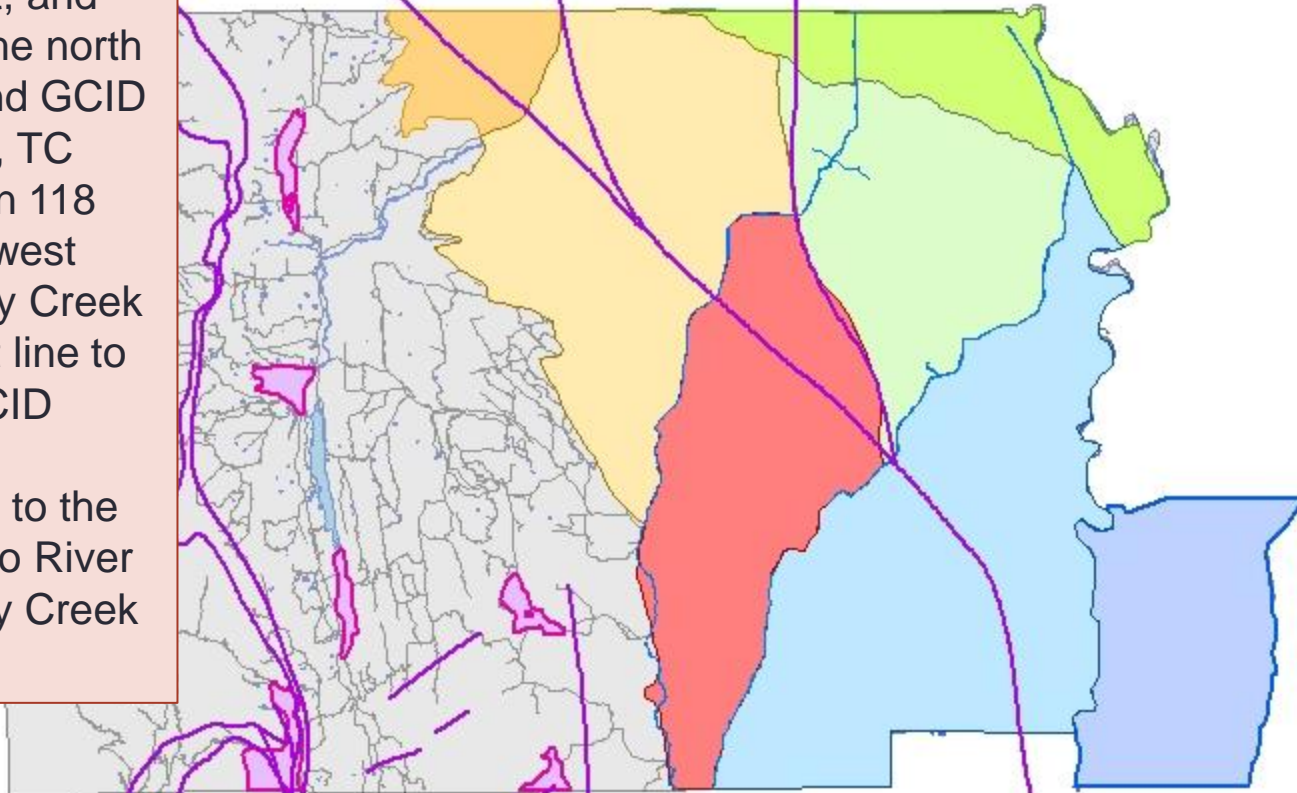
November 13, 2014

Potential Priority of Considerations for Basin Boundary Recommendations

- DWR's Bulletin 118 Groundwater Basins— **High**
 - Sacramento River and Stony Creek
 - Soils
- Canals— **High**
- Fault lines-- **Medium**
- Land use-- **Medium**
- Density of wells-domestic/ag-- **Medium**
- Watersheds-- **Low**
- Potential groundwater sustainability legislation— **High**

Colusa Basin Divisions:

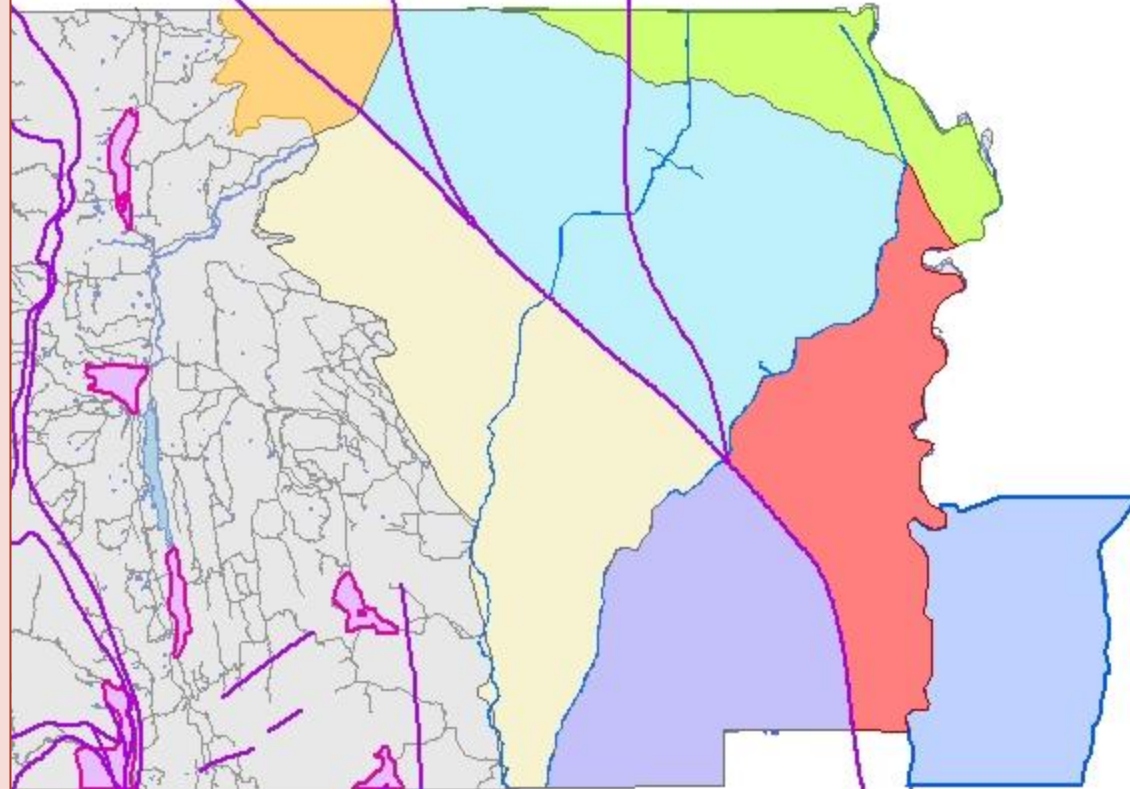
- Yellow-Bulletin 118 boundary on the west, the fault line and the TC Canal to the east, and Stony Creek to the north
- Red-Fault line and GCID canal to the east, TC canal and Bulletin 118 boundary to the west
- Light green-Stony Creek to the north, fault line to the west, and GCID canal to the east
- Blue-GCID canal to the west, Sacramento River to the east, Stony Creek to the north



Recommendation 4

Colusa Basin Divisions:

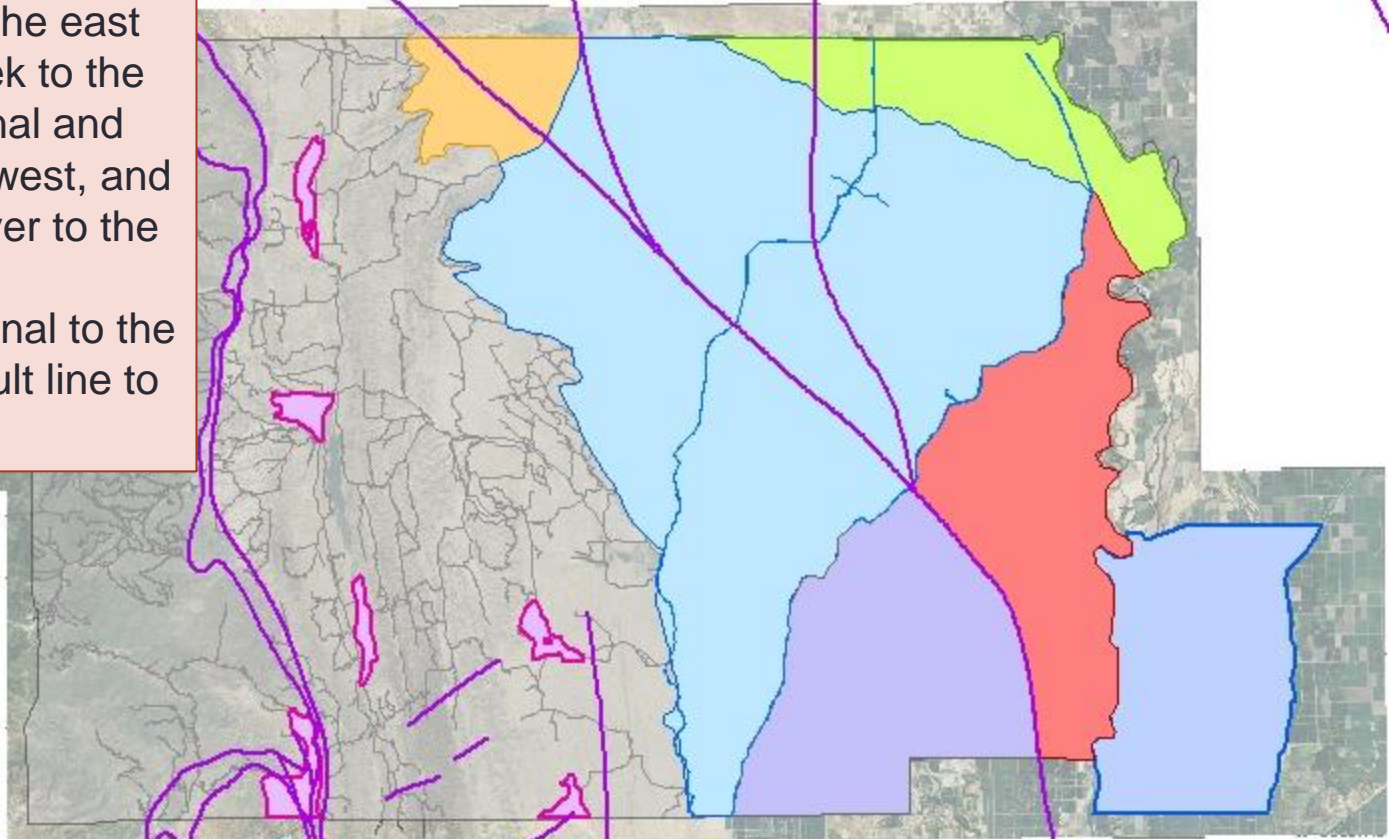
- Yellow-Bulletin 118 boundary on the west, the fault line to the north, and the GCID Canal to the east
- Blue-Fault line to the south, Stony Creek to the north, and GCID canal to the east, and Bulletin 118 boundary to the west
- Red-Stony Creek to the north, GCID canal and fault line to the west, and Sacramento River to the east
- Purple-GCID canal to the west and the fault line to the east



Recommendation 5

Colusa Basin Divisions:

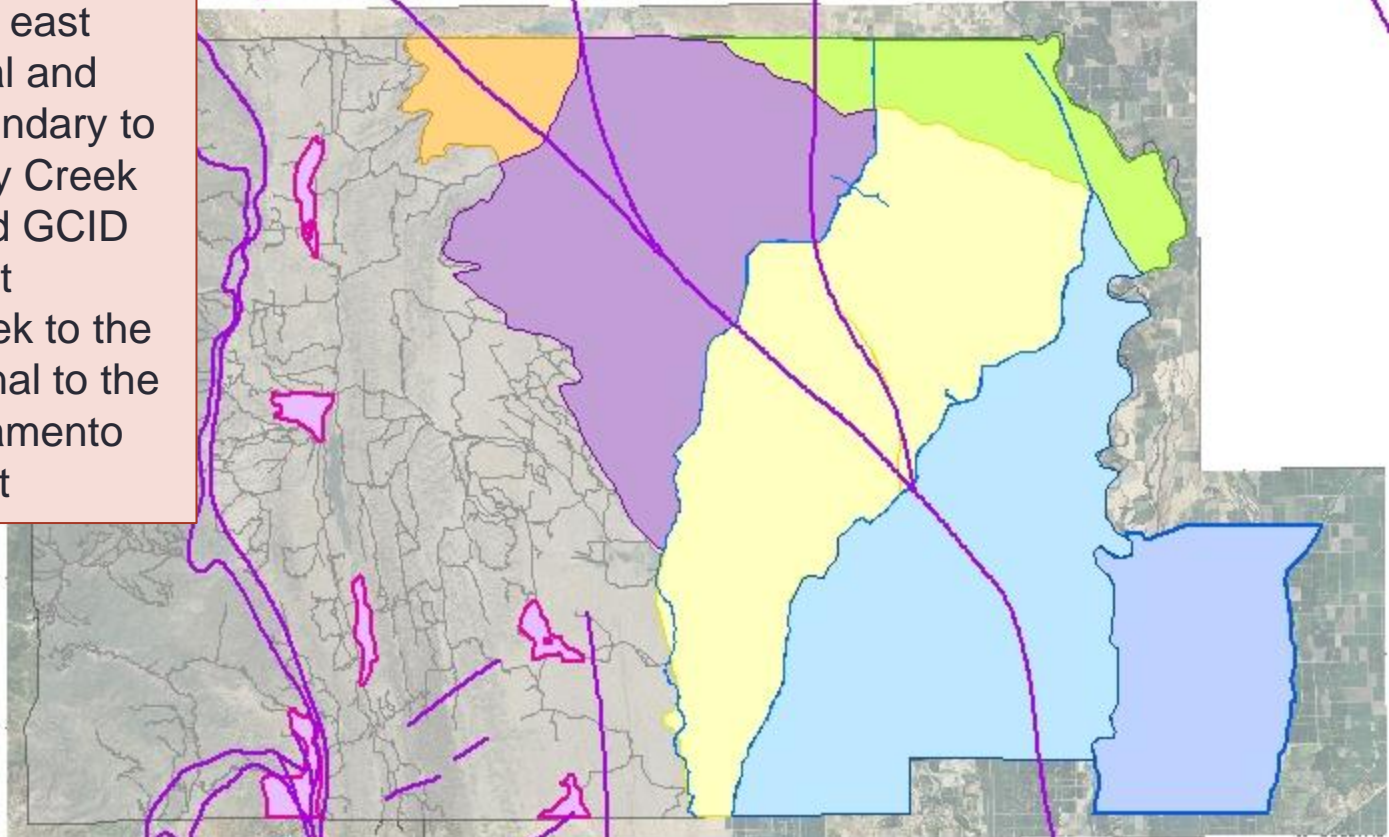
- Blue-Bulletin 118 boundary on the west and to the north, and the GCID Canal to the east
- Red-Stony Creek to the north, GCID canal and fault line to the west, and Sacramento River to the east
- Purple-GCID canal to the west and the fault line to the east



Recommendation 6

Colusa Basin Divisions:

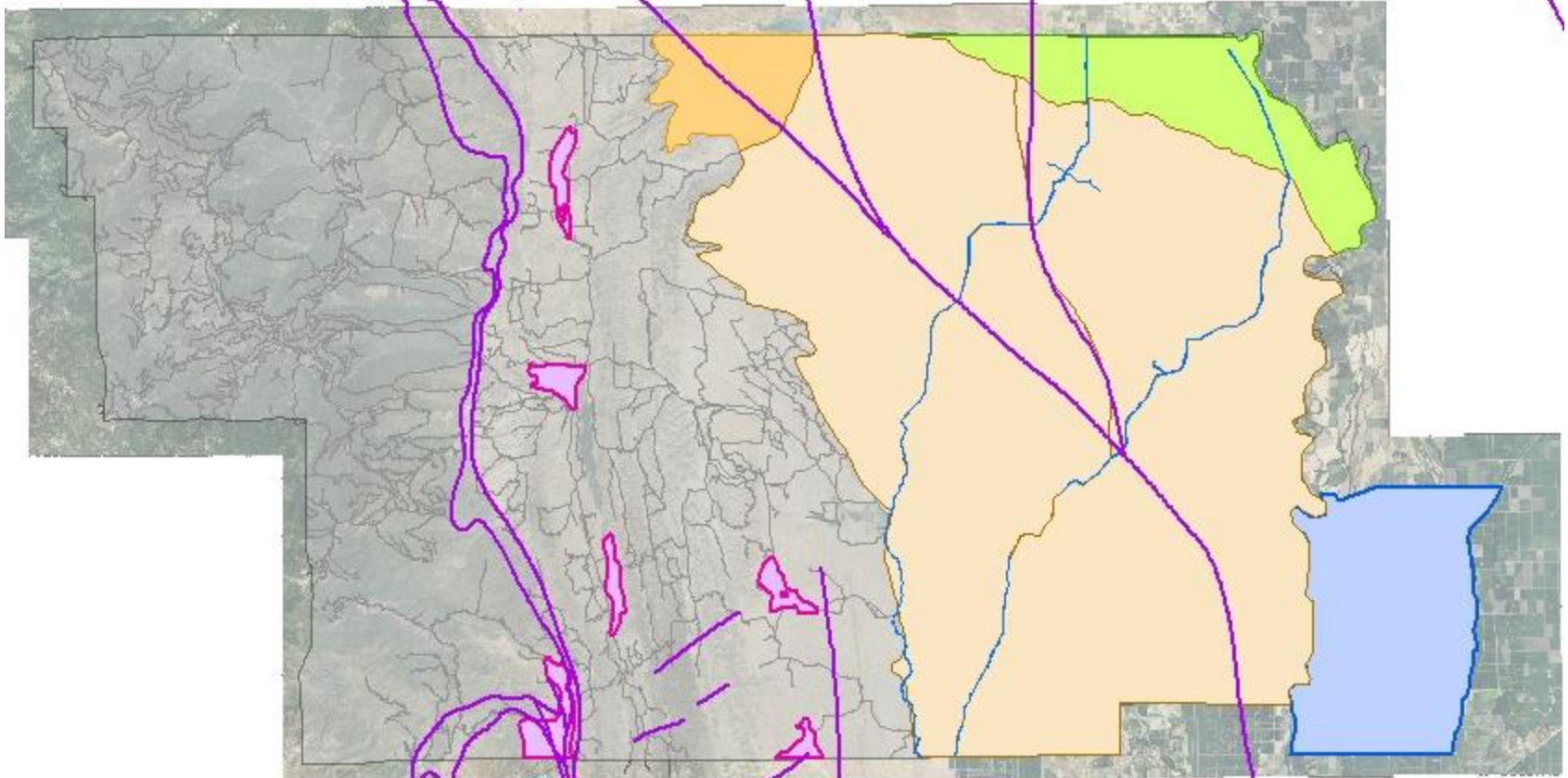
- Purple-Bulletin 118 boundary on the west and to the north, and the TC Canal to the east
- Yellow-TC Canal and Bulletin 118 boundary to the West, Stony Creek to the north, and GCID canal to the east
- Blue-Stony Creek to the north, GCID canal to the west, and Sacramento River to the east



Recommendation 7

Colusa Basin Divisions:

- Yellow-Bulletin 118 boundary (No division)



Recommendation 8

STAGE ALERT

Definitions, Actions, Enforcement

Stage Alert Definitions

- How many stage alert levels are necessary? Currently 3
- Period of Record: Entire record of well or specific timeframe (1976-2014)
- Season: Spring or Fall, Both
- Measurements: Average or Low
- Determination: 1 standard deviation below the average of spring measurements (stage 1), or 2 standard deviations below the average of spring measurements (stage 2 & 3)

Stage Alert Actions (Compliance)

- Stage 1: **Informational**- report WAC and notify the public
- Stage 2: **Informational**-report to WAC and public;
Investigational- WAC direct TAC to investigate, determine possible cause, recommend how to address. TAC present to WAC in a timely manner.
- Stage 3: **Informational**-report to WAC and public;
Investigational-WAC direct TAC to investigate, determine possible cause, recommend how to address. TAC present to WAC in a timely manner; **Actionable**-WAC to work with local and adjoining BMO areas, implement adaptive management activities necessary to correct issue.

Adaptive Management

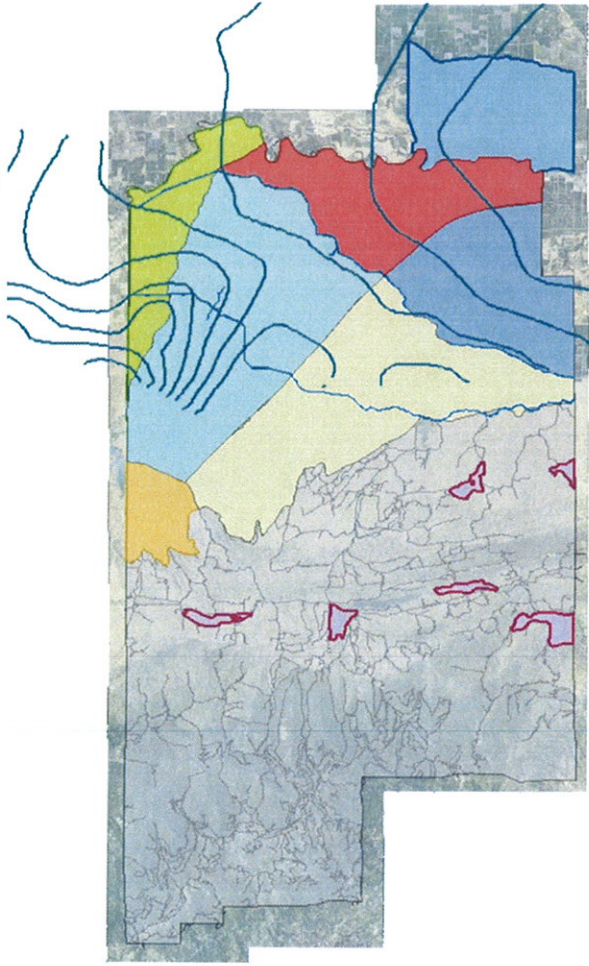
- Adaptive Management shall include, but not limited to: voluntary water conservation measures, redistribution or reduction of groundwater extraction, and/or other measures(s) referred to or identified in Ordinance 1115 as recommended by the WAC and approved by the BOS.

When to Rescind the Stage Alert

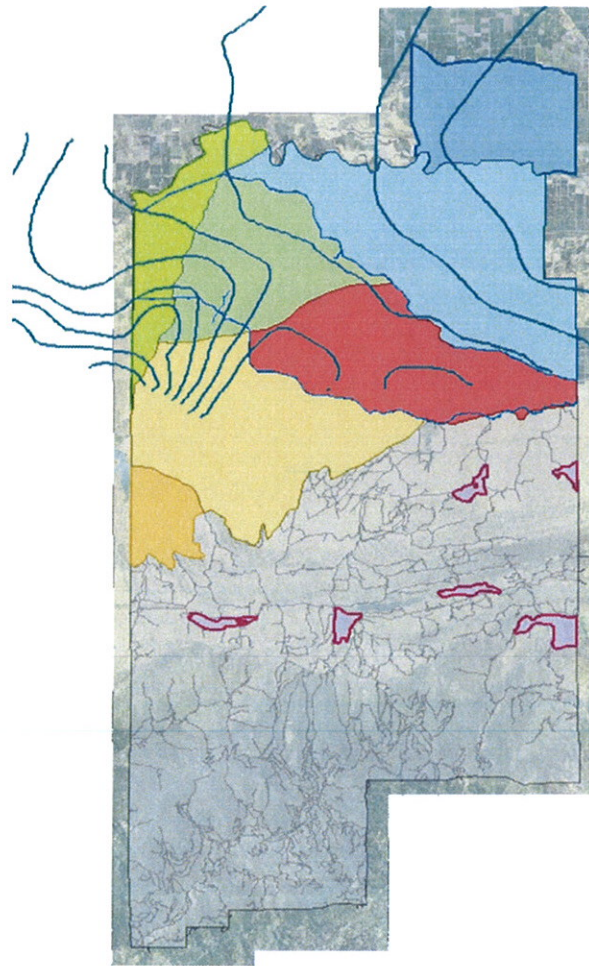
- Stage 1,2, and 3 shall be rescinded when measured groundwater surface elevations return to an elevation above 1 standard deviation for the corresponding BMO key well

Enforcement Actions

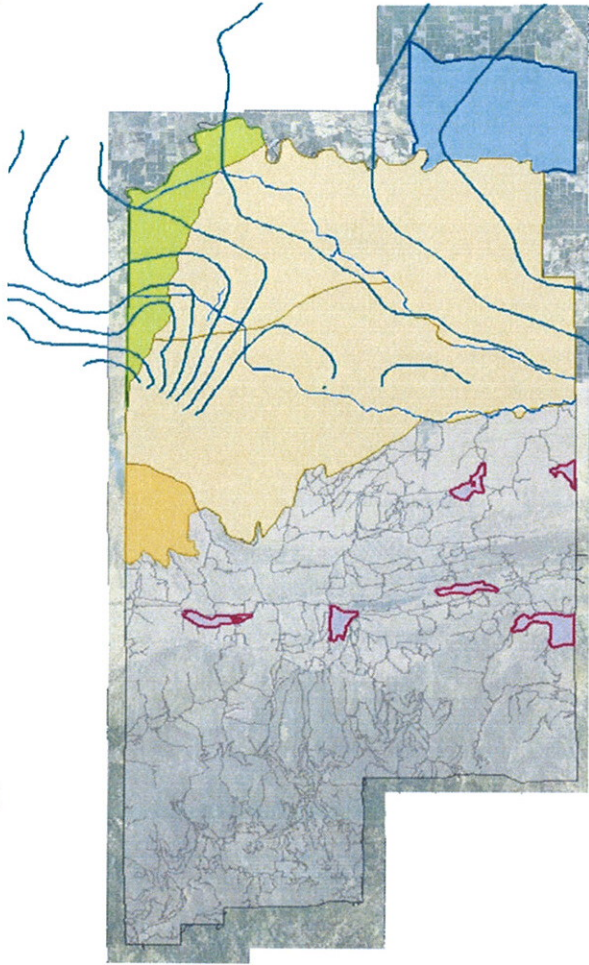
- Adaptive management-should it be more specific?



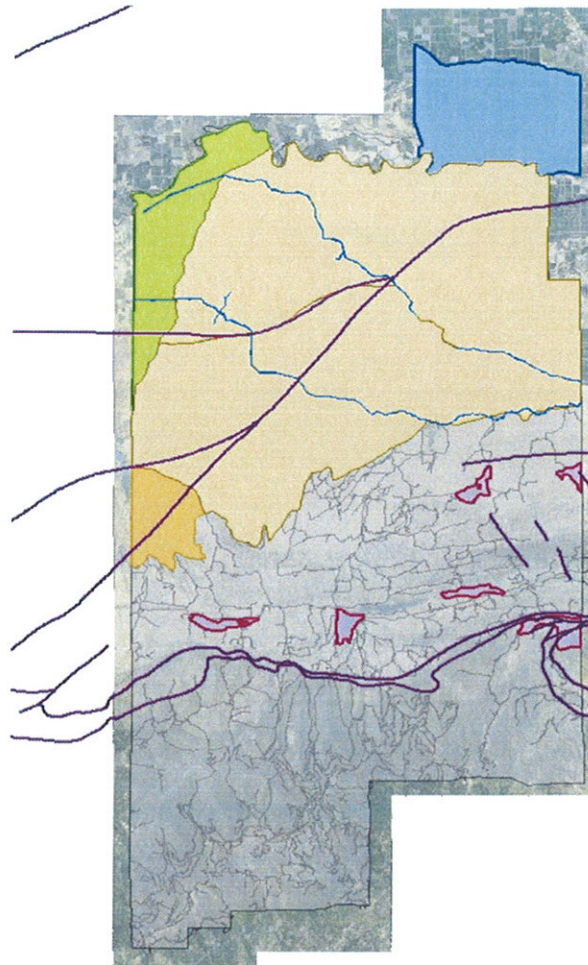
Recommendation 5



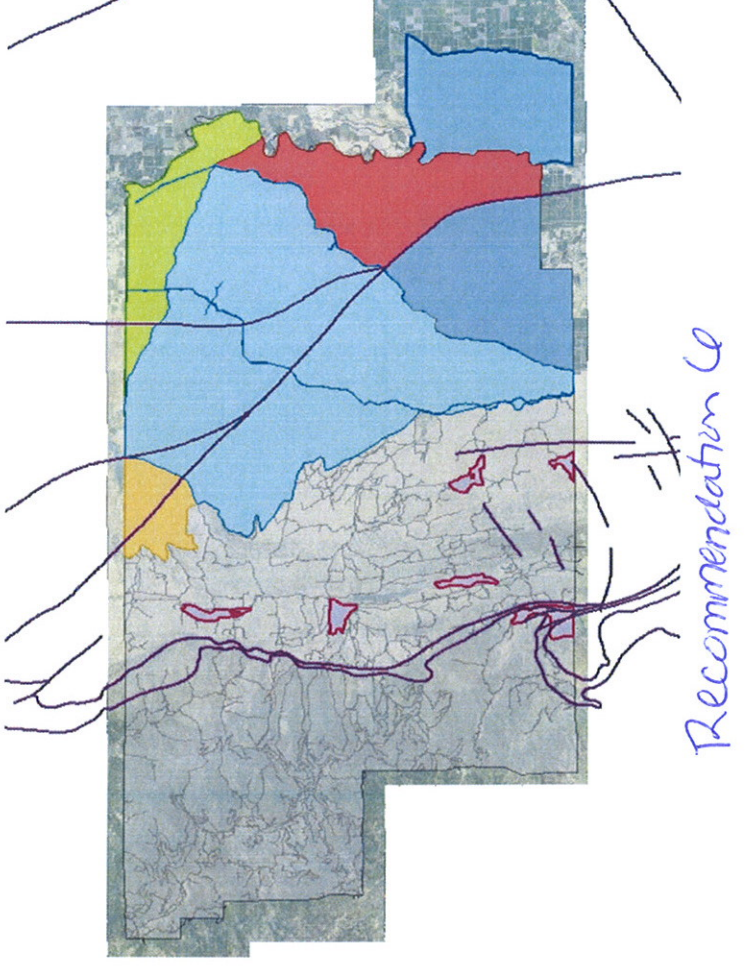
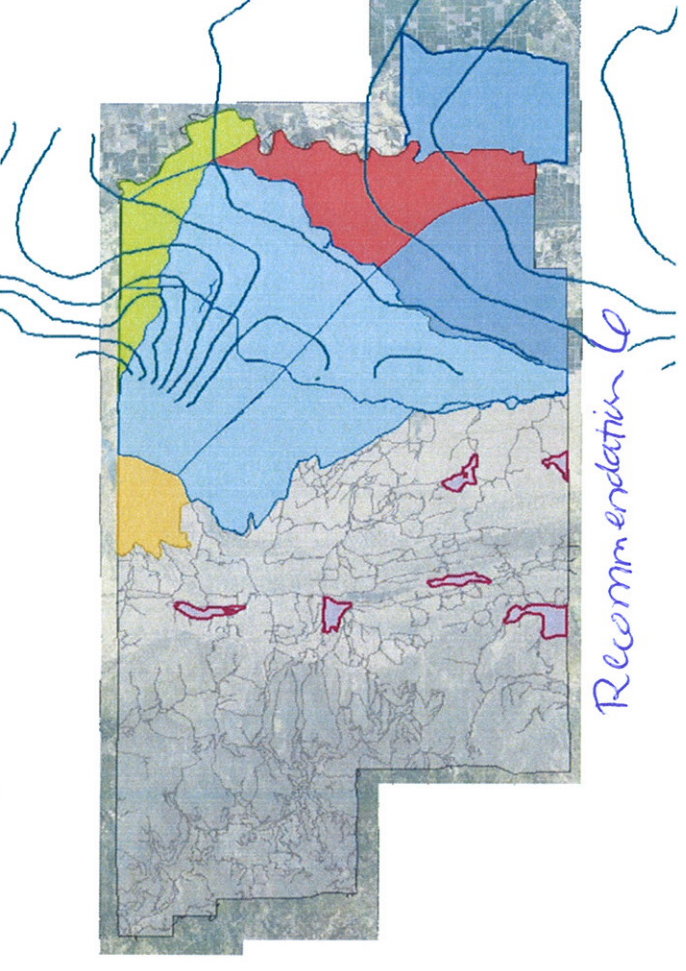
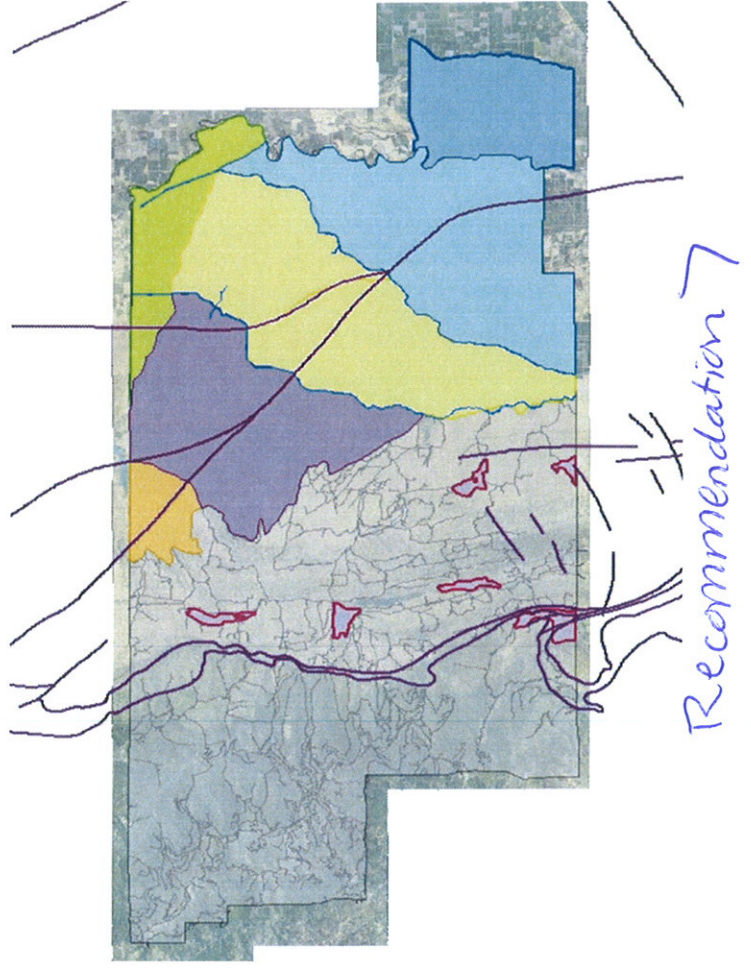
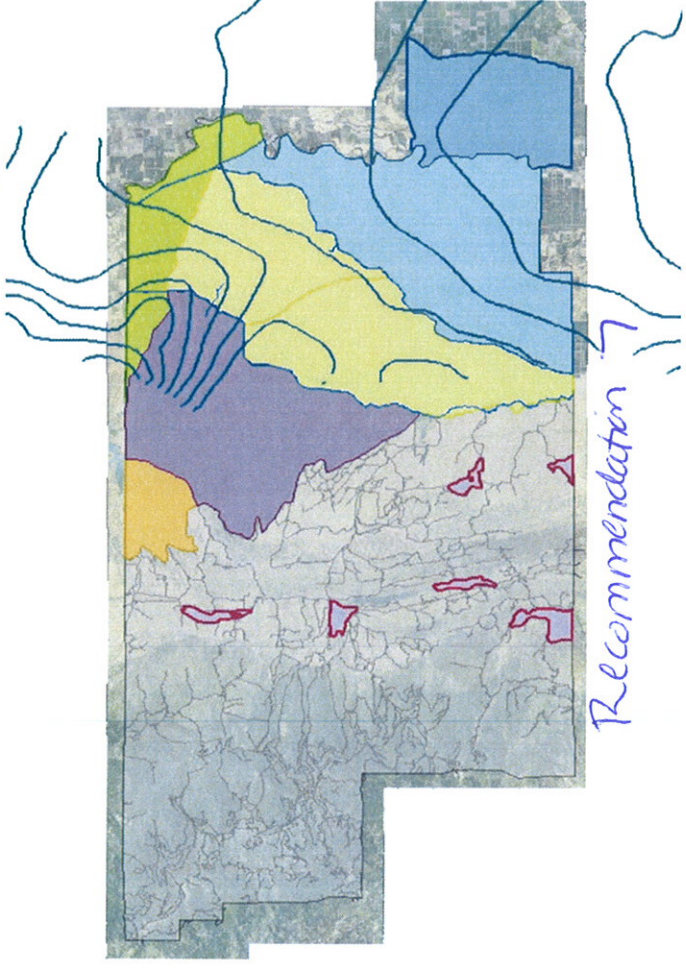
Recommendation 4



Recommendation 8



Recommendation 8



Currently on website

Investigations and Studies

The Water Advisory Committee and its Technical Advisory Committee have developed a procedure for all water users in the county to register what is called an “Report of Abnormal Groundwater Level” for the purposes of determining its cause. The process begins when a report is received through the county Department of Agriculture. The Technical Advisory Committee (TAC) then prepares an initial investigative report and notifies the local sub-area WAC representative and the area TAC representative. Local groundwater information is assembled and committee representatives make a site visit, collect and assemble additional data, and prepare and present their findings and recommendations to the Water Advisory Committee for action.

Investigation of abnormal groundwater levels and other groundwater studies help to gain understanding of the aquifer system underlying the county and may lead to better management of the resource.

[REPORT OF ABNORMAL GROUNDWATER LEVEL RESPONSE PROCESS](#)

[REPORT OF ABNORMAL GROUNDWATER FORM](#)

[LOHSE WELL INVESTIGATION- PRELIMINARY](#)

[LOHSE WELL INVESTIGATION- FINAL REPORT](#)

[LASSEN LAND - INITIAL RESPONSE](#)

[LASSEN LAND - FINAL REPORT](#)

REPORT OF ABNORMAL GROUNDWATER LEVEL

Glenn County Ground Water Technical Advisory Committee
P.O. Box 351, Willows, CA 95988
(530) 934-6501

In accordance with Chapter 20.03 of the Glenn County Code, the following report is submitted:

REPORTED BY: (Name) _____ TELEPHONE NUMBER: _____

ADDRESS or P.O. Box No.: _____ CITY: _____ STATE: _____ ZIP: _____

Well Location: Sec. _____ Rng. _____ Twp. _____

Distance and direction to nearest road(s): _____

Basin Management sub-area: _____

Depth to water: _____ Date measured: _____ Static Measurement: YES ___ NO ___

Depth of well: _____ Size and type of casing: _____

Gallons per minute: _____ Percentage of change in gallons per minute: _____

Give a brief description of the problem: _____

I give the Committee authorization to review my well log and run necessary well tests. YES ___ NO ___

I declare under penalty of perjury that the above is true and correct to the best of my knowledge and belief.

Signature: _____ Date: _____



Water Advisory Committee

720 North Colusa Street, P. O. Box 351, Willows, CA 95988
Phone: 530-934-6501 Fax: 530-934-6503

RESPONSE TO REPORT OF ABNORMAL GROUNDWATER LEVEL

The Glenn County Water Advisory Committee (WAC) and the Technical Advisory Committee (TAC) acknowledge receipt of your report of abnormal groundwater levels. Reasons for the occurrence of abnormal groundwater levels are not always clear, so we cannot promise an immediate solution. But we can pursue a timely investigation into the reported problem. Below is a general outline of the steps and the timeline that we will take to address your concern:

Establish Communication and Contacts

- If you are not acquainted with the WAC representative for your sub-area and the TAC member that is most familiar with your groundwater sub-area, refer to the enclosed list of representatives and their contact information. We will also forward your report of abnormal groundwater levels to them. These individuals will seek to ensure your concern is addressed in a timely manner.
- The TAC member most familiar with your area will take the lead along with the other TAC members to investigate the reported abnormal groundwater level.

Abnormal Groundwater Level, Basin Management Objectives, and Neighboring Reports

- The Basin Management Objective (BMO) for the monitoring site(s) located nearest the well in question will be reviewed with you at the time of completing your report or soon after receiving your report. This may point out whether the most recent monitoring data nearest your location suggests a likelihood of abnormal groundwater levels.
- Shortly after receiving your report, the TAC will determine whether you are located in a sub-area where the existing BMO is exceeded. If so, this will trigger a more immediate response. The Glenn County Ordinance calls for specific actions within 5 days after the non-compliance with the BMO is recognized. These actions include a recommendation from the TAC to the WAC concerning possible reasons for the non-compliance and recommended actions. This information shall also be released to the public.
- If the most recent groundwater monitoring data suggest levels are within the BMO for that sub-area, but other reports of abnormal groundwater levels are received within the same proximity this may warrant re-evaluation of the existing BMO and establishment of increased groundwater monitoring. A response in this scenario will require more time, ranging from perhaps as little as a month to a year or more. It may also require your cooperation to monitor groundwater levels and pump flows as part of an investigation into your report of an abnormal groundwater level.

Legal claim of harm

Filing a report of abnormal groundwater level is intended to assist the Glenn County Board of Supervisors, the Water Advisory Committee, and the Technical Water Advisory Committee understand the complex groundwater conditions to the fullest extent possible as they seek to ensure the resource is protected and managed. By filing this report, we hope to resolve sensitive groundwater issues as they arise through an improved understanding of the conditions and with negotiations among affected parties. However, it is important to note that filing of a Report of Abnormal Groundwater Level does not establish a legal claim of harm nor prevent affected parties from contacting each other directly.

10-28-02

Representing: BOS District 3 Private Pumps; BOS District 5 Private Pumps; City of Orland, City of Willows; East Coming Basin Private Pumps; Glenn County Farm Bureau; Glenn County Supervisors; Glenn-Colusa Irrigation District; Glide Water District; Kanawha Water District, Orland-Artois Water District, Orland Unit Water Users Assn., Princeton-Codora-Glenn Irrigation District, Provident Irrigation District; Reclamation District No. 1004; Reclamation District No. 2106; Resource Conservation District; Stony Creek Water District; West Colusa Basin Private Pumps; West Coming Basin Private Pumps; Western Canal Water District; Willow Creek Mutual Water Company.