

Prop 1 and Prop 68 SGWP Grant Progress Report

Grantee Name: Colusa Groundwater Authority
Grant Agreement No.: 46-00012655
Progress Report No.: 14
Reporting Period: 2022 Q14 – January 1, 2022 – March 31, 2022
Prepared: April 30, 2022

Project or Component #1: Grant Administration

Completion Checklist	Completed?
Narrative Description	<input checked="" type="checkbox"/>
Appendix A – Status of Required Deliverables	<input checked="" type="checkbox"/>
Appendix B – Stakeholder Outreach & Coordination Documentation	<input checked="" type="checkbox"/>
Appendix C – GSP Development Activities	<input checked="" type="checkbox"/>
Appendix D – Project Photographs	<input checked="" type="checkbox"/>
Appendix E – Invoice Projections	<input checked="" type="checkbox"/>

Narrative Description(s)

1. Project or Component Description

The Project encompasses all of the activities associated with the planning, development and preparation of one or more GSP(s) for the Colusa Subbasin of the Sacramento Valley Groundwater Basin (5-021.52). The completed GSP will comply with and meet the requirements of DWR’s GSP regulations. The GSP project will be prepared and implemented by the two Groundwater Sustainability Agencies (GSAs) that have been formed in the subbasin: the Colusa Groundwater Authority (CGA) (representing agencies and landowners in Colusa County), and the Glenn Groundwater Authority (GGA) (representing agencies and landowners in Glenn County). The Colusa Groundwater Authority is the grant administrator. The CGA and GGA are equal partners in this endeavor.

2. Project Progress

Budget Category (a): Grant Administration

During this reporting period, CGA Staff, in coordination with GGA Staff and the DWR Grant Administrator, completed the thirteenth quarterly report and quarterly invoices (Prop. 1 and Prop. 68) for this project.

Updates on All Tasks (activities accomplished during the reporting period)

- Milestones or Deliverables Completed/Submitted
 - The thirteenth Quarterly Report (October 1-December 31, 2021) was completed and submitted
 - The Quarterly Invoices for Proposition 1 and Proposition 68 were completed and submitted
 - 5th Amendment was submitted to DWR in March 2022 to update end dates of Contract areas to better align with completion of the Well Monitoring Pilot Program, to extend the timeline to expend remaining funds on outreach, and to extend the timeline for various administrative tasks to complete the grant administration.

- Impediments to Completion of Task
 - None
- Describe activities that negatively or positively impacted the schedule and/or budget
 - A Grant Amendment (the 5th Amendment) was requested during this reporting period to extend the end date of Category (a) to 8/31/2022 to accommodate shifts in other task schedules.

Budget Category (b): Stakeholder Outreach and Education

During this reporting period, CGA Staff, GGA Staff and the Consultant Team participated in periodic project update phone meetings.

Appendix B contains presentations from GSA Board and Technical Advisory Committee (TAC) meetings that contain information about the progress of stakeholder outreach and education. The CGA and GGA each hold regular Board meetings, TAC meetings, and standing subcommittee meetings which are open to the public and interested stakeholders are encouraged to attend. CGA and GGA Member Agencies also hold public Board meetings where SGMA-related updates are provided. Public comments may be made at all of these meetings. GSA Staff and the Consultant Team provided updates on SGMA-related work that was funded under this grant at various venues during this reporting period. Grant funding is not used for the GSA Board meetings, Member Agency Board meetings, or the Staff updates at various venues, but these activities are all relevant to the overall project.

A summary of the first GSP Annual Report and current groundwater conditions in the Colusa Subbasin was presented at the following public meetings:

- CGA/GGA Joint TAC Meeting: March 11, 2022
- GGA Board Meeting: March 16, 2022
- CGA Board Meeting: March 22, 2022

Additional public outreach to present the first GSP Annual Report and current groundwater conditions is planned for the next reporting period.

Other public outreach activities during this reporting period include:

- Development of a press release to announce the successful adoption and submittal of the Colusa Subbasin GSP in January 2022.
- Preparation and distribution of promotional materials advertising the second round solicitation for the Well Monitoring Pilot Program. Promotional materials were distributed through social media (<https://www.facebook.com/ColusaSubbasin>), the CGA/GGA websites, and through email distribution lists.
- Presentation on funding and financing planning for GSP implementation at a CGA/GGA Joint Board Meeting on March 10, 2022.
- Distribution and solicitation of public comments on the first GSP Annual Report during March 2022. Notification of the first GSP Annual Report was made through the GSA websites and email distribution lists.
- Comments and stakeholder input were formally tracked and addressed in a comment log.

Updates on All Tasks (activities accomplished during the reporting period)

- Milestones or Deliverables Completed/Submitted

Public outreach and presentations on grant-funded activities were provided at the following meetings. All meetings listed were open to the public. Available meeting materials are provided in **Appendix B**.

 - 3/10/2022 CGA/GGA Joint Board Meeting (presentation on funding and financing planning for GSP implementation)
 - 3/11/2022 CGA/GGA Joint TAC Meeting (presentation on the first GSP Annual Report and current groundwater conditions)
 - 3/16/2022 GGA Board Meeting (presentation on the first GSP Annual Report and current groundwater conditions)
 - 3/22/2022 CGA Board Meeting (presentation on the first GSP Annual Report and current groundwater conditions)

- Impediments to Completion of Task
 - None

- Describe activities that negatively or positively impacted the schedule and/or budget.
 - Outreach expenses during the GSP development process were less than initially planned. A Grant Amendment (the 5th Amendment) was requested during this reporting period to extend the timeline for expending the outreach budget. Further public outreach and education is planned during the next reporting period to share information on the first GSP Annual Report and on current groundwater conditions in the Colusa Subbasin.

Budget Category (c): GSP Development and Annual Report

Appendix B contains presentations from GSA Board and TAC meetings that contain information about the progress of the Colusa Subbasin GSP and the first GSP Annual Report.

Coordination

During this reporting period, CGA Staff, GGA Staff and the Consultant team participated in periodic project update phone meetings. Over the course of this project, these meetings have been scheduled every two weeks or as needed.

Interbasin Coordination

The Consultant Team and GSA Staff participated in the Northern California Water Association (NCWA) interbasin coordination meeting to discuss coordinated monitoring between subbasins, coordinated approaches to GSP Annual Report development, and interbasin groundwater management efforts after GSP submittal.

Public Outreach

In February-March 2022, the Consultant Team and GSA Staff prepared and distributed promotional materials advertising the second round solicitation for the Well Monitoring Pilot Program (described below). The Consultant Team and GSA Staff also prepared a press release to announce the successful adoption and submittal of the Colusa Subbasin GSP.

Additional public outreach was conducted during GGA and CGA Board meetings and the CGA and GGA Joint TAC meeting in March 2022 that were open to and attended by members of the public. At each meeting, the Consultant Team and GSA Staff provided an overview of the first GSP Annual Report and provided an overview of current groundwater conditions in the Colusa Subbasin since GSP adoption. Additional public outreach to present the first GSP Annual Report and current groundwater conditions is planned for the next reporting period.

GSP Document Preparation

Following public input and GSA Board discussions in December 2021, the final GSP was approved by both the CGA Board of Directors and the GGA Board of Directors. In January 2022, the Consultant Team and GSA Staff uploaded the final GSP document and all required supporting materials to DWR through the SGMA online portal. The adopted GSP and all required supporting materials were submitted to DWR on January 28, 2022, before the January 31, 2022, deadline.

Annual Report

Work on the first GSP Annual Report started in January 2022 and was completed in March 2022. The Consultant Team completed analyses of water supply, water use, and groundwater conditions in the Colusa Subbasin between the end of the GSP historical water budget period (2015) and the previous water year (2021). The Consultant Team also prepared a complete draft version of the Annual Report, including a summary of these analyses, updates on groundwater monitoring, and updates on projects, management actions, and other GSP implementation activities since GSP development. The draft Annual Report was distributed to the GSA Boards, the GSA TACs, and members of the public for review on March 22. A summary of the draft Annual Report was also presented at a CGA/GGA Joint TAC meeting on March 11, a GGA Board meeting on March 16, and a CGA Board meeting on March 22. All comments received on the Annual Report were added to a comment log and were reviewed by the Consultant Team, in consultation with GSA Staff. The Consultant Team prepared the final Annual Report with consideration of the comments received in late March. The Annual Report was submitted to DWR by the April 1, 2022, deadline.

Funding and Financing Planning

In January-March 2022, the Consultant Team worked to develop a presentation for the CGA and GGA Boards to prompt discussion of funding and financing planning for GSP implementation. The goal of the presentation was to provide an overview of GSP implementation costs, the finance plan development process, and various options and examples that the GSAs may consider for assigning and covering costs. The presentation was given at a CGA/GGA Joint Board meeting on March 10, 2022.

Hydrogeologic Investigation

In January-March 2022, the Consultant Team, in consultation with GSA Staff, continued work on a strategic planning document that will guide implementation of many technical studies and planning

efforts identified in the GSP that would fill data gaps and support future refinements of the GSP. This strategic planning document, referred to as the Hydrogeologic Investigation, will provide background information on the data gaps identified in the GSP, and then identify specific measurable actions that can be completed to improve monitoring and address those data gaps. The Hydrogeologic Investigation will be organized to facilitate future grant applications to potentially fund those efforts. Development of the Hydrogeologic Investigation is being funded through the same grant that has supported other GSP development work. The Hydrogeologic Investigation will be completed during the next reporting period.

Additional Subsidence Benchmarks

In March 2022, the Consultant Team, in consultation with GSA Staff, continued work to identify new subsidence benchmark sites and began planning to procure and install the benchmarks. Planning and prioritization of new sites is coinciding with completion of the Hydrogeologic Investigation (described above), and is expected to focus on areas near critical infrastructure and where recent subsidence rates have increased most significantly, including the Arbuckle-College City area in Colusa County and the Orland-Artois area in Glenn County. Input from the GSAs, DWR, Colusa Subbasin stakeholders, and members of the public are also being considered. Installation of the new subsidence benchmarks is anticipated to occur during the next reporting period.

Data Management System

In January-March 2022, the Consultant Team and GSA Staff resumed discussions of the draft task outline for the recommended DMS work and discussed synergies with the Annual Report work. The Consultant Team began updating the existing DMS to support the Annual Report work, and prepared a revised task outline for efforts to support migration to a final DMS. The Consultant Team and GSA Staff have also begun discussions of an upcoming workshop and demonstration of the existing DMS platform with GSA Staff.

Updates on All Tasks (activities accomplished during the reporting period)

- Milestones or Deliverables Completed/Submitted
 - The final, adopted Colusa Subbasin GSP was submitted to DWR through the SGMA portal on January 28, 2022. [SGMA Groundwater Management \(SGMA\) Portal - Department of Water Resources \(ca.gov\)](https://www.sgma.ca.gov/)
 - The draft first GSP Annual Report was prepared in January-March 2022, and was distributed to the GSA Boards, the GSA TACs, and members of the public for review in March 2022.
 - The final first GSP Annual Report was submitted to DWR by the April 1, 2022, deadline.
 - Planning and public outreach continued and four public presentations were given in March 2022 to discuss funding and financing plans for GSP implementation, the first GSP Annual Report, and current groundwater conditions in the Colusa Subbasin.
 - A presentation on funding and financing planning for GSP implementation was prepared and delivered to the CGA and GGA Boards in March 2022.
- Impediments to Completion of Task
 - None
- Describe activities that negatively or positively impacted the schedule and/or budget.
 - None

Budget Category (d): Monitoring/Assessment

In January 2022, the Consultant Team and GSA Staff resumed planning for an expansion of the Well Monitoring Pilot Program. In February-March 2022, new applicants and new sites were solicited for the Well Monitoring Pilot Program by email and social media. Following selection of new sites in April 2022, it is expected that all new sites will be enrolled in the program and monitoring equipment will be procured and installed during the next reporting period.

Updates on All Tasks (activities accomplished during the reporting period)

- Milestones or Deliverables Completed/Submitted
 - Public outreach was conducted by email and social media to solicit new sites to enroll in the Well Monitoring Pilot Program.

- Impediments to Completion of Task
 - None

- Describe activities that negatively or positively impacted the schedule and/or budget.
 - Some budget and schedule adjustments were necessary through a Grant Amendment request (the 5th Amendment) during this reporting period. Expansion of the Well Monitoring Pilot Program has led to greater expenses than initially planned for Category (d). Challenges and delays in soliciting new sites for the Well Monitoring Pilot Program and for procuring and installing monitoring equipment has also required shifts in the schedule for Category (d).

2. Major activities for next reporting period:

The next Quarterly Progress Report will cover the period of April 1-June 30, 2022. We anticipate the following activities:

- Quarterly Progress Report #14 and Prop. 1 and Prop. 68 Invoices will be completed and submitted.
- The Colusa Subbasin GSP Annual Report will be submitted to DWR via the SGMA Portal by the April 1, 2022, deadline
- The Hydrogeologic Investigation will be completed.
- The new Well Monitoring Pilot Program sites will be identified, monitoring equipment will be installed, and a final report on the data and findings from the Well Monitoring Pilot Program will be completed.
- Additional subsidence benchmark locations will be identified and benchmarks will be installed.
- A report discussing different Data Management System platform options, considerations, costs, and benefits will be completed.
- Ongoing public outreach efforts, including website updates, presentations, and updates at various agency meetings and workshops.

Appendix A

Status of Required Deliverables

TABLE 1: CATEGORY A: GRANT ADMINISTRATION				
Budget Category Work Item#	Budget Category Work Items for Review	Estimated Due Date <small>*Note new due dates</small>	% Of Work Complete	Date Submitted
1	Executed Grant Agreement and Amendment(s) (if necessary)	12/31/2021	90	10/29/2018 (Amendment 5 executed 4/7/2022)
2	Quarterly Progress Reports and invoices with all required backup documentation	10/31/2022	93 (13 of 14)	
3	Environmental Information Form	6/4/2018	100	6/4/2018
4	Draft Grant Completion Report	7/31/2022	0	
5	Final Grant Completion Report	8/31/2022	0	

TABLE 2: CATEGORY B: STAKEHOLDER OUTREACH AND COMMUNICATION				
Budget Category Work Item#	Budget Category Work Items for Review	Estimated Due Date <small>*Note new due date</small>	% Of Work Complete	Date Submitted
1	Public Outreach Plan	9/13/2021	100	1/28/2022
2	Meeting Summaries included as attachments in the Quarterly Progress Report	6/30/2022	93	

TABLE 3: CATEGORY C: GSP DEVELOPMENT				
Budget Category Work Item#	Budget Category Work Items for Review	Estimated Due Date <small>*Note new due dates</small>	% Of Work Complete	Date Submitted
c) Task 1	Data Collection and Analysis	9/13/2021	100	1/28/2022
c) Task 2	Integrated Hydrologic Modelling	9/13/2021	100	1/28/2022
c) Task 3	Monitoring Protocols	9/13/2021	100	1/28/2022
c) Task 4	Data and Reporting Standards	9/13/2021	100	1/28/2022

TABLE 3: CATEGORY C: GSP DEVELOPMENT				
Budget Category Work Item#	Budget Category Work Items for Review	Estimated Due Date *Note new due dates	% Of Work Complete	Date Submitted
c) Task 5	Data Management System	6/30/2022	80	
c) Task 6	GSP Administrative Information	9/13/2021	100	1/28/2022
c) Task 7	Basin Setting	9/13/2021	100	1/28/2022
c) Task 8	Sustainable Management Criteria	9/13/2021	100	1/28/2022
c) Task 9	Monitoring Network	9/13/2021	100	1/28/2022
c) Task 10	Projects and Management Actions	9/13/2021	100	1/28/2022
c) Task 11	Draft GSP	11/30/2021	100	1/28/2022
c) Task 12	Proof of Final GSP submittal to DWR	1/31/2022	100	1/28/2022

TABLE 4: CATEGORY D: MONITORING AND ASSESSMENT				
Budget Category Work Item#	Budget Category Work Items for Review	Estimated Due Date *Note new due date	% Of Work Complete	Date Submitted
c) Task 1	Well Monitoring Pilot Program	6/30/2022	75	

Appendix B

Stakeholder Outreach and Coordination Documentation

Agendas and presentations are attached from the following meetings:

- 3/10/2022 CGA/GGA Joint Board Meeting Agenda and Presentation (on funding and financing planning for GSP implementation)
- 3/11/2022 CGA/GGA Joint TAC Meeting Agenda and Presentation (on first GSP Annual Report and current groundwater conditions)
- 3/16/2022 GGA Board Meeting Agenda and Presentation (on first GSP Annual Report and current groundwater conditions)
- 3/22/2022 CGA Board Meeting Agenda and Presentation (on first GSP Annual Report and current groundwater conditions)
- Well Monitoring Pilot Program Round 2 Outreach and Solicitation Flyer

Joint Colusa Groundwater Authority and Glenn Groundwater Authority Board of Directors

MEETING AGENDA

March 10, 2022 | 1:00 p.m.
Sites Project Office, 122 Old Highway 99, Maxwell, CA 95955

OR

Join Online Meeting

<https://countyofcolusa.zoom.us/j/6707238820?pwd=NjFMcnJOUENuSFhtRFFtaWltejYzZz09>

+1 669 900 6833 US (San Jose)

Meeting ID: 670 723 8820

Passcode: 004212

One tap mobile

+16699006833,,6707238820#,,,,*004212# US (San Jose)

* Indicates an Action Item

1. Closed Session:

Gov't Code §54956.9 – Conference with Legal Counsel – Existing Litigation
Aqualliance, California Water Impact Network, and California Sportfishing Alliance vs. Colusa
Groundwater Authority, Glenn Groundwater Authority
Colusa County Superior Court - Case Number CV24584

2. Call to Order, Roll Call, and Introductions (CGA Board, GGA Board) (anticipated to begin at 1:30 p.m.)

3. * Consider Approval of Resolution No. 2022-03 Renewing Use of Remote Teleconference Meetings in Accordance with Government Code Section 57953(e) (CGA Board)

4. Period of Public Comment

At this time, members of the public may address the Colusa Groundwater Authority and Glenn Groundwater Authority regarding items that are not on the agenda but are of relevance. The Boards may not act on items not on the agenda.

5. Presentation: Developing a Colusa Subbasin Finance Plan

6. Presentation: Update on DWR Land Subsidence and other Groundwater Data and Tools

7. Member Reports and Comments

8. Adjourn

A complete agenda packet, including back-up information, is available for inspection during normal business hours at 1213 Market Street, Colusa, CA 95932 or 225 N. Tehama St., Willows, CA 95988. The full agenda packet can also be found on the CGA and GGA websites:

[Agendas and Minutes 2022 | Colusa Groundwater Authority \(CGA\)](#)

<https://www.countyofglenn.net/dept/planning-community-development-services/water-resources/glenn-groundwater-authority/gga>

In compliance with the Americans with Disability Act, if you require special accommodation to participate in this meeting, please contact the Colusa County Water Resources Division at 530-458-0891 or Glenn County Water Resources Division at 530-934-6540 prior to any meeting and arrangements will be made to accommodate you.



Funding and Financing Planning for GSP Implementation

Joint GSA Board Meeting

March 10, 2022 1:00 – 3:30 pm



Colusa Groundwater Authority &
Glenn Groundwater Authority

**Colusa Subbasin Groundwater
Sustainability Plan**

FINAL DRAFT REPORT – SEPTEMBER 2021



Overview

Purpose: Provide an overview of GSP costs, finance plan process, and options and examples for assigning costs

Desired Outcomes

- Review GSP cost categories and approximate GSP implementation costs (excluding PMAs)
- Provide an overview of the finance plan and fee study processes
- Present and receive feedback on options for assigning GSP implementation costs
- Define various action items needed for finance plan development


Topics

- 1. Review GSP-related costs (Duncan MacEwan)**
 - Administration
 - Implementation (Data Gaps / Studies)
 - PMAs
- 2. Finance Plan and Assigning costs (Steve Hatchett)**
- 3. Examples from other subbasins (Duncan MacEwan)**
- 4. Example options for the Colusa Subbasin (Duncan MacEwan)**
- 5. Discussion**

GSP Implementation Costs

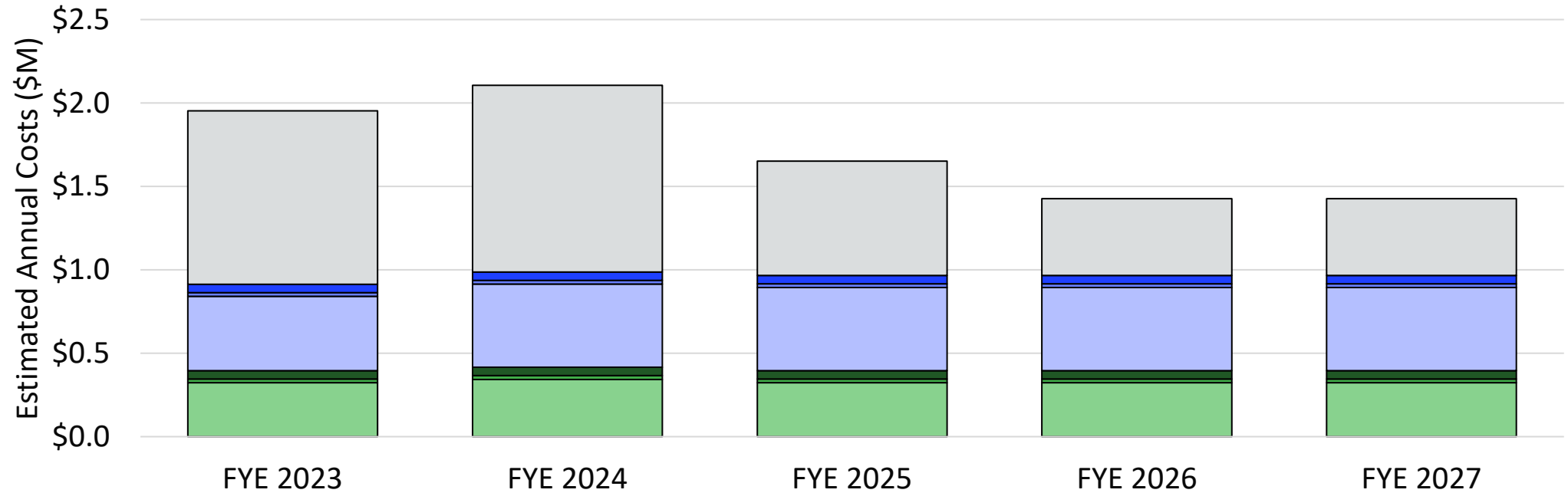
GSP Implementation Cost Summary

- Projects and Management Actions
 - Capital
 - Planning/design studies
 - Annual operations and maintenance
- Groundwater Sustainability Agencies
 - Administration (legal, staff time, coordination, monitoring, finance, etc.)
 - GSP technical studies to support GSP implementation and address data gaps
 - GSP Annual Reports (§356.2)
 - GSP 5-Year Assessments (§356.4)
 - Contingency



PMA Costs are not covered in this presentation, but remain critical for achieving SMC specified in GSP implementation

GSP Implementation Costs Summary



- CGA Administration
- CGA Contingency
- GGA Annual/5-Yr Reports
- GGA Administration
- GSP Implementation (Data Gaps / Studies)
- CGA Annual/5-Yr Reports
- GGA Contingency

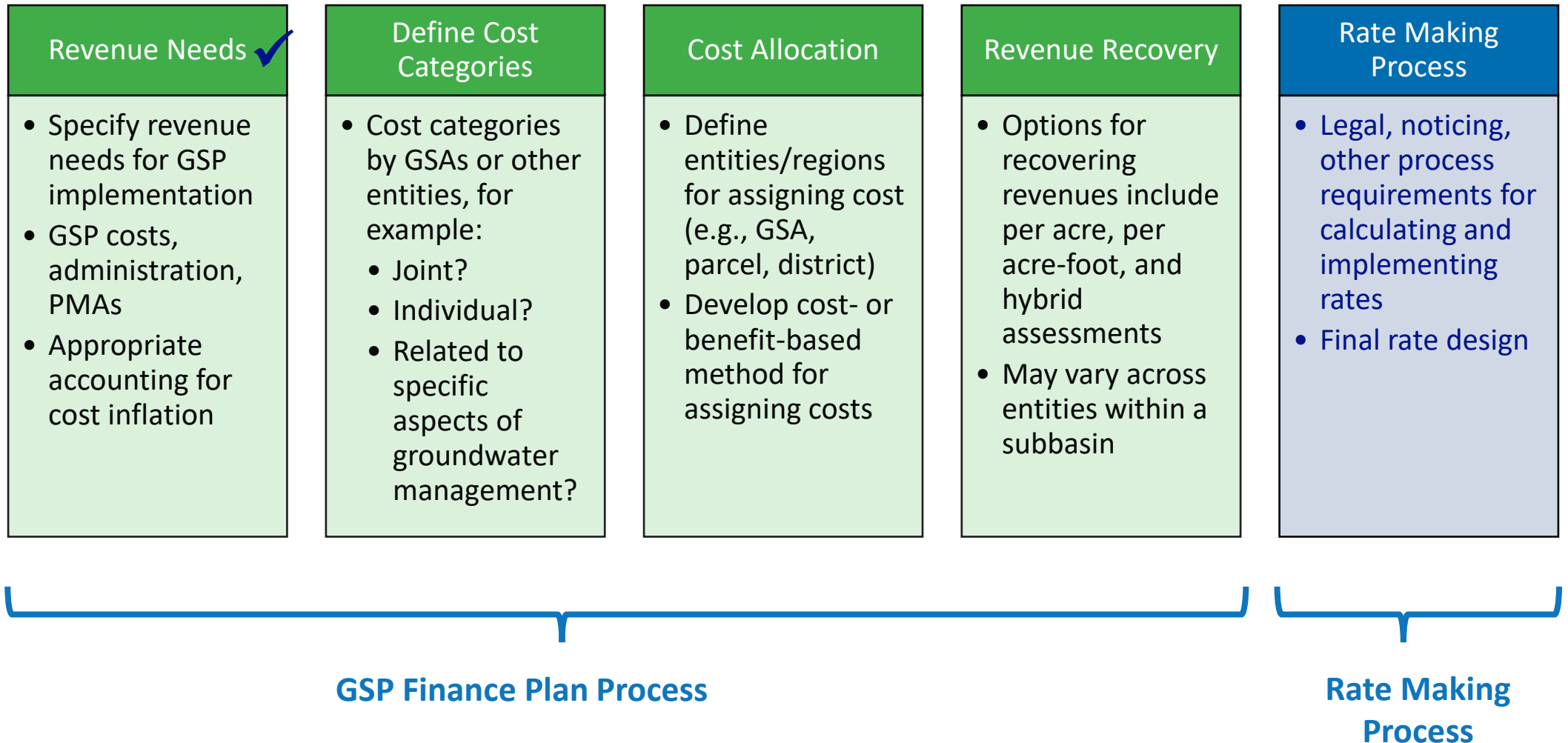
Note: Estimated costs are not indexed for inflation.

Revenue Needs Summary

- The next step in the financial plan would refine GSA revenue needs over the next 5 years and the full GSP implementation period
- This would include:
 - Refine GSP implementation costs
 - Refine GSA administrative budgets for GSP implementation
 - Consider PMAs that are critical for achieving SMCs and include in revenue needs
 - Assess potential grant funding opportunities
 - Apply an appropriate indexing for inflation for all cost line items

Finance Plan and Rate Study Process

Overview of Financial Plan and Rate Making Process



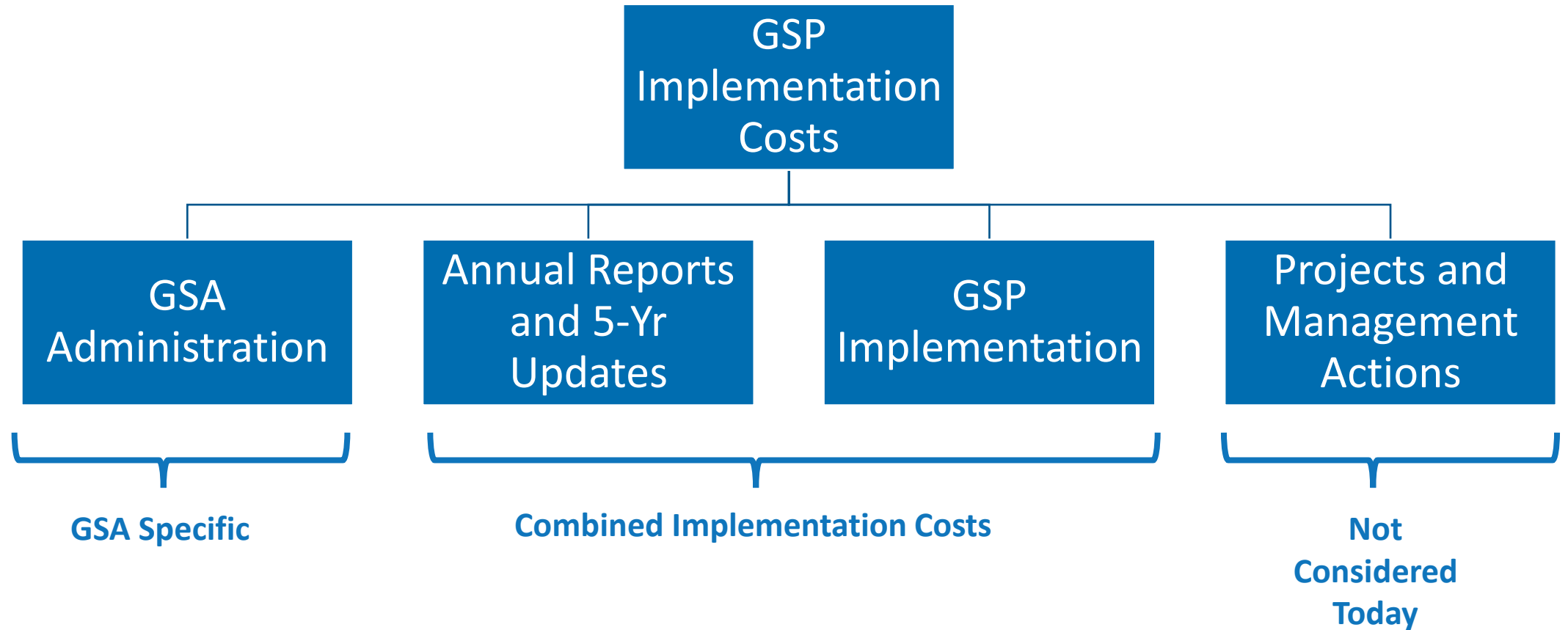
Categorizing, Assigning Responsibility, and Recovering Costs

Policy Considerations for Assigning Costs

- Cost or benefit-based fair and equitable ways to assign GSP implementation costs
 - All lands that overlie usable groundwater benefit from sustainable management
 - Proportional contribution to groundwater extraction/recharge
 - Past investments in groundwater management
 - Access to useable groundwater
 - Rural residential and never-irrigated areas
- Questions to frame these policy decisions
 - Who benefits from GSP implementation and groundwater management more broadly?
 - How are GSP Sustainable Management Criteria (SMCs) related to groundwater use and users across the subbasin?

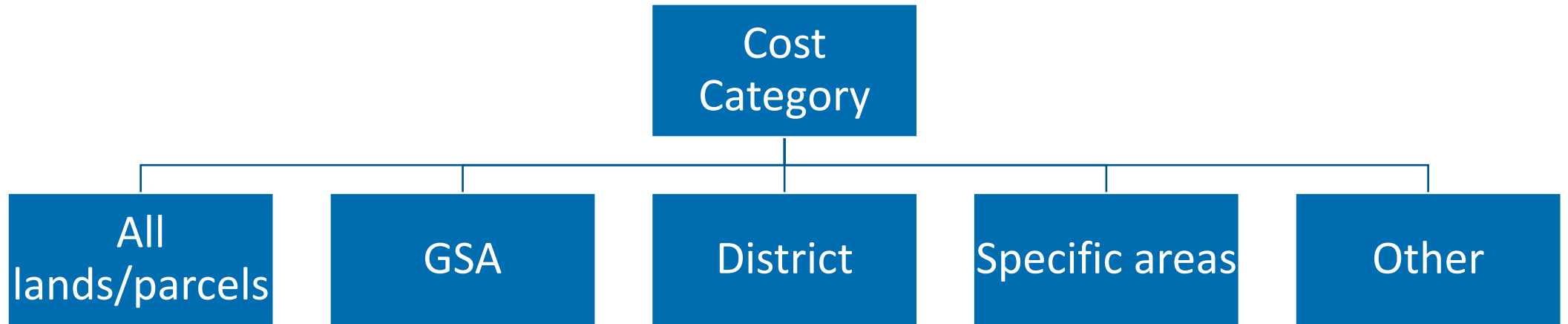
How do we categorize implementation costs?

- Cost Categories
- Cost Allocation
- Cost Recovery



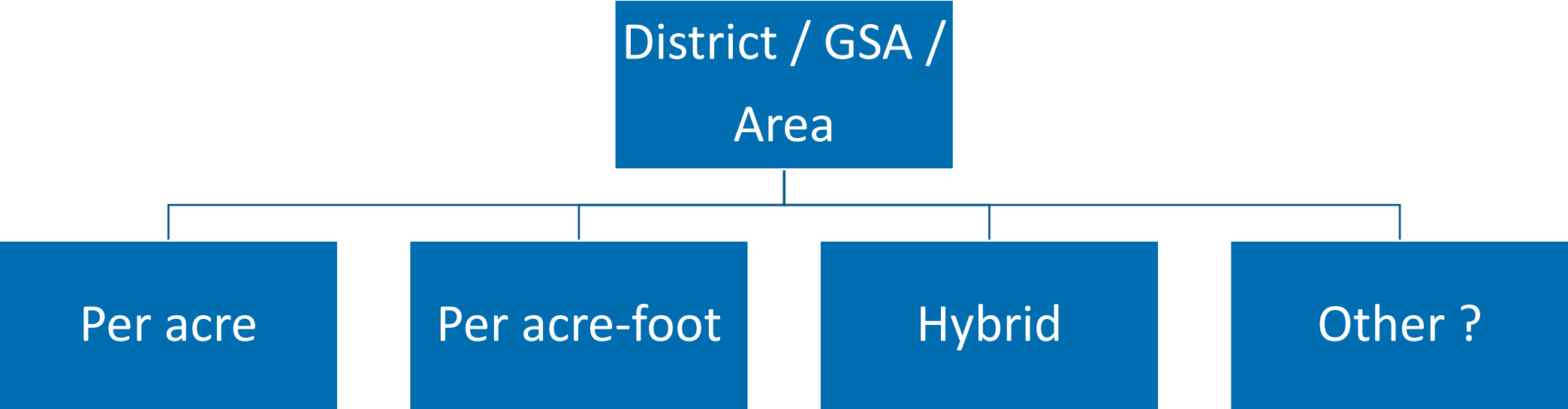
How do we assign costs in each cost category?

- Cost Categories
- Cost Allocation
- Cost Recovery



How do we recover costs?

- Cost Categories
- Cost Allocation
- Cost Recovery



Examples from Other Subbasins

Cosumnes Subbasin

- Prop 26
- Costs
 - Administration
 - PMAs (fee study, MAR, following, feasibility studies)
 - Total: \$730,000 to \$1 million per year
- Cost allocation
 - Irrigated acreage (year 1)
 - All parcels (subsequent years)
- Estimated fee
 - \$10 per irrigated acre in year 1
 - Subsequent years TBD based on total assessable acreage

Madera County GSA

- Only non-district lands in the GSA
- Prop 218
- Costs
 - Administration
 - Legal
 - PMAs (recharge, Sites, land repurposing, well mitigation)
- Cost allocation
 - Enrolled acres (eligible to receive groundwater allocation)
 - Per acre; per acre-foot and hybrid approach being considered
- Estimated fee
 - \$100 - \$200 per enrolled acre
 - Substantial costs for PMAs (non-district lands with overdraft conditions)

Solano Subbasin

- Multiple GSAs covering district and non-district lands
- Prop 218 (in development stages)
- Costs
 - Administration and implementation
 - Legal
 - Total costs ~ \$750,000 - \$1 million annually
- Cost allocation
 - Legal costs, administration, implementation
- Estimated fee range (based on total cost and number of Subbasin acres)
 - \$1 - \$5 per acre

Other Examples

Maximum Prop 218 Land Assessments			
GSA	Year	GSP Phase	Rate per Acre
Merced Subbasin GSA	2019	Development	\$4.00
East Turlock GSA	2021	Development	\$4.95
McMullin Area GSA	2018	Development	\$19.00
Madera County GSA	2021	Development	\$23.30
Rosedale Rio-Bravo	2018	Development	\$50.00
Eastern Tule GSA	2021	Development/Implementation	\$9.44
North Fork Kings GSA	2018	Development/Implementation	\$10.00
South Fork Kings GSA	2018	Development/Implementation	\$10.00
Greater Kaweah GSA	2021	Development/Implementation	\$10.00
Aliso Water District	2020	Implementation	\$13.44
Madera County GSA	2022	Implementation	~\$200.00
Rosedale Rio-Bravo	2020	Implementation	\$205.00

Note: Includes studies in progress (have not held 218 election yet)

Colusa Subbasin Examples

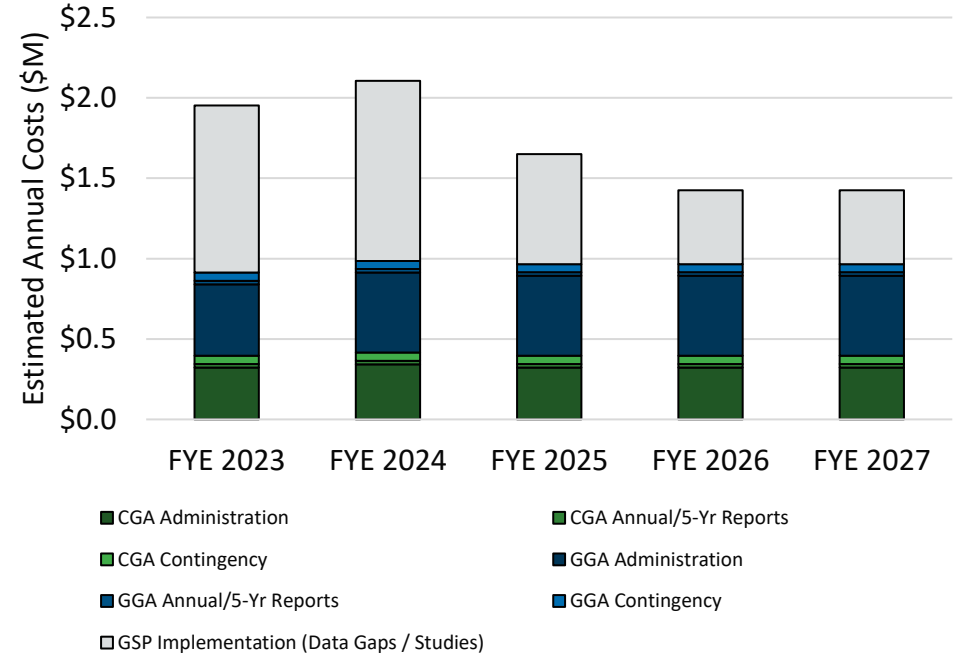
Colusa Subbasin Example: Cost Categories

- Aggregate cost categories
 - Administration
 - Implementation

- **GGA Administrative Costs**
 - Administration + contingency

- **CGA Administrative Costs**
 - Administration + contingency

- Joint **Implementation Cost**
 - GSP Implementation Data Gaps/Studies
 - GSP Annual Reports and 5-Yr Updates



Cost Allocation Examples

(1) Uniform	(2) Exclude Westside Area	(3) Total GSA Pumping	(4) Water Budget Area (WBA) Pumping	(5) WBA Pumping + Exclude Westside Area
<p>Administration</p> <ul style="list-style-type: none"> • Evenly allocate costs per acre <p>Implementation</p> <ul style="list-style-type: none"> • Evenly allocate costs per acre 	<p>Administration</p> <ul style="list-style-type: none"> • Evenly allocate costs per acre <p>Implementation</p> <ul style="list-style-type: none"> • Exclude westside area lands 	<p>Administration</p> <ul style="list-style-type: none"> • Evenly allocate costs per acre <p>Implementation</p> <ul style="list-style-type: none"> • Allocate costs to each GSA in proportion to historical GSA GW pumping 	<p>Administration</p> <ul style="list-style-type: none"> • Evenly allocate costs per acre <p>Implementation</p> <ul style="list-style-type: none"> • Allocate costs to each WBA in proportion to historical WBA GW pumping 	<p>Administration</p> <ul style="list-style-type: none"> • Evenly allocate costs per acre <p>Implementation</p> <ul style="list-style-type: none"> • Allocate costs to each WBA in proportion to historical WBA GW pumping • Exclude westside area lands

Note: these examples are potential options for consideration and discussion purposes, and not an exhaustive list of options.

Example 1: Uniform Allocation

- Administration
 - Assigned to GGA and CGA and then allocated evenly per acre
- Implementation
 - Allocated evenly per acre
- Acreage in these examples includes all lands (irrigated and non-irrigated) less federal and tribal areas

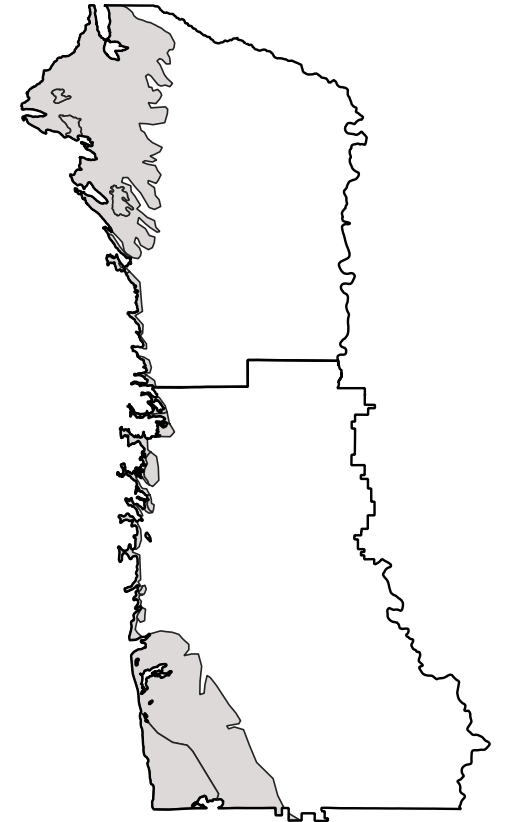
	Colusa GA	Glenn GA
Gross Acres	403,350	297,576
<i>Fees (\$/acre)</i>		
Administration	\$0.92	\$1.81
Implementation	\$1.14	\$1.14
Per Acre Fee	\$2.06	\$2.95

Draft preliminary for discussion purposes using aggregate GSP data. Values will be refined as part of financial plan and rate study.

Example 2: Exclude Westside Area from Implementation Costs

- Administration
 - Assigned to GGA and CGA and then allocated evenly per acre
- Implementation
 - Allocated evenly per acre, excluding westside areas

	Colusa GA	Glenn GA
Westside Area Acres	57,155	67,087
Other Areas Acres	346,195	230,489
<i>Fees (\$/acre)</i>		
Westside Areas		
Administration	\$0.92	\$1.81
Implementation	-	-
Per Acre Fee	\$0.92	\$1.81
Other Areas		
Administration	\$0.92	\$1.81
Implementation	\$1.37	\$1.40
Per Acre Fee	\$2.29	\$3.21



Draft preliminary for discussion purposes using aggregate GSP data. Values will be refined as part of financial plan and rate study.

Example 3: Allocate Implementation Costs by GSA GW Pumping

- Administration
 - Assigned to GGA and CGA and then allocated evenly per acre
- Implementation
 - Allocated to GSAs by share of total GSP estimated groundwater pumping

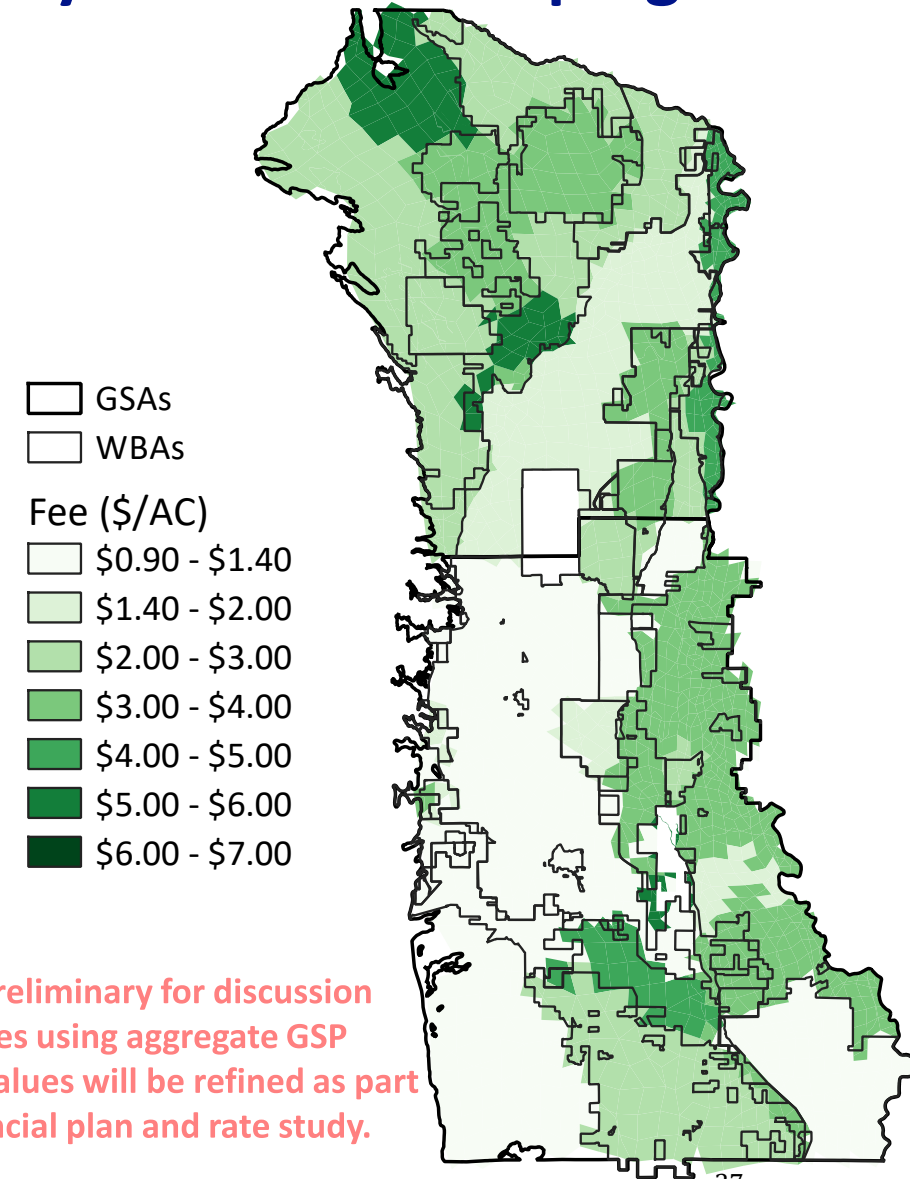
	Colusa GA	Glenn GA
Gross Acres	403,350	297,576
GW Pumping	271,290	228,490
	(54%)	(46%)
<i>Fees (\$/acre)</i>		
Administration	\$0.92	\$1.81
Implementation	\$1.07	\$1.23
Per Acre Fee	\$2.00	\$3.03

Draft preliminary for discussion purposes using aggregate GSP data. Values will be refined as part of financial plan and rate study.

Example 4: Allocate Implementation Costs by WBA GW Pumping

- Administration
 - Assigned to GGA and CGA and then allocated evenly per acre
- Implementation
 - Allocated to WBAs by share of total GSP estimated groundwater pumping

	Colusa GA	Glenn GA
<i>Fees (\$/acre)</i>		
Administration	\$0.92	\$1.81
Implementation	\$0.11 - \$4.42	\$0.19 - \$3.76
Per Acre Fee	\$1.04 - \$5.34	\$2.00 - \$5.57

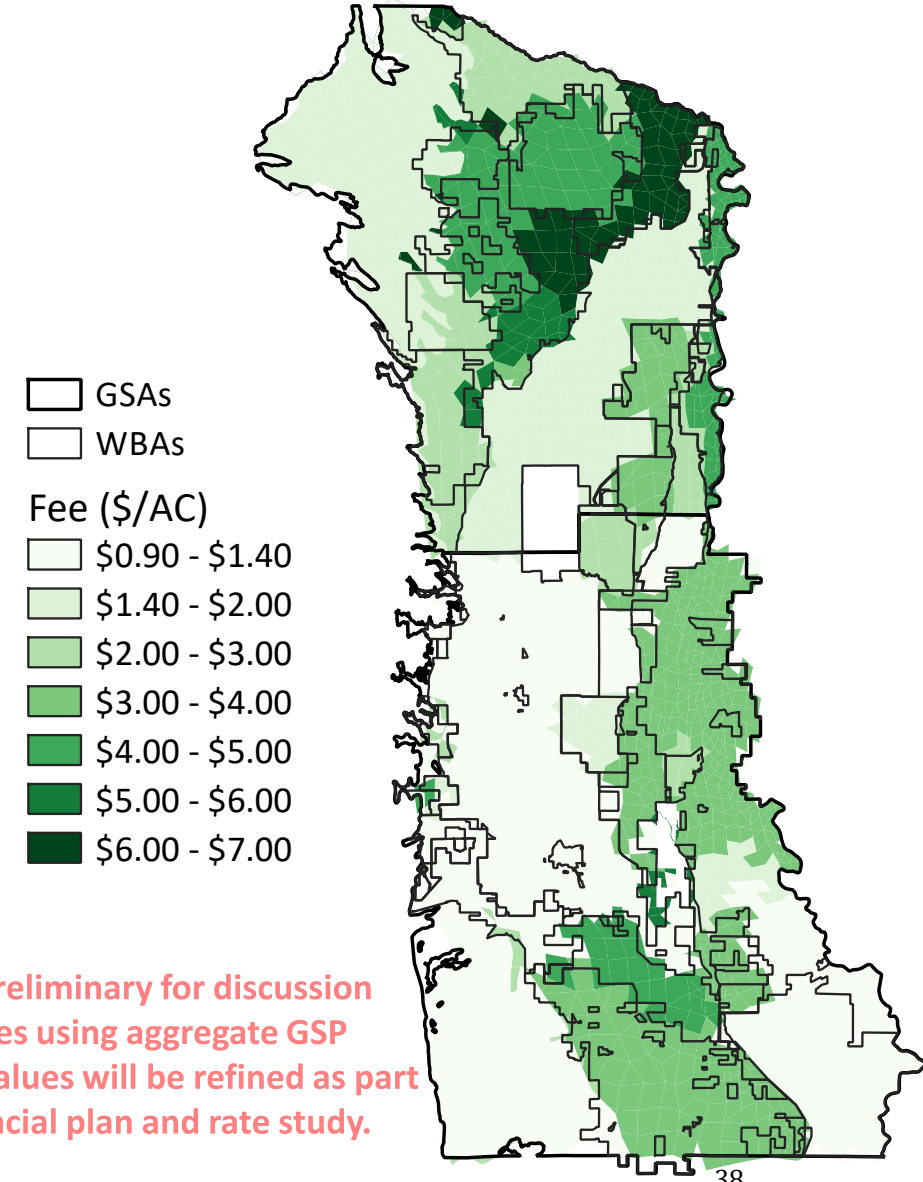


Draft preliminary for discussion purposes using aggregate GSP data. Values will be refined as part of financial plan and rate study.

Example 5: Allocate Implementation Costs by WBA GW Pumping; Exclude Westside Areas

- Administration
 - Assigned to GGA and CGA and then allocated evenly per acre
- Implementation
 - Allocated to WBAs by share of total GSP estimated groundwater pumping, excluding Westside areas

	Colusa GA	Glenn GA
<i>Fees (\$/acre)</i>		
Westside Areas		
Administration	\$0.92	\$1.81
Implementation	-	-
Per Acre Fee	\$0.92	\$1.81
Other Areas		
Administration	\$0.92	\$1.81
Implementation	\$0 - \$4.42	\$0.19 - \$4.87
Per Acre Fee	\$0.92 - \$5.34	\$2.00 - \$6.68



Draft preliminary for discussion purposes using aggregate GSP data. Values will be refined as part of financial plan and rate study.

Summary

Summary Points

- Finance plan development
 - Categorizing costs
 - Allocating costs within each category
 - Recovering revenues
- Fairness and equitability considerations
 - Examples highlight a few alternative approaches based on gross groundwater pumping
- Other considerations
 - Costs associated with cost allocation and revenue recovery options (e.g., a volumetric groundwater charge requires a way to measure groundwater use)
 - Potential measures of net groundwater pumping

Discussion

Thank you

CGA/GGA Joint Technical Advisory Committee Meeting

MEETING AGENDA

March 11, 2022 | 1:00 p.m.

Due to safety concerns and directives from the Governor and Federal Government related to COVID-19,

This meeting will be held remotely ONLY.

Join Zoom Meeting

<https://us02web.zoom.us/j/85105841033?pwd=Qmh1SHA3YldCTS9aOW9vejkwTVFaQT09>

Meeting ID: 851 0584 1033

Passcode: 056977

One tap mobile

+16699006833, 85105841033# *056977# US (San Jose)

Dial by your location

+1 669 900 6833 US (San Jose)

Or find your local number: <https://us02web.zoom.us/j/85105841033?pwd=Qmh1SHA3YldCTS9aOW9vejkwTVFaQT09>

Please see Meeting Hints and Tips at the end of the agenda.

* Indicates an Action Item

1. Call to Order, Roll Call, and Introductions

2. Approval of Minutes (CGA TAC, GGA TAC)

- a. * August 13, 2021 CGA/GGA Joint TAC Meeting

3. Period of Public Comment

At this time, members of the public may address the Technical Advisory Committee (TAC) Members regarding items that are not on the agenda but are of relevance. The TACs may not act on items not on the agenda.

4. Presentation: Review of Sustainable Management Criteria in Colusa Subbasin Groundwater Sustainability Plan

5. Presentation: Colusa Subbasin Groundwater Sustainability Plan Annual Report

6. * Approve 2022 CGA/GGA TAC Meeting Schedule

7. Member Reports and Comments

8. Adjourn

A complete agenda packet, including back-up information, is available for inspection during normal business hours at 1213 Market Street, Colusa, CA 95932 or 225 N. Tehama St., Willows, CA 95988. The full agenda packet can also be found on the CGA and GGA websites:

[Agendas and Minutes 2022 | Colusa Groundwater Authority \(CGA\)](#)

<https://www.countyofglenn.net/dept/planning-community-development-services/water-resources/glenn-groundwater-authority/gga>

In compliance with the Americans with Disability Act, if you require special accommodation to participate in this meeting, please contact the Colusa County Water Resources Division at 530-458-0891 or Glenn County Water Resources Division at 530-934-6540 prior to any meeting and arrangements will be made to accommodate you.

Remote Meeting Hints and Tips

PLEASE NOTE: For increased meeting security protections,

- All attendees will be placed into a Zoom Waiting Room at the start of the meeting. The meeting facilitator and/or technical staff will admit participants as they appear in the waiting room. To the extent possible and to minimize uncertainty of who participants in the Waiting Room are, participants are encouraged to enter their name when they enter Zoom so the meeting facilitation staff and GSA coordinators can confirm meeting participants.
- Also, as with all recent Joint TAC meetings, for memorialization purposes, this meeting will be recorded and participants will be required to agree to that in order to participate. Participants will be prompted at the start of the meeting to agree to this.

To make the upcoming meeting effective, please read all the following.

1. The process will feel “clunky”. There will be inevitable pauses, stalls, re-sets, particularly when participants want to comment, we have to vote or take a straw poll. This may be frustrating and that’s completely understandable. Please be patient as we work together in this “new normal” approach.
2. To minimize challenges, we will open the online meeting 15-20 minutes in advance. Please log in during that time so we can walk you through the set up and get you familiarized with things. You may also want to go to Zoom (the virtual meeting tool) the day before and familiarize yourself with it.
3. Regarding personal settings, it will be VERY helpful for us to know in advance if you plan to log in via a computer, smart phone, or land line.
4. Regarding the “RAISE HAND” tool. You’ll find this if you click on the “Participants” icon. When that menu opens, you’ll see the names (or phone numbers) of everyone in the meeting. At bottom of that menu, you’ll see a button that says “RAISE HAND”. We will use this feature to let the facilitator know if you want to make a comment, so it is VERY important that you familiarize yourself with this.

5. If you've joined online (rather than just through the toll free phone number), we ask that during the meeting you keep your Zoom microphone on "Mute". If you are using an organization's landline, please do NOT put your phone on "Hold".



Groundwater Sustainability Plan First Annual Report, 2022

Overview of Groundwater Conditions and Water Supply through 2021

March 11, 2022

Introductions

Grant Davids, PE

Davids Engineering

Jeff Davids, PE, PhD

Davids Engineering

Ken Loy, PG, CEG, CHG

West Yost

Katie Klug, PhD

Davids Engineering

Anna Reimer, PG

West Yost

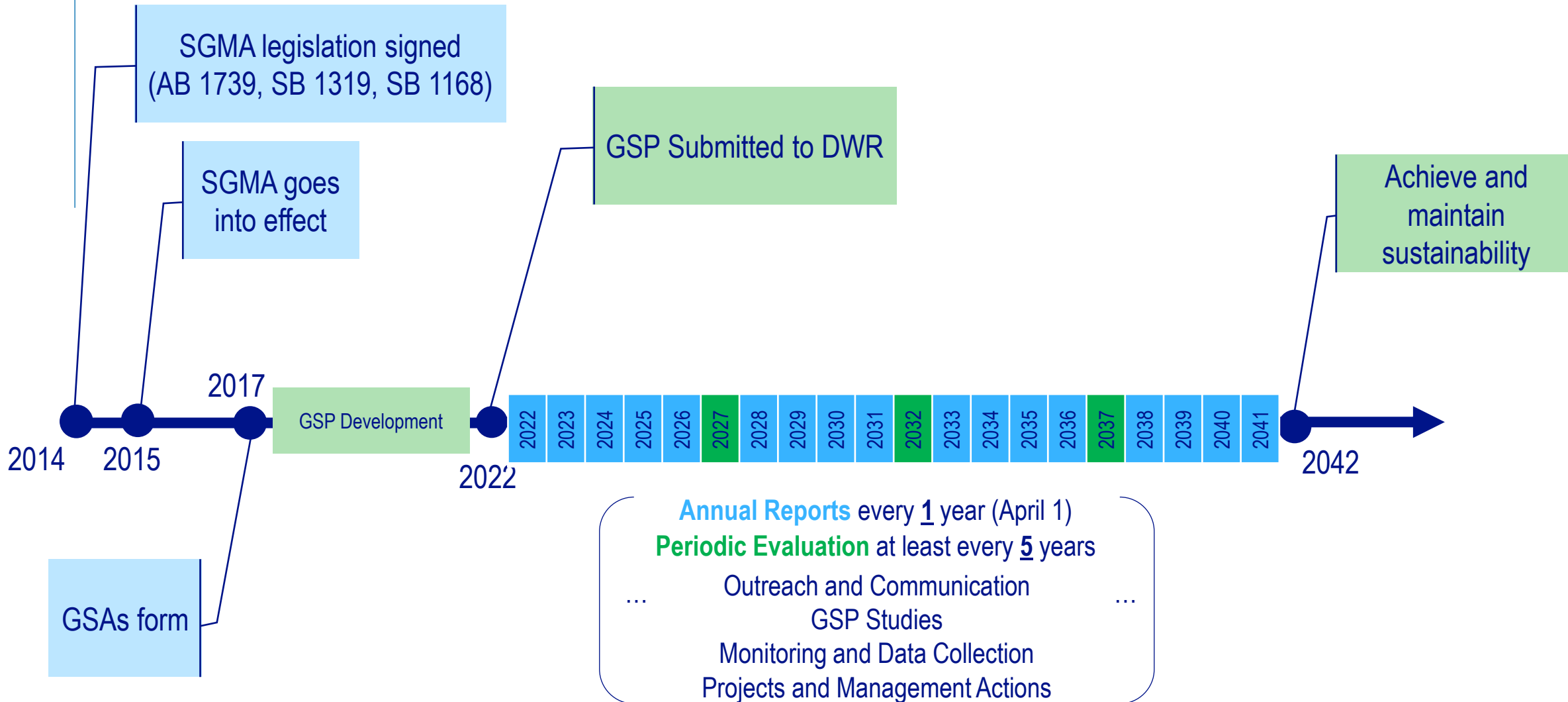
Outline

- 1. Overview**
 - Colusa Subbasin GSP
 - Annual Report Requirements
- 2. Groundwater Conditions**
 - Groundwater Levels
 - Change in Groundwater Storage
 - Subsidence
- 3. Water Supplies and Water Use**
- 4. GSP Implementation**
- 5. Questions and Answers**

Overview

Katie Klug, PhD
Davids Engineering

Colusa Subbasin GSP Implementation Schedule



Colusa Subbasin Groundwater Sustainability Plan (GSP)

The Colusa Subbasin GSP was adopted by the CGA and GGA in December 2021 and was submitted to DWR in January 2022.

GSP implementation has begun and will continue through 2042.

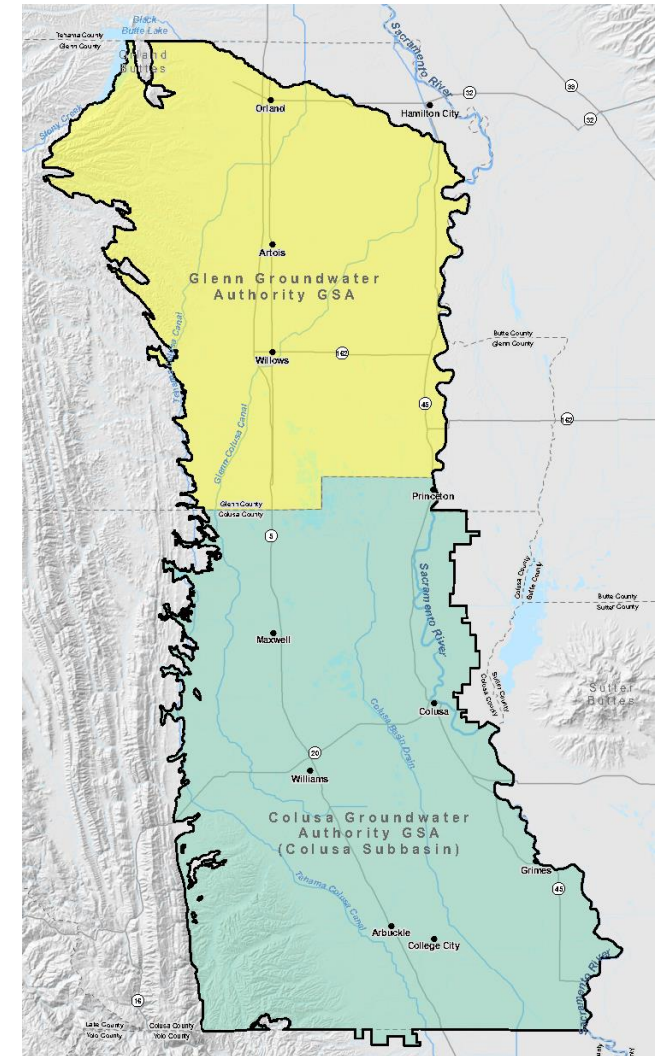
The **GSP is a dynamic planning document** that will guide how groundwater will be managed over the next two decades. **As conditions change, so too will the GSP.**

GSP describes groundwater conditions and how groundwater management will avoid adverse impacts to beneficial users, including domestic, municipal, tribal, agricultural, industrial, and environmental uses.

Avoiding adverse impacts is based on the evaluation of six Sustainability Indicators:



Note: Seawater intrusion was determined to be not applicable in the Colusa Subbasin.



Annual Report Requirements (23 CCR §356.2)

- Updates on Groundwater Conditions
 - Groundwater Elevation (Hydrographs, Contour Maps)
 - Change in Groundwater Storage
 - Progress Toward Interim Milestones
(i.e., subbasin conditions relative to the six Sustainability Indicators)



Focus of this presentation

Annual Report Requirements (23 CCR §356.2), continued...

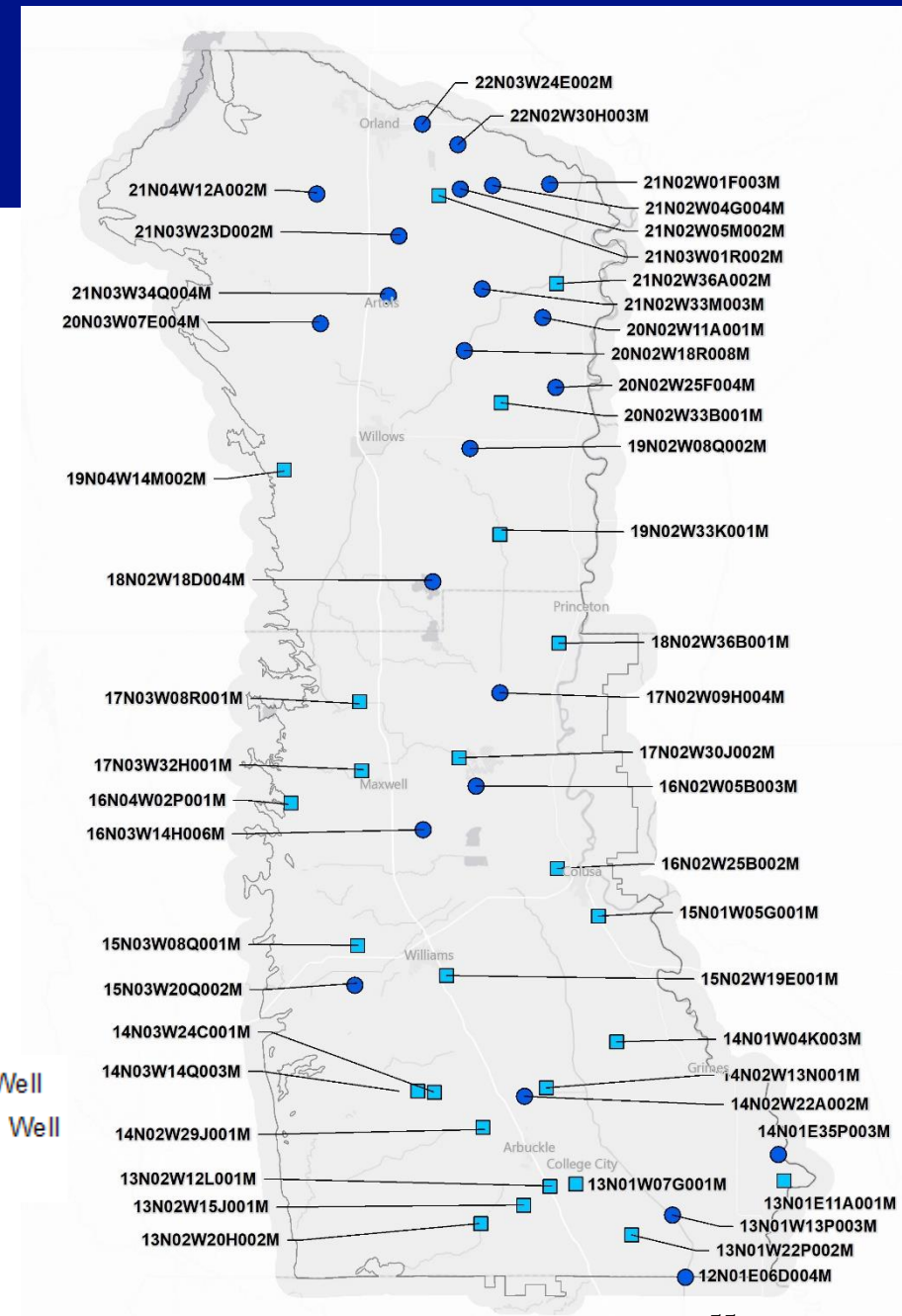
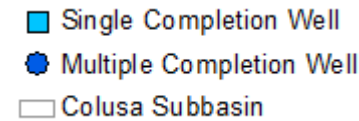
- Water Supply and Water Use
 - Groundwater Extraction
 - Surface Water Supplies
 - Total Water Use
- Progress Toward Plan Implementation
(e.g., implementation of planned projects and management actions)

Groundwater Conditions

Anna Reimer, PG
West Yost

Groundwater Elevations

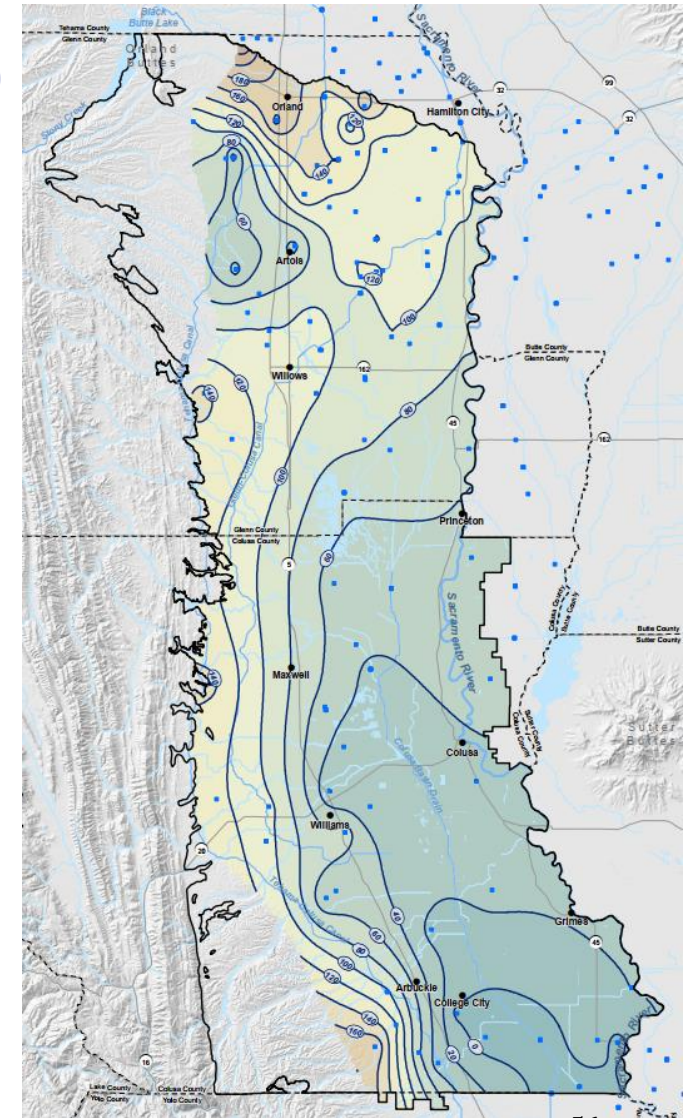
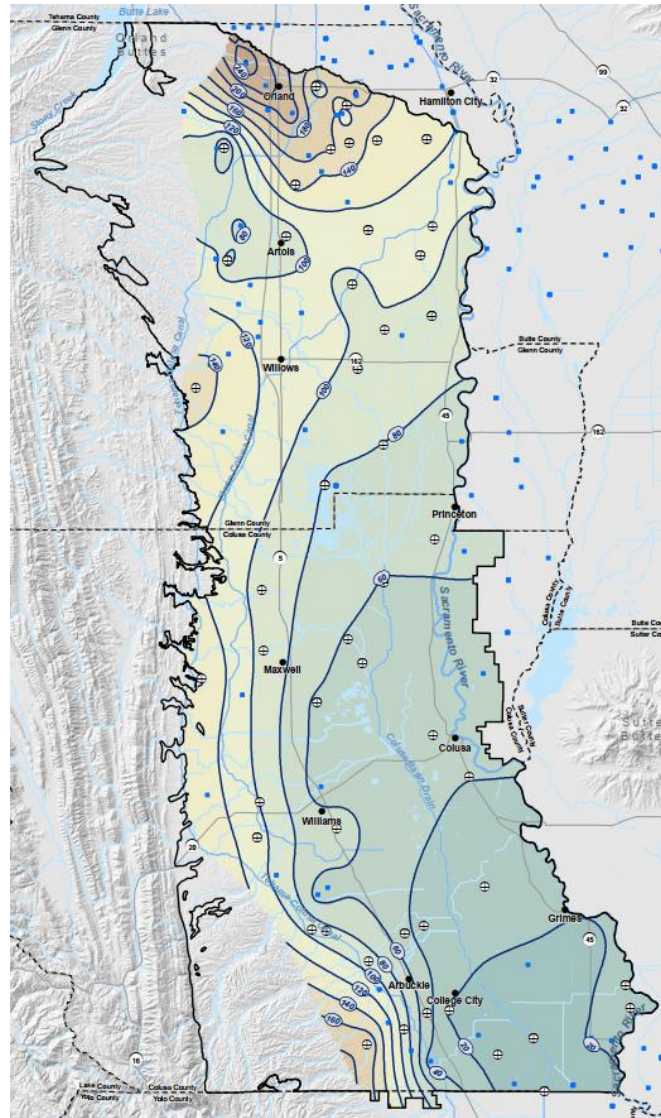
- Representative Groundwater Monitoring Network
 - 48 sites
 - Completion depths within multiple completion wells were selected based on median depth of domestic wells within the Thiessen polygon bounding each monitoring site.



2020 Groundwater Elevation Contour Maps

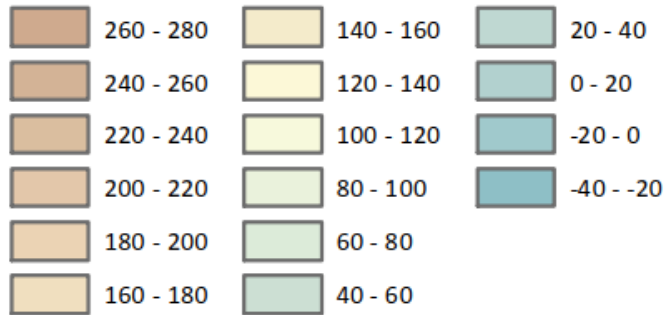
Spring 2020

Fall 2020



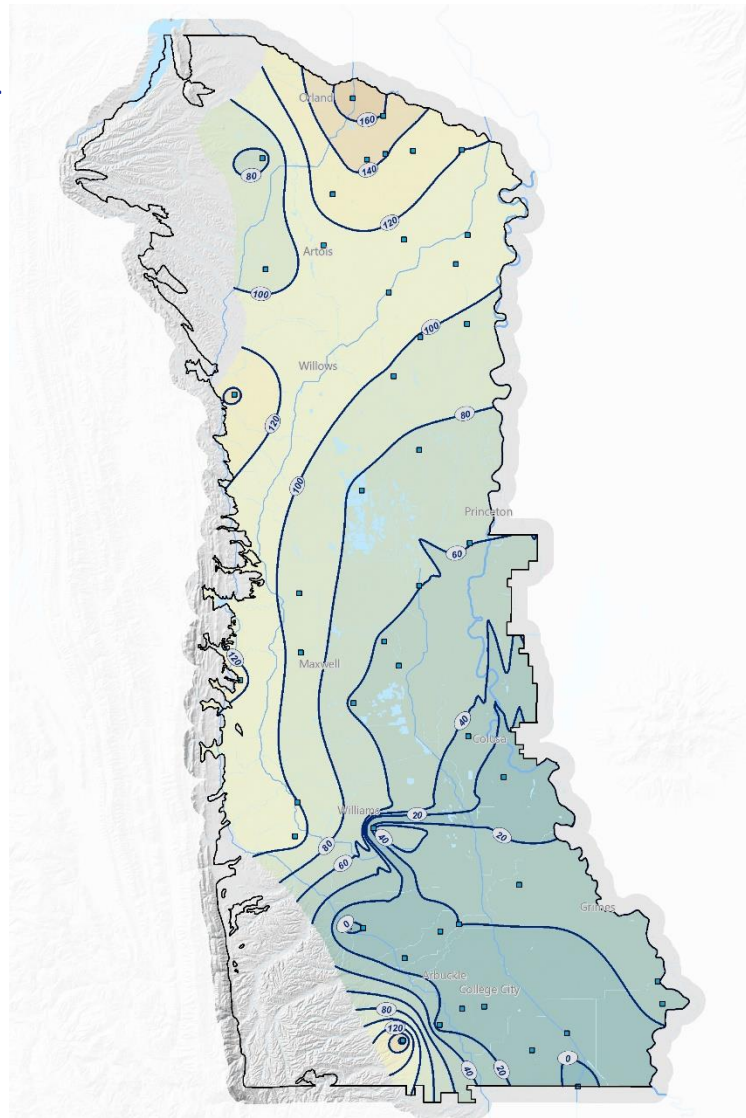
****DRAFT for Discussion****

Groundwater Elevation (ft)

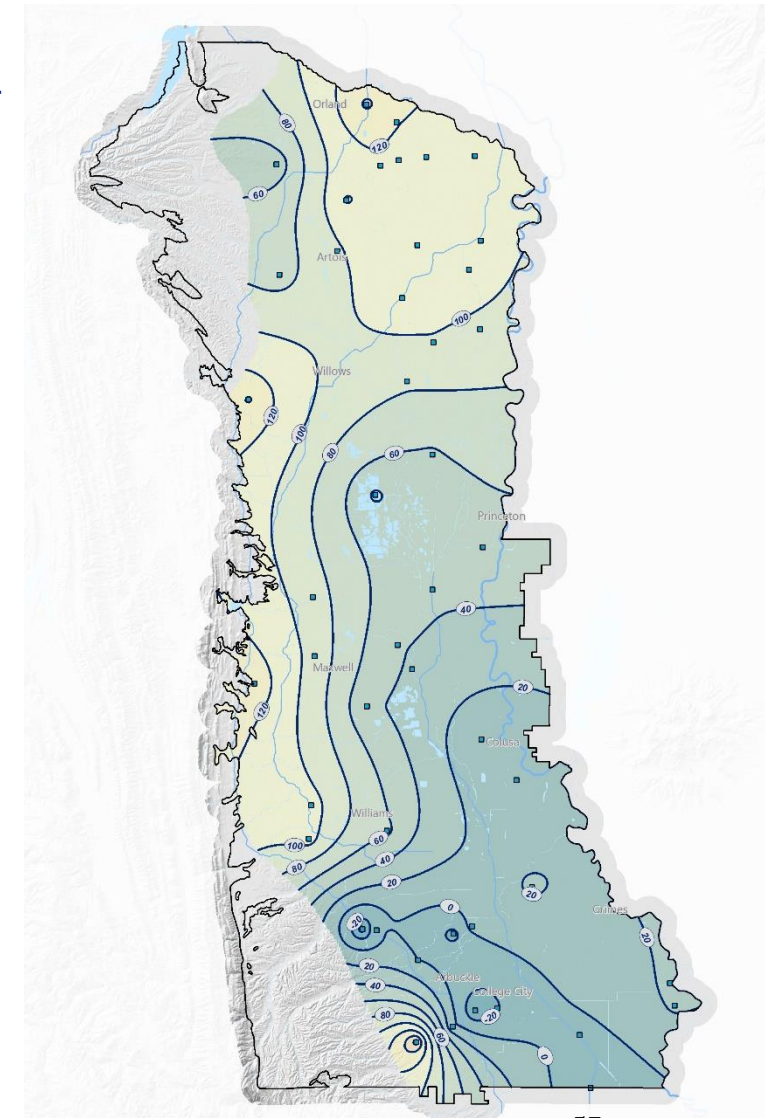


2021 Groundwater Elevation Contour Maps

Spring 2021



Fall 2021



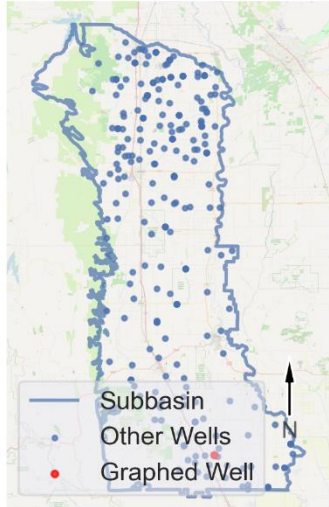
****DRAFT for Discussion****

Groundwater Elevation (ft)

260 - 280	140 - 160	20 - 40
240 - 260	120 - 140	0 - 20
220 - 240	100 - 120	-20 - 0
200 - 220	80 - 100	-40 - -20
180 - 200	60 - 80	
160 - 180	40 - 60	

COLUSA Subbasin - State Well Number (SWN): 13N01W07G001M

Well Location Map



Sustainable Management Criteria:

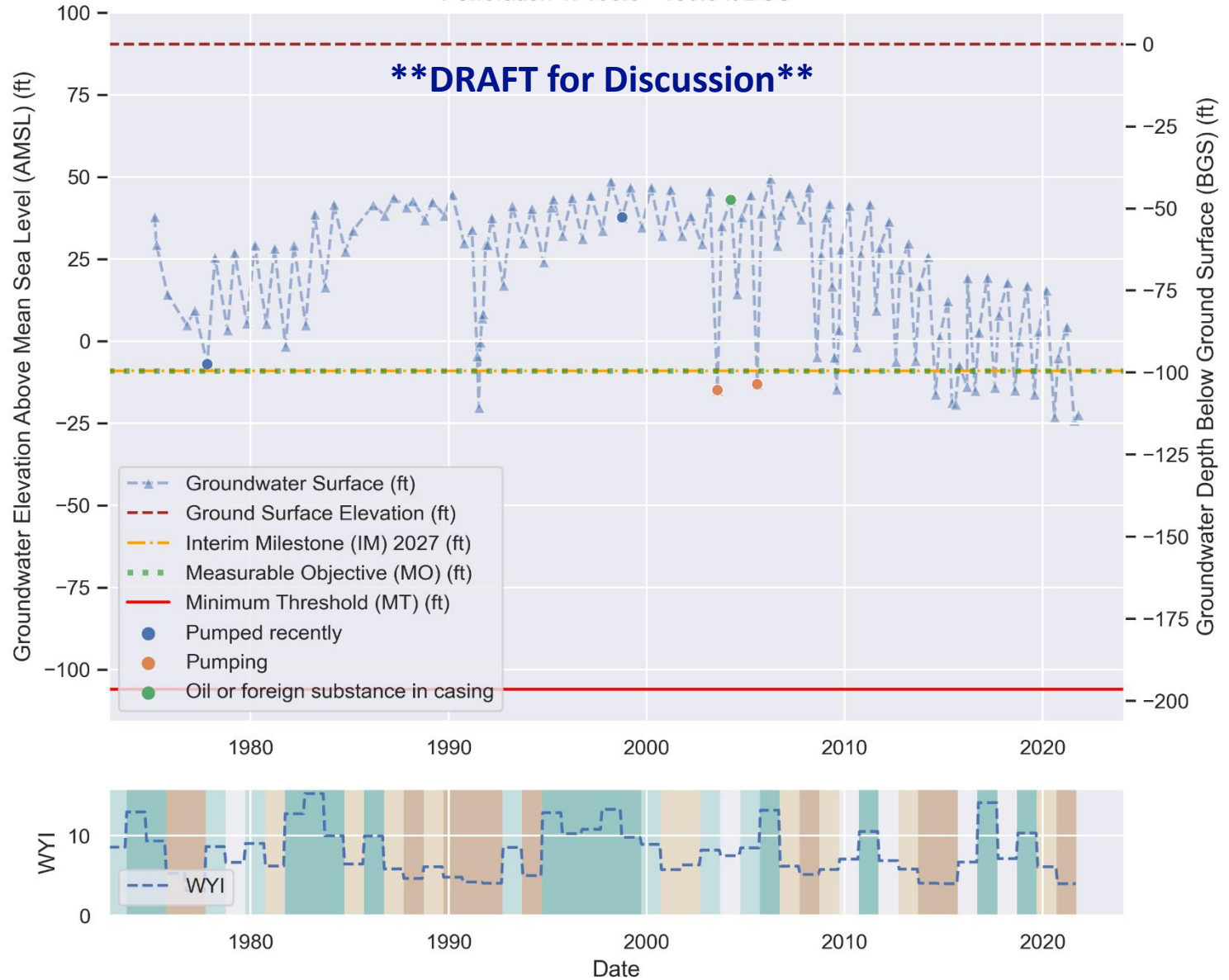
IM (2027) = -9.0 ft AMSL
 MO = -9.0 ft AMSL
 MT = -106.0 ft AMSL

Minimum Threshold is 50% of Range Below Historical.

Sacramento Valley Water Year Index (WYI) shown on lower right. Meaning of colors defined below.

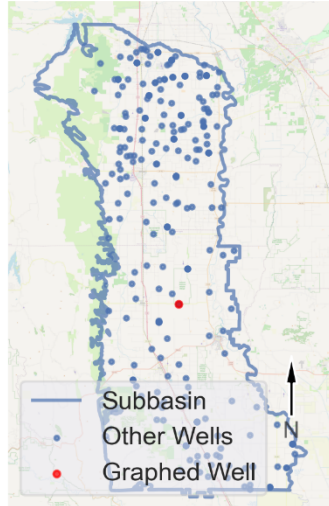


Perforation 1: 108.0 - 180.0 ft BGS



COLUSA Subbasin - State Well Number (SWN): 16N02W05B003M

Well Location Map

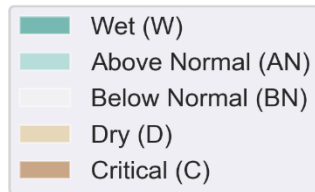


Sustainable Management Criteria:

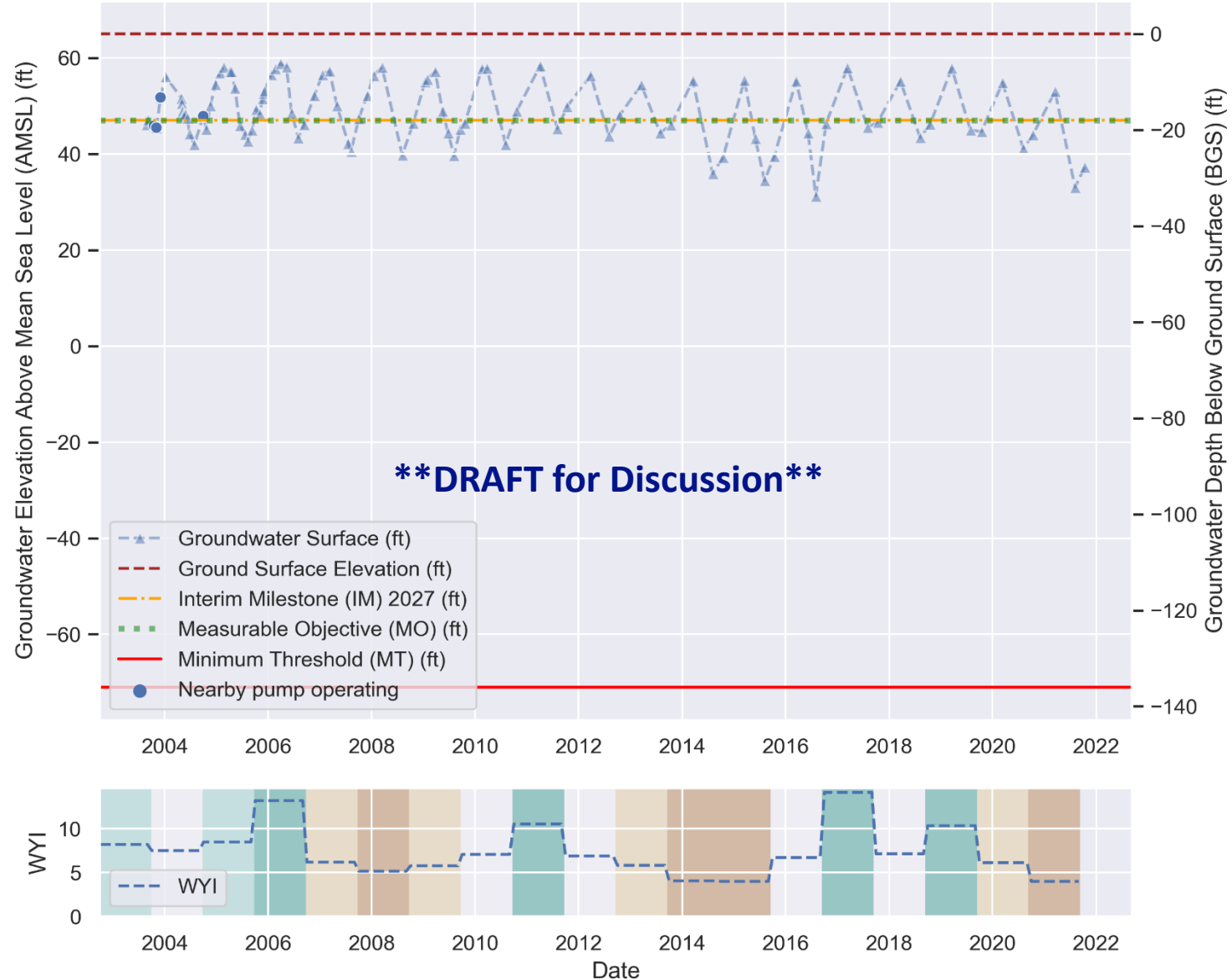
IM (2027) = 47.0 ft AMSL
 MO = 47.0 ft AMSL
 MT = -71.0 ft AMSL

Minimum Threshold is the 20th Percentile of Domestic.

Sacramento Valley Water Year Index (WYI) shown on lower right. Meaning of colors defined below.



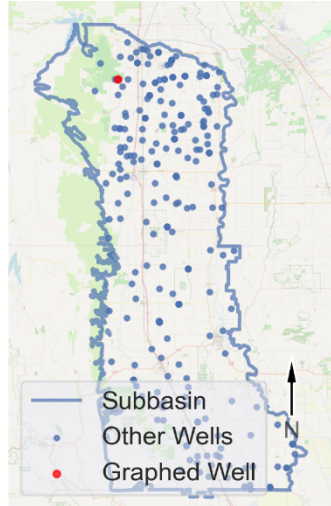
Perforation 1: 174.0 - 184.0 ft BGS; Perforation 2: 246.0 - 256.0 ft BGS



COLUSA Subbasin - State Well Number (SWN): 21N04W12A002M

Perforation 1: 247.0 - 257.0 ft BGS

Well Location Map

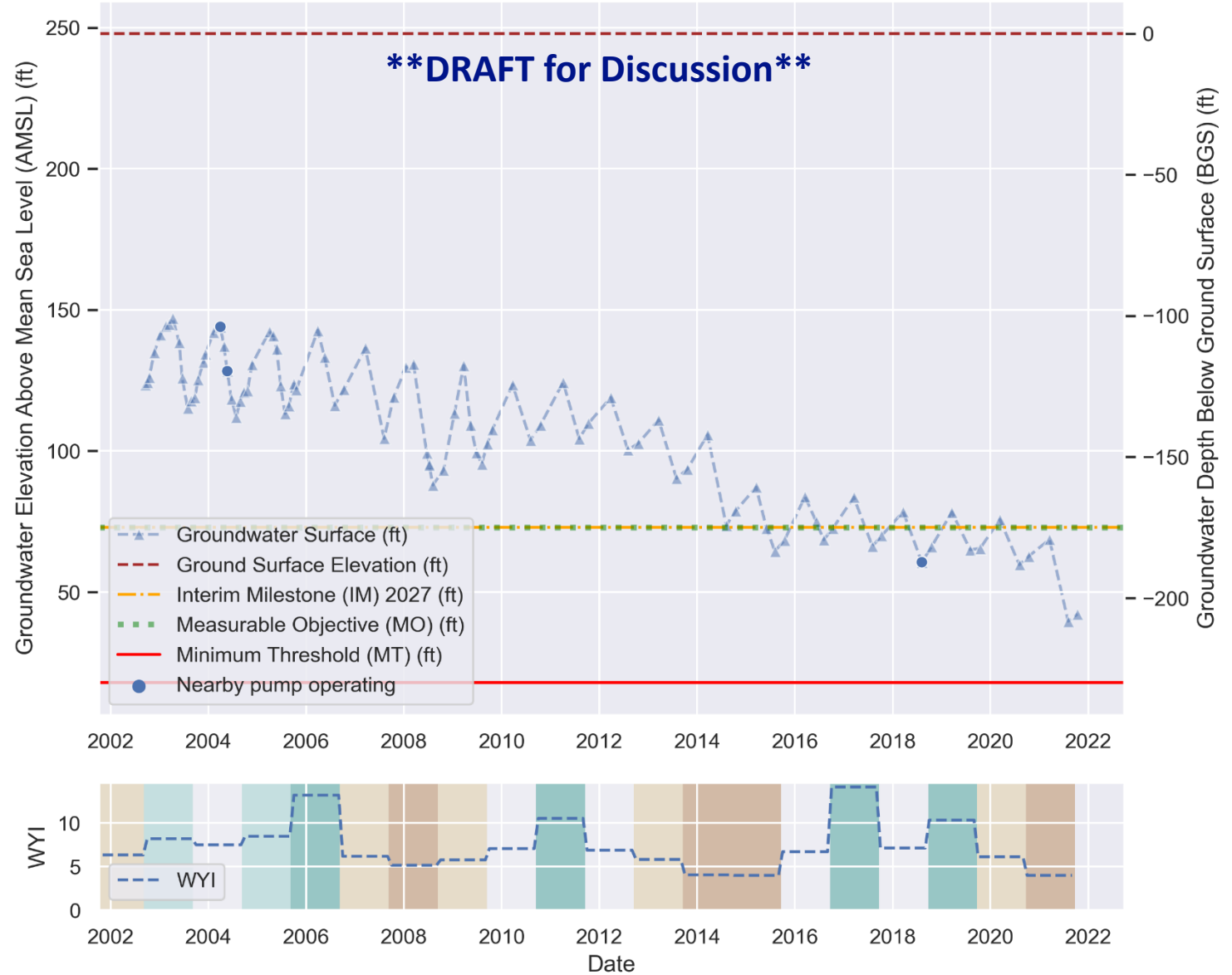
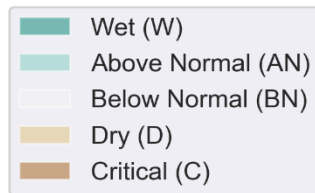


Sustainable Management Criteria:

IM (2027) = 73.0 ft AMSL
 MO = 73.0 ft AMSL
 MT = 18.0 ft AMSL

Minimum Threshold is 50% of Range Below Historical.

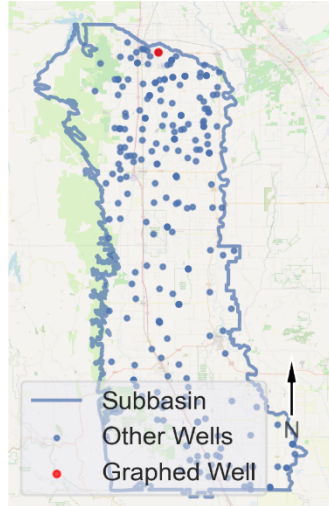
Sacramento Valley Water Year Index (WYI) shown on lower right. Meaning of colors defined below.



COLUSA Subbasin - State Well Number (SWN): 22N03W24E002M

Perforation 1: 130.0 - 150.0 ft BGS; Perforation 2: 170.0 - 180.0 ft BGS

Well Location Map

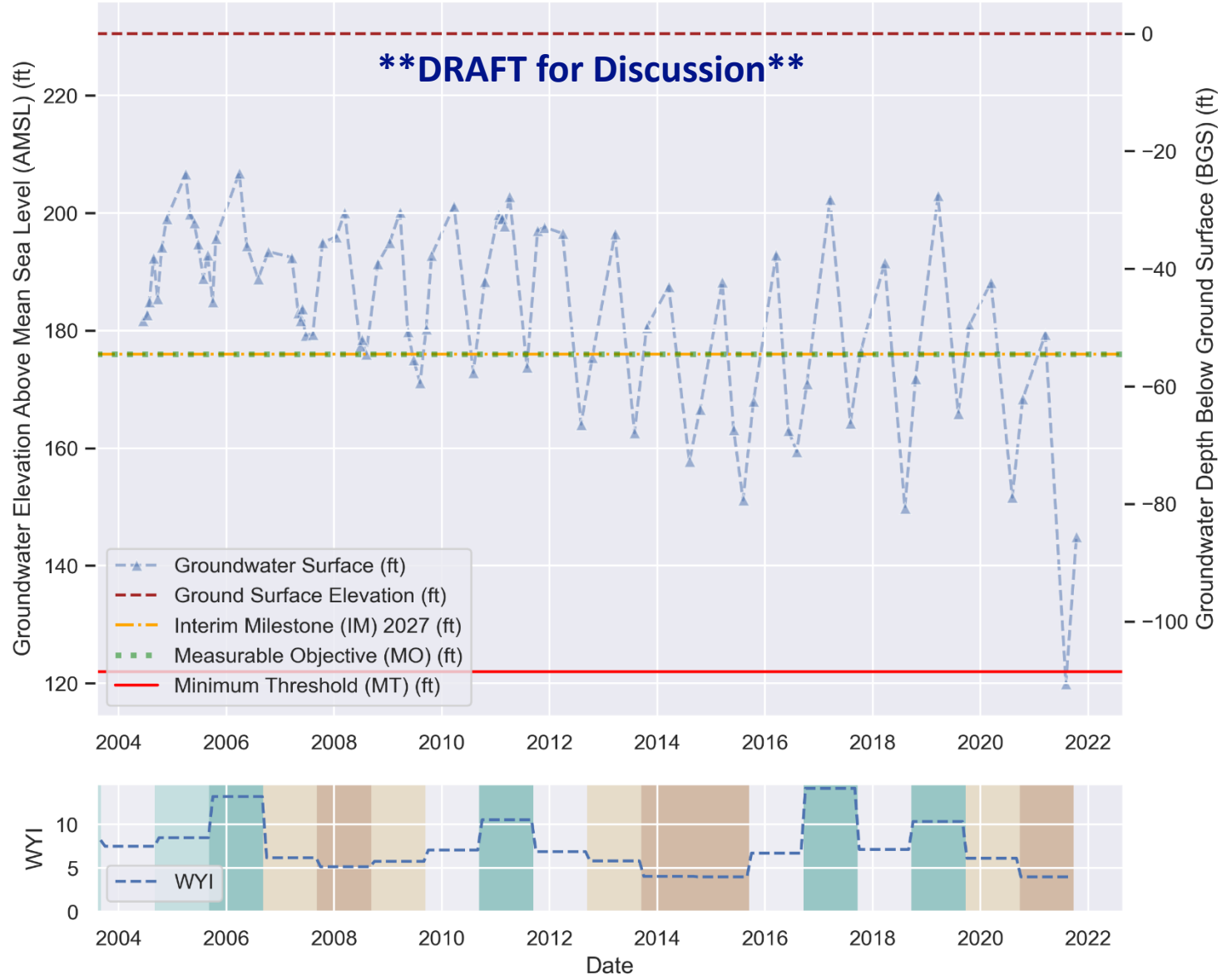
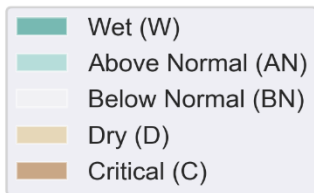


Sustainable Management Criteria:

IM (2027) = 176.0 ft AMSL
 MO = 176.0 ft AMSL
 MT = 122.0 ft AMSL

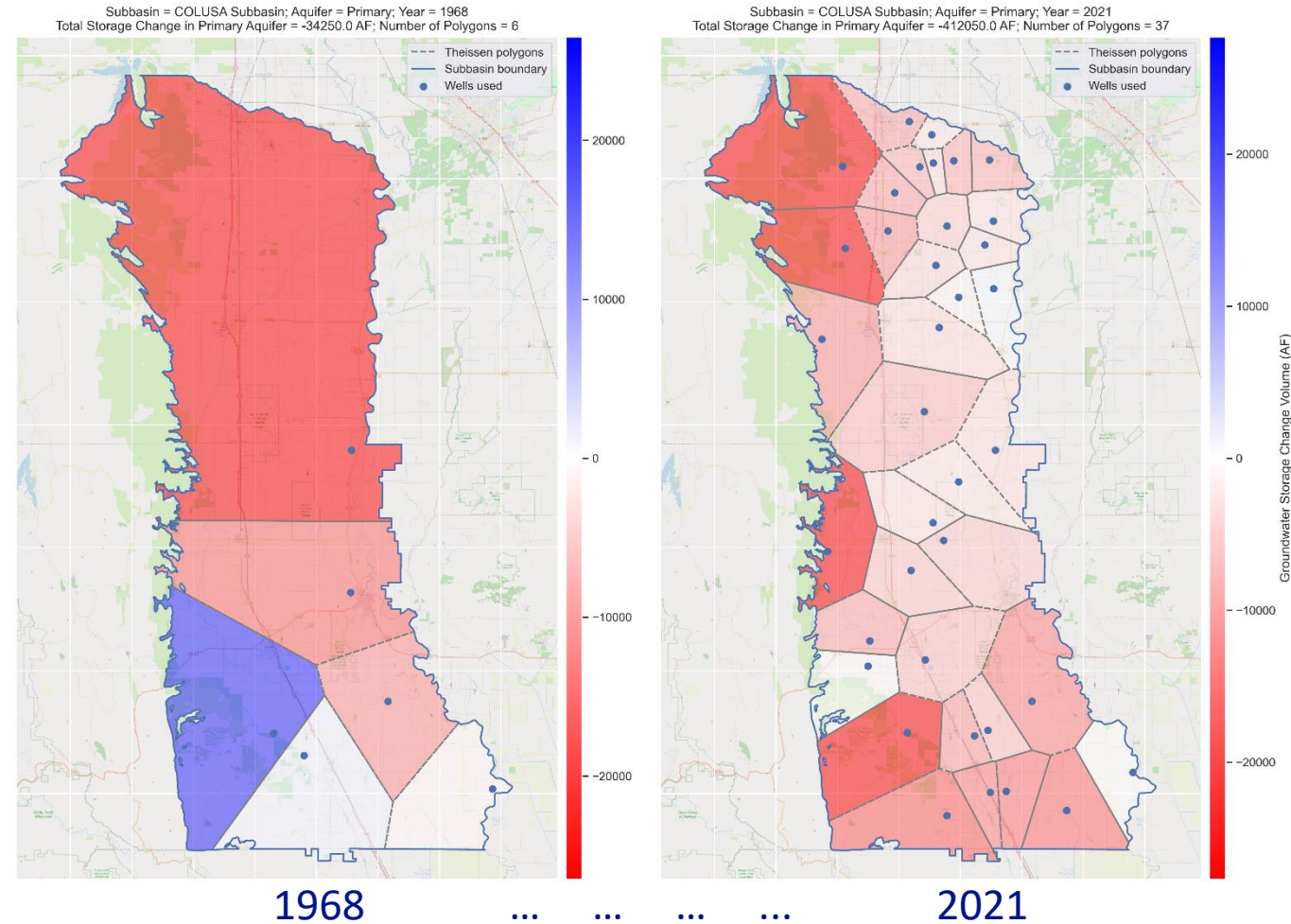
Minimum Threshold is 50% of Range Below Historical.

Sacramento Valley Water Year Index (WYI) shown on lower right. Meaning of colors defined below.



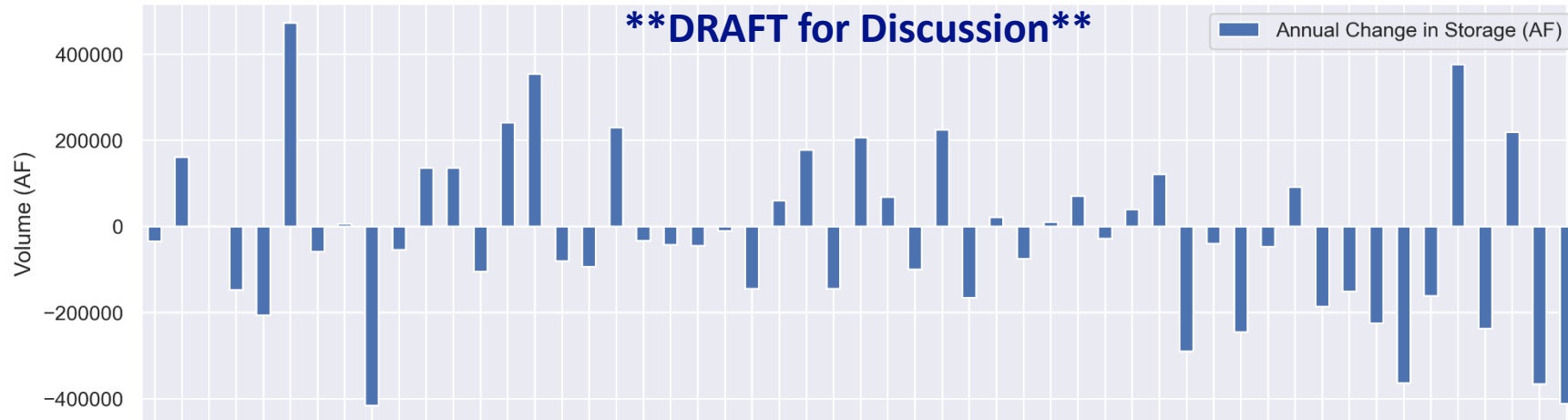
Change in Groundwater Storage Calculation

- Groundwater Elevation RMS as a Proxy
- Thiessen Polygon Method
 - Applied a spring-to-spring change in water level within each Groundwater Elevation RMS to a Thiessen polygon surrounding the RMS.
 - Annual change in storage calculated for 1968 to 2021 for each Thiessen polygon and summed for the Subbasin.
 - Cumulative change in storage calculated Subbasin-wide for 1968 through 2021.

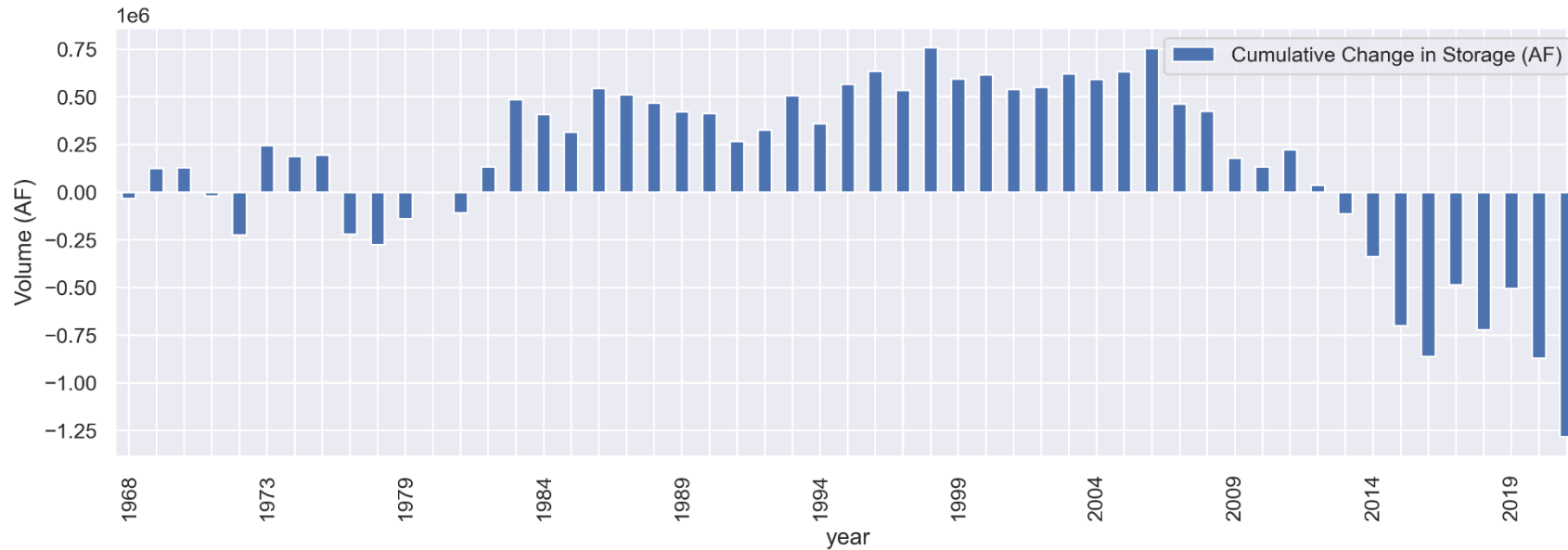


****DRAFT for Discussion****

Annual and Cumulative Change in Groundwater Storage



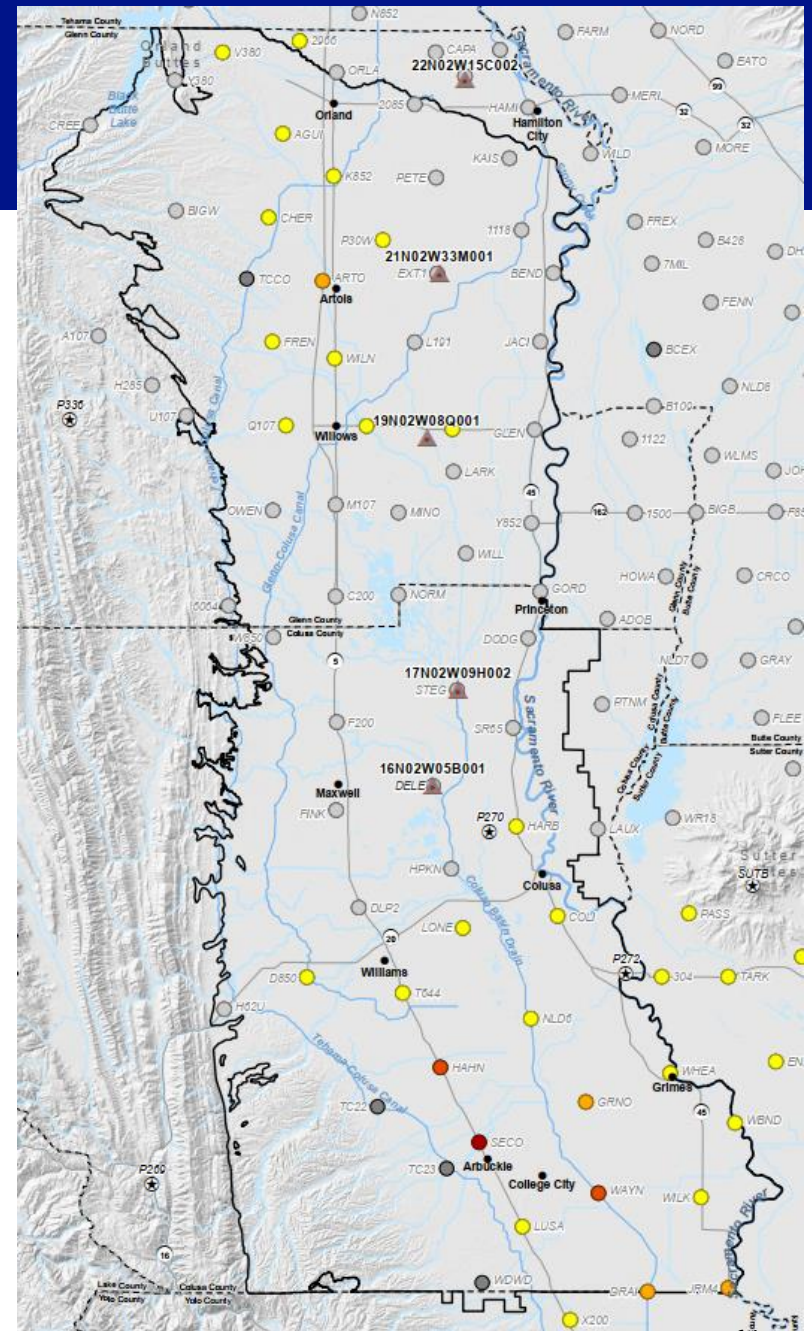
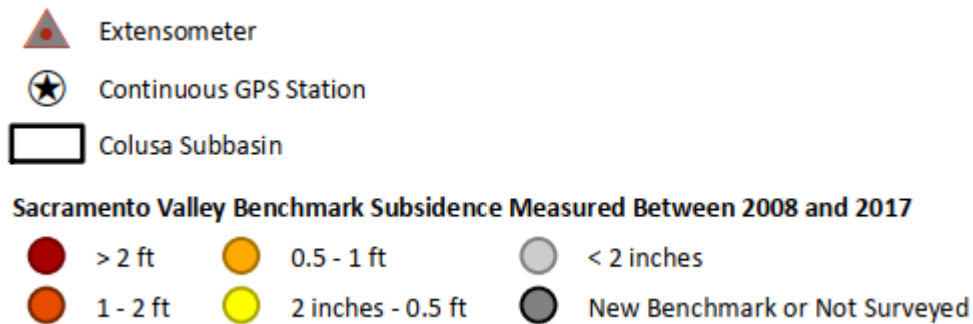
Annual



Cumulative

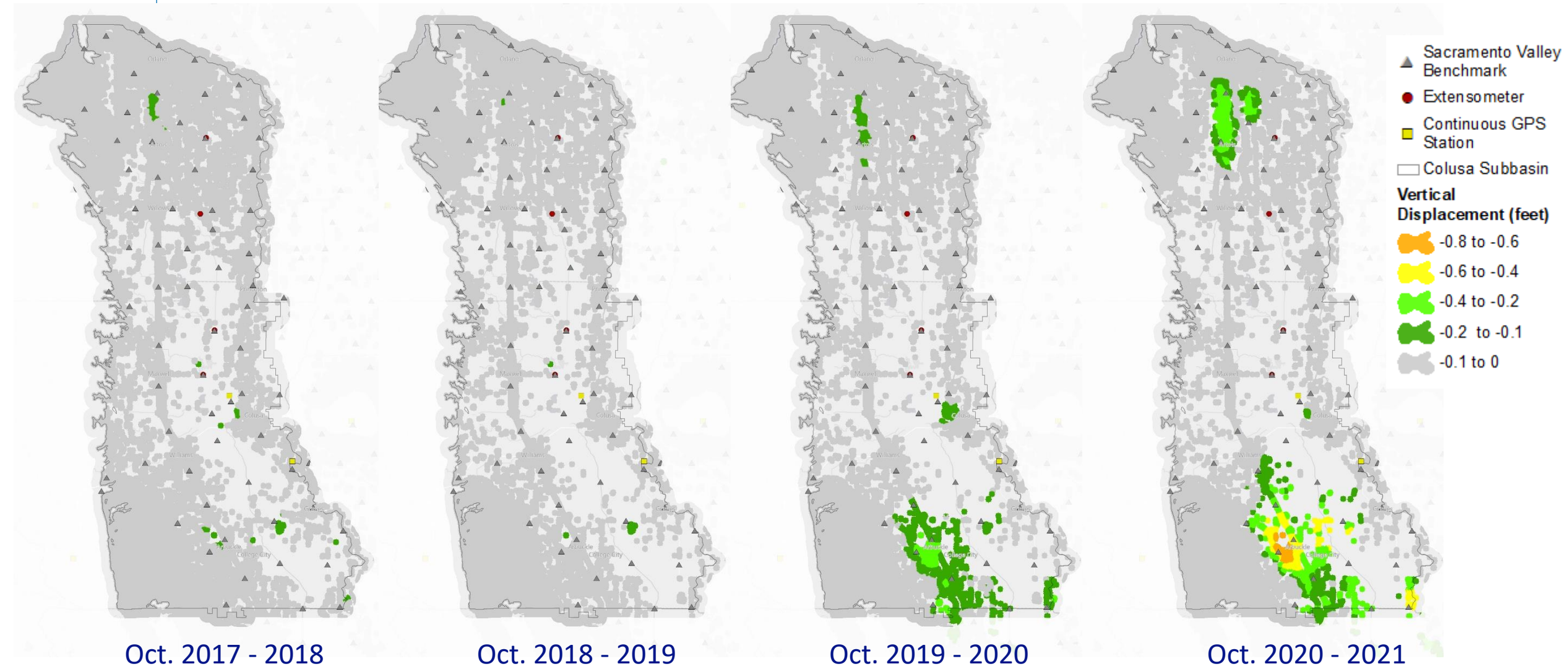
Measured Subsidence 2008 to 2017

- Sacramento Valley Height Modernization Project
 - Initial Survey 2008
 - Re-Survey 2017
- Colusa Subbasin GSP, Figure 3-31



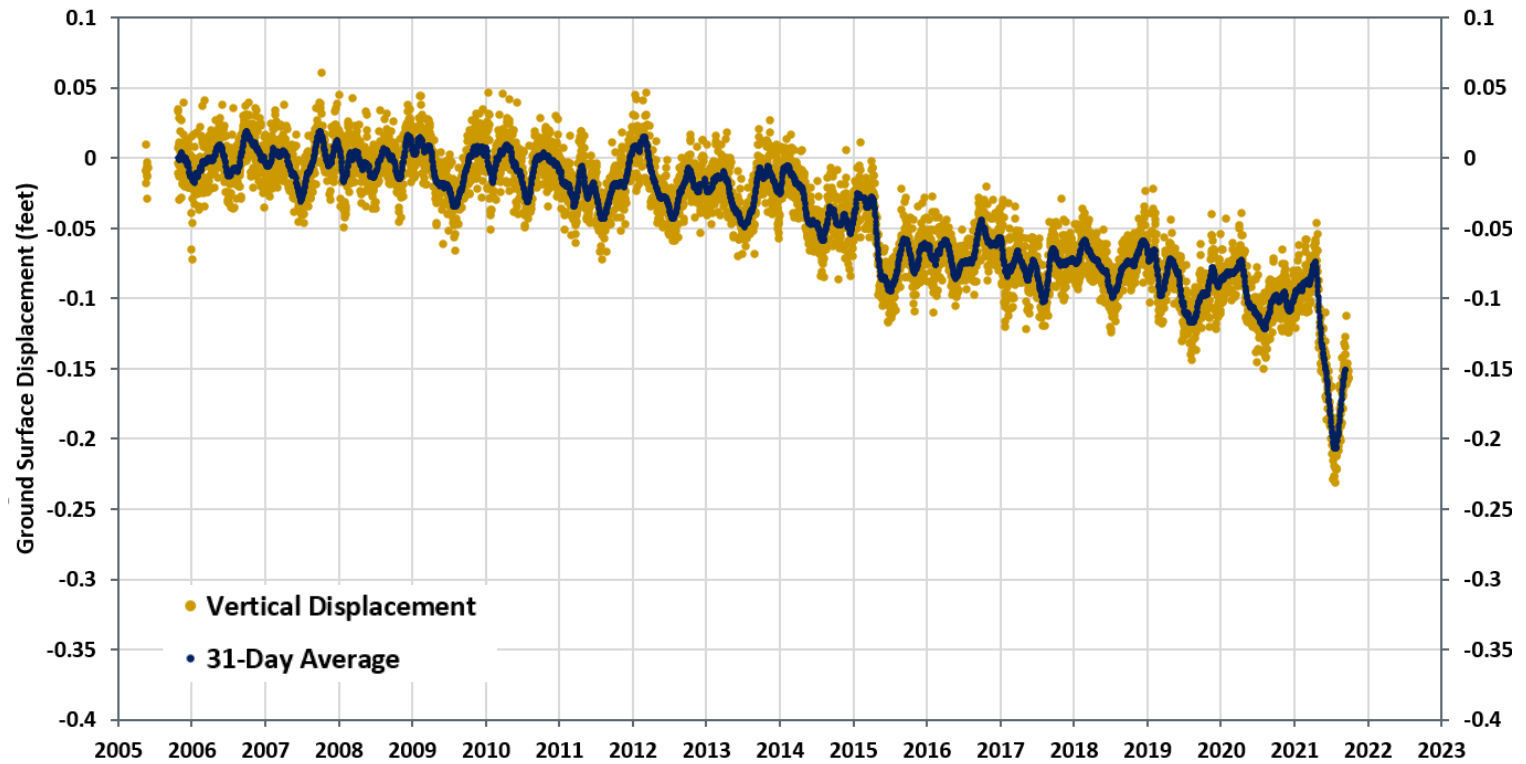
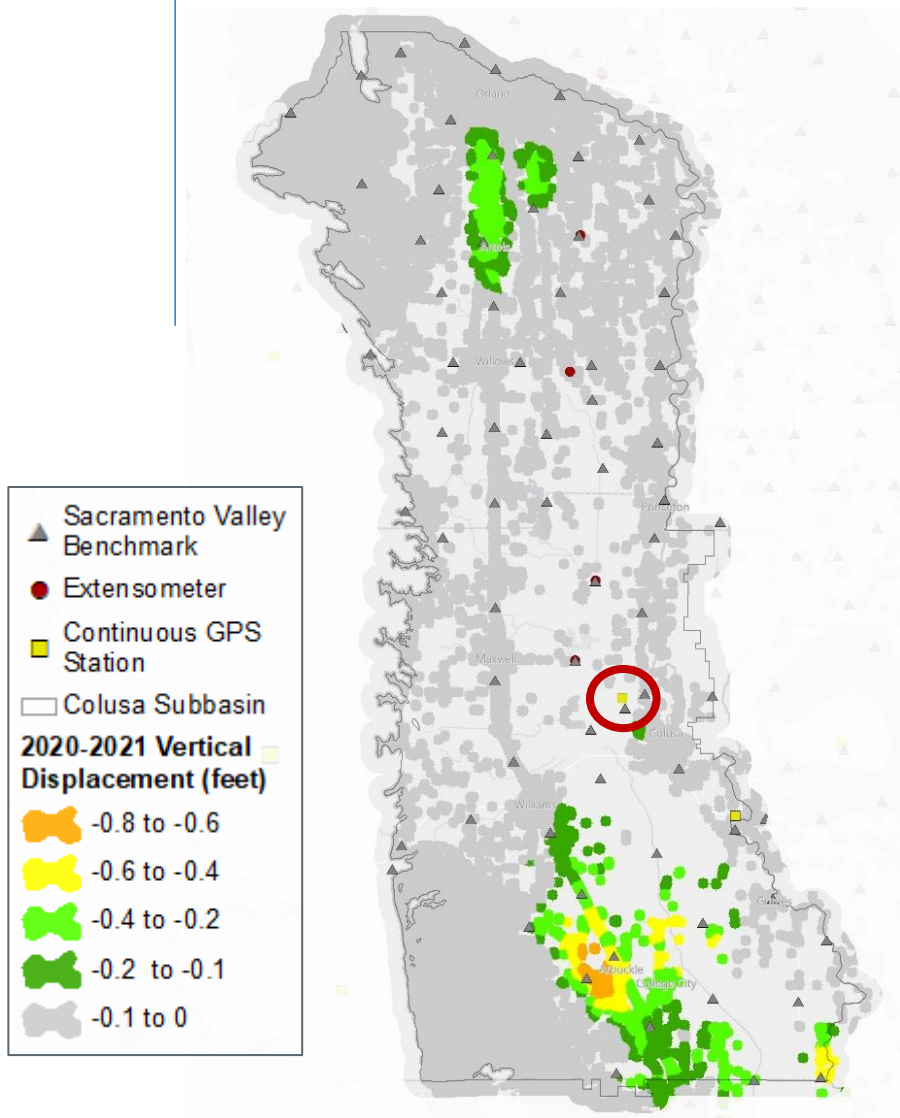
Annual Subsidence 2017 to 2021 (TRE-ALTAMIRA InSAR Land Survey)

****DRAFT for Discussion****



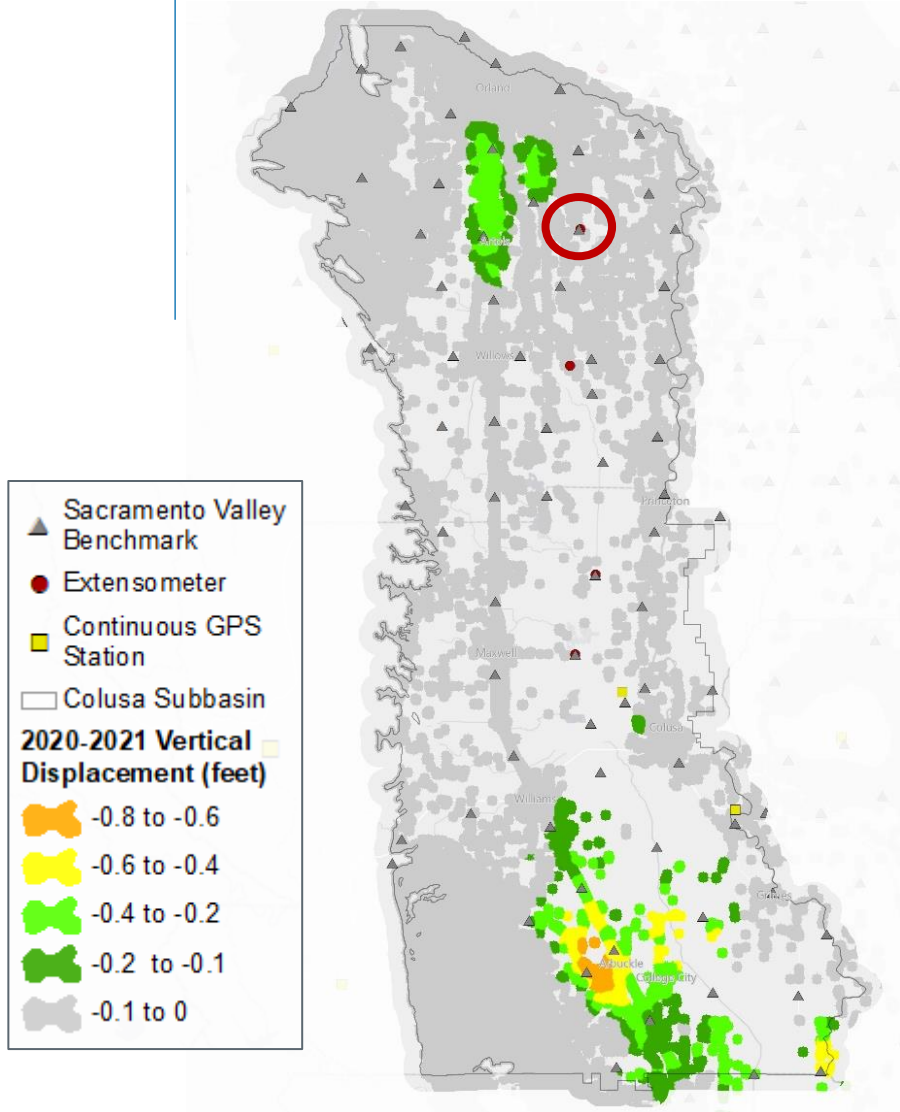
Continuous GPS Station P270

****DRAFT for Discussion****

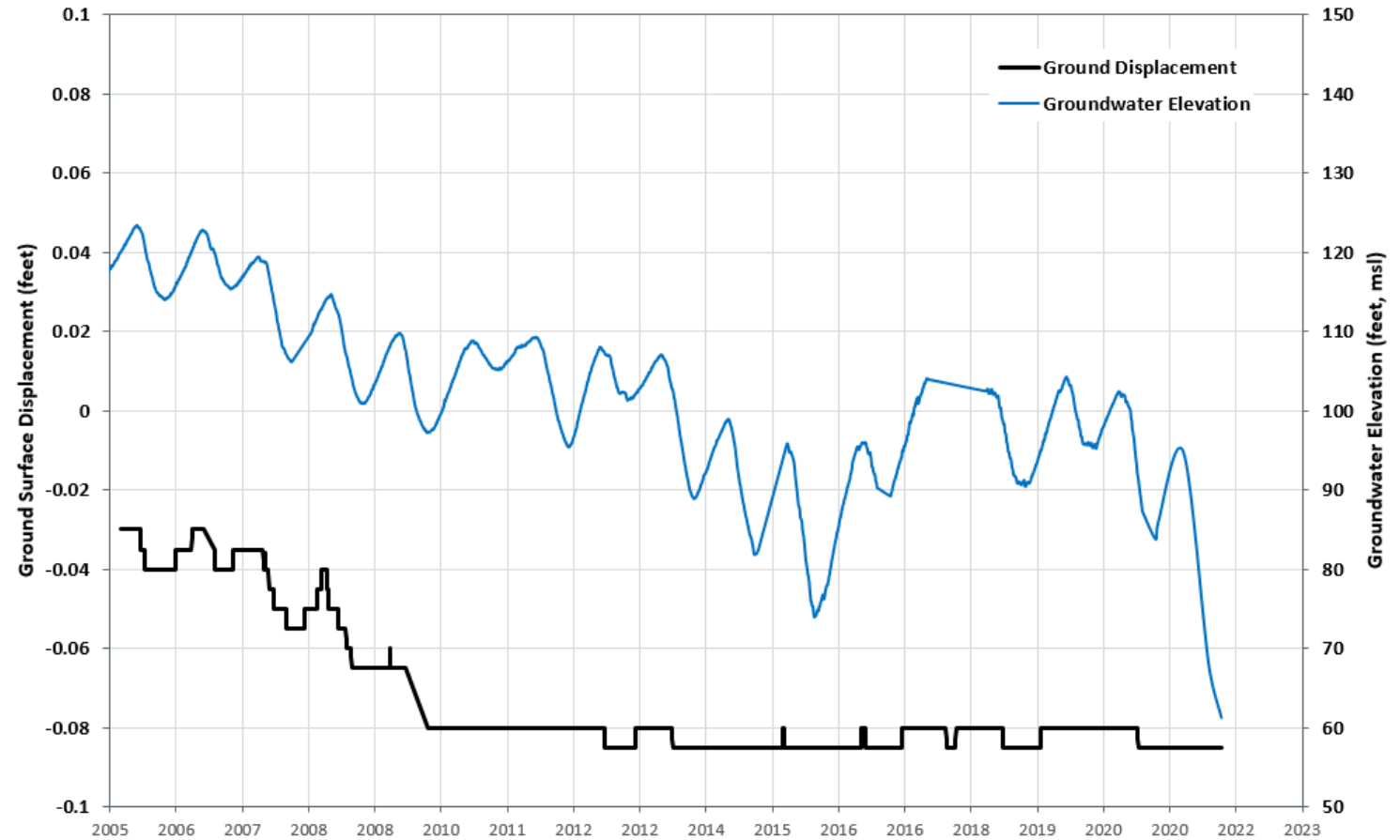


DWR Extensometer 21N02W3M001M

****DRAFT for Discussion****



Screened Interval: 860-890 ft bgs

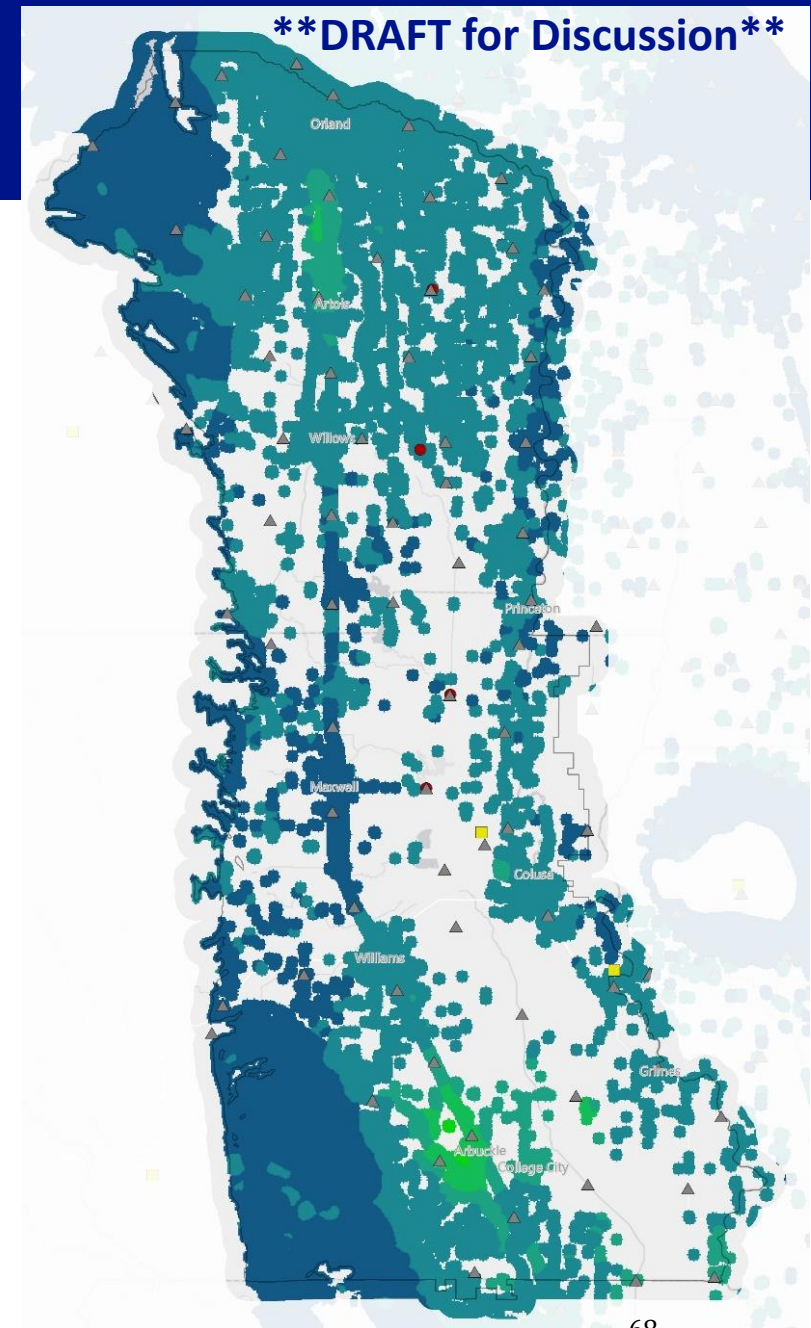


Net Land Subsidence 2015 to 2021

TRE-ALTAMIRA InSAR Land Survey

Net vertical displacement Oct. 2015 to Oct. 2021

Color Code	Vertical Displacement (feet)	Annual Average (feet/year)
Light Green	-2 to -1.5	-0.33 to -0.25
Medium Green	-1.5 to -1	-0.25 to -0.17
Dark Green	-1 to -0.5	-0.17 to -0.08
Teal	-0.5 to 0	-0.08 to 0
Dark Teal	0 to 0.5	0 to +0.08



Water Supplies and Water Use

Katie Klug, PhD
Davids Engineering

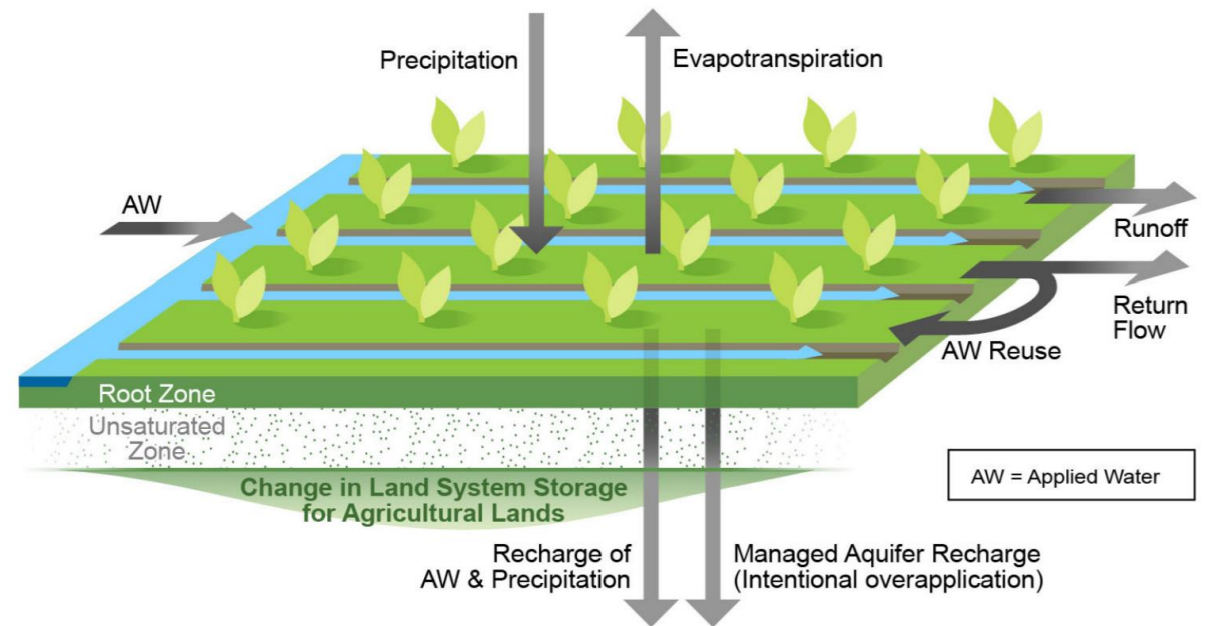
Water Supplies and Water Use

- **Groundwater Extraction:** Groundwater pumped or otherwise extracted
 - By water use sector (e.g., agricultural, urban, native vegetation, etc.)
 - By method (direct measurements, estimates, etc.)
- **Surface Water Supplies:** Surface water diverted and delivered to land for use
 - By water source type (e.g., CVP, local supplies, recycled, etc.)
- **Total Water Use:** Sum of groundwater use and surface water use

Approach for Quantifying Water Use

- Use measured data (where available)
- Estimate the remaining use through a water balance approach
- *Compare values back to GSP water budgets to ensure consistency*

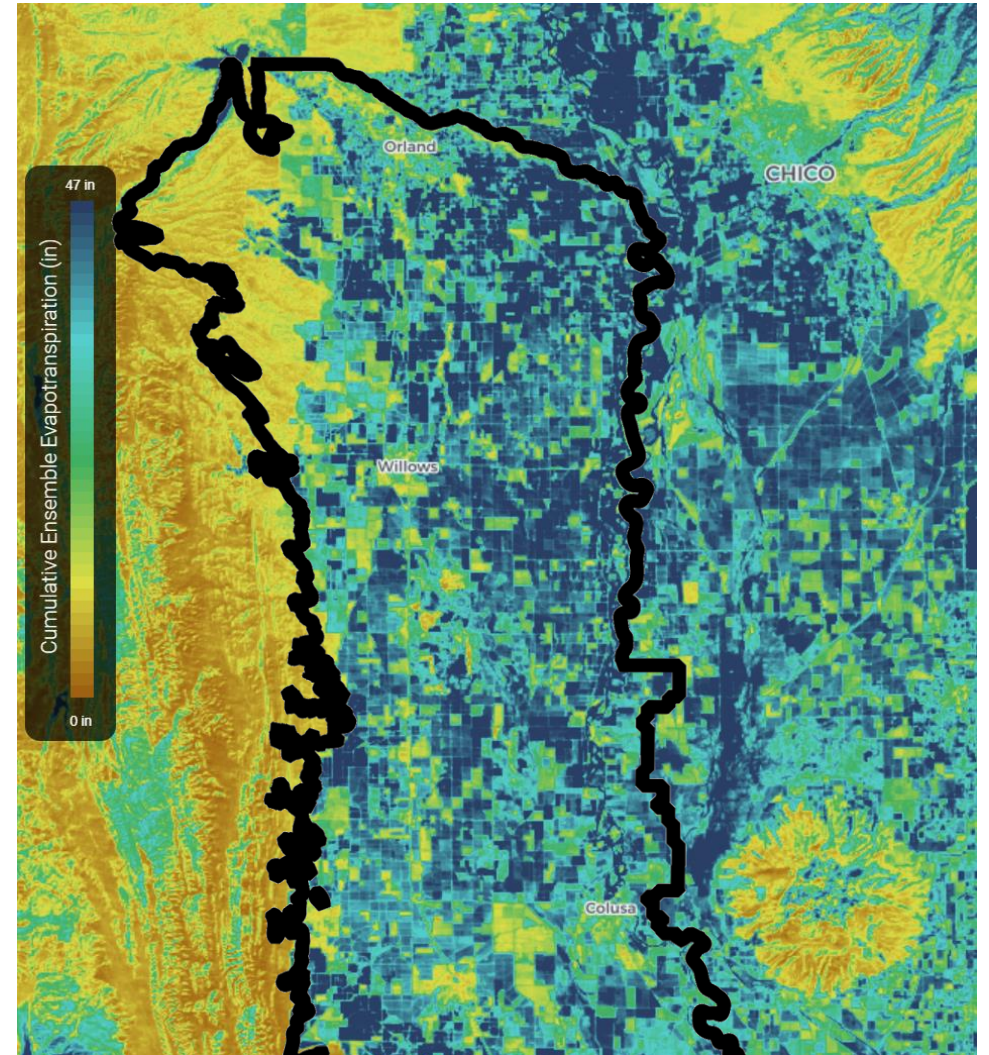
Figure 3-4 Components of Agricultural Water Use



Source: DWR. 2020. Draft Handbook for Water Budget Development With or Without Models. Available at: <https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Data-and-Tools/Files/Water-Budget-Handbook.pdf>

Consumptive Water Use (Evapotranspiration)

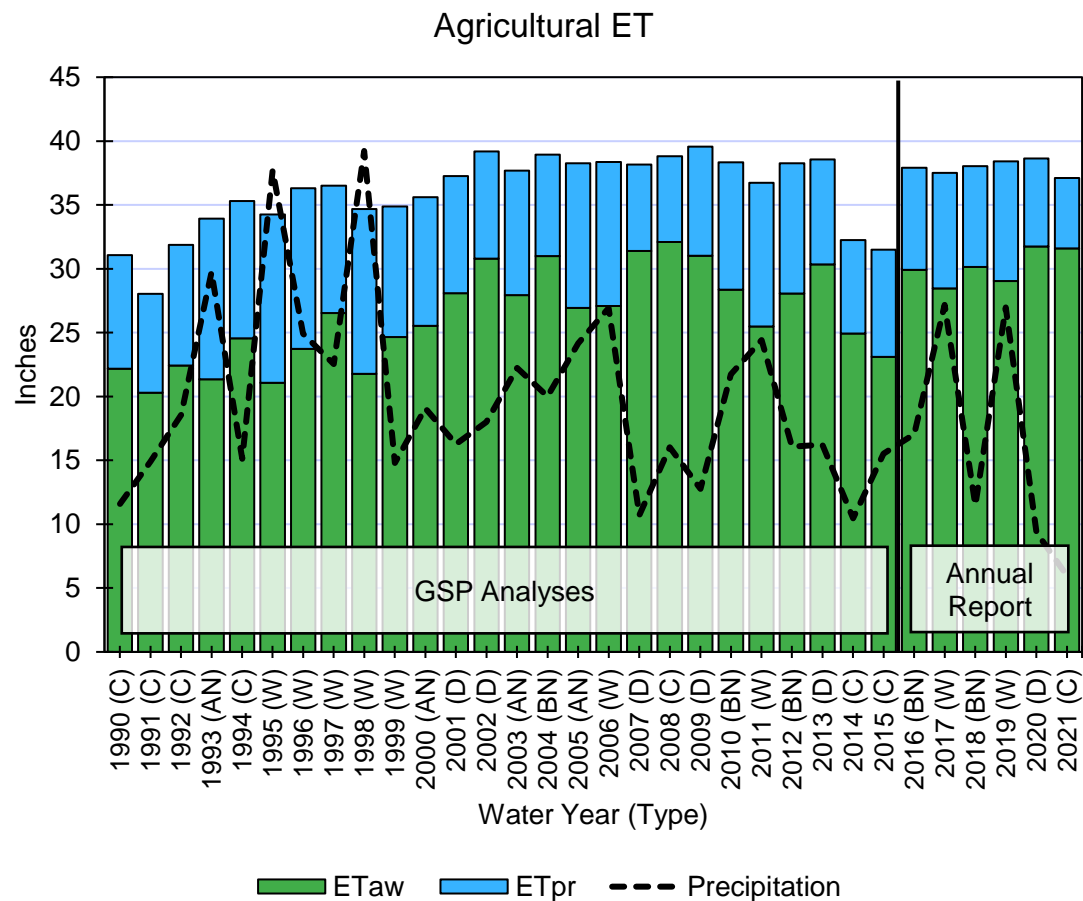
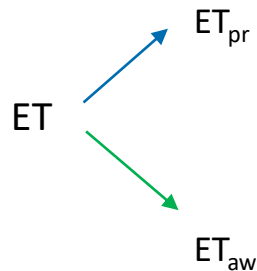
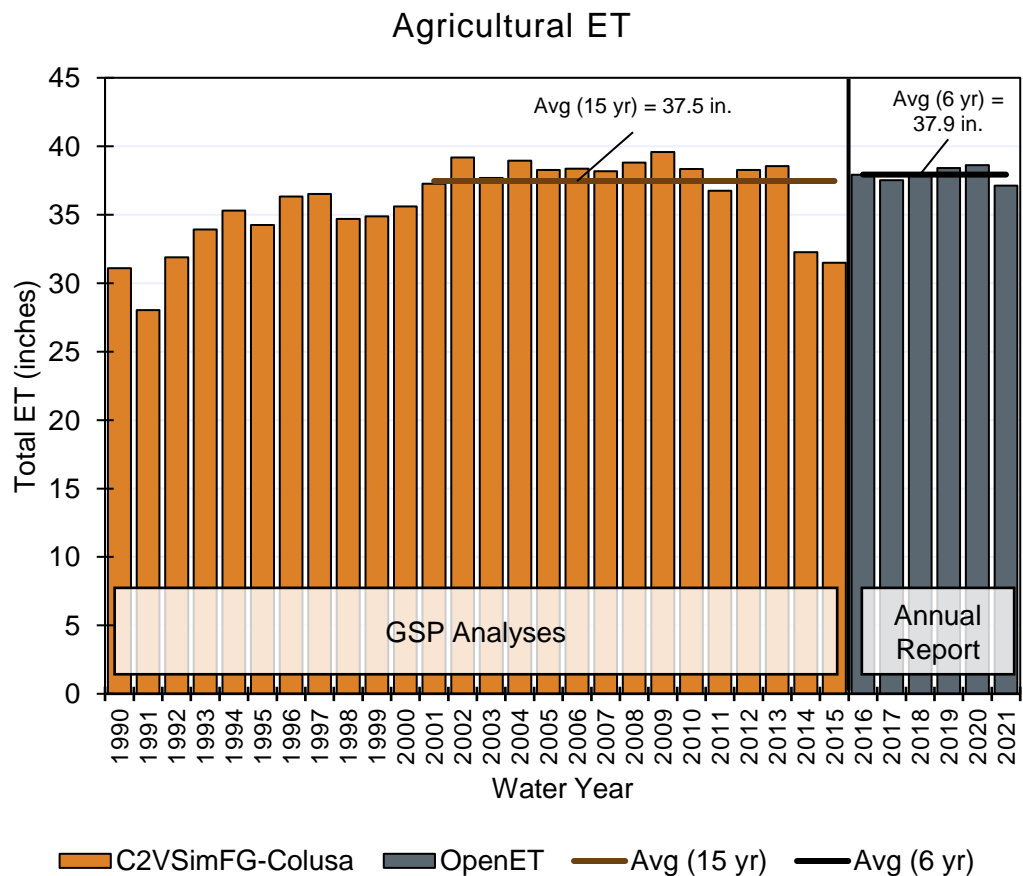
- Evapotranspiration (ET) is a major driver of water use in the Colusa Subbasin
 - Water that is evaporated or consumed by plants, humans
 - Cannot be recovered or reused directly in the subbasin (unlike deep percolation, infiltration/seepage, runoff, etc.)
- Total ET quantified from OpenET data
 - Satellite-based estimates of total ET
 - Models widely-used in government and research in the U.S. and internationally
 - Source data: Landsat images
 - Spatial resolution: 30x30 m² (0.22 acres)
- Total ET parsed into portions derived from applied water/irrigation (ET_{aw}) and precipitation (ET_{pr}) based on precipitation, crop, and soil data



Source: <https://openetdata.org/> 72

Correspondence between OpenET Data and GSP Model Results

****DRAFT for Discussion****

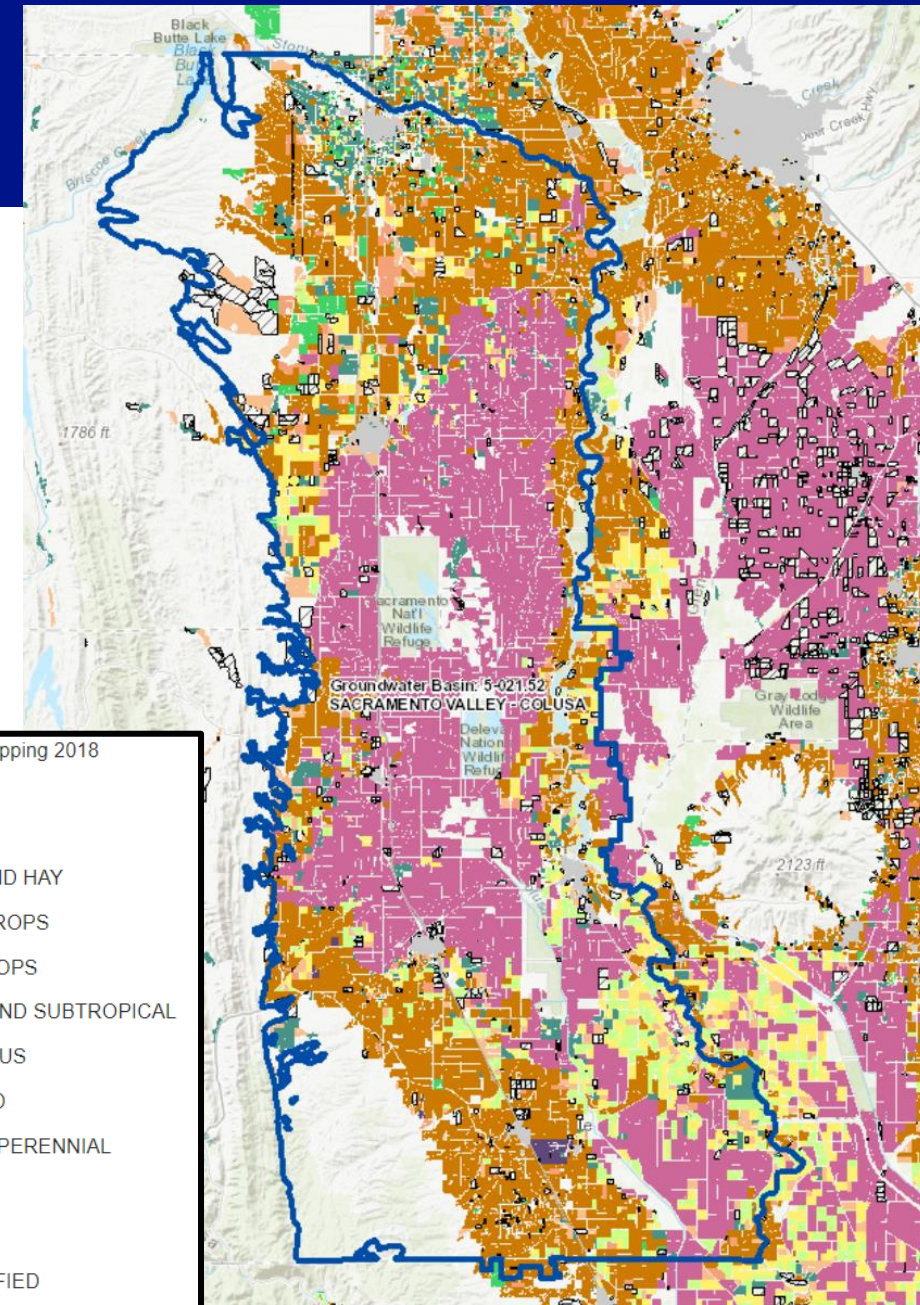
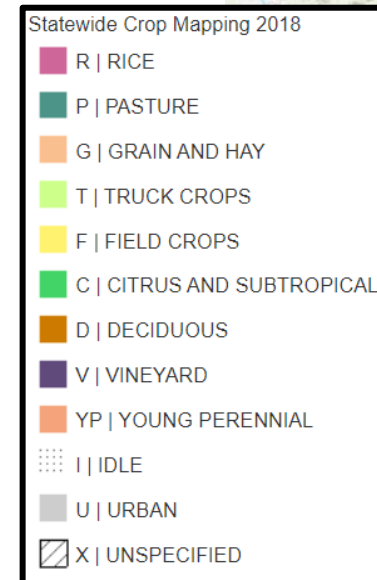


Water Use Sectors (reported in the GSP)

- Agricultural
- Urban
- Native Vegetation
- Managed Wetlands

Areas in each water use sector:

- Agricultural and urban areas identified from Land IQ 2018 data
 - Spatial crop mapping for the state of California
 - Similar data sources used in GSP (e.g., Land IQ 2014)
- Managed wetlands and native vegetation areas identified from the remaining subbasin area based on wildlife refuge boundaries and GSP analyses



Data Sources for Water Supplies

- Surface Water Supplies
 - CVP Contractor delivery records (USBR)
 - Farm Gate Deliveries data (DWR)
 - Water rights diversions (eWRIMS)
 - Other District records (where available)

- Groundwater Extraction
 - City pumping data
 - Other District records (where available)
 - Remaining use estimated based on demand, after accounting for other supplies

Surface Water Supplies Available Each Water Year

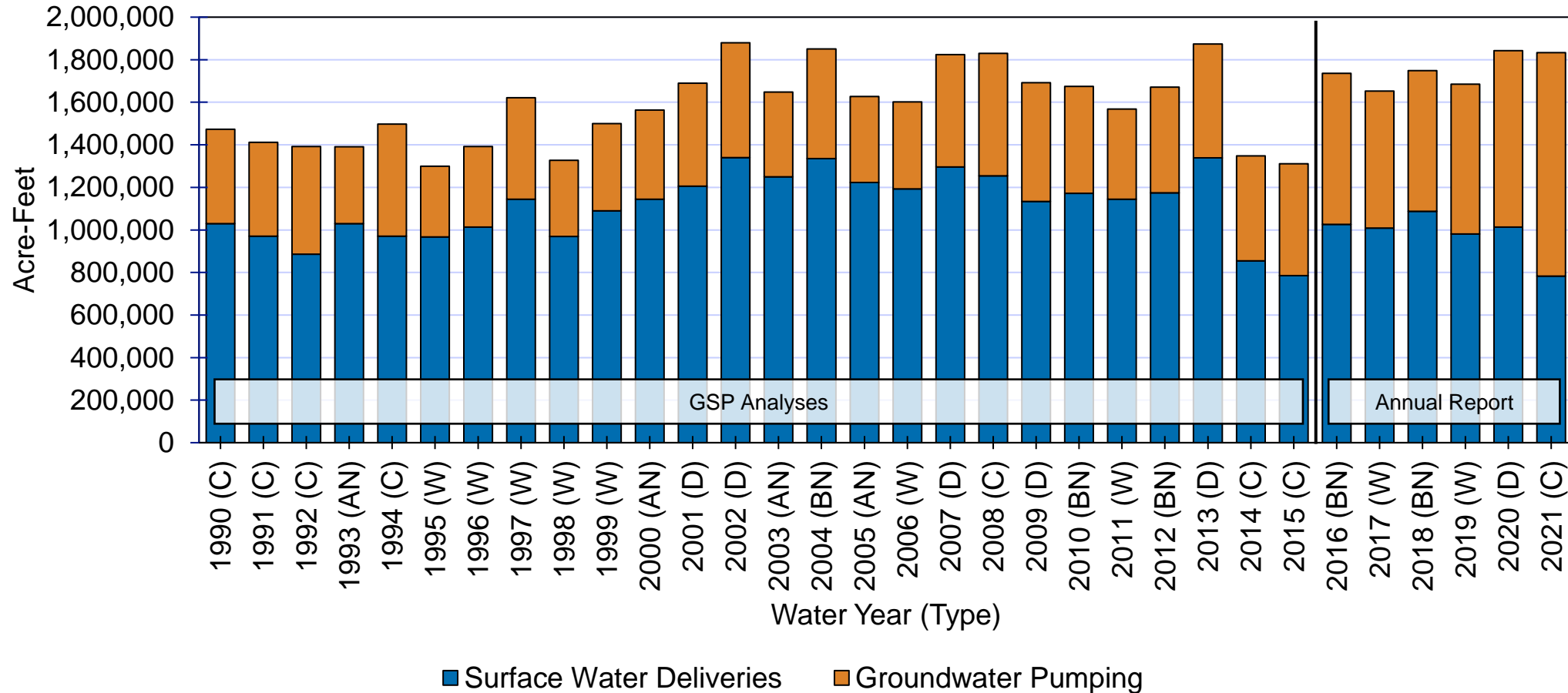
Average in 2016-2021 (*Volume in 2021*)

*****DRAFT for Discussion*****

- CVP Contract Supplies:
 - Tehama-Colusa Canal: 181 TAF (139 TAF)
 - Sacramento River: 929 TAF (778 TAF)
- Other Supplies:
 - Orland Project (South Canal): 44 TAF (28 TAF)
 - Colusa Basin Drain: some diversions of natural flows when available (most water is passed through from other originating sources)

Total Water Use for Agriculture

****DRAFT for Discussion****



- **Urban and Rural Residential Groundwater Production: 10.2 TAF in 2021**
 - Measured (Williams, Orland, Willows): 4 TAF in 2021
 - Estimated (Colusa, Arbuckle, Unincorporated): 6.2 TAF in 2021
- **Managed Wetlands:**
 - Primarily Sacramento NWR, Delevan NWR, and Colusa NWR
 - Unconstrained conditions: CVPIA Full Level 4 water supplies
 - Sacramento NWR: 50,000 acre-feet,
 - Delevan NWR: 30,000 acre-feet, and
 - Colusa NWR: 25,000 acre-feet.
 - **Constrained conditions in 2021, refuges allocated 75% of this quantity**
- **Native Vegetation:** Driven by ET, most is met by precipitation

GSP Implementation

Katie Klug, PhD
Davids Engineering

Projects and Management Actions (PMAs)

- PMAs describe what needs to be done to achieve sustainable management of the Colusa Subbasin by 2042 and maintain sustainability thereafter
- Thirty-four (34) PMAs described in the GSP:
 - Five (5) Planned PMAs: identified project proponents, “on track for implementation”
 - Six (6) Ongoing PMAs: existing PMAs that could be continued and/or expanded
 - Twenty-three (23) Potential PMAs: various stages of piloting and conceptual development
- Uncertain future calls for an adaptive management approach
 - Current *actual* drought is more compelling than *modeled* future sustainability challenges
 - PMAs cast in GSP as being more aligned with near-term drought mitigation, recognizing that they will contribute to long-term sustainable groundwater management

Progress on PMAs Since GSP Development

- Colusa Subbasin Multi-Benefit Groundwater Recharge
 - Recharge conducted in 2021, only one participating field (66 acres) due to surface water restrictions
 - Applied surface water was 290 AF, recharge benefit was 220 AF
- Sycamore Slough Groundwater Recharge Pilot Project
 - First season of flooding complete (flooded field for recharge in Jan-Feb 2022), analysis in progress
 - Purchased some monitoring equipment, some repurposed from multi-benefit groundwater recharge project
- Orland-Artois Water District Land Annexation and Groundwater Recharge
 - Continued planning efforts and discussions with OAWD, TCCA, Glenn LAFCO, USBR
 - Initiated processes with OAWD and USBR to review annexation of 12,000 acres of ag land (anticipated 2023)
 - Refined benefits (targeting 15 TAF of deliveries (Shasta Non-Critical years), pumping reduction of 14 TAF)
 - Refined costs (estimated \$12 million capital costs)
- Tehama-Colusa Canal Trickle Flow to Ephemeral Streams (RD 108)
 - Further concept development (identified potential streams, water sources, operating strategies)
 - Identifying discharge locations with CCWD and TCCA, coordinating monitoring/funding with landowners
 - Proof-of-concept test of trickle flow when portion of canal dewatered

Ongoing PMAs (No significant changes reported)

- RD 108 and Colusa County Water District Agreement for Five-Year In-Lieu Groundwater Recharge Project (pending extension)
- Glenn-Colusa Irrigation District Strategic Winter Water Use for Groundwater Recharge and Multiple Benefits
- Glenn-Colusa Irrigation District Expansion of In-Basin Program for In-lieu Groundwater Recharge
- Orland Unit Water Users Association Irrigation Modernization for Increased Surface Water Delivery and Reduced Groundwater Pumping
- Urban Water Conservation in Willows

Other Activities Since GSP Development

- Well Monitoring Pilot Program
 - Planning program expansion to add 16 new sites in spring 2022
 - Setting up weekly/monthly reports of groundwater levels and groundwater pumping
 - Plan for program operation through December 2024
- Hydrogeologic Investigation
 - Planning efforts to fill data gaps
 - Sample topics:
 - Shallow groundwater monitoring (GDEs, interconnected surface water)
 - Subsidence benchmarks (subsidence monitoring)
- Expansion of subsidence monitoring network (10 additional benchmarks)

Summary and Next Steps

- Recent completion of the GSP is a significant achievement, but it's also a starting point for GSP implementation (2022-2042)
- First Annual Report is due to DWR on April 1, 2022
 - Other annual reports due April 1 of each year through 2042
- Complete draft Annual Report will be available for review next week
- Comments and questions can be directed to:
Katie Klug
Katherine@davidsengineering.com

Questions and Answers

Closing Remarks

Glenn Groundwater Authority

Groundwater Sustainability Agency

225 North Tehama Street, Willows, CA 95988 | 530.934.6540

Meeting of the Glenn Groundwater Authority Board of Directors

March 16, 2022 | 1:30 PM

LOCATION: 225 North Tehama Street, Willows, CA 95988

And

Teleconference

The meeting can be accessed via telephone at [+1 \(872\) 240-3212](tel:+18722403212) or by computer, smartphone, or tablet at:

<https://meet.goto.com/809763605>

Meeting Access Code: 809-763-605

MEETING AGENDA

1. CALL TO ORDER
2. ROLL CALL
3. AB 361 OPEN MEETINGS: STATE AND LOCAL AGENCIES: TELECONFERENCES
 - a. *Consider approval of Resolution 2022-003 Authorizing Remote Teleconference Meetings in Accordance with Government Code Section 54953 (e)
4. APPROVAL OF MINUTES
 - a. *Approval of meeting minutes from February 14, 2022
 - b. *Approval of special meeting minutes from February 23, 2022
5. PERIOD OF PUBLIC COMMENT

Members of the public are encouraged to address the GGA Board of Directors on items relevant to the GGA. Public comments are limited to no more than 5 minutes. No action may be taken on public comments.
6. FISCAL YEAR 2020/2021 ANNUAL AUDIT
 - a. *Receive presentation and accept Glenn Groundwater Authority Groundwater Sustainability Agency Financial Statements and Supplementary Information Year Ended June 30, 2021.
7. STAFF UPDATES
8. FINANCIAL REPORT
 - a. *Review and accept Monthly Activities Report
 - b. *Review and consider approval of claims
9. COLUSA SUBBASIN GROUNDWATER SUSTAINABILITY PLAN
 - a. Groundwater Sustainability Plan Annual Report
 - b. GSP Development Grants (Proposition 1 and Proposition 68) and Project Agreements
 - c. Groundwater Sustainability Plan Implementation
10. DISCUSSION ON STAFFING

11. *CONSIDER APPROVING THE PROPOSAL FROM PROVOST & PRITCHARD CONSULTING GROUP TITLED ADDENDUM #3 TO CONSULTANT SERVICES AGREEMENT (CSA) NO. 18-344- CONSULTING SERVICES FOR TAX YEAR 2022-2023 DIRECT CHARGE PREPARATION, GLENN GROUNDWATER AUTHORITY, GLENN COUNTY, CALIFORNIA AND AUTHORIZE THE CHAIRMAN TO EXECUTE AN AGREEMENT PENDING LEGAL REVIEW
12. 2022/2023 BUDGET
 - a. Discuss 2022/2023 Budget Preparations
 - b. * Appoint 2022/2023 Budget Ad Hoc Committee
13. *TECHNICAL ADVISORY COMMITTEE MEMBER APPOINTMENT
14. COMMITTEE UPDATES
 - a. Executive Committee
 - i. CGA/GGA Joint Executive Committee
 - b. Multi-Benefit Recharge Pilot Project Ad Hoc Committee
 - c. Recharge Pilot Project Ad Hoc Committee
 - d. Technical Advisory Committee
 - e. Water Well Drilling Permits and Standards Ad Hoc Committee
15. CLOSED SESSION

Gov't Code §54956.9 – Conference with Legal Counsel – Anticipated or significant exposure to litigation regarding tax refund claims and challenges to previously adopted property related fees.
16. CLOSED SESSION

Gov't Code §54956.9 – Conference with Legal Counsel – Existing Litigation
Aqualliance, California Water Impact Network, and California Sportfishing Alliance vs. Colusa Groundwater Authority, Glenn Groundwater Authority
Colusa County Superior Court - Case Number CV24584
17. REPORT OUT FROM CLOSED SESSION
18. MEMBER REPORTS AND COMMENTS
19. NEXT MEETING
20. ADJOURN

*Indicates Action Item

A complete agenda packet, including back-up information, is available for public inspection during normal work hours at 225 North Tehama Street, Willows, CA 95988. After posting of this Meeting Agenda, the public may request copies of support information for public agenda items listed.

In compliance with the Americans with Disabilities Act, The Glenn Groundwater Authority will make available to persons with a disability disability-related modification or accommodations. Notification two days prior to the meeting will enable the Glenn Groundwater Authority to make arrangements to provide reasonable accommodations. If requested, this document and other agenda materials can be made available in an alternative format for persons with a disability who are covered by the Americans with Disabilities Act. Contact Lisa Hunter at 530-934-6540.

CERTIFICATION: Pursuant to Government Code §54954.2 the agenda for this meeting was properly posted on or before 1:30 pm on March 13, 2022.



Groundwater Sustainability Plan First Annual Report, 2022

Overview of Groundwater Conditions and Water Supply through 2021

March 16, 2022

Introductions

Grant Davids, PE
Davids Engineering

Ken Loy, PG, CEG, CHG
West Yost

Katie Klug, PhD
Davids Engineering

Anna Reimer, PG
West Yost

Outline

- 1. Overview**
 - Colusa Subbasin GSP
 - Annual Report Requirements
- 2. Groundwater Conditions**
 - Groundwater Levels
 - Change in Groundwater Storage
 - Subsidence
- 3. Water Supplies and Water Use**
- 4. GSP Implementation**
- 5. Questions and Answers**

Overview

Colusa Subbasin Groundwater Sustainability Plan (GSP)

GSP implementation has begun and will continue through 2042.

The **GSP is a dynamic planning document** that will guide how groundwater will be managed over the next two decades.

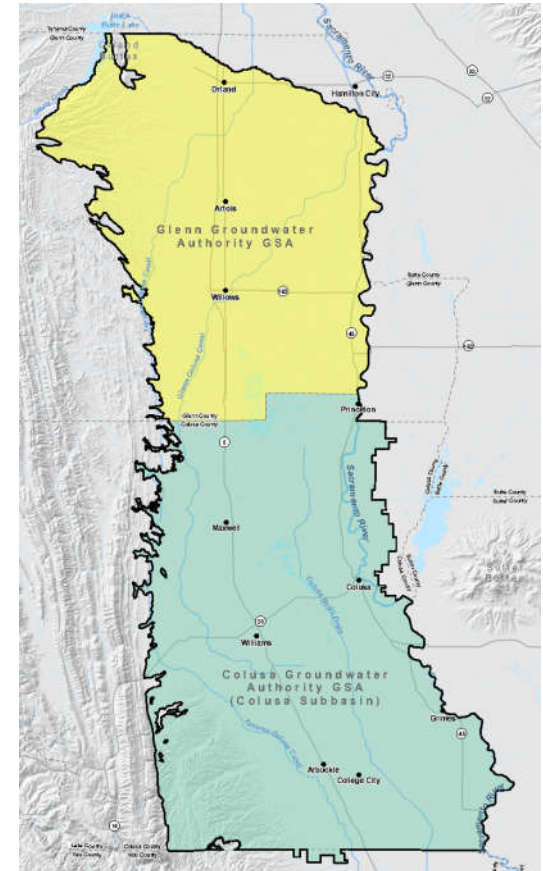
As conditions change and data gaps are filled, the GSP will be updated.

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Avoiding adverse impacts is based on the evaluation of six Sustainability Indicators:



Note: Seawater intrusion was determined to be not applicable in the Colusa Subbasin.



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- GSAs must prepare Annual Reports each year during GSP implementation
 - Provide updates for a subset of GSP content every water year (Oct 1 – Sept 30)
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- Required Contents:
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 - Water Supply and Water Use Conditions
 - Progress Toward Plan Implementation

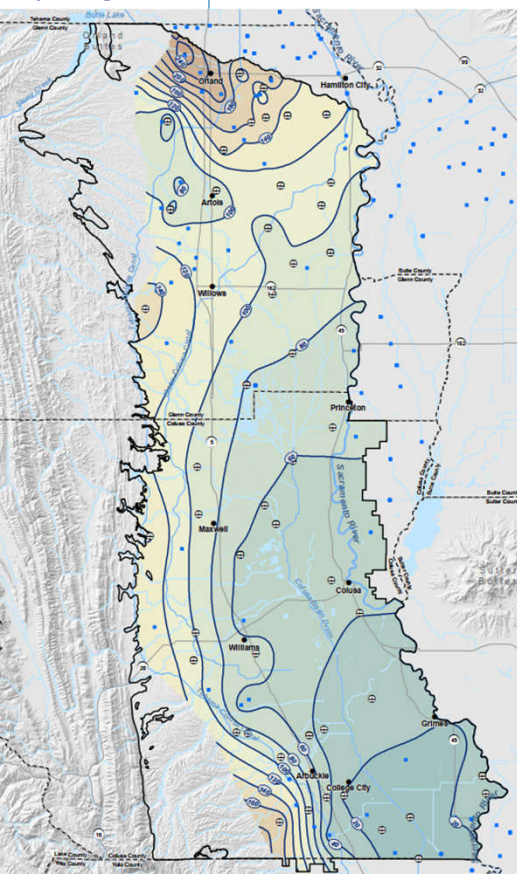
Groundwater Conditions

Groundwater Levels
Change in Groundwater Storage
Subsidence

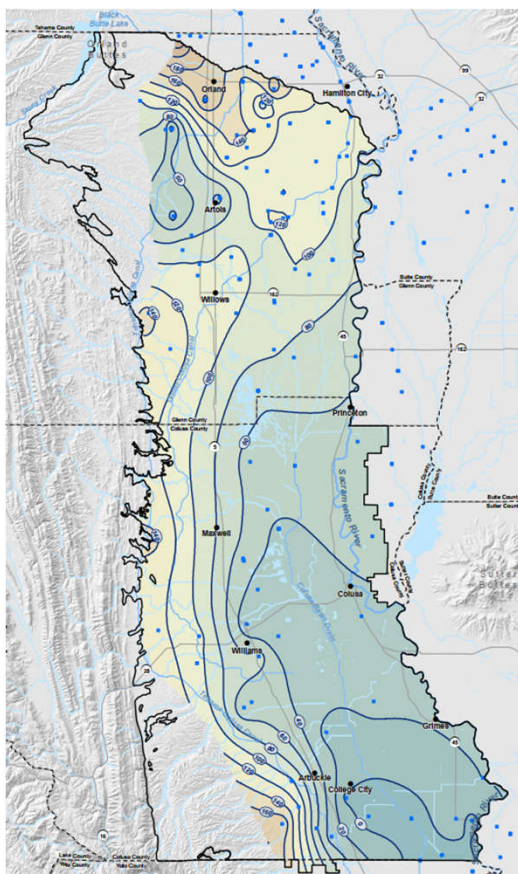
Groundwater Elevations 2020 through 2021

****DRAFT for Discussion****

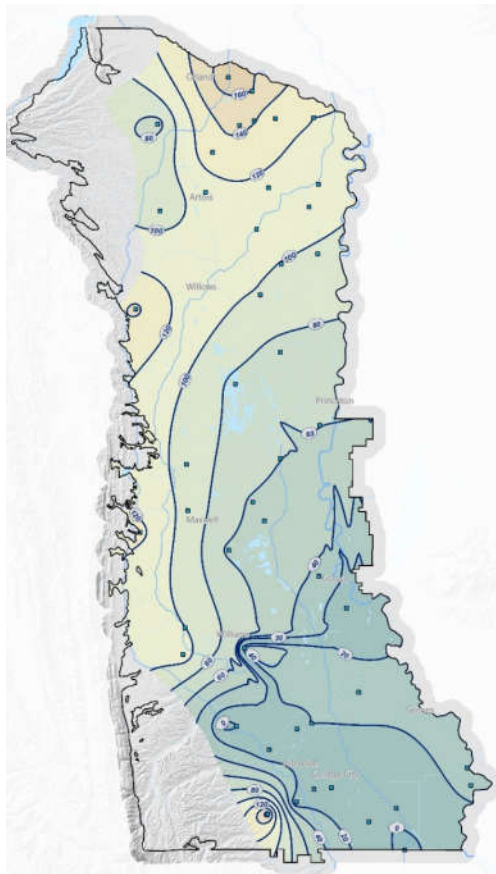
Spring 2020



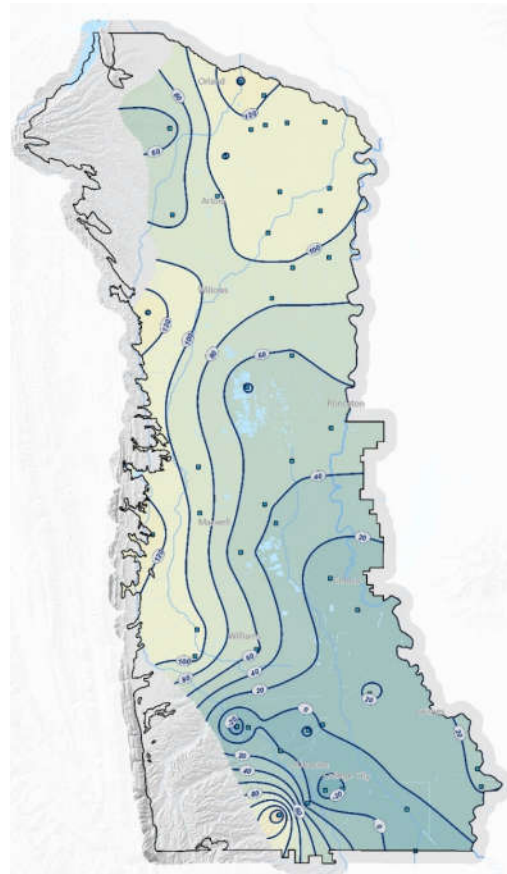
Fall 2020



Spring 2021



Fall 2021

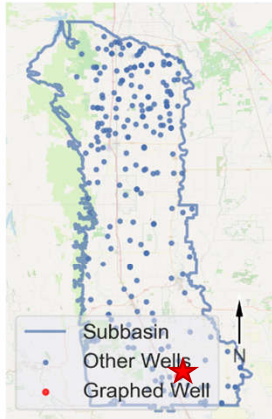


March 16, 2022

Colusa Subbasin GSP | First Annual Report, 2022

8

Well Location Map

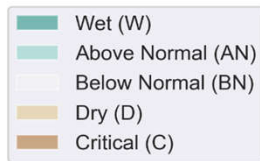


Sustainable Management Criteria:

IM (2027) = -9.0 ft AMSL
 MO = -9.0 ft AMSL
 MT = -106.0 ft AMSL

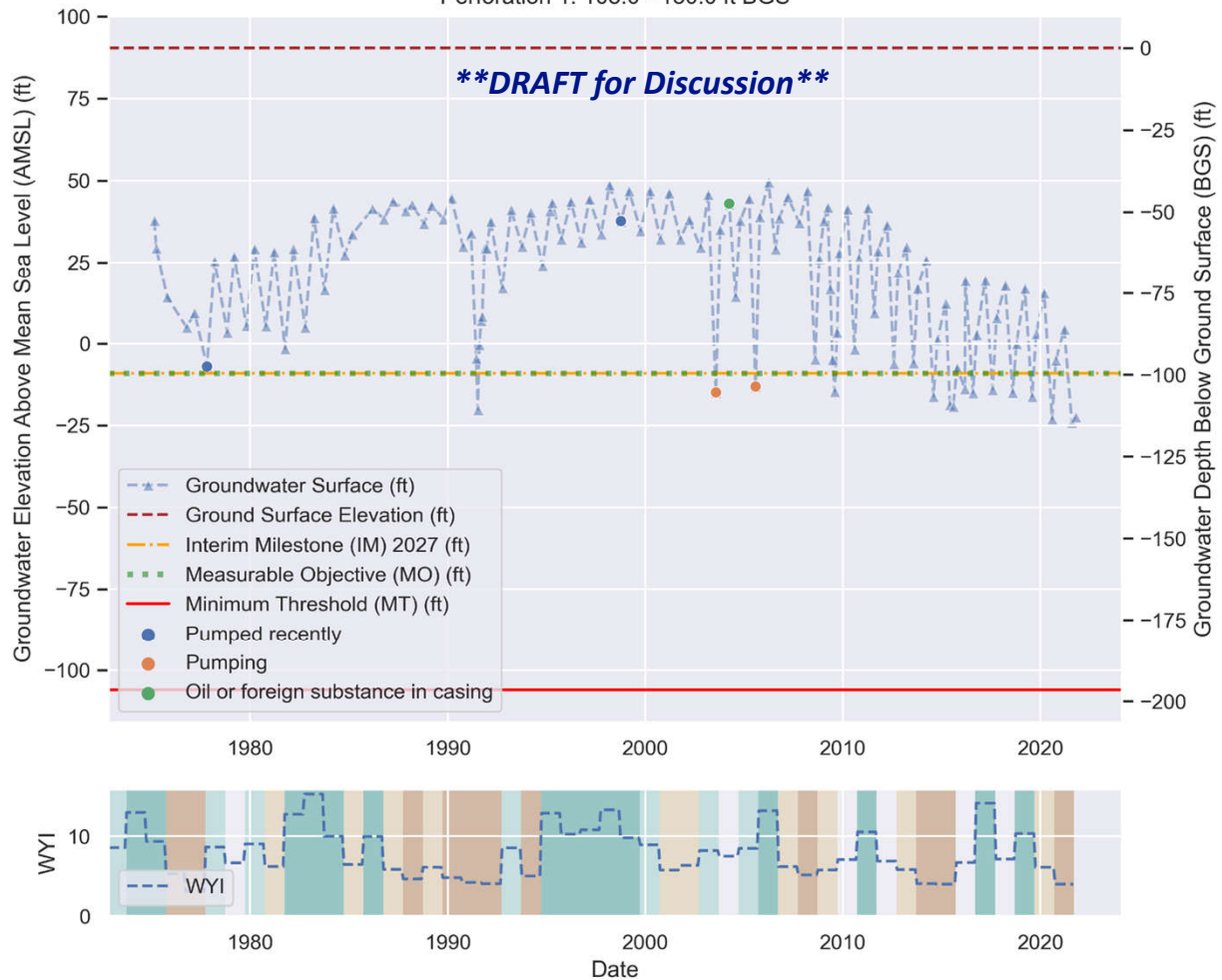
Minimum Threshold is 50% of Range Below Historical.

Sacramento Valley Water Year Index (WYI) shown on lower right. Meaning of colors defined below.



COLUSA Subbasin - State Well Number (SWN): 13N01W07G001M

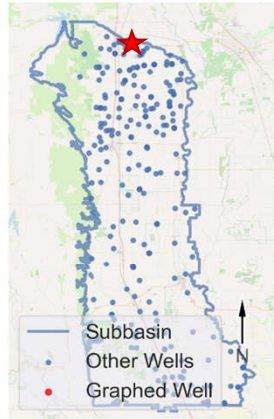
Perforation 1: 108.0 - 180.0 ft BGS



COLUSA Subbasin - State Well Number (SWN): 22N03W24E002M

Perforation 1: 130.0 - 150.0 ft BGS; Perforation 2: 170.0 - 180.0 ft BGS

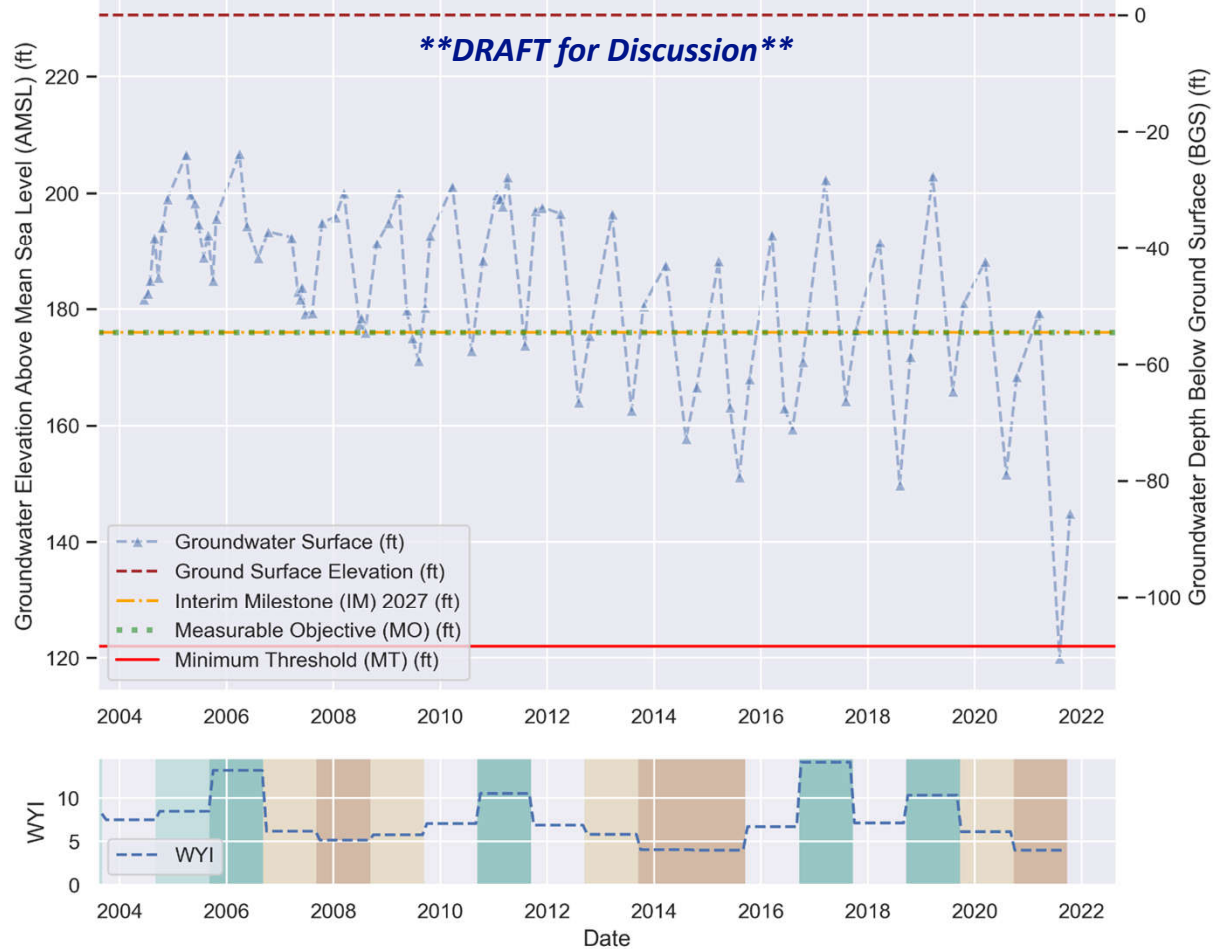
Well Location Map



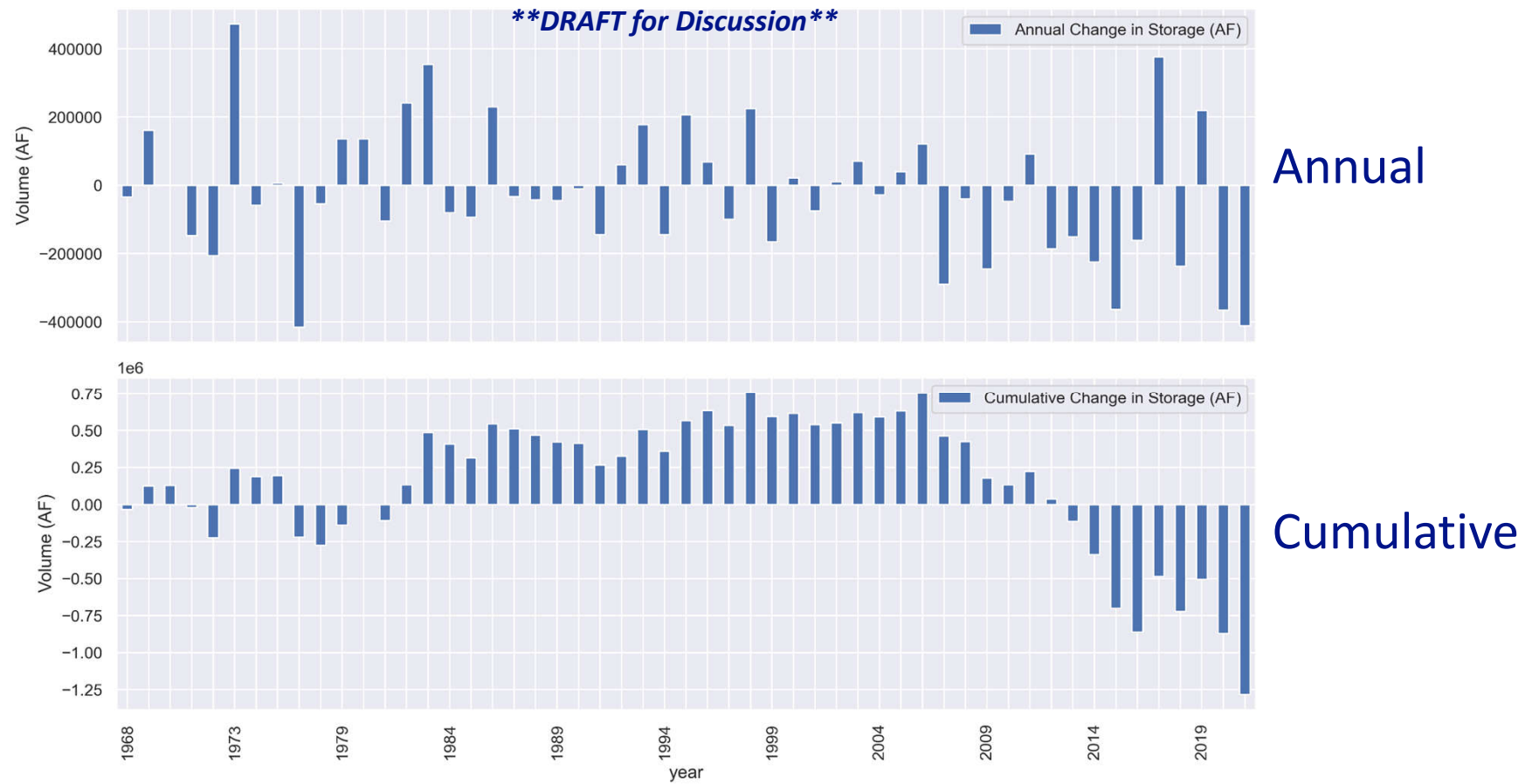
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IM (2027) = 176.0 ft AMSL
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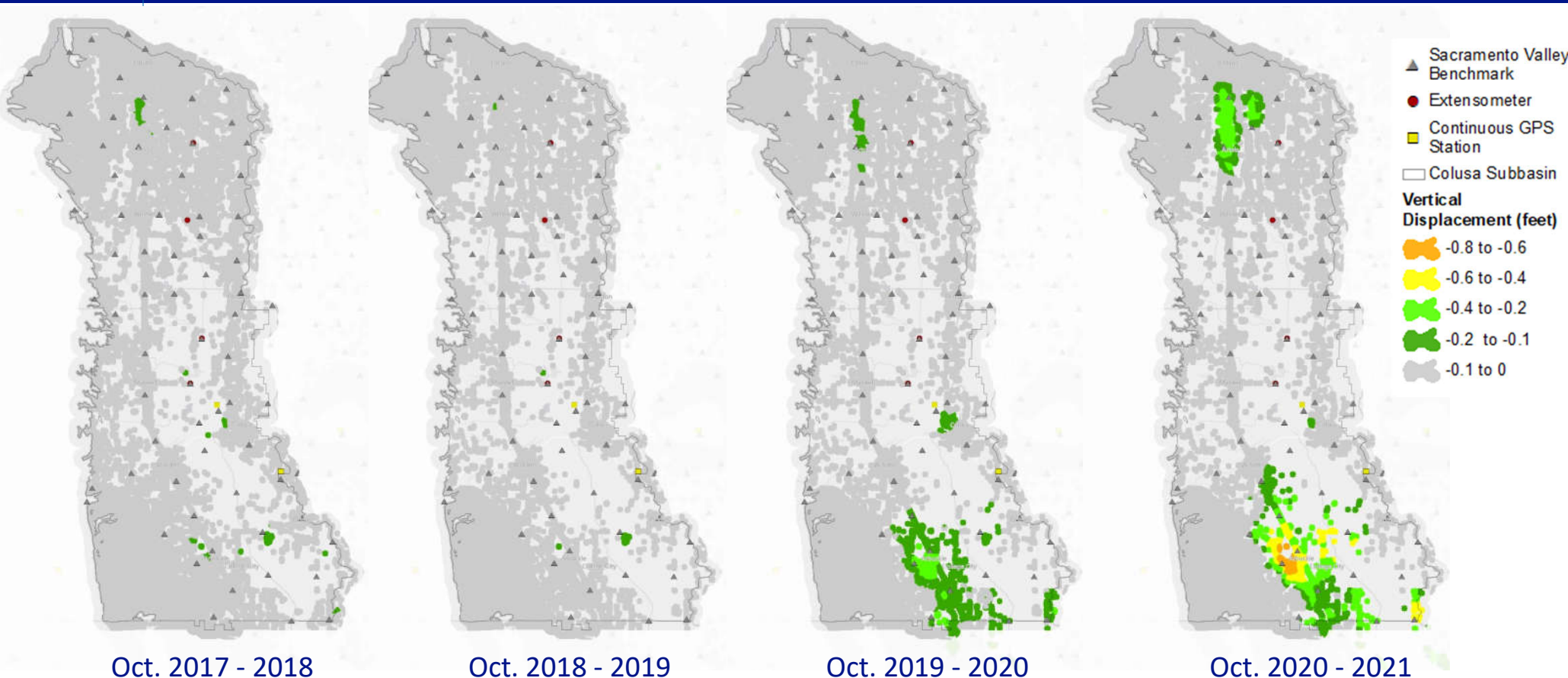


Annual and Cumulative Change in Groundwater Storage



Annual Subsidence 2017 to 2021 (TRE-ALTAMIRA InSAR Land Survey)

****DRAFT for Discussion****



March 16, 2022

Colusa Subbasin GSP | First Annual Report, 2022

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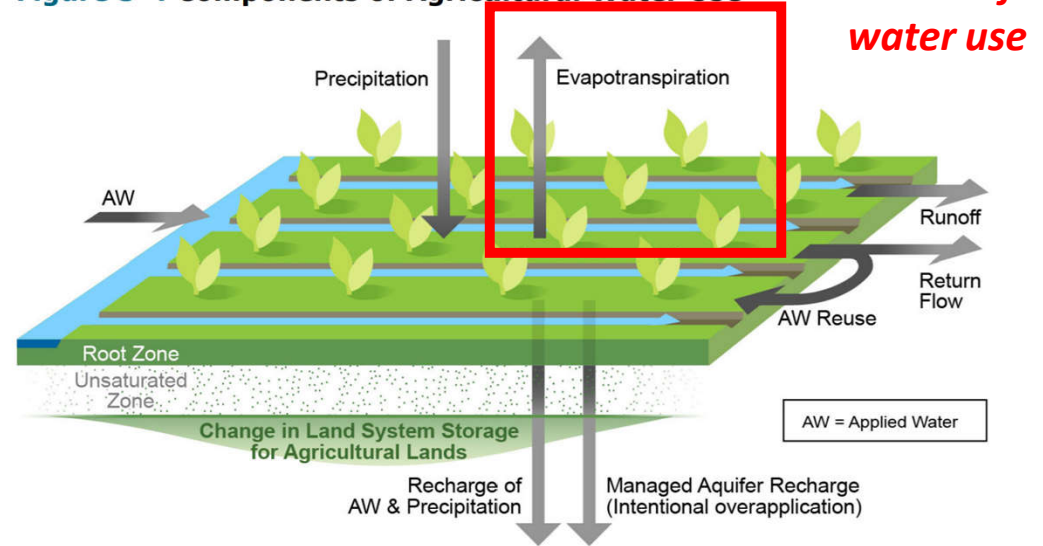
Water Supplies and Water Use

Surface Water Supplies
Groundwater Extraction
Total Water Use

Approach for Quantifying Water Use

- Use measured data (where available)
- Estimate the remaining use through a water balance approach using reliable evapotranspiration data

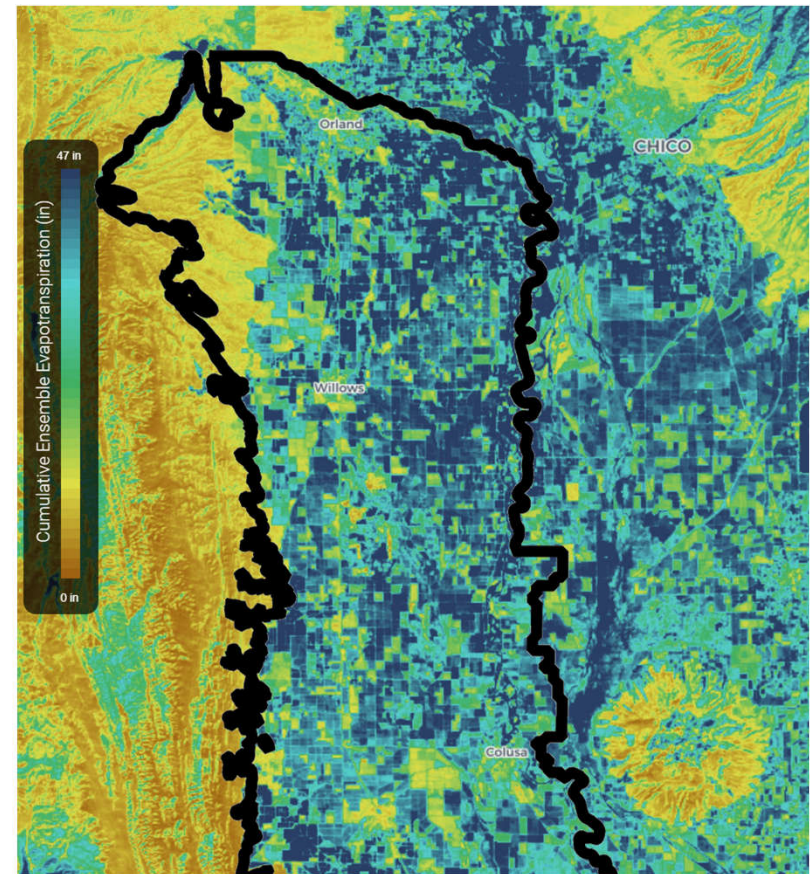
Figure 3-4 Components of Agricultural Water Use



Source: DWR. 2020. Draft Handbook for Water Budget Development With or Without Models. Available at: <https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Data-and-Tools/Files/Water-Budget-Handbook.pdf>

Consumptive Water Use (Evapotranspiration)

- Evapotranspiration (ET) is a major driver of water use in the Colusa Subbasin
- Total water demand quantified from OpenET and remote sensing data



Source: <https://openetdata.org/>

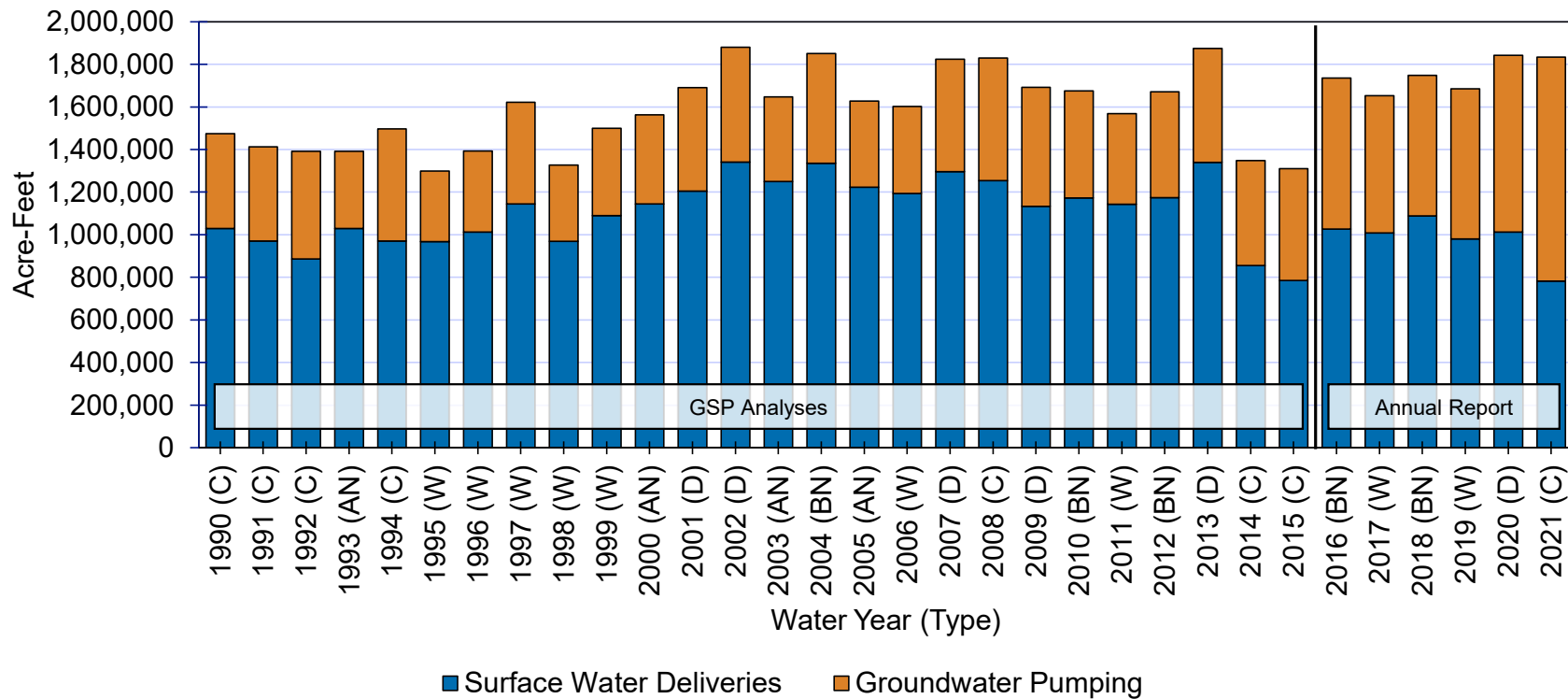
Surface Water Supplies Available Each Water Year Average in 2016-2021 (*Volume in 2021*)

****DRAFT for Discussion****

- CVP Contract Supplies:
 - Tehama-Colusa Canal: 181 TAF (139 TAF)
 - Sacramento River: 929 TAF (778 TAF)
- Other Supplies:
 - Orland Project (South Canal): 44 TAF (28 TAF)
 - Colusa Basin Drain: some diversions of natural flows when available; not much in dry years (most water is passed through from upstream Sacramento diverters)

Total Water Use for Agriculture

****DRAFT for Discussion****



Water Use for Other Purposes

****DRAFT for Discussion****

- **Urban and Rural Residential Groundwater Production: 10.2 TAF in 2021**
 - Measured (Williams, Orland, Willows): 4 TAF in 2021
 - Estimated (Colusa, Arbuckle, Unincorporated): 6.2 TAF in 2021
- **Managed Wetlands:**
 - Primarily Sacramento NWR, Delevan NWR, and Colusa NWR
 - Unconstrained conditions: CVPIA Full Level 4 water supplies total more than 100 TAF
 - Constrained conditions in 2021, refuges allocated 75% of this quantity
- **Native Vegetation:** Driven by ET, most is met by precipitation

GSP Implementation

Progress on PMAs Since GSP Development

- Colusa Subbasin Multi-Benefit Groundwater Recharge
- Sycamore Slough Groundwater Recharge Pilot Project
- Orland-Artois Water District Land Annexation and Groundwater Recharge
- Tehama-Colusa Canal Trickle Flow to Ephemeral Streams (RD 108)

Other Activities Since GSP Development

- Well Monitoring Pilot Program
 - Planning program expansion to add 16 new sites in spring 2022
 - Plan for program operation through December 2024
- Hydrogeologic Investigation
 - Planning efforts to fill data gaps
 - Sample topics:
 - Shallow groundwater monitoring (GDEs, interconnected surface water)
 - Subsidence benchmarks (subsidence monitoring)
- Expansion of subsidence monitoring network (10 additional benchmarks)

Closing Remarks

- Complete draft Annual Report will be available for review 3/18
- Comments and questions can be directed to:
Katie Klug
Katherine@davidsengineering.com

Questions and Answers

Colusa Groundwater Authority Board of Directors

1213 Market Street, Colusa, CA 95932 | 530-458-0891 | www.colusagroundwater.org

MEETING AGENDA

March 22, 2022 | 1:00 p.m.

NOTICE: Pursuant to Government Code section 54953(e) (AB 361), and due to the State of Emergency declared by Governor Newsom on March 4, 2020, this meeting will be conducted in person with a teleconference option. The public may attend the meeting and offer public comments in person or via
Zoom

In-person meeting location: Colusa Industrial Properties, 100 Sunrise Blvd., Colusa, CA 95932

Virtual meeting via Zoom:

Colusa Groundwater Authority Board of Directors Meeting

Time: Mar 22, 2022 01:00 PM Pacific Time (US and Canada)

Join Zoom Meeting

<https://countyofcolusa.zoom.us/j/6707238820?pwd=NjFMcnJOUENuSFhtRFFtaWltejYzZz09>

Meeting ID: 670 723 8820

Passcode: 004212

One tap mobile

+16699006833,,6707238820#,,,,*004212# US (San Jose)

+12532158782,,6707238820#,,,,*004212# US (Tacoma)

** Indicates action item*

1. Call To Order and Determination of Quorum

- a. Roll Call of Officers and Alternates
- b. Introductions of others in attendance

2. Approval of Agenda and Minutes

- a. * Approval of Minutes from the January 25, 2022 Board Meeting

3. Period Of Public Comment

At this time, members of the public may address the CGA Board regarding items that are not on the agenda but are of relevance to the CGA. The Board may not act on items not on the agenda.

4. Financial Report

- a. Review Financial Statements
- b. * Review and consider approval of Claims

5. Colusa Subbasin Groundwater Sustainability Plan Update

- a. Groundwater Sustainability Plan Annual Report-Presentation by Davids Engineering

- b. GSP Development Grants (Proposition 1 and Proposition 68) and Project Agreements
- c. Groundwater Sustainability Plan Implementation

6. *Consider approval of Provost and Prichard Addendum #3 to Consultant Services Agreement (CSA) No. 18-197: Consulting Services for Tax Year 2022-2023 Direct Charge Preparation, Colusa Groundwater Authority, Colusa and Yolo Counties, California

- a. Staff recommends authorizing the Chair to execute an agreement with Provost & Pritchard Consulting Group pending legal review in an amount not to exceed \$3,500.

7. *Consider approval of RFP for Program Manager Services for the CGA.

Ad Hoc Committee Report (Denise Carter, Shelly Murphy)

- a. Ad Hoc recommends approval to release RFP for Program Manager Services.

8. Committee Reports

- a. Long Term Funding Ad Hoc – Thad Bettner, Darrin Williams, Jeff Moresco
- b. Program Manager Ad Hoc –Shelly Murphy, Denise Carter
- c. Budget Ad Hoc – Dan Ruiz, Shelly Murphy, Jeff Moresco, Denise Carter.
- d. Consider adding Ad Hoc on community outreach –

9. Presentation: Pilot Project, Trickle charge to Ephemeral Streams – William Vanderwaal

10. Presentation from RCD on funding opportunities for Groundwater Sustainability Projects-Liz Harper

11. DWR Update: Brandon Davison

12. Program Manager Report

13. Closed Session

Gov't Code 54956.9 – Conference with Legal Counsel – existing litigation
Aqualliance, California Water Impact Network, and California Sportfishing Alliance vs. Colusa Groundwater Authority, Glenn Groundwater Authority
Colusa County Superior Court – Case Number CV24584

14. Report out of Closed Session

15. Member Reports and Comments

16. Next Meeting: April 26, 2022

17. Adjourn

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Overview of Groundwater Conditions and Water Supply through 2021

March 22, 2022

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- Subsidence

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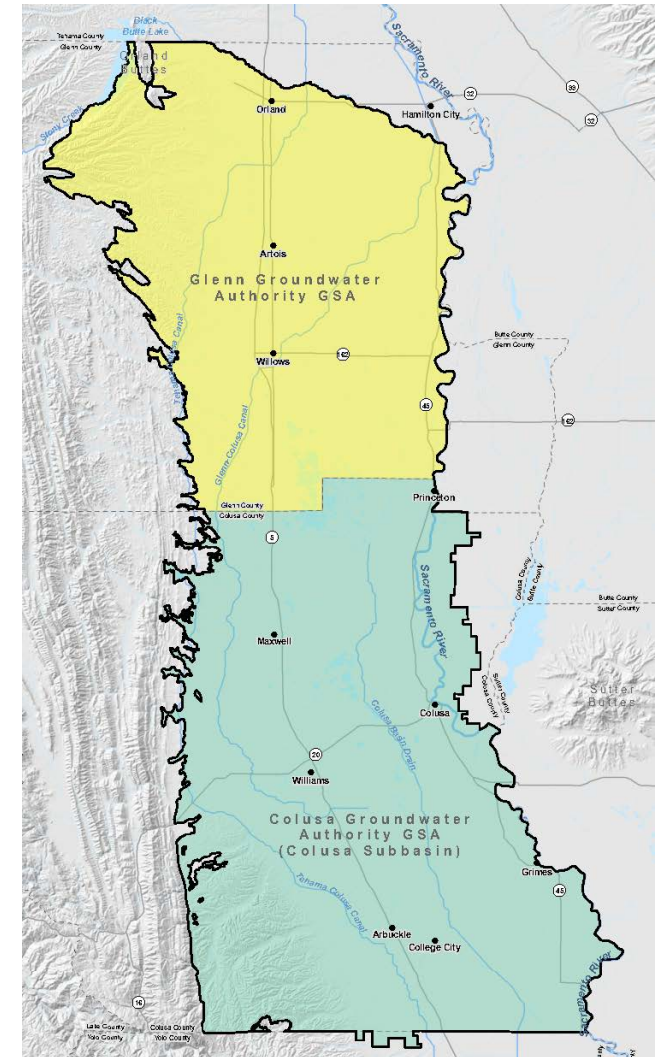
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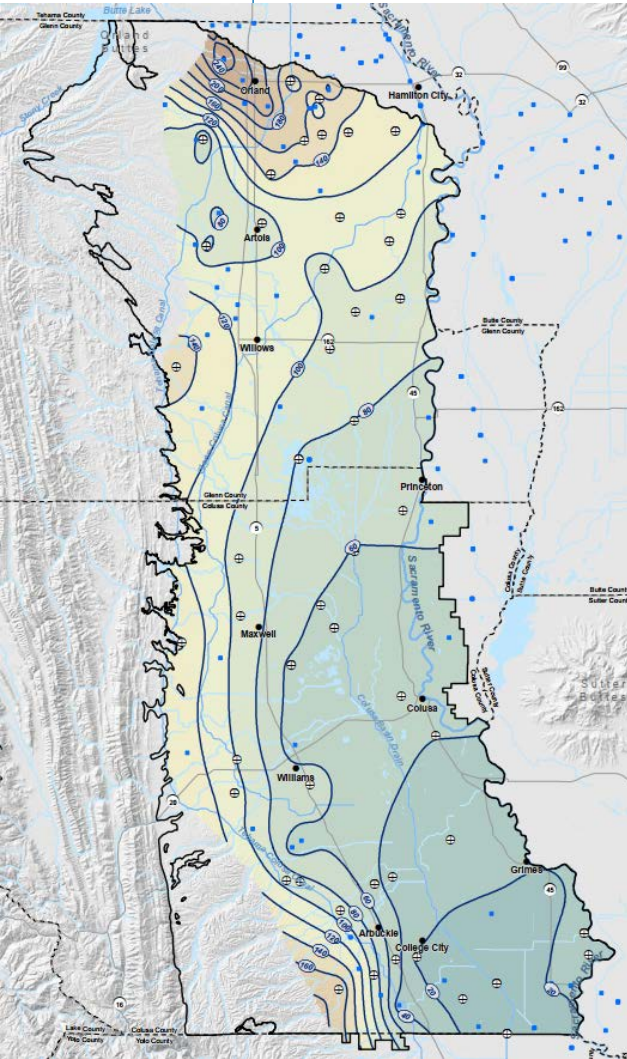
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Groundwater Levels
Change in Groundwater Storage
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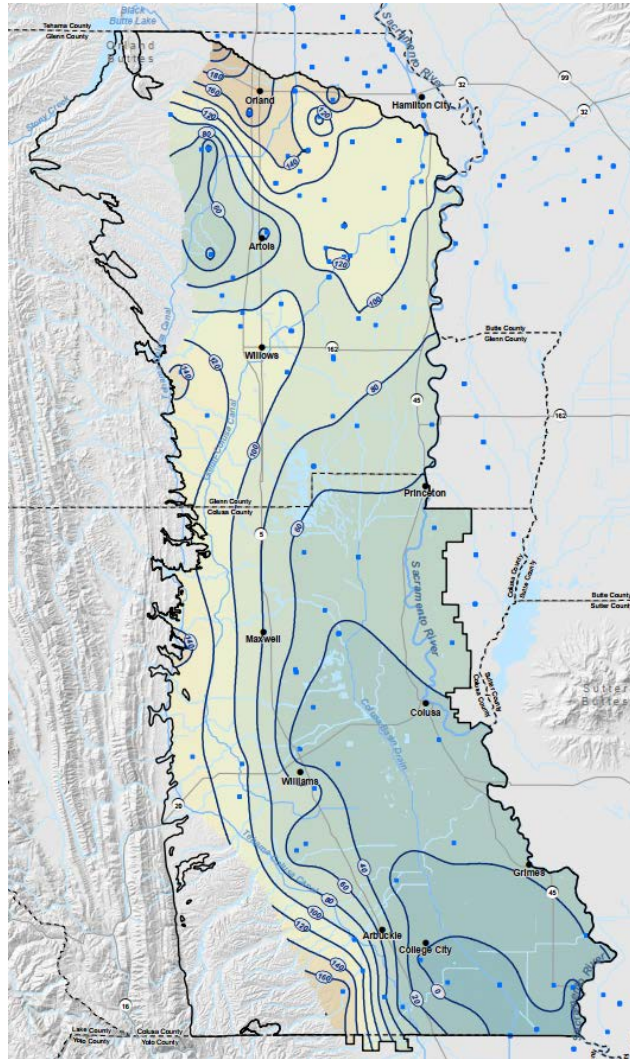
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****DRAFT for Discussion****

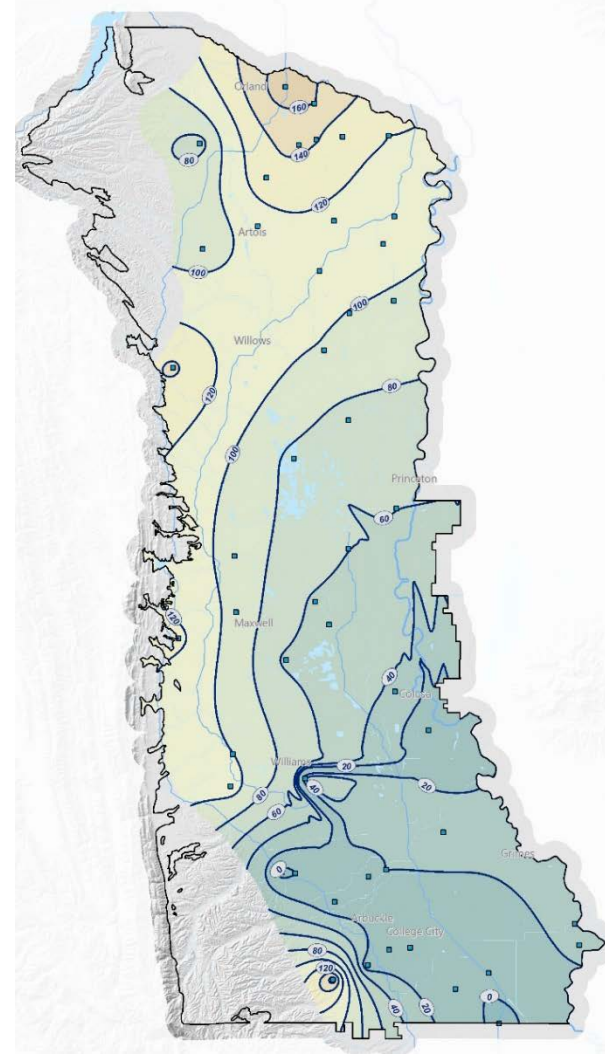
Spring 2020



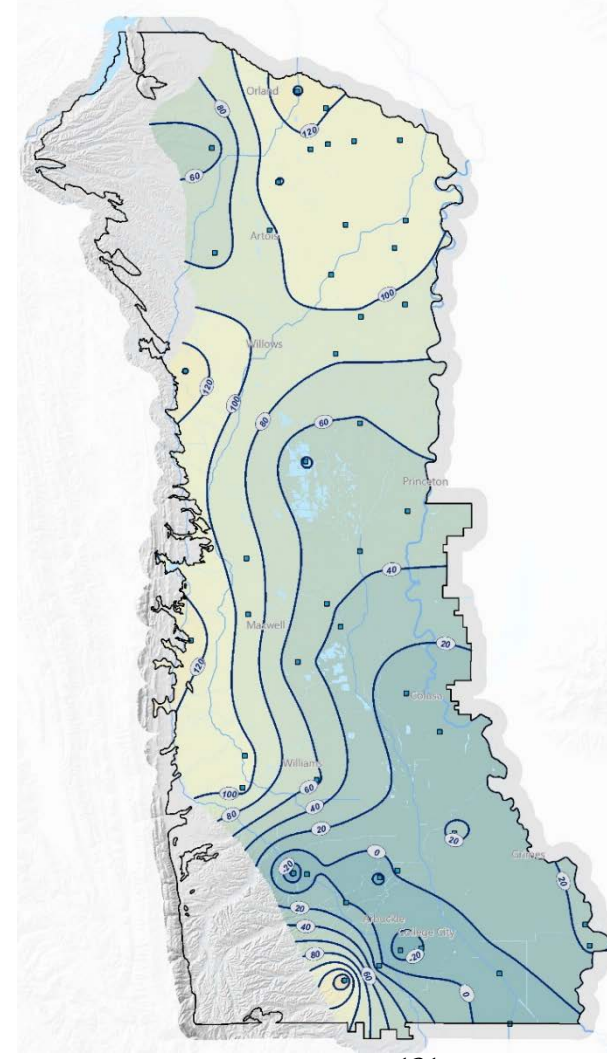
Fall 2020



Spring 2021

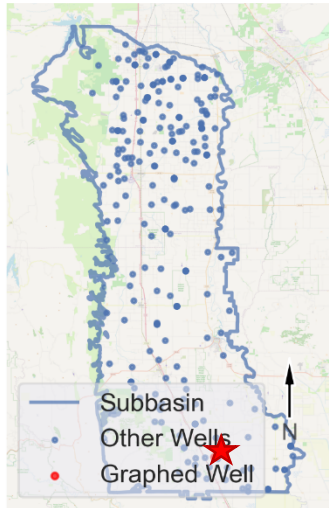


Fall 2021



COLUSA Subbasin - State Well Number (SWN): 13N01W07G001M

Well Location Map

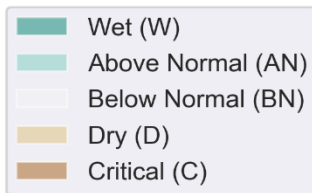


Sustainable Management Criteria:

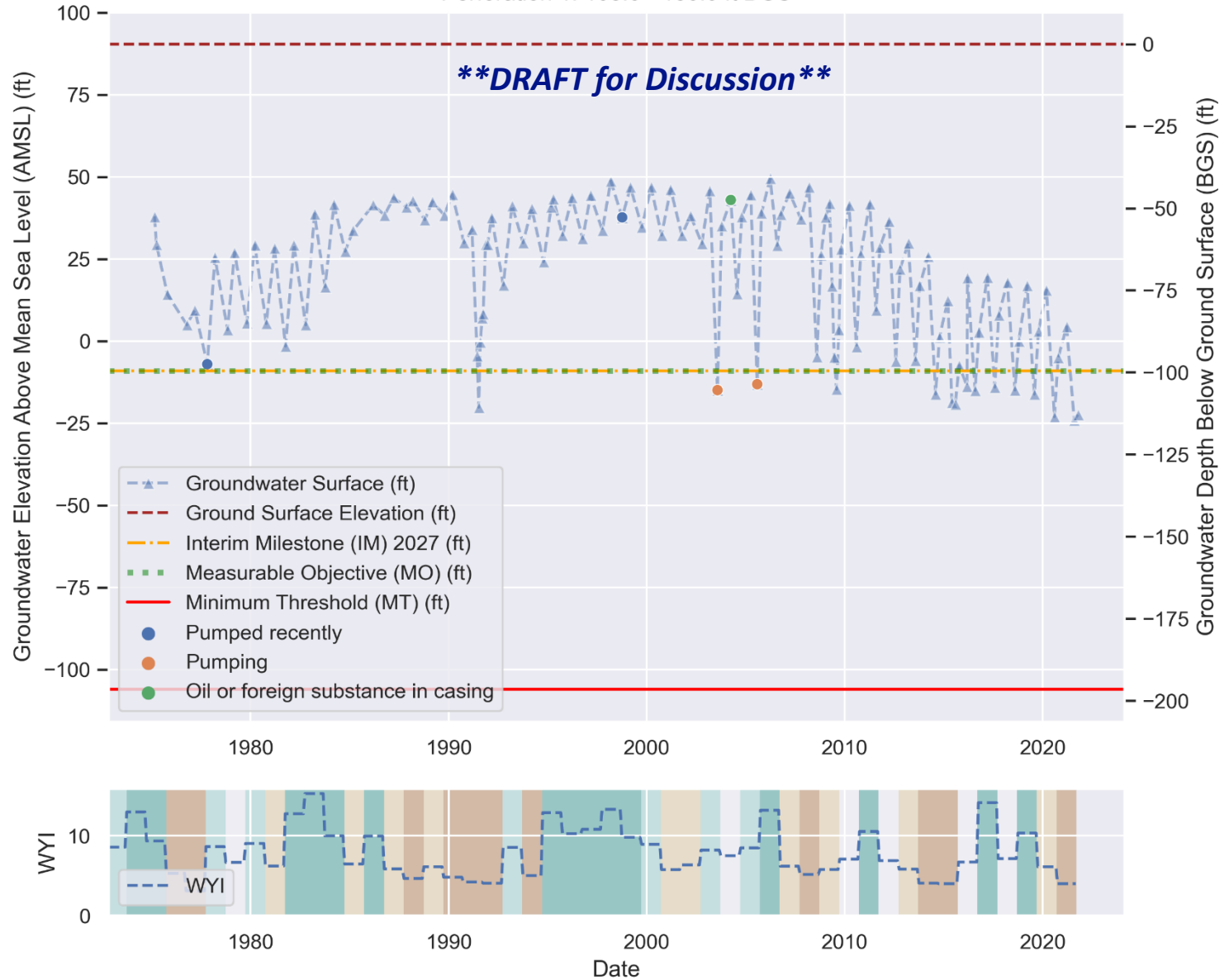
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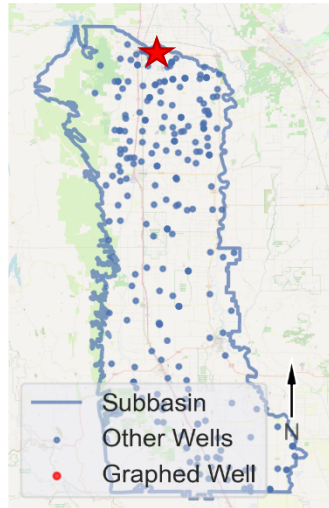
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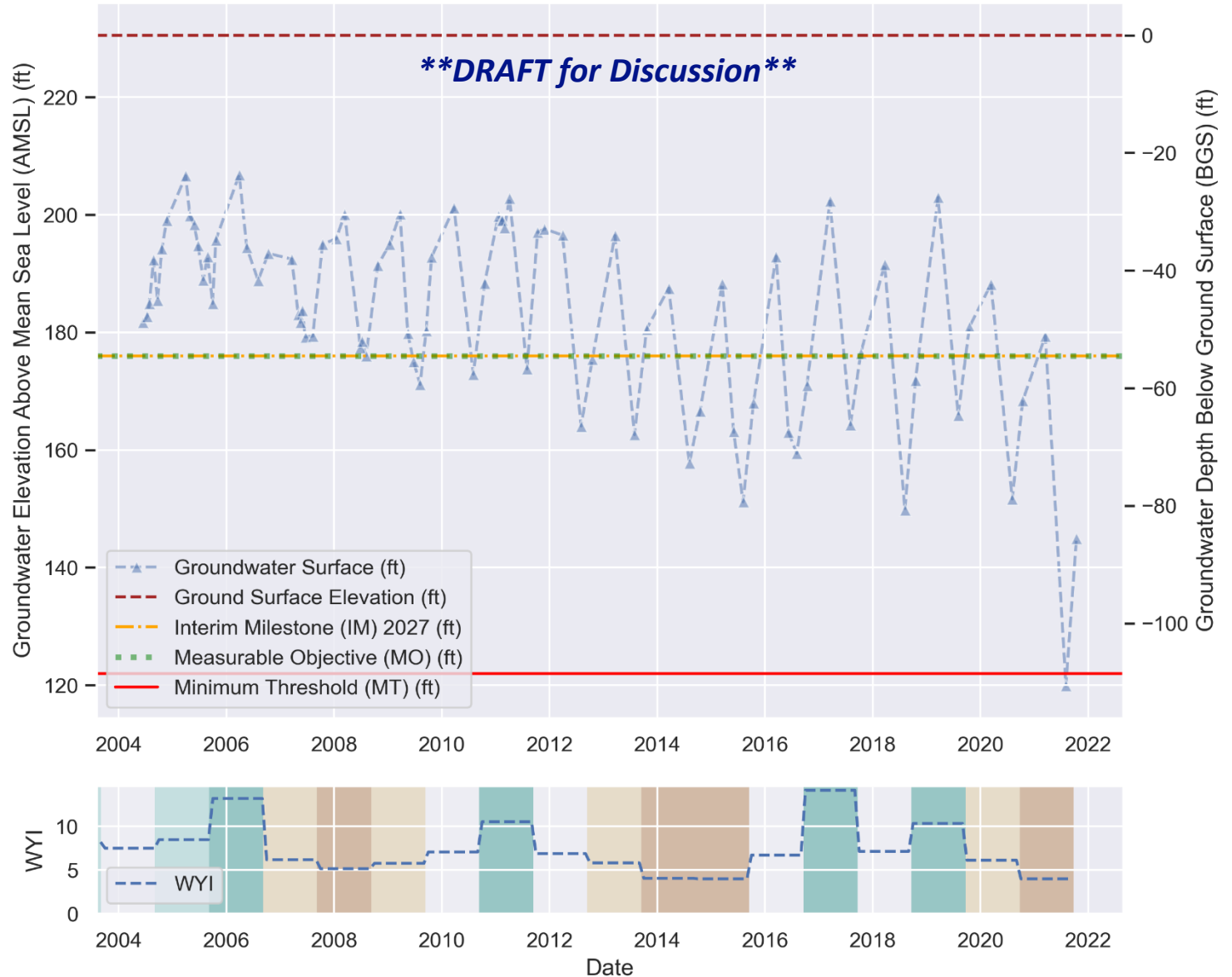
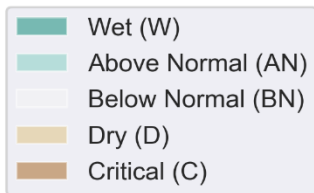


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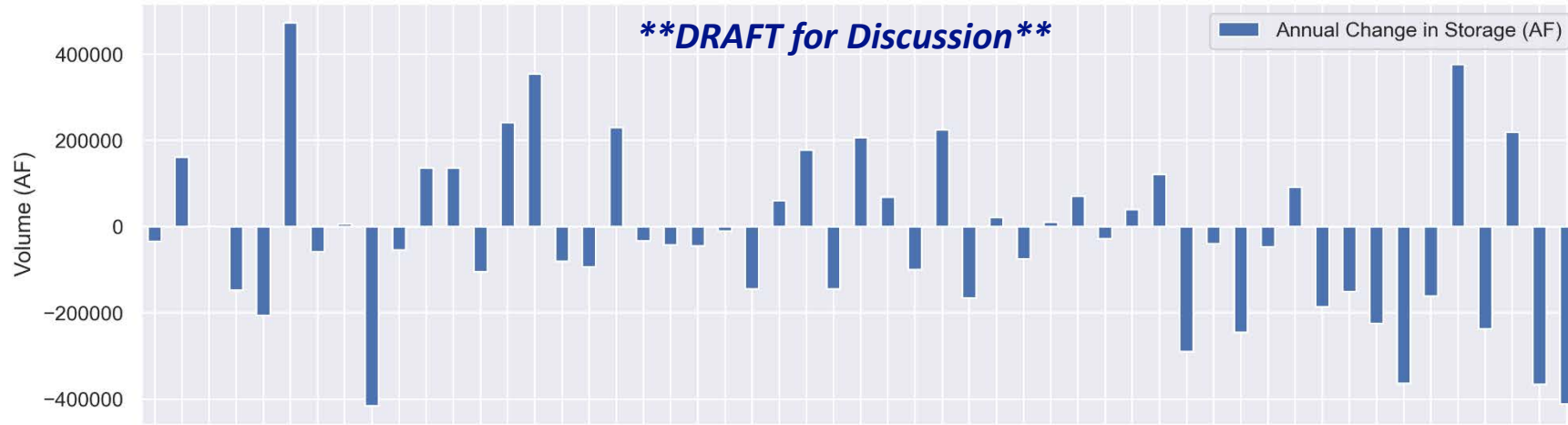
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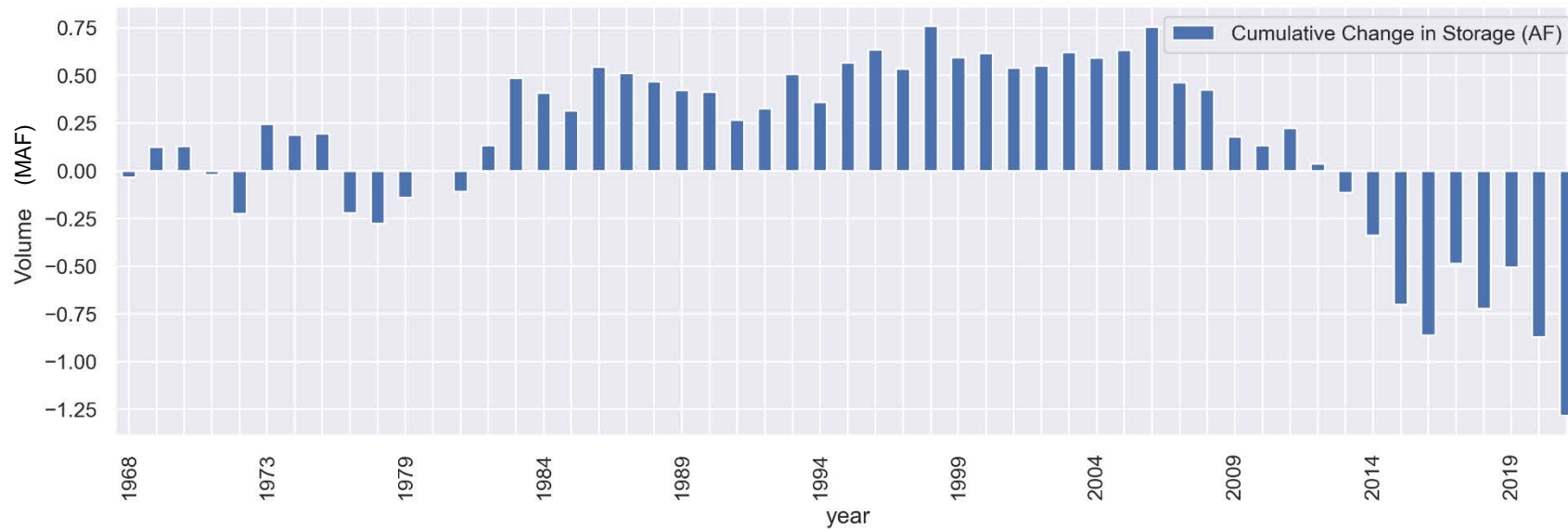
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Annual and Cumulative Change in Groundwater Storage



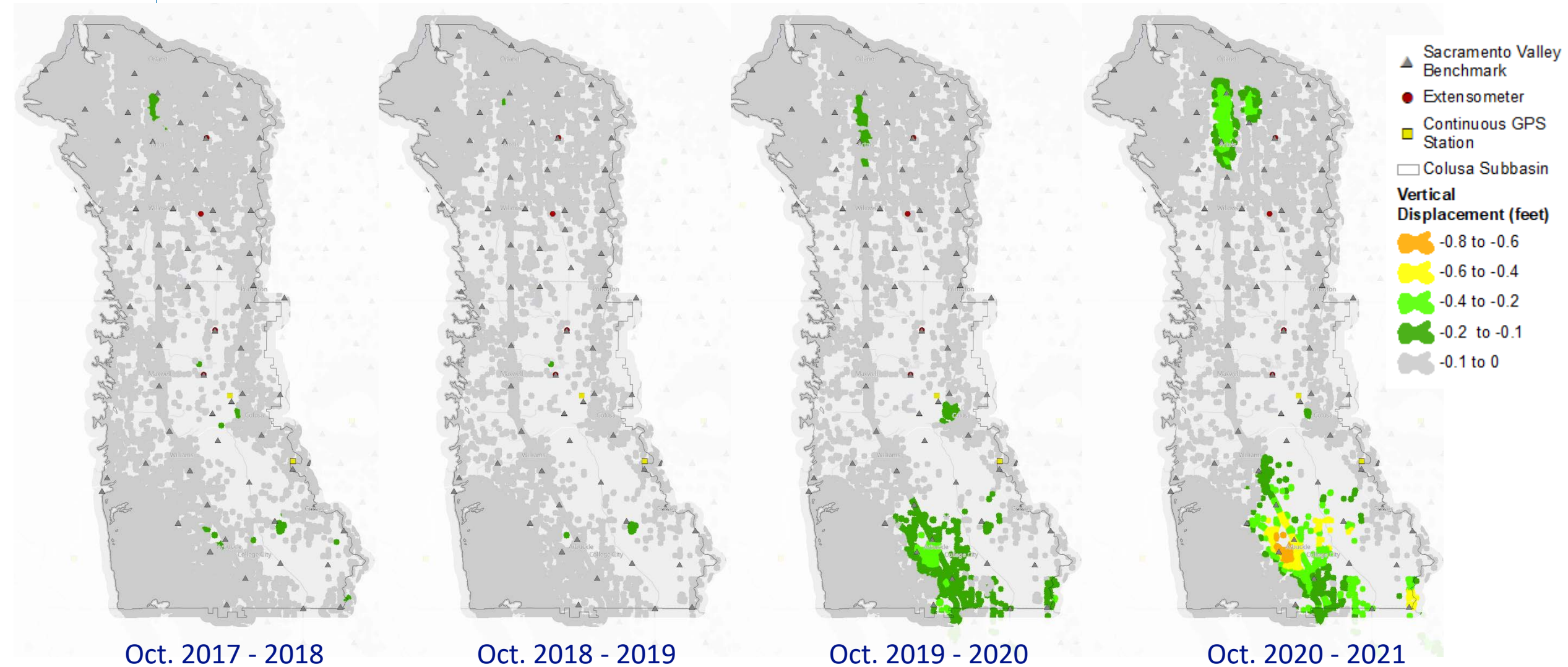
Annual



Cumulative

Annual Subsidence 2017 to 2021 (TRE-ALTAMIRA InSAR Land Survey)

****DRAFT for Discussion****



Oct. 2017 - 2018

Oct. 2018 - 2019

Oct. 2019 - 2020

Oct. 2020 - 2021

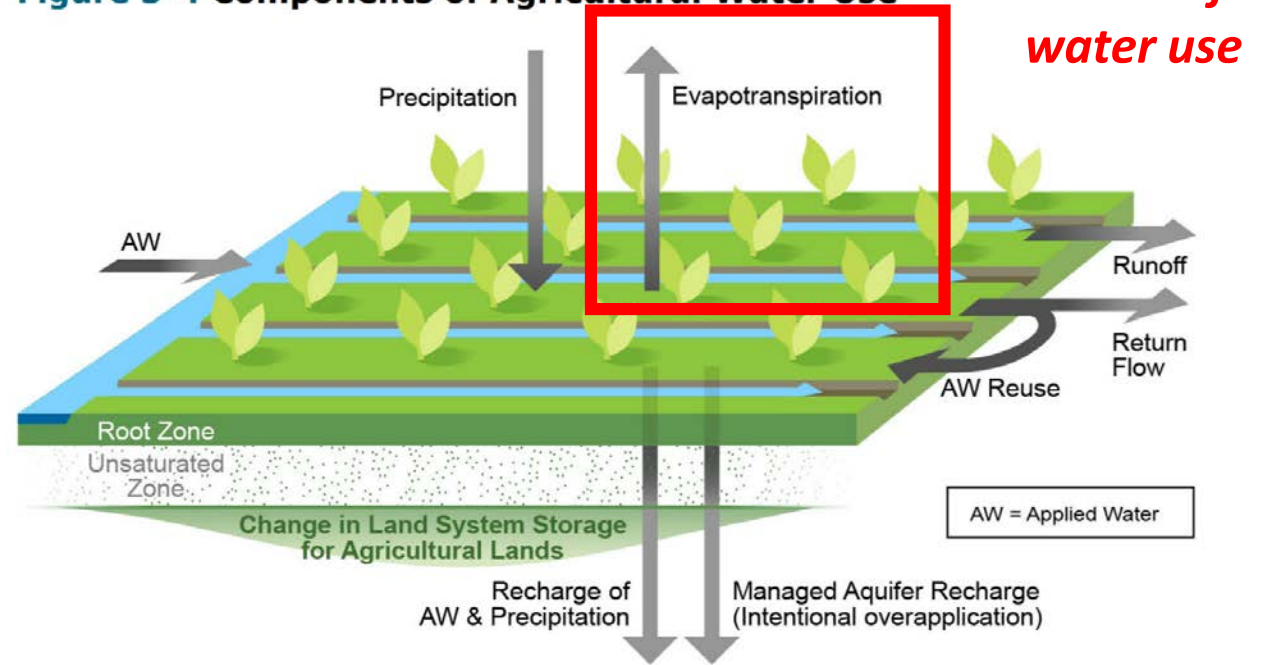
Water Supplies and Water Use

Surface Water Supplies
Groundwater Extraction
Total Water Use

Approach for Quantifying Water Use

- Use measured data (where available)
- Estimate the remaining use through a water balance approach using reliable evapotranspiration data

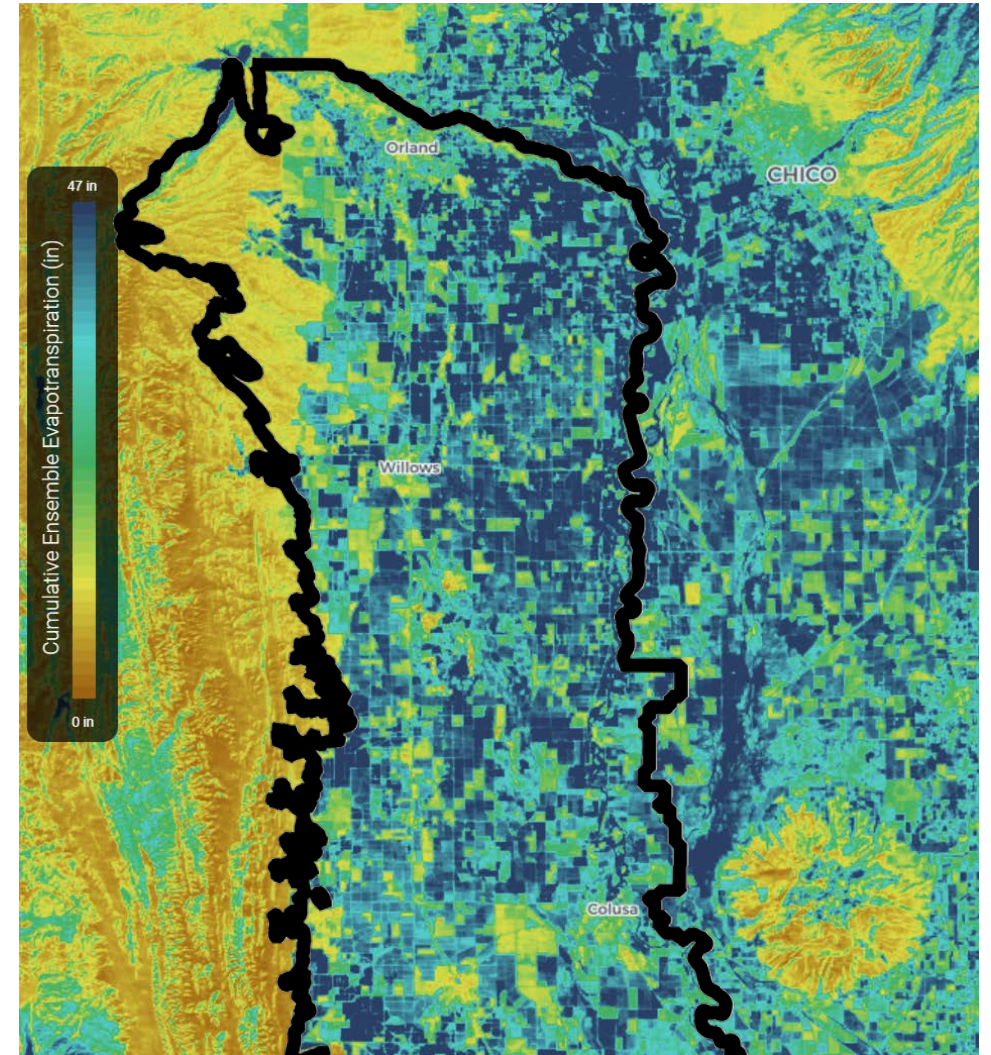
Figure 3-4 Components of Agricultural Water Use



Source: DWR. 2020. Draft Handbook for Water Budget Development With or Without Models. Available at: <https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Groundwater-Management/Data-and-Tools/Files/Water-Budget-Handbook.pdf>

Consumptive Water Use (Evapotranspiration)

- Evapotranspiration (ET) is a major driver of water use in the Colusa Subbasin
- Total water demand quantified from OpenET and remote sensing data



Source: <https://openetdata.org/>¹²⁸

Surface Water Supplies Available Each Water Year

Average in 2016-2021 (*Volume in 2021*)

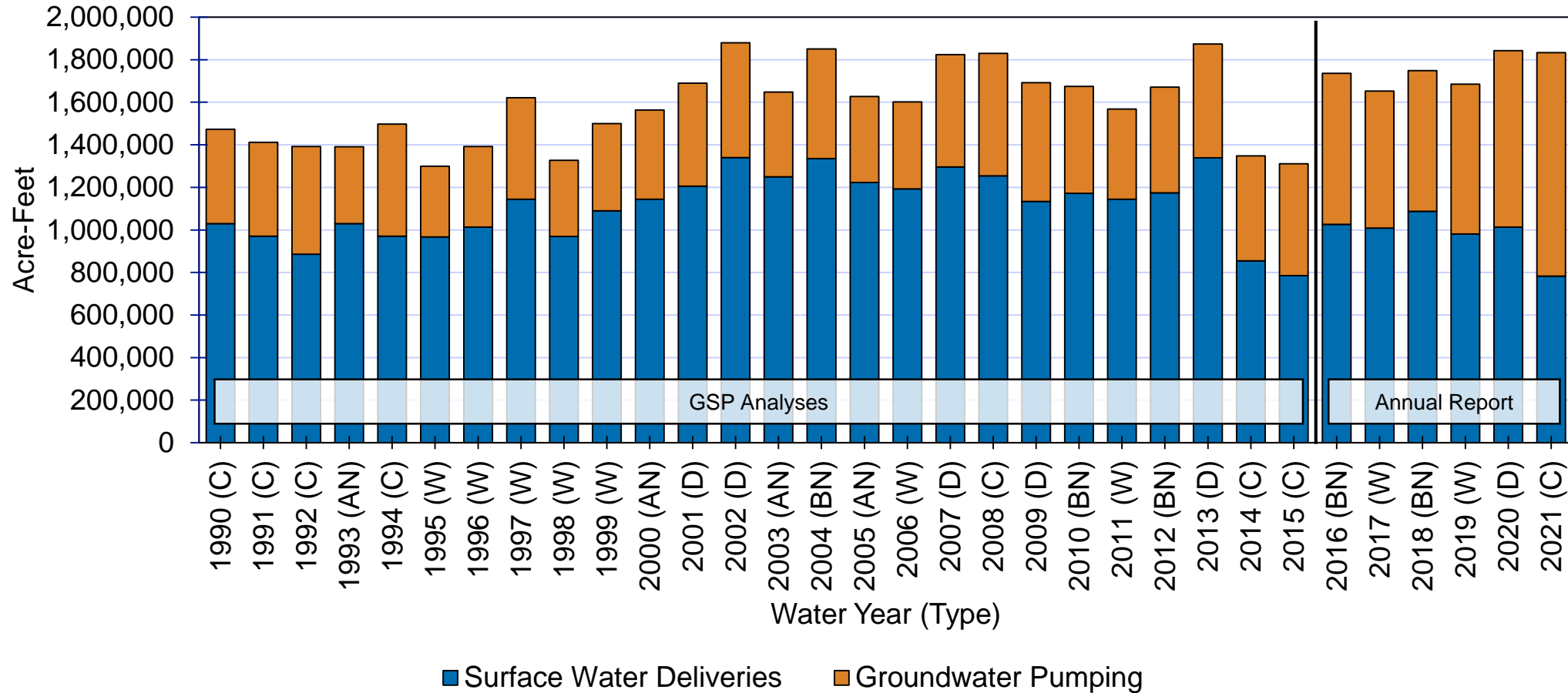
*****DRAFT for Discussion*****

- CVP Contract Supplies:
 - Tehama-Colusa Canal: 181 TAF (139 TAF)
 - Sacramento River: 929 TAF (778 TAF)

- Other Supplies:
 - Orland Project (South Canal): 44 TAF (28 TAF)
 - Colusa Basin Drain: some diversions of natural flows when available; not much in dry years (most water is passed through from upstream Sacramento diverters)

Total Water Use for Agriculture

****DRAFT for Discussion****



- **Urban and Rural Residential Groundwater Production: 10.2 TAF in 2021**
 - Measured (Williams, Orland, Willows): 4 TAF in 2021
 - Estimated (Colusa, Arbuckle, Unincorporated): 6.2 TAF in 2021
- **Managed Wetlands:**
 - Primarily Sacramento NWR, Delevan NWR, and Colusa NWR
 - Unconstrained conditions: CVPIA Full Level 4 water supplies total more than 100 TAF
 - Constrained conditions in 2021, refuges allocated 75% of this quantity
- **Native Vegetation:** Driven by ET, most is met by precipitation

GSP Implementation

Progress on PMAs Since GSP Development

- Colusa Subbasin Multi-Benefit Groundwater Recharge
- Sycamore Slough Groundwater Recharge Pilot Project
- Orland-Artois Water District Land Annexation and Groundwater Recharge
- Tehama-Colusa Canal Trickle Flow to Ephemeral Streams (RD 108)

Other Activities Since GSP Development

- Well Monitoring Pilot Program
 - Planning program expansion to add 16 new sites in spring 2022
 - Plan for program operation through December 2024
- Hydrogeologic Investigation
 - Planning efforts to fill data gaps
 - Sample topics:
 - Shallow groundwater monitoring (GDEs, interconnected surface water)
 - Subsidence benchmarks (subsidence monitoring)
- Expansion of subsidence monitoring network (10 additional benchmarks)

Closing Remarks

- Complete draft Annual Report is available for review now
- Comments and questions can be directed to:
Katie Klug
Katherine@davidsengineering.com

Questions and Answers



COLUSA SUBBASIN

Colusa Subbasin Well Monitoring Pilot Program Participant Information Form

BACKGROUND

The Colusa Subbasin Groundwater Sustainability Agencies (GSAs) are implementing an incentive-based pilot program to work with interested growers and landowners to continuously monitor groundwater use and water levels at participating wells. This voluntary, non-regulatory program is intended to support the GSAs in gathering information regarding groundwater use in the subbasin while providing participants with near-real time access to information on well production and groundwater levels at their wells to support irrigation management.

PROGRAM DESCRIPTION

Activities

Interested parties are invited to submit a brief application describing contact information, location, cropping, and other information related to the proposed groundwater well. Following the receipt of applications, participants will be selected considering certain criteria. Participants agree that the well location and information collected may be made publicly available. Participants also agree that GSA representatives may make site visits to inspect wells, verify installation, and collect manual measurements as needed.

Incentives

The program will cover the purchase cost of a flowmeter or upgrades to an existing flow meter (up to \$2,500), if needed, purchase and installation of a level sensor (to monitor groundwater levels), datalogger, solar panel, cellular modem, and 50 % of a 3-year subscription for web and mobile access to data gathered. Program participation may be extended beyond 3 years, as mutually agreed.

Participants will be responsible for:

- Installation of flow meter per manufacturer specifications
- Installation of access tube for level sensor in well casing, as needed
- 50% of a 3-year subscription for web and mobile data access (full payment at beginning of program, averages to approx. \$15 per month)
- Manual reporting of pumping data, in the event of device failure

Timeline

- **February - March 2022:** Applications Accepted
- **March - May 2022:** Participants Selected, Agreements Executed, Wells Inspected, and Equipment Installed
- **June 2022 - December 2024:** Wells Monitored



Funding for this project has been provided in full or in part from the Water Quality, Supply, and Infrastructure Improvement Act of 2014 and the California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018 (Proposition 68), and through an agreement with the State Department of Water Resources.

QUESTIONS?

For more information, please contact:

Colusa Groundwater Authority

Denise Carter, CGA Chair

530-458-0891 • waterresources@countyofcolusa.com

Glenn Groundwater Authority

Lisa Hunter, GGA Program Manager

530-934-6540 • lhunter@countyofglenn.net



To submit an application, please complete the survey at: <https://arcg.is/148uzf> or use the QR code

Appendix C

GSP Development Activities

- See presentations under **Appendix B**

Appendix D

Project Photographs (as required)

- None

Appendix E Invoice Projections (Prop. 1)

Project Identification Number:		3860-P01-242				
Calendar Year (CY)	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total Grant Funds per CY	
	Jan. 1 - Mar. 31	Apr. 1 - Jun. 30	Jul. 1 - Sep. 30	Oct. 1 - Dec. 31		
2018				\$ 13,059	\$ 13,059	
2019	\$ 2,822	\$ 10,715	\$ 51,229	\$ 55,592	\$ 120,358	
2020	\$ 20,538	\$ 147,533	\$ 70,427	\$ 112,507	\$ 351,005	
2021	\$ 231,205	\$ 213,997	\$ 18,429		\$ 463,631	
2022	\$ -	\$ 51,947	\$ -	\$ -	\$ 51,947	
2023	\$ -	\$ -	\$ -	\$ -	\$ -	
				PROJECT TOTAL:	\$ 1,000,000	

Appendix E Invoice Projections (Prop. 68)

2018					\$ -
2019					\$ -
2020		\$ -	\$ -	\$ 5,668	\$ 5,668
2021	\$ 4,807	\$ 156,086	\$ 278,488	\$ 196,009	\$ 635,390
2022	\$ 94,613	\$ 263,929	\$ -	\$ -	\$ 358,542
2023	\$ -	\$ -	\$ -	\$ -	\$ -
				PROJECT TOTAL:	\$ 999,600
				TOTAL GRANT PROJECT AWARD:	\$ -

Grantee Name and Address: Colusa Groundwater Authority
 100 Sunrise Blvd, Suite A
 Colusa, CA 95932
 Agreement Number: 4600012655 Agreement Type: Planning
 File Name: 4600012655 Invoice 14 Proposition: 1
 Retention Amount: 10%
 IRWM Region: NRO

Date of Invoice: 5/31/2022
 Period Covered by this Invoice:
 From: 1/1/2022 To: 3/31/2022

Invoice # 14
 Invoicing Format: Funding Match Drawdown

	Budget Information			Current Invoice Summary				Total Invoiced Summary						
	1. Funding Match	2. Grant Share	3. Sum of Funding Match & Grant Share	4. Total Billed this Invoice	5. Grant Share Billed this Invoice	6. 10% Retention Withheld from Grant Share Payment	7. Net Amount to Be Paid by DWR this Invoice	8. Total Funding Match Billed in Previous Invoices	9. Total Grant Share Billed in Previous Invoices	10. Total Billed To Date	11. Total Funding Match Billed to DWR to Date	12. Total Grant Share Billed to DWR to Date	13. Total Grant Share Paid by DWR to Date	14. Total Retention Withheld to Date
Project 1: Colusa Subbasin Groundwater Sustainability Plan Development 3860-PM-242														
SES#														
Budget Category (a): Grant Administration	\$ -	\$ 16,320.00	\$ 16,320.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Budget Category (b): Stakeholder Outreach and Coordination	\$ -	\$ 180,200.00	\$ 180,200.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 146,571.40	\$ 146,571.40	\$ -	\$ 146,571.40	\$ 131,914.26	\$ 14,657.14
Budget Category (c): GSP Development	\$ -	\$ 803,480.00	\$ 803,480.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 801,480.00	\$ 801,480.00	\$ -	\$ 801,480.00	\$ 721,332.00	\$ 80,148.00
CD#: Project Subtotal	\$ -	\$ 1,000,000.00	\$ 1,000,000.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 948,051.40	\$ 948,051.40	\$ -	\$ 948,051.40	\$ 853,246.26	\$ 94,805.14
GRANT TOTALS :	\$0.00	\$1,000,000.00	\$1,000,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$948,051.40	\$948,051.40	\$0.00	\$948,051.40	\$853,246.26	\$94,805.14

Signature* of Agency's Authorized Representative: Denise Carter Date: 5/31/2022
 Printed Name of Agency's Authorized Representative: Denise Carter Title: Chair

By signing this invoice, I certify under penalty of law, that the information provided is correct and accurate to the best of my knowledge, represents the work performed as outlined under this grant agreement during the period of this invoice, and that the reimbursement requested has not been met will be submitted for payment as part of any other invoice for this project.

FOR DEPARTMENT OF WATER RESOURCES USE ONLY

Approved by DWR Project Manager (Print Name):	Approved by DWR Program Manager (Print Name):
Title:	Title:
Signed:	Signed:
Date:	Date:
I am verifying that the supporting documentation has been reviewed, is satisfactory, and is available upon request.	
Project Manager Comments:	AGPA Comments:
DWR PM Initials Purchase Order: 4500261960	Invoice is to be paid to alternate vendor 506131 Vendor No.: 200721 (506131)
Cost Center:	Remaining Grant Share: \$51,948.60
Requisition No.: 10145569	NET AMOUNT TO BE PAID BY DWR THIS INVOICE: \$0.00

Grantee Name and Address: Colusa Groundwater Authority
 100 Sunrise Blvd, Suite A
 Colusa, CA 95932

Agreement Number: 4600012655 Agreement Type: Planning
 File Name: 4600012655 Invoice 14b Retention Amount: 10%
 Position: 68 Execution Date: 10/29/2018
 IRWM Region: Northern Sac Valley Termination Date: 10/31/2022

Date of Invoice: 5/31/2022
 Period Covered by this Invoice:
 From: 1/1/2022 To: 3/31/2022

Invoice # 14b v5
 Invoicing Format: Funding Match Drawdown

	Budget Information			Current Invoice Summary				Total Invoiced Summary						
	1. Funding Match	2. Grant Share	3. Sum of Funding Match & Grant Share	4. Total Billed this Invoice	5. Grant Share Billed this Invoice	6. 10% Retention Withheld from Grant Share Payment	7. Net Amount to Be Paid by DWR this Invoice	8. Total Funding Match Billed in Previous Invoices	9. Total Grant Share Billed in Previous Invoices	10. Total Billed To Date	11. Total Funding Match Billed to DWR to Date	12. Total Grant Share Billed to DWR to Date	13. Total Grant Share Paid by DWR to Date	14. Total Retention Withheld to Date
Project Name 3660-PM-242														
SES#														
Budget Category (a): Grant Administration	\$ -	\$ 58,240.00	\$ 58,240.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Budget Category (b): Outreach and Communication	\$ -	\$ 49,560.00	\$ 49,560.00	\$ 5,116.75	\$ 5,116.75	\$ 511.68	\$ 4,605.07	\$ -	\$ -	\$ 23,544.25	\$ -	\$ 23,544.25	\$ 21,189.83	\$ 2,354.43
Budget Category (c): GSP Development	\$ -	\$ 825,680.00	\$ 825,680.00	\$ 87,611.25	\$ 87,611.25	\$ 8,761.13	\$ 78,850.12	\$ -	\$ 567,085.73	\$ 654,696.98	\$ -	\$ 654,696.98	\$ 589,227.28	\$ 65,469.70
Budget Category (d): Monitoring and Assessment	\$ -	\$ 66,120.00	\$ 66,120.00	\$ 1,884.75	\$ 1,884.75	\$ 188.48	\$ 1,696.27	\$ -	\$ 55,509.37	\$ 57,394.12	\$ -	\$ 57,394.12	\$ 51,654.71	\$ 5,739.41
CD#: Project Subtotal	\$ -	\$ 999,600.00	\$ 999,600.00	\$ 94,612.75	\$ 94,612.75	\$ 9,461.29	\$ 85,151.46	\$ -	\$ 641,022.60	\$ 735,635.35	\$ -	\$ 735,635.35	\$ 662,071.82	\$ 73,563.54
GRANT TOTALS :	\$0.00	\$999,600.00	\$999,600.00	\$94,612.75	\$94,612.75	\$9,461.29	\$85,151.46	\$0.00	\$641,022.60	\$735,635.35	\$0.00	\$735,635.35	\$662,071.82	\$73,563.54

Signature* of Agency's Authorized Representative: _____ Date: May 31, 2022
 Printed Name of Agency's Authorized Representative: Denise Carter Title: Chair

* By signing this form I certify under penalty of law, that the information provided is correct and accurate to the best of my knowledge, represents the work performed as outlined under this grant agreement during the period of this invoice, and that the reimbursement requested has not been nor will be submitted for payment as part of

FOR DEPARTMENT OF WATER RESOURCES USE ONLY

Approved by DWR Project Manager (Print Name): _____		Approved by DWR Program Manager (Print Name): _____	
Title: _____		Title: _____	
Signed: _____ Date: _____		Signed: _____ Date: _____	
I am verifying that the supporting documentation has been reviewed, is satisfactory, and is available upon request. DWR PM Initials _____		Project Manager Comments: _____	
Purchase Order: 4500280152		DWR PPM Initial: _____	
Requisition No.: 10145569		Cost Center: _____	
AGPA Comments: _____		Vendor No.: 200721 (506131)	
Remaining Grant Share: _____		NET AMOUNT TO BE PAID BY DWR THIS INVOICE: \$85,151.46	

BACK UP DOCUMENTATION SUMMARY TABLE

Grantee: Colusa Groundwater Authority
 DWR Agreement No. 46-00012655
 Invoicing Period: January 1, 2022-March 31, 2022
 Report: 14; Invoice: 14 (Proposition 1)
 Report: 8; Invoice: 8 (Proposition 68)

need to be updated

Consultant Invoice	Invoice number	Invoice Date	Total Invoice Amount	Component 1, Cat. b: Stakeholder Outreach and Education		Component 1, Cat. C: GSP Development		Cat D: Well Mon Program	Total Invoice Accuracy check	REPORT PAGE NUMBERS					
				Prop. 1	Prop. 68	Prop. 1	Prop. 68	Prop. 68		Summary	Dauids Eng.	West Yost	ERA Econ.	Woodard Curran	CSU Sac
Dauids Engineering, Inc.	1178.04-5003	1/31/2022	\$1,293.50	\$0.00	\$0.00	\$0.00	\$1,293.50	\$0.00	\$1,293.50	144	146				
Dauids Engineering, Inc.	1178.03-5028	1/31/2022	\$21,560.50	\$0.00	\$5,116.75	\$0.00	\$16,443.75	\$0.00	\$21,560.50	149	151	179	177		165
Dauids Engineering, Inc.	1178.04-5050	2/28/2022	\$4,075.50		\$0.00		\$4,075.50		\$4,075.50	183	185				
Dauids Engineering, Inc.	1178.03-5071	2/28/2022	\$6,615.75				\$5,652.00	\$963.75	\$6,615.75	191	193		207		
Dauids Engineering, Inc.	1178.04-5122	3/31/2022	\$42,728.50				\$42,728.50		\$42,728.50	209	211	219			
Dauids Engineering, Inc.	1178.03-5125	3/31/2022	\$18,339.00	\$0.00	\$0.00	\$0.00	\$17,418.00	\$921.00	\$18,339.00	226	228	243	241		
		TOTAL	\$94,612.75	\$0.00	\$5,116.75	\$0.00	\$87,611.25	\$1,884.75	\$94,612.75						

Prop 1 total	\$0.00	
Prop 68 total	\$92,728.00	
P. 68 Cat D total	\$1,884.75	\$94,612.75 Prop 68 Total
	\$94,612.75	

Colusa Groundwater Authority, Proposition 1 and Proposition 68 SGWP
Agreement No. 46-00012655

Report #14; Invoice #14 (Prop. 1)
Report #8; Invoice #8 (Prop. 68)
Reporting Period: 01/01/2022-03/31/2022

Davids Engineering, Inc.
Invoice #1178.04-5003
Invoice total: \$1,293.50

BUDGET CATEGORY A: GRANT ADMINISTRATION

Invoice total – Proposition 1: \$0.00

Invoice total – Proposition 68: \$0.00

BUDGET CATEGORY B: STAKEHOLDER OUTREACH AND EDUCATION

Invoice total – Proposition 1: \$0.00

Invoice total – Proposition 68: \$0.00

BUDGET CATEGORY C: GSP DEVELOPMENT

Invoice total – Proposition 1: \$0.00

Invoice total – Proposition 68: \$1,293.50

Description of Work performed:

- Gather Required Annual Report Data
 - Reviewing data needs, downloading data, sending data requests, data request follow up, summarize SW data sources, project support
 - Describe Groundwater Conditions and Water Budget Components
 - Reformat Data
 - Prepare Annual Report
 - Outline Annual Report
-

BUDGET CATEGORY D: MONITORING AND ASSESSMENT

Invoice total – Proposition 68: \$0.00

Invoice

DAVIDS ENGINEERING, INC.
Tax ID#68-0346173
1772 Picasso Avenue, Suite A
Davis, CA 95618-0550
530/757-6107 - phone
530/757-6118 - fax

Lisa Hunter
 Glenn Groundwater Authority
 225 N Tehama St.
 Willows, CA 95988

January 31, 2022
 Invoice No: 1178.04 - 5003

Project 1178.04 Glenn Groundwater Authority - Colusa GSP Annual Report 2022

Professional Services from December 1, 2021 to January 31, 2022

Task 01.00 Gather Required Annual Report Data
 Sub-Task DE.00 Davids Engineering, Inc.

Professional Personnel

	Hours	Rate	Amount	
Secretary/Clerical II				
Clark, Cynthia	.50	95.00	47.50	
Associate Engineer I				
Klug, Katherine	2.75	175.00	481.25	
Associate Project Assistant				
Clark, Cynthia	.25	94.00	23.50	
Totals	3.50		552.25	
Total Labor				552.25
				Total this Sub-Task \$552.25
				Total this Task \$552.25

Billings to Date

	Current	Prior	Total
Labor	552.25	0.00	552.25
Totals	552.25	0.00	552.25

Task 02.00 Describe Groundwater Conditions and Water Budget Components
 Sub-Task DE.00 Davids Engineering, Inc.

Professional Personnel

	Hours	Rate	Amount	
Staff Project Assistant				
Schroeder, Cathy	3.75	81.00	303.75	
Totals	3.75		303.75	
Total Labor				303.75
				Total this Sub-Task \$303.75
				Total this Task \$303.75

Project	1178.04	Glenn GWA -Colusa GSP Annual Report 2022	Invoice	5003
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Billings to Date

	Current	Prior	Total
Labor	303.75	0.00	303.75
Totals	303.75	0.00	303.75

Task	04.00	Prepare Annual Report
Sub-Task	DE.00	Davids Engineering, Inc.

Professional Personnel

	Hours	Rate	Amount
Associate Engineer I Klug, Katherine	2.50	175.00	437.50
Totals	2.50		437.50
Total Labor			437.50
Total this Sub-Task			\$437.50
Total this Task			\$437.50

Billings to Date

	Current	Prior	Total
Labor	437.50	0.00	437.50
Totals	437.50	0.00	437.50

Contract Amount

	Current	Prior	To-Date
Total Billings	1,293.50	0.00	1,293.50
Contract Amount			50,000.00
Remaining			48,706.50
Total this Invoice			\$1,293.50

Billings to Date

	Current	Prior	Total
Labor	1,293.50	0.00	1,293.50
Totals	1,293.50	0.00	1,293.50

I certify that the above invoice is true and correct to the best of my knowledge.

Authorized By:  Date: 02/04/2022

Project 1178.04 Glenn GWA -Colusa GSP Annual Report 2022 Invoice 5003

Billing Backup

Friday, February 4, 2022

Davids Engineering, Inc.

Invoice 5003 Dated 1/31/2022

5:20:40 PM

Project 1178.04 Glenn Groundwater Authority - Colusa GSP Annual Report 2022

Task 01.00 Gather Required Annual Report Data

Sub-Task DE.00 Davids Engineering, Inc.

Professional Personnel

			Hours	Rate	Amount
Secretary/Clerical II					
Clark, Cynthia	12/17/2021	Project support, accounting	.50	95.00	47.50
Associate Engineer I					
Klug, Katherine	1/26/2022	reviewing annual report data needs, downloading USBR data, sending data requests to cities, agencies	1.50	175.00	262.50
Klug, Katherine	1/27/2022	reviewing annual report data needs, downloading data, data request follow-up	.75	175.00	131.25
Klug, Katherine	1/31/2022	summarizing SW data sources	.50	175.00	87.50
Associate Project Assistant					
Clark, Cynthia	1/17/2022	Project support, accounting	.25	94.00	23.50
Totals			3.50		552.25
Total Labor					552.25
Total this Sub-Task					\$552.25
Total this Task					\$552.25

Task 02.00 Describe Groundwater Conditions and Water Budget Components

Sub-Task DE.00 Davids Engineering, Inc.

Professional Personnel

			Hours	Rate	Amount
Staff Project Assistant					
Schroeder, Cathy	1/26/2022	Reformat Data	1.00	81.00	81.00
Schroeder, Cathy	1/27/2022	Reformat data	1.00	81.00	81.00
Schroeder, Cathy	1/28/2022	Reformat Data	1.25	81.00	101.25
Schroeder, Cathy	1/31/2022	reformat data	.50	81.00	40.50
Totals			3.75		303.75
Total Labor					303.75
Total this Sub-Task					\$303.75

Project	1178.04	Glenn GWA -Colusa GSP Annual Report 2022	Invoice	5003
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Total this Task \$303.75

Task	04.00	Prepare Annual Report
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Sub-Task	DE.00	Davids Engineering, Inc.
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Professional Personnel

			Hours	Rate	Amount	
Associate Engineer I						
Klug, Katherine		1/31/2022	2.50	175.00	437.50	
outlining annual report						
Totals			2.50		437.50	
Total Labor						437.50

Total this Sub-Task \$437.50

Total this Task \$437.50

Total this Project \$1,293.50

Total this Report \$1,293.50

Colusa Groundwater Authority, Proposition 1 and Proposition 68 SGWP
Agreement No. 46-00012655

Report #14; Invoice #14 (Prop. 1)
Report #8; Invoice #8 (Prop. 68)
Reporting Period: 01/01/2022-03/31/2022

Davids Engineering, Inc.
 Invoice #1178.03-5028
 Invoice total: \$21,560.50

BUDGET CATEGORY A: GRANT ADMINISTRATION

Invoice total – Proposition 1: \$0.00

Invoice total – Proposition 68: \$0.00

BUDGET CATEGORY B: STAKEHOLDER OUTREACH AND EDUCATION

Invoice total – Proposition 1: \$0.00

Invoice total – Proposition 68: \$5,116.75

Description of Work performed:

- Stakeholder Outreach and Coordination
 - Conduct Outreach and Engagement Activities

BUDGET CATEGORY C: GSP DEVELOPMENT

Invoice total – Proposition 1: \$0.00

Invoice total – Proposition 68: \$16,443.75

Description of Work performed:

- Project Management
 - Coordinating funding/financing discussions, GSP check in, DMS discussion coordination, team meeting, project support
- Data Management System
 - DMS discussion coordination, DMS discussion follow up
- Funding Mechanisms
 - Review GSP files and presentations, develop meeting notes and outline for GSP docs and presentation overview, refine outline presentation, notes for presentation, review other GSA financing and prepare notes, develop PowerPoint template/outline

Colusa Groundwater Authority, Proposition 1 and Proposition 68 SGWP
Agreement No. 46-00012655

- Hydrogeologic Investigation
 - Review and revise elements guide, Prepare and upload materials for GSP to SGMA portal, Annual Report/DMS data inventory, prepared revised outline for work plan, finalize and review GSP submittal

BUDGET CATEGORY D: MONITORING AND ASSESSMENT

Invoice total – Proposition 68: \$0.00

Invoice

DAVIDS ENGINEERING, INC.
 Tax ID#68-0346173
 1772 Picasso Avenue, Suite A
 Davis, CA 95618-0550
 530/757-6107 - phone
 530/757-6118 - fax

Lisa Hunter
 Glenn Groundwater Authority
 225 N Tehama St.
 Willows, CA 95988

February 11, 2022
 Invoice No: 1178.03 - 5028

Project 1178.03 Glenn Groundwater Authority - Colusa Subbasin GSP Development
Professional Services from January 1, 2022 to January 31, 2022

 Task 01.00 Project Management

Professional Personnel

	Hours	Rate	Amount	
Associate Engineer I				
Klug, Katherine	3.75	175.00	656.25	
Associate Project Assistant				
Clark, Cynthia	1.25	94.00	117.50	
Totals	5.00		773.75	
Total Labor				773.75

Contract Amount	Current	Prior	To-Date	
Total Billings	773.75	43,377.75	44,151.50	
Contract Amount			44,200.00	
Remaining			48.50	
				Total this Task \$773.75

Billings to Date

	Current	Prior	Total
Labor	773.75	43,377.75	44,151.50
Totals	773.75	43,377.75	44,151.50

 Task 02.00 Stakeholder Outreach and Coordination

 Sub-Task CS.US California State University, Sacramento

Consultants

California State University, Sacramento			
1/25/2022	California State University, Sacramento	Professional Services for November, 2021 - see attached	3,536.25
1/31/2022	California State University, Sacramento	Professional Services for December, 2021 - see attached	1,580.50
	Total Consultants	1.0 times	5,116.75
			5,116.75

Contract Amount	Current	Prior	To-Date	
Total Billings	5,116.75	71,863.50	76,980.25	
Contract Amount			104,540.15	
Remaining			27,559.90	

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5028
			Total this Sub-Task	\$5,116.75

Sub-Task	DE.00	Davids Engineering, Inc.			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	47,725.75	47,725.75
Contract Amount					46,759.85
			Total this Sub-Task		0.00
			Total this Task		\$5,116.75

Billings to Date

	Current	Prior	Total
Labor	0.00	47,725.75	47,725.75
Consultant	5,116.75	71,863.50	76,980.25
Totals	5,116.75	119,589.25	124,706.00

Task	03.01	Data Collection and Analysis			
Sub-Task	DE.00	Davids Engineering, Inc.			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	3,558.75	3,558.75
Contract Amount					3,559.00
Remaining					.25
			Total this Sub-Task		0.00

Sub-Task	WY.A0	West Yost Associates			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	21,976.00	21,976.00
Contract Amount					21,976.00
			Total this Sub-Task		0.00
			Total this Task		0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	3,558.75	3,558.75
Consultant	0.00	21,976.00	21,976.00
Totals	0.00	25,534.75	25,534.75

Task	03.02	Integrated Hydrologic Modeling			
Sub-Task	DE.00	Davids Engineering, Inc.			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	111,913.00	111,913.00
Contract Amount					111,913.00
			Total this Sub-Task		0.00
			Total this Task		0.00

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5028
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Billings to Date

	Current	Prior	Total
Labor	0.00	111,913.00	111,913.00
Totals	0.00	111,913.00	111,913.00

Task	03.03	Monitoring Protocols		
Sub-Task	DE.00	Dauids Engineering, Inc.		
Contract Amount			Current	Prior
Total Billings			0.00	110.00
Contract Amount				110.00
Total this Sub-Task				0.00

Sub-Task	WY.A0	West Yost Associates		
Contract Amount			Current	Prior
Total Billings			0.00	6,455.00
Contract Amount				6,455.00
Total this Sub-Task				0.00
Total this Task				0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	110.00	110.00
Consultant	0.00	6,455.00	6,455.00
Totals	0.00	6,565.00	6,565.00

Task	03.04	Data and Reporting Standards		
Sub-Task	DE.00	Dauids Engineering, Inc.		
Total this Sub-Task				0.00

Sub-Task	WY.A0	West Yost Associates		
Contract Amount			Current	Prior
Total Billings			0.00	9,451.00
Contract Amount				9,451.00
Total this Sub-Task				0.00
Total this Task				0.00

Billings to Date

	Current	Prior	Total
Consultant	0.00	9,451.00	9,451.00
Totals	0.00	9,451.00	9,451.00

Task	03.05	Data Management System		
Sub-Task	DE.00	Dauids Engineering, Inc.		

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5028
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Professional Personnel

	Hours	Rate	Amount	
Senior Data Scientist				
Hall, Lindsay	2.00	176.00	352.00	
Associate Engineer I				
Klug, Katherine	1.00	175.00	175.00	
Totals	3.00		527.00	
Total Labor				527.00
Contract Amount	Current	Prior	To-Date	
Total Billings	527.00	2,934.00	3,461.00	
Contract Amount			21,146.00	
Remaining			17,685.00	
		Total this Sub-Task		\$527.00

Sub-Task	WY.A0	West Yost Associates	Current	Prior	To-Date	
Contract Amount						
Total Billings			0.00	4,999.00	4,999.00	
Contract Amount					5,000.00	
Remaining					1.00	
				Total this Sub-Task		0.00
				Total this Task		\$527.00

Billings to Date

	Current	Prior	Total
Labor	527.00	2,934.00	3,461.00
Consultant	0.00	4,999.00	4,999.00
Totals	527.00	7,933.00	8,460.00

Task	03.06	GSP Administrative Information	Current	Prior	To-Date	
Sub-Task	DE.00	Dauids Engineering, Inc.				
Contract Amount						
Total Billings			0.00	307.50	307.50	
Contract Amount					307.00	
				Total this Sub-Task		0.00

Sub-Task	WY.A0	West Yost Associates	Current	Prior	To-Date	
Contract Amount						
Total Billings			0.00	21,949.00	21,949.00	
Contract Amount					21,949.00	
				Total this Sub-Task		0.00
				Total this Task		0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	307.50	307.50

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5028
Consultant		0.00	21,949.00	21,949.00
Totals		0.00	22,256.50	22,256.50

Task	03.07	Basin Setting		
Sub-Task	DE.00	Davids Engineering, Inc.		
Contract Amount			Current	Prior
Total Billings			0.00	19,465.00
Contract Amount				19,468.00
Remaining				3.00
Total this Sub-Task				0.00

Sub-Task	ER.A0	ERA Economics, LLC		
Contract Amount			Current	Prior
Total Billings			0.00	2,455.00
Contract Amount				2,455.00
Total this Sub-Task				0.00

Sub-Task	WY.A0	West Yost Associates		
Contract Amount			Current	Prior
Total Billings			0.00	22,988.00
Contract Amount				23,017.00
Remaining				29.00
Total this Sub-Task				0.00
Total this Task				0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	19,465.00	19,465.00
Consultant	0.00	25,443.00	25,443.00
Totals	0.00	44,908.00	44,908.00

Task	03.08	Sustainable Management Criteria		
Sub-Task	DE.00	Davids Engineering, Inc.		
Contract Amount			Current	Prior
Total Billings			0.00	52,647.20
Contract Amount				52,654.00
Remaining				6.80
Total this Sub-Task				0.00

Sub-Task	ER.A0	ERA Economics, LLC		
Contract Amount			Current	Prior
Total Billings			0.00	11,221.00
Contract Amount				11,221.00
Total this Sub-Task				0.00

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5028
Sub-Task	WC.00	Woodard and Curran, Inc.		
Contract Amount			Current	Prior
Total Billings			0.00	154,669.25
Contract Amount				154,669.25
			Total this Sub-Task	
				0.00

Sub-Task	WY.A0	West Yost Associates		
Contract Amount			Current	Prior
Total Billings			0.00	61,270.50
Contract Amount				61,318.00
Remaining				47.50
			Total this Sub-Task	
				0.00
			Total this Task	
				0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	52,647.20	52,647.20
Consultant	0.00	227,161.00	227,161.00
Add-on	0.00	-25	-25
Totals	0.00	279,807.95	279,807.95

Task	03.09	Monitoring Network		
Sub-Task	DE.00	Davids Engineering, Inc.		
Contract Amount			Current	Prior
Total Billings			0.00	4,590.00
Contract Amount				4,590.00
			Total this Sub-Task	
				0.00

Sub-Task	WY.A0	West Yost Associates		
Contract Amount			Current	Prior
Total Billings			0.00	72,878.00
Contract Amount				72,908.00
Remaining				30.00
			Total this Sub-Task	
				0.00
			Total this Task	
				0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	4,590.00	4,590.00
Consultant	0.00	72,878.00	72,878.00
Totals	0.00	77,468.00	77,468.00

Task	03.10	Projects and Management Actions		
Sub-Task	DE.00	Davids Engineering, Inc.		

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5028	
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	92,347.75	92,347.75
Contract Amount Remaining					92,836.00
					488.25
Total this Sub-Task					0.00

Sub-Task	ER.A0	ERA Economics, LLC			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	48,363.75	48,363.75
Contract Amount Remaining					50,000.00
					1,636.25
Total this Sub-Task					0.00

Sub-Task	WY.A0	West Yost Associates			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	7,493.50	7,493.50
Contract Amount Remaining					7,500.00
					6.50
Total this Sub-Task					0.00
Total this Task					0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	92,350.75	92,350.75
Consultant	0.00	55,857.25	55,857.25
Add-on	0.00	-3.00	-3.00
Totals	0.00	148,205.00	148,205.00

Task	03.11	GSP Document Preparation and Adoption			
Sub-Task	DE.00	Davids Engineering, Inc.			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	39,549.00	39,549.00
Contract Amount					39,549.00
Total this Sub-Task					0.00

Sub-Task	WY.A0	West Yost Associates			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	65,202.37	65,202.37
Contract Amount Remaining					65,278.00
					75.63
Total this Sub-Task					0.00
Total this Task					0.00

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5028
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Billings to Date

	Current	Prior	Total
Labor	0.00	39,549.00	39,549.00
Consultant	0.00	65,202.37	65,202.37
Totals	0.00	104,751.37	104,751.37

Task	04.00	Funding Mechanisms
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Sub-Task	DE.00	Davids Engineering, Inc.
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Contract Amount	Current	Prior	To-Date
Total Billings	0.00	9,680.00	9,680.00
Contract Amount			9,680.00
Total this Sub-Task			0.00

Sub-Task	ER.A0	ERA Economics, LLC
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Consultants

ERA Economics, LLC			
1/31/2022	ERA Economics, LLC	Professional Services from January 1 to January 31, 2022 - see attached	2,202.50
Total Consultants			1.0 times
			2,202.50
			2,202.50

Contract Amount	Current	Prior	To-Date
Total Billings	2,202.50	31,710.00	33,912.50
Contract Amount			40,000.00
Remaining			6,087.50
Total this Sub-Task			\$2,202.50
Total this Task			\$2,202.50

Billings to Date

	Current	Prior	Total
Labor	0.00	9,680.00	9,680.00
Consultant	2,202.50	31,710.00	33,912.50
Totals	2,202.50	41,390.00	43,592.50

Task	05.00	Hydrogeologic Investigation
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Sub-Task	DE.00	Davids Engineering, Inc.
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Professional Personnel

	Hours	Rate	Amount
Principal Engineer			
Davids, Grant	2.00	220.00	440.00
Senior Project Assistant			
Davids, Kristi	1.50	105.00	157.50
Associate Engineer I			
Klug, Katherine	51.50	175.00	9,012.50
Staff Project Assistant			
Schroeder, Cathy	18.50	81.00	1,498.50
Totals	73.50		11,108.50
Total Labor			11,108.50

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5028	
Contract Amount			Current	Prior	To-Date
Total Billings			11,108.50	23,018.25	34,126.75
Contract Amount					65,099.00
Remaining					30,972.25
Total this Sub-Task					\$11,108.50

Sub-Task WY.A0 West Yost Associates

Consultants					
West Yost Associates, Inc.					
1/31/2022	West Yost Associates, Inc.	Professional Services from January 1 to January 28, 2022 - see attached			1,832.00
Total Consultants					1,832.00
1.0 times					1,832.00
1,832.00					1,832.00

Contract Amount			Current	Prior	To-Date
Total Billings			1,832.00	67,404.00	69,236.00
Contract Amount					75,759.75
Remaining					6,523.75
Total this Sub-Task					\$1,832.00
Total this Task					\$12,940.50

Billings to Date

	Current	Prior	Total
Labor	11,108.50	23,018.25	34,126.75
Consultant	1,832.00	67,404.00	69,236.00
Totals	12,940.50	90,422.25	103,362.75

Task 06.00 GDE Evaluation

Sub-Task	DE.00	Davids Engineering, Inc.			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	15,532.50	15,532.50
Contract Amount					20,532.00
Remaining					4,999.50
Total this Sub-Task					0.00

Sub-Task WY.A0 West Yost Associates

Contract Amount			Current	Prior	To-Date
Total Billings			0.00	0.00	0.00
Contract Amount					5,000.00
Remaining					5,000.00
Total this Sub-Task					0.00
Total this Task					0.00

Project 1178.03 Glenn GWA - Colusa Subbasin GSP Develop. Invoice 5028

Billings to Date

	Current	Prior	Total
Labor	0.00	15,532.50	15,532.50
Totals	0.00	15,532.50	15,532.50

Task 07.00 Well Monitoring Pilot Program

Sub-Task DE.00 Davids Engineering, Inc.

Contract Amount	Current	Prior	To-Date
Total Billings	0.00	61,989.51	61,989.51
Contract Amount			66,100.00
Remaining			4,110.49

Total this Sub-Task 0.00

Total this Task 0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	32,035.00	32,035.00
Add-on	0.00	29,954.51	29,954.51
Totals	0.00	61,989.51	61,989.51

Total this Invoice \$21,560.50

Outstanding Invoices

Number	Date	Balance
4976	12/31/2021	39,988.50
Total		39,988.50

Total Now Due \$61,549.00

Billings to Date

	Current	Prior	Total
Labor	12,409.25	498,794.45	511,203.70
Consultant	9,151.25	682,349.12	691,500.37
Add-on	0.00	29,951.26	29,951.26
Totals	21,560.50	1,211,094.83	1,232,655.33

I certify that the above invoice is true and correct to the best of my knowledge.

Authorized By: Janet G. Daurio Date: 02/11/2022

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5028
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Billing Backup

Dauids Engineering, Inc.

Invoice 5028 Dated 2/11/2022

Friday, February 11, 2022

4:08:13 PM

Project	1178.03	Glenn Groundwater Authority - Colusa Subbasin GSP Development
Task	01.00	Project Management

Professional Personnel

		Hours	Rate	Amount
Associate Engineer I				
Klug, Katherine	1/20/2022	.75	175.00	131.25
coordinating Colusa funding/financing discussions				
Klug, Katherine	1/24/2022	.75	175.00	131.25
Colusa GSP check-in; DMS discussion coordination				
Klug, Katherine	1/26/2022	1.25	175.00	218.75
Colusa team meeting				
Klug, Katherine	1/28/2022	1.00	175.00	175.00
reviewing funding/financing discussion notes and coordinating				
Associate Project Assistant				
Clark, Cynthia	1/7/2022	.25	94.00	23.50
Project support, accounting				
Clark, Cynthia	1/10/2022	.75	94.00	70.50
Project support, accounting				
Clark, Cynthia	1/25/2022	.25	94.00	23.50
Project support, accounting				
Totals		5.00		773.75
Total Labor				773.75
				773.75
Total this Task				\$773.75

Task	02.00	Stakeholder Outreach and Coordination
Sub-Task	CS.US	California State University, Sacramento

Consultants

California State University, Sacramento

AP 8554	1/25/2022	California State University, Sacramento / Professional Services for November, 2021 - see attached	3,536.25	
AP 8578	1/31/2022	California State University, Sacramento / Professional Services for December, 2021 - see attached	1,580.50	
Total Consultants		1.0 times	5,116.75	5,116.75
Total this Sub-Task				\$5,116.75
Total this Task				\$5,116.75

Task	03.05	Data Management System
Sub-Task	DE.00	Dauids Engineering, Inc.

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5028
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Professional Personnel

			Hours	Rate	Amount	
Senior Data Scientist						
Hall, Lindsay	1/26/2022	meeting with Client on next steps	1.00	176.00	176.00	
Hall, Lindsay	1/27/2022	dms next steps	1.00	176.00	176.00	
Associate Engineer I						
Klug, Katherine	1/26/2022	DMS discussion coordination and follow-up	.50	175.00	87.50	
Klug, Katherine	1/27/2022	DMS discussion coordination and follow-up	.50	175.00	87.50	
Totals			3.00		527.00	
Total Labor						527.00
					Total this Sub-Task	\$527.00
					Total this Task	\$527.00

Task	04.00	Funding Mechanisms
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Sub-Task	ER.A0	ERA Economics, LLC
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Consultants

ERA Economics, LLC					
AP 8592	1/31/2022	ERA Economics, LLC / Professional Services from January 1 to January 31, 2022 - see attached			2,202.50
Total Consultants					2,202.50
					1.0 times
					2,202.50
					2,202.50
Total this Sub-Task					\$2,202.50
Total this Task					\$2,202.50

Task	05.00	Hydrogeologic Investigation
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Sub-Task	DE.00	Davids Engineering, Inc.
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Professional Personnel

			Hours	Rate	Amount
Principal Engineer					
Davids, Grant	1/5/2022	Prepare for and participate in general coordination meeting	2.00	220.00	440.00
Senior Project Assistant					
Davids, Kristi	1/20/2022	project support, accounting	.25	105.00	26.25
Davids, Kristi	1/21/2022	project support, accounting	1.00	105.00	105.00
Davids, Kristi	1/31/2022	project support, accounting	.25	105.00	26.25
Associate Engineer I					
Klug, Katherine	1/4/2022	supporting Cathy in completing Colusa GSP elements guide for DWR upload; reviewing hydrogeologic investigation outline; preparing and sharing agenda for Colusa SGMA coordination meeting	2.50	175.00	437.50

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5028
Klug, Katherine	1/5/2022	5.75 175.00	1,006.25	
		Colusa SGMA coordination meeting; meeting follow-up and action items; reviewing and revising elements guide; updating GSP upload materials; Colusa annual report/DMS data inventory		
Klug, Katherine	1/6/2022	5.75 175.00	1,006.25	
		Colusa SGMA coordination meeting follow-up and action items; reviewing and revising elements guide; WMPP coordination		
Klug, Katherine	1/7/2022	1.50 175.00	262.50	
		annual report coordination meeting; monthly report; follow-up with G. Davids		
Klug, Katherine	1/10/2022	.75 175.00	131.25	
		punchlist discussion action items follow-up; preparing budget summary for funding/financing discussions		
Klug, Katherine	1/11/2022	.50 175.00	87.50	
		punchlist discussion action items follow-up; coordinating Colusa GSP references uploads		
Klug, Katherine	1/14/2022	.75 175.00	131.25	
		discussion of Colusa funding/financing work with ERA		
Klug, Katherine	1/17/2022	.25 175.00	43.75	
		email to GSAs regarding Colusa funding/financing work with ERA		
Klug, Katherine	1/18/2022	5.25 175.00	918.75	
		Preparing materials for Colusa GSP upload to SGMA portal		
Klug, Katherine	1/19/2022	6.25 175.00	1,093.75	
		Colusa check-in call with A. Reimer; Preparing materials for Colusa GSP upload to SGMA portal		
Klug, Katherine	1/20/2022	4.50 175.00	787.50	
		Preparing materials for Colusa GSP upload to SGMA portal		
Klug, Katherine	1/21/2022	6.00 175.00	1,050.00	
		Preparing materials for Colusa GSP upload to SGMA portal		
Klug, Katherine	1/24/2022	8.75 175.00	1,531.25	
		Preparing and uploading materials for Colusa GSP to SGMA portal; funding/financing discussion		
Klug, Katherine	1/25/2022	.75 175.00	131.25	
		Colusa project follow-up		
Klug, Katherine	1/26/2022	.50 175.00	87.50	
		Preparing and uploading materials for Colusa GSP to SGMA portal		
Klug, Katherine	1/27/2022	.75 175.00	131.25	
		Preparing and uploading materials for Colusa GSP to SGMA portal		
Klug, Katherine	1/28/2022	1.00 175.00	175.00	
		supporting submittal of Colusa GSP through SGMA portal		
		Staff Project Assistant		
Schroeder, Cathy	1/4/2022	2.00 81.00	162.00	
		work on Elements table		
Schroeder, Cathy	1/5/2022	3.00 81.00	243.00	
		work on Elements table		
Schroeder, Cathy	1/11/2022	3.00 81.00	243.00	
		References for GSP		
Schroeder, Cathy	1/13/2022	3.00 81.00	243.00	
		References for GSP		
Schroeder, Cathy	1/14/2022	3.50 81.00	283.50	
		References for GSP		
Schroeder, Cathy	1/17/2022	3.00 81.00	243.00	
		gsp references		

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5028
Schroeder, Cathy		1/20/2022	1.00	81.00
	Update references			81.00
	Totals		73.50	11,108.50
	Total Labor			11,108.50
			Total this Sub-Task	\$11,108.50

Sub-Task	WY.A0	West Yost Associates		
Consultants				
West Yost Associates, Inc.				
AP 8579	1/31/2022	West Yost Associates, Inc. / Professional Services from January 1 to January 28, 2022 - see attached	1.832.00	
	Total Consultants		1.0 times	1,832.00
			Total this Sub-Task	\$1,832.00
			Total this Task	\$12,940.50
			Total this Project	\$21,560.50
			Total this Report	\$21,560.50



Invoice No. 1090940
Invoice Date 01/19/2022
Account No. 000007074
Payment Terms Net 30

Due Date 02/18/2022
Total Amount Due \$3,536.25

Bill To Davids Engineering
Attn:Cynthia Clark / Accts. Payable
1772 Picasso Ave, Suite A
Davis CA 95618-0550

Questions regarding this invoice can be directed to the Bursar's Office at 916.278.6833

Line No.	Description	Identifier	Amount
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Note: RE: COLUSA GSA GSP

PROJECT NO. 1178-03

CSUS PO #CE200237

3,536.25

IN ACCORDANCE WITH THE ABOVE REFERENCED CONTRACT, OUR BILLING IS SUBMITTED FOR YOUR REVIEW AND AUTHORIZATION FOR PAYMENT AS FOLLOWS:

TOTAL AMOUNT OF CONTRACT: \$ 104,540.15

TOTAL INVOICED TO DATE: \$ 75,399.75

AMOUNT REMAINING: \$ 29,140.40

AMOUNT PAID TO DATE: \$ 54,189.75

CURRENT INVOICE: \$ 3,536.25

PROFESSIONAL SERVICES FOR NOVEMBER 2021

(SEE ATTACHED FOR DETAILS)

**** FOR QUESTIONS REGARDING THIS INVOICE, PLEASE CONTACT TERESA OEHNINGER AT (916) 278-6581 ****

----- Please return this portion of invoice with payment -----

Total Amount Due: \$3,536.25

Please include the following on the payment:

Account No. 000007074

Invoice No. 1090940

Payable to:

California State University, Sacramento

6000 J. Street, MS 6052

Sacramento, CA 95819-6010

INVOICE 1090940

Date: January 20, 2022

To: Davids Engineering
 Attn: Cynthia Clark, Accounts Payable
 1772 Picasso Avenue, Suite A
 Davis, CA 95618-0550

From: Teresa Oehninger

Re: Colusa GSA GSP
 Project No. 1178-03

CSUS PO #CE200237

In accordance with the above referenced contract, our billing is submitted for your review and authorization for payment as follows:

Total Amount of Contract	\$ 104,540.15		
Total Invoiced To Date	\$ 75,399.75	% Billed	72.13%
Amount Remaining	\$ 29,140.40	% Remaining	27.87%
Amount Paid to Date	\$ 54,189.75		
Current Invoice	\$ 3,536.25		

Professional Services

	November 1 - 30, 2021			
	Hours	Rate		
Dave Ceppos, Managing Senior Mediator	9.00 @	\$ 206.00	\$	1,854.00
Corin Choppin	16.75 @	\$ 95.00	\$	1,591.25
Teresa Oehninger	1.00 @	\$ 91.00	\$	91.00
Total Professional Services:	<u>26.75</u>		\$	<u>3,536.25</u>

Direct Expenses

Total Direct Expenses	\$ -
Total Invoice	\$ 3,536.25

Please make check payable to:

California State University, Sacramento
 6000 J Street, Sacramento, CA 95819-6010
 Accounts Receivable - Lassen Hall 1003

Please use this revenue chartstring: 502843 TECCE 93000

Internal Reference #19-007

Davids Engineering Colusa Subbasin Groundwater Sustainability Agency
 Hours by Task
 November 1, 2021 - November 30, 2021

Tasks	Task 1	Task 2.1	Task 2.2	Task 2.3
Deborah Hunt	0.00	0.00	0.00	0.00
Dave Ceppos	0.00	0.00	9.00	0.00
Corin Choppin	0.00	0.00	16.75	0.00
Teresa Oehninger	1.00	0.00	0.00	0.00
Hours per Task	1.00	0.00	25.75	0.00
Total Hours:	26.75			

Daily Activity Report - Colusa Subbasin GSP - Project - #1178.03		
Dave Ceppos		
November 2021	Work Performed	Hours Charged
1		
2		
3		
4	2.2 Conduct Outreach and Engagement Activities	2
5		
6		
7		
8		
9		
10	2.2 Conduct Outreach and Engagement Activities	1.5
11		
12		
13		
14		
15		
16		
17		
18		
19	2.2 Conduct Outreach and Engagement Activities	1
20		
21		
22	2.2 Conduct Outreach and Engagement Activities	2
23	2.2 Conduct Outreach and Engagement Activities	1
24		
25		
26		
27		
28		
29	2.2 Conduct Outreach and Engagement Activities	1.5
30		
31		
Total		9
Notes		

Daily Activity Report - Colusa Subbasin GSP - Project - #1178.03		
Corin Choppin		
November 2021	Work Performed	Hours Charged
1	2.2 Conduct Outreach and Engagement Activities	0.5
2	2.2 Conduct Outreach and Engagement Activities	1.75
3	2.2 Conduct Outreach and Engagement Activities	2.5
4	2.2 Conduct Outreach and Engagement Activities	1.75
5	2.2 Conduct Outreach and Engagement Activities	0.5
6		
7		
8	2.2 Conduct Outreach and Engagement Activities	2.5
9		
10		
11		
12		
13		
14		
15	2.2 Conduct Outreach and Engagement Activities	1.5
16	2.2 Conduct Outreach and Engagement Activities	2
17	2.2 Conduct Outreach and Engagement Activities	3.75
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
Total		16.75
Notes		

Daily Activity Report - Colusa Subbasin GSP - Project - #1178.03

Teresa Oehninger

November 2021	Work Performed	Hours Charged
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30	Project Support/Accounting-Invoicing	1
31		
Total		1
Notes		



Invoice No. 1091006
Invoice Date 02/01/2022
Account No. 000007074
Payment Terms Net 30

Due Date 03/03/2022
Total Amount Due \$1,580.50

Bill To Davids Engineering
Attn:Cynthia Clark / Accts. Payable
1772 Picasso Ave, Suite A
Davis CA 95618-0550

Questions regarding this invoice can be directed to the Bursar's Office at 916.278.6833

Line No.	Description	Identifier	Amount
	<i>Note: RE: COLUSA GSA GSP</i>		
	<i>PROJECT NO. 1178-03</i>	<i>CSUS PO # CE200237</i>	
			1,580.50

IN ACCORDANCE WITH THE ABOVE REFERENCED CONTRACT, OUR BILLING IS SUBMITTED FOR YOUR REVIEW AND AUTHORIZATION FOR PAYMENT AS FOLLOWS:

TOTAL AMOUNT OF CONTRACT: \$ 104,540.15
TOTAL INVOICED TO DATE: \$ 76,980.25

AMOUNT REMAINING: \$ 27,559.90
AMOUNT PAID TO DATE: \$ 54,189.75
CURRENT INVOICE: \$ 1,580.50

PROFESSIONAL SERVICES FOR DECEMBER 2021
(SEE ATTACHED FOR DETAILS)

**** FOR QUESTIONS REGARDING THIS INVOICE, PLEASE CONTACT TERESA OEHNINGER AT (916) 278-6581 ****

----- Please return this portion of invoice with payment -----

Total Amount Due: \$1,580.50
Please include the following on the payment:
Account No. 000007074
Invoice No. 1091006

Payable to:
California State University, Sacramento
6000 J. Street, MS 6052
Sacramento, CA 95819-6010

INVOICE 1091006

Date: February 1, 2022

To: Davids Engineering
 Attn: Cynthia Clark, Accounts Payable
 1772 Picasso Avenue, Suite A
 Davis, CA 95618-0550

From: Teresa Oehninger

Re: Colusa GSA GSP
 Project No. 1178-03

CSUS PO #CE200237

In accordance with the above referenced contract, our billing is submitted for your review and authorization for payment as follows:

Total Amount of Contract	\$ 104,540.15		
Total Invoiced To Date	\$ 76,980.25	% Billed	73.64%
Amount Remaining	\$ 27,559.90	% Remaining	26.36%
Amount Paid to Date	\$ 54,189.75		
Current Invoice	\$ 1,580.50		

Professional Services	December 1 - 31, 2021		Rate		
	Hours				
Dave Ceppos, Managing Senior Mediator	7.00	@ \$	206.00	\$	1,442.00
Corin Choppin	0.50	@ \$	95.00	\$	47.50
Teresa Oehninger	1.00	@ \$	91.00	\$	91.00
Total Professional Services:	8.50			\$	1,580.50

Direct Expenses	
Total Direct Expenses	\$ -
Total Invoice	\$ 1,580.50

Please make check payable to:
California State University, Sacramento
 6000 J Street, Sacramento, CA 95819-6010
 Accounts Receivable - Lassen Hall 1003

Please use this revenue chartstring: 502843 TECCE 93000

Internal Reference #19-007

Davids Engineering Colusa Subbasin Groundwater Sustainability Agency
 Hours by Task
 Decemer 1, 2021 - December 31, 2021

Tasks	Task 1	Task 2.1	Task 2.2	Task 2.3
Deborah Hunt	0.00	0.00	0.00	0.00
Dave Ceppos	0.00	0.00	7.00	0.00
Corin Choppin	0.00	0.00	0.50	0.00
Teresa Oehninger	1.00	0.00	0.00	0.00
Hours per Task	1.00	0.00	7.50	0.00
Total Hours:	8.50			

Daily Activity Report - Colusa Subbasin GSP - Project - #1178.03		
Dave Ceppos		
December 2021	Work Performed	Hours Charged
1	2.2 Conduct Outreach and Engagement Activities	2
2		
3		
4		
5		
6		
7		
8		
9	2.2 Conduct Outreach and Engagement Activities	2
10	2.2 Conduct Outreach and Engagement Activities	2
11		
12		
13		
14	2.2 Conduct Outreach and Engagement Activities	1
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
Total		7
Notes		

Daily Activity Report - Colusa Subbasin GSP - Project - #1178.03		
Corin Choppin		
December 2021	Work Performed	Hours Charged
1		
2		
3	2.2 Conduct Outreach and Engagement Activities	0.25
4		
5		
6	2.2 Conduct Outreach and Engagement Activities	0.25
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
Total		0.5
Notes		

Daily Activity Report - Colusa Subbasin GSP - Project - #1178.03

Teresa Oehninger

December 2021	Work Performed	Hours Charged
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		
29		
30	Project Support/Accounting-Invoicing	1
31		
Total		1
Notes		

INVOICE

From **ERA Economics, LLC**
 1111 Kennedy Place, Suite 4
 Davis, CA 95616
 530.341.3374

Invoice ID **DE20f.12**
 Issue Date **02/07/2022**
 Due Date **03/09/2022 (Net 30)**
 Subject **Colusa Subbasin GSP**

Invoice For **Davids Engineering**
 1772 Picasso Avenue, Suite A
 Davis CA 95618

Description	Quantity	Unit Price	Amount
[DE20f] Colusa Subbasin GSP - 01/14/2022 - Task 4: Funding Mechanisms Review / Duncan MacEwan: Meeting	0.50	\$185.00	\$92.50
[DE20f] Colusa Subbasin GSP - 01/14/2022 - Task 4: Funding Mechanisms Review / Stephen Hatchett: Conf call with Grant re finance; review GSP files and presentations	1.00	\$225.00	\$225.00
[DE20f] Colusa Subbasin GSP - 01/23/2022 - Task 4: Funding Mechanisms Review / Duncan MacEwan: Develop meeting notes and outline for Colusa GSP docs and FP presentation/overview and send to Steve	0.75	\$185.00	\$138.75
[DE20f] Colusa Subbasin GSP - 01/24/2022 - Task 4: Funding Mechanisms Review / Duncan MacEwan: Client meeting; follow up with Steve; refine outline presentation	1.50	\$185.00	\$277.50
[DE20f] Colusa Subbasin GSP - 01/24/2022 - Task 4: Funding Mechanisms Review / Stephen Hatchett: Review finance presentation; conf call	1.50	\$225.00	\$337.50
[DE20f] Colusa Subbasin GSP - 01/28/2022 - Task 4: Funding Mechanisms Review / Stephen Hatchett: Notes for presentation; review other GSA financing and prepare notes	3.00	\$225.00	\$675.00
[DE20f] Colusa Subbasin GSP - 01/30/2022 - Task 4: Funding Mechanisms Review / Stephen Hatchett: Notes for presentation outline	1.00	\$225.00	\$225.00
[DE20f] Colusa Subbasin GSP - 01/31/2022 - Task 4: Funding Mechanisms Review / Duncan MacEwan: Memorandum re: presentation outline; incorporate Steve outline; internal edits; transmit to DE; Add GSA FP summary from to project file and develop draft ppt template/outline	1.25	\$185.00	\$231.25

Amount Due \$2,202.50

Notes

Colusa Subbasin Groundwater Sustainability Plan

Davids Engineering PROJECT NUMBER: 1178.03

ERA work performed 1/1/22 - 1/31/22.

Budget Summary:

Task 4: Funding Mechanisms Review

Task 4 Budget: \$39,180

This invoice: \$2,202.50

Total Invoiced: \$33,912.50

Project	277-60-20-11	Colusa Subbasin GSP Preparation	Invoice	2048045
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Description of Services:

Task 1. No activity.

Task 2. No activity.

Task 3. No activity.

Task 4. No activity.

Task 5. No activity.

Task 6. No activity.

Task 7. No activity.

Task 8. No activity.

Task 9. No activity.

Task 10. No activity.

Task 11. Prepared final GSP for submittal. Developed outline for hydrogeologic investigation.

Task 12. No activity.

Outstanding Invoices

Number	Date	Balance
2047713	12/31/2021	22,054.00
Total		22,054.00

Project	277-60-20-11	Colusa Subbasin GSP Preparation	Invoice	2048045
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Task	Task Description	Budget Amount	Current Invoice	Total Invoiced To Date	Budget Remaining
001	Data Collection and Analysis	21,976.00	0.00	21,976.00	0.00
002	Monitoring Protocols	6,455.00	0.00	6,455.00	0.00
003	Data and Reporting Standards	9,451.00	0.00	9,451.00	0.00
004	Data Management System	5,000.00	0.00	4,999.00	1.00
005	GSP Administrative Information	21,949.00	0.00	21,949.00	0.00
006	Basin Setting	23,017.00	0.00	22,988.00	29.00
007	Sustainable Management Criteria	61,318.00	0.00	61,270.50	47.50
008	Monitoring Network	72,908.00	0.00	72,878.00	30.00
009	Projects and Management Actions	7,500.00	0.00	7,493.50	6.50
010	GSP Document Preparation and Adoption	65,278.00	0.00	65,202.37	75.63
011	Hydrogeologic Investigation	75,759.75	1,832.00	69,236.00	6,523.75
012	GDE Evaluation	5,000.00	0.00	0.00	5,000.00
WYA	West Yost Tracking Only	0.00	0.00	0.00	0.00
TOTAL		375,611.75	1,832.00	363,898.37	11,713.38

Please direct questions to:

Project Manager Kenneth Loy
Principal Lindsay Smith *LS*

Project	277-60-20-11	Colusa Subbasin GSP Preparation	Invoice	2048045
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Billing Backup

Thursday, February 3, 2022

West Yost Associates, Inc.

Invoice 2048045 Dated 1/28/2022

11:53:27 AM

Task 011 Hydrogeologic Investigation

Professional Personnel

		Hours	Rate	Amount	
Principal Eng/Scientist/Geologist II					
25 - Loy, Kenneth	1/5/2022	2.00	289.00	578.00	
Prepared revised outline for work plan.					
Associate Eng/Scientist/Geologist I					
41 - Reimer, Anna	1/25/2022	6.00	209.00	1,254.00	
Finalize and review GSP submittal.					
Totals		8.00		1,832.00	
Total Labor					1,832.00
				Total this Task	\$1,832.00
				Total this Project	\$1,832.00
				Total this Report	\$1,832.00

Colusa Groundwater Authority, Proposition 1 and Proposition 68 SGWP
Agreement No. 46-00012655

Report #14; Invoice #14 (Prop. 1)
Report #8; Invoice #8 (Prop. 68)
Reporting Period: 01/01/2022-03/31/2022

Davids Engineering, Inc.
Invoice #1178.04-5050
Invoice total: \$4,075.50

BUDGET CATEGORY A: GRANT ADMINISTRATION

Invoice total – Proposition 1: \$0.00

Invoice total – Proposition 68: \$0.00

BUDGET CATEGORY B: STAKEHOLDER OUTREACH AND EDUCATION

Invoice total – Proposition 1: \$0.00

Invoice total – Proposition 68: \$0.00

BUDGET CATEGORY C: GSP DEVELOPMENT

Invoice total – Proposition 1: \$0.00

Invoice total – Proposition 68: \$4,075.50

Description of Work performed:

- Gather Required Annual Report Data
 - Review PMAs contact information, gather and summarize PMAs information
- Describe Groundwater Conditions and Water Budget Components
 - Review hydrographs and groundwater storage, discuss hydrographs and storage change figures and results, obtain OpenET data for annual reporting
- Summarize progress Toward GSP Implementation
 - Summarize results of multi-benefit groundwater recharge pilot study for annual report, update PMA section of annual report outline
- Prepare Annual Report
 - Outline annual report

BUDGET CATEGORY D: MONITORING AND ASSESSMENT

Invoice total – Proposition 68: \$0.00

Invoice

DAVIDS ENGINEERING, INC.
 Tax ID#68-0346173
 1772 Picasso Avenue, Suite A
 Davis, CA 95618-0550
 530/757-6107 - phone
 530/757-6118 - fax

Lisa Hunter
 Glenn Groundwater Authority
 225 N Tehama St.
 Willows, CA 95988

March 07, 2022
 Invoice No: 1178.04 - 5050

Project 1178.04 Glenn Groundwater Authority - Colusa GSP Annual Report 2022
Professional Services from February 1, 2022 to February 28, 2022

Task 01.00 Gather Required Annual Report Data
 Sub-Task DE.00 Davids Engineering, Inc.

Professional Personnel

	Hours	Rate	Amount	
Associate Engineer I Klug, Katherine	6.25	175.00	1,093.75	
Associate Project Assistant Clark, Cynthia	.50	94.00	47.00	
Totals	6.75		1,140.75	
Total Labor				1,140.75
				Total this Sub-Task \$1,140.75
				Total this Task \$1,140.75

Billings to Date

	Current	Prior	Total
Labor	1,140.75	552.25	1,693.00
Totals	1,140.75	552.25	1,693.00

Task 02.00 Describe Groundwater Conditions and Water Budget Components
 Sub-Task DE.00 Davids Engineering, Inc.

Professional Personnel

	Hours	Rate	Amount	
Supervising Engineer Davids, Jeff	7.00	213.00	1,491.00	
Associate Engineer I Klug, Katherine	4.25	175.00	743.75	
Totals	11.25		2,234.75	
Total Labor				2,234.75
				Total this Sub-Task \$2,234.75
				Total this Task \$2,234.75

Project	1178.04	Glenn GWA -Colusa GSP Annual Report 2022	Invoice	5050
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Billings to Date

	Current	Prior	Total
Labor	2,234.75	303.75	2,538.50
Totals	2,234.75	303.75	2,538.50

Task 03.00 Summarize Progress Towards GSP Implementation

Sub-Task DE.00 Davids Engineering, Inc.

Professional Personnel

	Hours	Rate	Amount	
Associate Engineer I				
Harter, Chris	1.00	175.00	175.00	
Klug, Katherine	.75	175.00	131.25	
Totals	1.75		306.25	
Total Labor				306.25
				Total this Sub-Task
				\$306.25
				Total this Task
				\$306.25

Billings to Date

	Current	Prior	Total
Labor	306.25	0.00	306.25
Totals	306.25	0.00	306.25

Task 04.00 Prepare Annual Report

Sub-Task DE.00 Davids Engineering, Inc.

Professional Personnel

	Hours	Rate	Amount	
Associate Engineer I				
Klug, Katherine	2.25	175.00	393.75	
Totals	2.25		393.75	
Total Labor				393.75
				Total this Sub-Task
				\$393.75
				Total this Task
				\$393.75

Billings to Date

	Current	Prior	Total
Labor	393.75	437.50	831.25
Totals	393.75	437.50	831.25

Contract Amount

	Current	Prior	To-Date	
Total Billings	4,075.50	1,293.50	5,369.00	
Contract Amount			50,000.00	
Remaining			44,631.00	
				Total this Invoice
				\$4,075.50

Project 1178.04 Glenn GWA -Colusa GSP Annual Report 2022 Invoice 5050

Billing Backup

Monday, March 7, 2022

Davids Engineering, Inc.

Invoice 5050 Dated 3/7/2022

1:45:34 PM

Project 1178.04 Glenn Groundwater Authority - Colusa GSP Annual Report 2022
 Task 01.00 Gather Required Annual Report Data
 Sub-Task DE.00 Davids Engineering, Inc.

Professional Personnel

		Hours	Rate	Amount
Associate Engineer I				
Klug, Katherine	2/1/2022	3.50	175.00	612.50
	reviewing PMAs contact information and distributing data requests; gathering and summarizing PMAs information			
Klug, Katherine	2/2/2022	2.75	175.00	481.25
	reviewing PMAs contact information and distributing data requests; gathering and summarizing PMAs information			
Associate Project Assistant				
Clark, Cynthia	2/3/2022	.25	94.00	23.50
	Project support, accounting			
Clark, Cynthia	2/4/2022	.25	94.00	23.50
	Project support, accounting			
	Totals	6.75		1,140.75
	Total Labor			1,140.75
			Total this Sub-Task	\$1,140.75
			Total this Task	\$1,140.75

Task 02.00 Describe Groundwater Conditions and Water Budget Components
 Sub-Task DE.00 Davids Engineering, Inc.

Professional Personnel

		Hours	Rate	Amount
Supervising Engineer				
Davids, Jeff	2/1/2022	.75	213.00	159.75
	Call with K. Klug to review hydrographs and groundwater storage changes.			
Davids, Jeff	2/4/2022	1.50	213.00	319.50
	Working with West Yost on storage changes and hydrographs.			
Davids, Jeff	2/9/2022	1.25	213.00	266.25
	Call with West Yost, K. Klug, G. Davids to discuss hydrographs and storage change figures and results.			
Davids, Jeff	2/11/2022	1.75	213.00	372.75
	Call with K. Loy and A. Reimer regarding methodology and next steps for hydrograph preparation and storage change graphs.			
Davids, Jeff	2/14/2022	1.25	213.00	266.25
	Obtaining OpenET data for annual reporting. Coordination with West Yost regarding inputs for hydrograph preparation.			
Davids, Jeff	2/16/2022	.50	213.00	106.50
	Obtaining OpenET data for annual reporting.			

Project	1178.04	Glenn GWA -Colusa GSP Annual Report 2022	Invoice	5050	
Associate Engineer I					
Klug, Katherine		2/2/2022	.75	175.00	131.25
		preparing diversions inputs for Colusa subbasin water budget			
Klug, Katherine		2/4/2022	2.25	175.00	393.75
		Colusa hydrographs and annual report coordination; meeting with L. Hall to discuss Colusa water budget development; reviewing Colusa GSP data			
Klug, Katherine		2/7/2022	.25	175.00	43.75
		Colusa hydrographs coordination			
Klug, Katherine		2/9/2022	.25	175.00	43.75
		meeting with WY to discuss annual report hydrograph development			
Klug, Katherine		2/22/2022	.75	175.00	131.25
		coordination with M&A on reporting GW conditions in the Glenn County portion of the Colusa Subbasin			
		Totals	11.25		2,234.75
		Total Labor			2,234.75
				Total this Sub-Task	\$2,234.75
				Total this Task	\$2,234.75

Task	03.00	Summarize Progress Towards GSP Implementation
Sub-Task	DE.00	Davids Engineering, Inc.

Professional Personnel

			Hours	Rate	Amount
Associate Engineer I					
Harter, Chris		2/3/2022	1.00	175.00	175.00
		Coordination with K. Klug. Summarizing results of multi-benefit groundwater recharge pilot study for GSP annual report.			
Klug, Katherine		2/1/2022	.50	175.00	87.50
		updating Annual Report outline PMAs section, reviewing PMA updates and proponent information			
Klug, Katherine		2/11/2022	.25	175.00	43.75
		follow-up regarding PMAs information from proponents			
		Totals	1.75		306.25
		Total Labor			306.25
				Total this Sub-Task	\$306.25
				Total this Task	\$306.25

Task	04.00	Prepare Annual Report
Sub-Task	DE.00	Davids Engineering, Inc.

Professional Personnel

			Hours	Rate	Amount
Associate Engineer I					
Klug, Katherine		2/1/2022	.75	175.00	131.25
		outlining Colusa GSP annual report			
Klug, Katherine		2/2/2022	1.25	175.00	218.75

Project	1178.04	Glenn GWA -Colusa GSP Annual Report 2022	Invoice	5050
		outlining Colusa GSP annual report		
Klug, Katherine		2/7/2022	.25	175.00
		coordinating discussion of Annual Report figures		43.75
		Totals	2.25	393.75
		Total Labor		393.75
			Total this Sub-Task	\$393.75
			Total this Task	\$393.75
			Total this Project	\$4,075.50
			Total this Report	\$4,075.50

Colusa Groundwater Authority, Proposition 1 and Proposition 68 SGWP
Agreement No. 46-00012655

Report #14; Invoice #14 (Prop. 1)
Report #8; Invoice #8 (Prop. 68)
Reporting Period: 01/01/2022-03/31/2022

Davids Engineering, Inc.
Invoice #1178.03-5071
Invoice total: \$6,615.75

BUDGET CATEGORY A: GRANT ADMINISTRATION

Invoice total – Proposition 1: \$0.00

Invoice total – Proposition 68: \$0.00

BUDGET CATEGORY B: STAKEHOLDER OUTREACH AND EDUCATION

Invoice total – Proposition 1: \$0.00

Invoice total – Proposition 68: \$0.00

BUDGET CATEGORY C: GSP DEVELOPMENT

Invoice total – Proposition 1: \$0.00

Invoice total – Proposition 68: \$5,652.00

Description of Work performed:

- Project Management
 - Project support
- Data Management System
 - Review data management system guide, coordinate data upload, review and update task outline, downloading and importing of USGS data, running QC processes
- Funding Mechanisms
 - Map out PowerPoint outline, develop presentation outline for cost allocation approaches, develop cost allocation methodologies overview, develop presentation content, cost allocation approach, GIS cost allocation outline
- Hydrogeologic Investigation
 - Obtain OpenET data for annual reporting, OpenET coordination or collecting raster ET coverage of entire subbasin, preparing and distributing shapefiles to ERA for funding/financing work

BUDGET CATEGORY D: MONITORING AND ASSESSMENT

Invoice total – Proposition 68: \$963.75

Description of Work performed:

- Well Monitoring Pilot Program
 - Meeting on project expansion, update flyer, WMPP outreach

Invoice

DAVIDS ENGINEERING, INC.
 Tax ID#68-0346173
 1772 Picasso Avenue, Suite A
 Davis, CA 95618-0550
 530/757-6107 - phone
 530/757-6118 - fax

Lisa Hunter
 Glenn Groundwater Authority
 225 N Tehama St.
 Willows, CA 95988

March 22, 2022
 Invoice No: 1178.03 - 5071

Project 1178.03 Glenn Groundwater Authority - Colusa Subbasin GSP Development
Professional Services from February 1, 2022 to February 28, 2022

Task 01.00 Project Management

Professional Personnel

	Hours	Rate	Amount	
Associate Project Assistant				
Clark, Cynthia	.50	94.00	47.00	
Totals	.50		47.00	
Total Labor				47.00

Contract Amount	Current	Prior	To-Date	
Total Billings	47.00	44,151.50	44,198.50	
Contract Amount			44,200.00	
Remaining			1.50	
			Total this Task	\$47.00

Billings to Date

	Current	Prior	Total
Labor	47.00	44,151.50	44,198.50
Totals	47.00	44,151.50	44,198.50

Task 02.00 Stakeholder Outreach and Coordination

Sub-Task CS.US California State University, Sacramento

Contract Amount	Current	Prior	To-Date	
Total Billings	0.00	76,980.25	76,980.25	
Contract Amount			104,540.15	
Remaining			27,559.90	
			Total this Sub-Task	0.00

Sub-Task DE.00 Davids Engineering, Inc.

Contract Amount	Current	Prior	To-Date	
Total Billings	0.00	47,725.75	47,725.75	
Contract Amount			46,759.85	
			Total this Sub-Task	0.00

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5071
Total this Task				0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	47,725.75	47,725.75
Consultant	0.00	76,980.25	76,980.25
Totals	0.00	124,706.00	124,706.00

Task	03.01	Data Collection and Analysis		
Sub-Task	DE.00	Davids Engineering, Inc.		
Contract Amount		Current	Prior	To-Date
Total Billings		0.00	3,558.75	3,558.75
Contract Amount Remaining				3,559.00
				.25
Total this Sub-Task				0.00

Sub-Task	WY.A0	West Yost Associates		
Contract Amount		Current	Prior	To-Date
Total Billings		0.00	21,976.00	21,976.00
Contract Amount				21,976.00
Total this Sub-Task				0.00
Total this Task				0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	3,558.75	3,558.75
Consultant	0.00	21,976.00	21,976.00
Totals	0.00	25,534.75	25,534.75

Task	03.02	Integrated Hydrologic Modeling		
Sub-Task	DE.00	Davids Engineering, Inc.		
Contract Amount		Current	Prior	To-Date
Total Billings		0.00	111,913.00	111,913.00
Contract Amount				111,913.00
Total this Sub-Task				0.00
Total this Task				0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	111,913.00	111,913.00
Totals	0.00	111,913.00	111,913.00

Task	03.03	Monitoring Protocols		
Sub-Task	DE.00	Davids Engineering, Inc.		

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5071	
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	110.00	110.00
Contract Amount					110.00
Total this Sub-Task					0.00

Sub-Task	WY.A0	West Yost Associates			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	6,455.00	6,455.00
Contract Amount					6,455.00
Total this Sub-Task					0.00
Total this Task					0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	110.00	110.00
Consultant	0.00	6,455.00	6,455.00
Totals	0.00	6,565.00	6,565.00

Task	03.04	Data and Reporting Standards		
Sub-Task	DE.00	Dauids Engineering, Inc.		
Total this Sub-Task				0.00

Sub-Task	WY.A0	West Yost Associates			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	9,451.00	9,451.00
Contract Amount					9,451.00
Total this Sub-Task					0.00
Total this Task					0.00

Billings to Date

	Current	Prior	Total
Consultant	0.00	9,451.00	9,451.00
Totals	0.00	9,451.00	9,451.00

Task	03.05	Data Management System		
Sub-Task	DE.00	Dauids Engineering, Inc.		

Professional Personnel

	Hours	Rate	Amount
Associate Engineer I			
Klug, Katherine	4.75	175.00	831.25
Intern II			
Otto, Joshua	4.00	72.00	288.00
Totals	8.75		1,119.25
Total Labor			1,119.25

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5071	
Contract Amount			Current	Prior	To-Date
Total Billings			1,119.25	3,461.00	4,580.25
Contract Amount Remaining					21,146.00
					16,565.75
Total this Sub-Task				\$1,119.25	

Sub-Task	WY.A0	West Yost Associates			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	4,999.00	4,999.00
Contract Amount Remaining					5,000.00
					1.00
Total this Sub-Task				0.00	
Total this Task				\$1,119.25	

Billings to Date

	Current	Prior	Total
Labor	1,119.25	3,461.00	4,580.25
Consultant	0.00	4,999.00	4,999.00
Totals	1,119.25	8,460.00	9,579.25

Task	03.06	GSP Administrative Information			
Sub-Task	DE.00	Dauids Engineering, Inc.			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	307.50	307.50
Contract Amount					307.00
Total this Sub-Task				0.00	

Sub-Task	WY.A0	West Yost Associates			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	21,949.00	21,949.00
Contract Amount					21,949.00
Total this Sub-Task				0.00	
Total this Task				0.00	

Billings to Date

	Current	Prior	Total
Labor	0.00	307.50	307.50
Consultant	0.00	21,949.00	21,949.00
Totals	0.00	22,256.50	22,256.50

Task	03.07	Basin Setting			
Sub-Task	DE.00	Dauids Engineering, Inc.			

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5071	
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	19,465.00	19,465.00
Contract Amount Remaining					19,468.00
					3.00
Total this Sub-Task					0.00

Sub-Task	ER.A0	ERA Economics, LLC			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	2,455.00	2,455.00
Contract Amount					2,455.00
Total this Sub-Task					0.00

Sub-Task	WY.A0	West Yost Associates			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	22,988.00	22,988.00
Contract Amount					23,017.00
Remaining					29.00
Total this Sub-Task					0.00
Total this Task					0.00
Billings to Date					
			Current	Prior	Total
Labor			0.00	19,465.00	19,465.00
Consultant			0.00	25,443.00	25,443.00
Totals			0.00	44,908.00	44,908.00

Task	03.08	Sustainable Management Criteria			
Sub-Task	DE.00	Davids Engineering, Inc.			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	52,647.20	52,647.20
Contract Amount					52,654.00
Remaining					6.80
Total this Sub-Task					0.00

Sub-Task	ER.A0	ERA Economics, LLC			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	11,221.00	11,221.00
Contract Amount					11,221.00
Total this Sub-Task					0.00

Sub-Task	WC.00	Woodard and Curran, Inc.			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	154,669.25	154,669.25
Contract Amount					154,669.25

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5071
Total this Sub-Task				0.00

Sub-Task	WY.A0	West Yost Associates			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	61,270.50	61,270.50
Contract Amount					61,318.00
Remaining					47.50
Total this Sub-Task					0.00
Total this Task					0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	52,647.20	52,647.20
Consultant	0.00	227,161.00	227,161.00
Add-on	0.00	-.25	-.25
Totals	0.00	279,807.95	279,807.95

Task	03.09	Monitoring Network			
Sub-Task	DE.00	Davids Engineering, Inc.			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	4,590.00	4,590.00
Contract Amount					4,590.00
Total this Sub-Task					0.00

Sub-Task	WY.A0	West Yost Associates			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	72,878.00	72,878.00
Contract Amount					72,908.00
Remaining					30.00
Total this Sub-Task					0.00
Total this Task					0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	4,590.00	4,590.00
Consultant	0.00	72,878.00	72,878.00
Totals	0.00	77,468.00	77,468.00

Task	03.10	Projects and Management Actions			
Sub-Task	DE.00	Davids Engineering, Inc.			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	92,347.75	92,347.75
Contract Amount					92,836.00
Remaining					488.25

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5071
Total this Sub-Task				0.00

Sub-Task	ER.A0	ERA Economics, LLC		
Contract Amount			Current	Prior
Total Billings			0.00	48,363.75
Contract Amount				50,000.00
Remaining				1,636.25
Total this Sub-Task				0.00

Sub-Task	WY.A0	West Yost Associates		
Contract Amount			Current	Prior
Total Billings			0.00	7,493.50
Contract Amount				7,500.00
Remaining				6.50
Total this Sub-Task				0.00
Total this Task				0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	92,350.75	92,350.75
Consultant	0.00	55,857.25	55,857.25
Add-on	0.00	-3.00	-3.00
Totals	0.00	148,205.00	148,205.00

Task	03.11	GSP Document Preparation and Adoption		
Sub-Task	DE.00	Davids Engineering, Inc.		
Contract Amount			Current	Prior
Total Billings			0.00	39,549.00
Contract Amount				39,549.00
Total this Sub-Task				0.00

Sub-Task	WY.A0	West Yost Associates		
Contract Amount			Current	Prior
Total Billings			0.00	65,202.37
Contract Amount				65,278.00
Remaining				75.63
Total this Sub-Task				0.00
Total this Task				0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	39,549.00	39,549.00
Consultant	0.00	65,202.37	65,202.37
Totals	0.00	104,751.37	104,751.37

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5071
Task	04.00	Funding Mechanisms		
Sub-Task	DE.00	Dauids Engineering, Inc.		
Contract Amount			Current	Prior
Total Billings			0.00	9,680.00
Contract Amount				9,680.00
Total this Sub-Task				0.00

Sub-Task	ER.A0	ERA Economics, LLC		
Consultants				
ERA Economics, LLC				
2/28/2022	ERA Economics, LLC	Professional Services from February 1 to February 28, 2022 - see attached		2,766.25
Total Consultants			1.0 times	2,766.25
				2,766.25
Contract Amount			Current	Prior
Total Billings			2,766.25	33,912.50
Contract Amount				40,000.00
Remaining				3,321.25
Total this Sub-Task				\$2,766.25
Total this Task				\$2,766.25

Billings to Date

	Current	Prior	Total
Labor	0.00	9,680.00	9,680.00
Consultant	2,766.25	33,912.50	36,678.75
Totals	2,766.25	43,592.50	46,358.75

Task	05.00	Hydrogeologic Investigation		
Sub-Task	DE.00	Dauids Engineering, Inc.		
Professional Personnel				
			Hours	Rate
				Amount
Senior Project Assistant				
Dauids, Kristi			1.00	105.00
Supervising Engineer				
Dauids, Jeff			3.00	213.00
Associate Engineer I				
Klug, Katherine			4.50	175.00
Associate Project Assistant				
Clark, Cynthia			2.00	94.00
Totals			10.50	1,719.50
Total Labor				1,719.50
Contract Amount			Current	Prior
Total Billings			1,719.50	34,126.75
Contract Amount				65,099.00
Remaining				29,252.75

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5071
			Total this Sub-Task	\$1,719.50

Sub-Task	WY.A0	West Yost Associates			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	69,236.00	69,236.00
Contract Amount					75,759.75
Remaining					6,523.75
			Total this Sub-Task		0.00
			Total this Task		\$1,719.50

Billings to Date

	Current	Prior	Total
Labor	1,719.50	34,126.75	35,846.25
Consultant	0.00	69,236.00	69,236.00
Totals	1,719.50	103,362.75	105,082.25

Task	06.00	GDE Evaluation			
Sub-Task	DE.00	Davids Engineering, Inc.			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	15,532.50	15,532.50
Contract Amount					20,532.00
Remaining					4,999.50
			Total this Sub-Task		0.00

Sub-Task	WY.A0	West Yost Associates			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	0.00	0.00
Contract Amount					5,000.00
Remaining					5,000.00
			Total this Sub-Task		0.00
			Total this Task		0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	15,532.50	15,532.50
Totals	0.00	15,532.50	15,532.50

Task	07.00	Well Monitoring Pilot Program			
Sub-Task	DE.00	Davids Engineering, Inc.			
Professional Personnel			Hours	Rate	Amount
Associate Engineer II					
Alexander, Nadya			1.00	186.00	186.00
Associate Engineer I					
Klug, Katherine			3.75	175.00	656.25

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5071
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Billing Backup Tuesday, March 22, 2022

Davids Engineering, Inc. Invoice 5071 Dated 3/22/2022 4:07:05 PM

Project	1178.03	Glenn Groundwater Authority - Colusa Subbasin GSP Development
Task	01.00	Project Management

Professional Personnel

			Hours	Rate	Amount
Associate Project Assistant					
Clark, Cynthia	2/3/2022	Project support, accounting	.25	94.00	23.50
Clark, Cynthia	2/9/2022	Project support, accounting	.25	94.00	23.50
Totals			.50		47.00
Total Labor					47.00

Total this Task \$47.00

Task	03.05	Data Management System
Sub-Task	DE.00	Davids Engineering, Inc.

Professional Personnel

			Hours	Rate	Amount
Associate Engineer I					
Klug, Katherine	2/2/2022	reviewing Colusa DMS guide, coordinating data upload to Colusa DMS	1.50	175.00	262.50
Klug, Katherine	2/3/2022	providing support to J. Otto with DMS uploads and DMS operation	1.25	175.00	218.75
Klug, Katherine	2/7/2022	reviewing and updating DMS task outline, drafting sample task budget	1.50	175.00	262.50
Klug, Katherine	2/14/2022	QC review of DMS uploads	.25	175.00	43.75
Klug, Katherine	2/23/2022	DMS task followup	.25	175.00	43.75
Intern II					
Otto, Joshua	2/3/2022	Coordination meeting with K. Klug on importing and processing data through DMS	1.25	72.00	90.00
Otto, Joshua	2/7/2022	Downloading and importing of USGS data, running QC processes	2.75	72.00	198.00
Totals			8.75		1,119.25
Total Labor					1,119.25

Total this Sub-Task \$1,119.25

Total this Task \$1,119.25

Task	04.00	Funding Mechanisms
Sub-Task	ER.A0	ERA Economics, LLC

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5071
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Consultants

ERA Economics, LLC				
AP 8625	2/28/2022	ERA Economics, LLC / Professional Services from February 1 to February 28, 2022 - see attached	2,766.25	
Total Consultants			1.0 times	2,766.25
			Total this Sub-Task	\$2,766.25
			Total this Task	\$2,766.25

Task	05.00	Hydrogeologic Investigation
Sub-Task	DE.00	Davids Engineering, Inc.

Professional Personnel

		Hours	Rate	Amount
Senior Project Assistant				
Davids, Kristi	2/2/2022	.25	105.00	26.25
project support, accounting				
Davids, Kristi	2/7/2022	.25	105.00	26.25
project support, accounting				
Davids, Kristi	2/9/2022	.25	105.00	26.25
project support, accounting				
Davids, Kristi	2/22/2022	.25	105.00	26.25
project support, accounting				
Supervising Engineer				
Davids, Jeff	2/14/2022	.75	213.00	159.75
Obtaining OpenET data for annual reporting.				
Davids, Jeff	2/15/2022	1.25	213.00	266.25
Working with IriWatch to get monthly IriTracker data for comparison between GSP and GSP annual reports				
Davids, Jeff	2/16/2022	.75	213.00	159.75
Obtaining OpenET data for annual reporting.				
Davids, Jeff	2/24/2022	.25	213.00	53.25
OpenET coordination for collecting raster ET coverage of entire subbasin.				
Associate Engineer I				
Klug, Katherine	2/2/2022	.75	175.00	131.25
reviewing financing plan presentation outline				
Klug, Katherine	2/8/2022	.25	175.00	43.75
scheduling and coordinating WY meeting				
Klug, Katherine	2/10/2022	.75	175.00	131.25
Colusa GSP project meeting coordination; project status update memo				
Klug, Katherine	2/11/2022	.50	175.00	87.50
monthly project report updates; funding/financing discussion coordination				
Klug, Katherine	2/14/2022	.25	175.00	43.75
funding/financing discussion coordination				
Klug, Katherine	2/18/2022	1.00	175.00	175.00
project status update, reviewing and revising grant progress report				
Klug, Katherine	2/22/2022	.50	175.00	87.50
coordination with M&A on reporting GW conditions in the Glenn County portion of the Colusa Subbasin				
Klug, Katherine	2/28/2022	.50	175.00	87.50
preparing and distributing shapefiles to ERA for funding/financing work				

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5071	
Associate Project Assistant					
Clark, Cynthia		2/4/2022	.50	94.00	47.00
	Project support, accounting				
Clark, Cynthia		2/10/2022	.25	94.00	23.50
	Project support, accounting				
Clark, Cynthia		2/11/2022	.25	94.00	23.50
	Project support, accounting				
Clark, Cynthia		2/23/2022	.50	94.00	47.00
	Project support, accounting				
Clark, Cynthia		2/28/2022	.50	94.00	47.00
	Project support, accounting				
	Totals		10.50		1,719.50
	Total Labor				1,719.50
				Total this Sub-Task	\$1,719.50
				Total this Task	\$1,719.50

Task 07.00 Well Monitoring Pilot Program

Sub-Task DE.00 Davids Engineering, Inc.

Professional Personnel

			Hours	Rate	Amount
Associate Engineer II					
Alexander, Nadya		2/15/2022	1.00	186.00	186.00
	Meeting on project expansion				
Associate Engineer I					
Klug, Katherine		2/8/2022	.25	175.00	43.75
	WMPP expansion planning follow-up				
Klug, Katherine		2/10/2022	.25	175.00	43.75
	WMPP expansion planning follow-up				
Klug, Katherine		2/14/2022	.75	175.00	131.25
	WMPP memo updates, meeting coordination				
Klug, Katherine		2/15/2022	1.75	175.00	306.25
	WMPP expansion planning meeting; follow-up coordination				
Klug, Katherine		2/17/2022	.50	175.00	87.50
	updating WMPP expansion flyer				
Klug, Katherine		2/24/2022	.25	175.00	43.75
	coordinating WMPP outreach				
Staff Project Assistant					
Schroeder, Cathy		2/16/2022	1.00	81.00	81.00
	Edit text in Well Monitoring Pilot Program document and prepare a fillable pdf				
Schroeder, Cathy		2/17/2022	.50	81.00	40.50
	Edit text in Well Monitoring Pilot Program document				
	Totals		6.25		963.75
	Total Labor				963.75
				Total this Sub-Task	\$963.75
				Total this Task	\$963.75

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5071
			Total this Project	\$6,615.75
			Total this Report	\$6,615.75

INVOICE

From **ERA Economics, LLC**
 1111 Kennedy Place, Suite 4
 Davis, CA 95616
 530.341.3374

Invoice ID **DE20f.13**
 Issue Date **03/02/2022**
 Due Date **04/01/2022 (Net 30)**
 Subject **Colusa Subbasin GSP**

Invoice For **Davids Engineering**
 1772 Picasso Avenue, Suite A
 Davis CA 95618

Description	Quantity	Unit Price	Amount
[DE20f] Colusa Subbasin GSP - 02/15/2022 - Task 4: Funding Mechanisms Review / Duncan MacEwan: Misc Coordination and follow up re: presentation materials and topics	0.75	\$185.00	\$138.75
[DE20f] Colusa Subbasin GSP - 02/22/2022 - Task 4: Funding Mechanisms Review / Stephen Hatchett: Review GSP	1.00	\$225.00	\$225.00
[DE20f] Colusa Subbasin GSP - 02/23/2022 - Task 4: Funding Mechanisms Review / Stephen Hatchett: Presentation slides; call to discuss	1.50	\$225.00	\$337.50
[DE20f] Colusa Subbasin GSP - 02/23/2022 - Task 4: Funding Mechanisms Review / Duncan MacEwan: Internal meeting. Map out ppt outline; develop data requests for DE; develop internal requests for GSP review and data analysis	1.25	\$185.00	\$231.25
[DE20f] Colusa Subbasin GSP - 02/24/2022 - Task 4: Funding Mechanisms Review / Duncan MacEwan: Review GSP, funding needs, PMAs; develop presentation outline for cost allocation approaches; prepare data request for DE re: basin land use and GIS data; develop cost allocation methodologies overview	2.25	\$185.00	\$416.25
[DE20f] Colusa Subbasin GSP - 02/25/2022 - Task 4: Funding Mechanisms Review / Duncan MacEwan: Inventory existing GSA fee studies, prepare workbook for Eugene/internal meeting. Work on ppt slides -- flow chart for finance plan development and rate study	1.00	\$185.00	\$185.00
[DE20f] Colusa Subbasin GSP - 02/27/2022 - Task 4: Funding Mechanisms Review / Duncan MacEwan: Review GIS data and inventory; develop workplan notes for rate options for Brooks	1.00	\$185.00	\$185.00
[DE20f] Colusa Subbasin GSP - 02/28/2022 - Task 4: Funding Mechanisms Review / Duncan MacEwan: Develop presentation content, cost allocation approach; GIS data cost allocation outline for Brooks; internal meetings and follow up on options/analysis	2.50	\$185.00	\$462.50
[DE20f] Colusa Subbasin GSP - 02/28/2022 - Task 4: Funding Mechanisms Review / Brooks Ronspies: - Meeting for GIS analysis and map layers	1.00	\$135.00	\$135.00

[DE20f] Colusa Subbasin GSP - 02/28/2022 - Task 4: Funding Mechanisms Review / Stephen Hatchett: Workshop presentation	2.00	\$225.00	\$450.00
		Amount Due	\$2,766.25

Notes

Colusa Subbasin Groundwater Sustainability Plan
 Davids Engineering PROJECT NUMBER: 1178.03

ERA work performed 2/1/22 - 2/28/22.

Budget Summary:

Task 4: Funding Mechanisms Review
 This invoice: \$2,766.25
 Total invoiced: \$36,678.75

Colusa Groundwater Authority, Proposition 1 and Proposition 68 SGWP
Agreement No. 46-00012655

Report #14; Invoice #14 (Prop. 1)
Report #8; Invoice #8 (Prop. 68)
Reporting Period: 01/01/2022-03/31/2022

Davids Engineering, Inc.
Invoice #1178.04-5122
Invoice total: \$42,728.50

BUDGET CATEGORY A: GRANT ADMINISTRATION

Invoice total – Proposition 1: \$0.00

Invoice total – Proposition 68: \$0.00

BUDGET CATEGORY B: STAKEHOLDER OUTREACH AND EDUCATION

Invoice total – Proposition 1: \$0.00

Invoice total – Proposition 68: \$0.00

BUDGET CATEGORY C: GSP DEVELOPMENT

Invoice total – Proposition 1: \$0.00

Invoice total – Proposition 68: \$42,728.50

Description of Work performed:

- Gather Required Annual Report Data
 - Download farm gate deliveries data, download precipitation data, download water supply/delivery data
- Describe Groundwater Conditions and Water Budget Components
 - Discuss groundwater hydrograph changes, input perforation data into code format, OpenET analysis, work on hydrographs of groundwater wells, annual report water budget development, Joint TAC presentation development and updates, prepare water supply updates for annual report
- Summarize Progress Towards GSP Implementation
 - Annual report documentation updates, participated in Joint TAC meeting, finalized content for annual report presentation, prepared updates to PMAs, reviewed and checked water budget numbers, reviewed consistency with annual report tales/figures, responded to comments
- Prepare Annual Report

Colusa Groundwater Authority, Proposition 1 and Proposition 68 SGWP
Agreement No. 46-00012655

- Annual Report review, annual report PowerPoint review, documentation updates, distributed draft report, participated in CGA meeting, prepare DWR SGMA portal uploads

BUDGET CATEGORY D: MONITORING AND ASSESSMENT

Invoice total – Proposition 68: \$0.00

Invoice

DAVIDS ENGINEERING, INC.
 Tax ID#68-0346173
 1772 Picasso Avenue, Suite A
 Davis, CA 95618-0550
 530/757-6107 - phone
 530/757-6118 - fax

Lisa Hunter
 Glenn Groundwater Authority
 225 N Tehama St.
 Willows, CA 95988

April 12, 2022
 Invoice No: 1178.04 - 5122

Project 1178.04 Glenn Groundwater Authority - Colusa GSP Annual Report 2022
Professional Services from March 1, 2022 to March 31, 2022

Task 01.00 Gather Required Annual Report Data

Sub-Task DE.00 Davids Engineering, Inc.

Professional Personnel

	Hours	Rate	Amount	
Associate Engineer I Klug, Katherine	4.50	175.00	787.50	
Associate Project Assistant Clark, Cynthia	.50	94.00	47.00	
Totals	5.00		834.50	
Total Labor				834.50
				Total this Sub-Task \$834.50
				Total this Task \$834.50

Billings to Date

	Current	Prior	Total
Labor	834.50	1,693.00	2,527.50
Totals	834.50	1,693.00	2,527.50

Task 02.00 Describe Groundwater Conditions and Water Budget Components

Sub-Task DE.00 Davids Engineering, Inc.

Professional Personnel

	Hours	Rate	Amount	
Assistant Engineer II Boettner, Isabelle	31.00	129.00	3,999.00	
Supervising Engineer Davids, Jeff	14.00	213.00	2,982.00	
Associate Engineer I Klug, Katherine	19.75	175.00	3,456.25	
Totals	64.75		10,437.25	
Total Labor				10,437.25
				Total this Sub-Task \$10,437.25

Project	1178.04	Glenn GWA -Colusa GSP Annual Report 2022	Invoice	5122
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Sub-Task WY.A0 West Yost Associates

Consultants

West Yost Associates, Inc.

3/30/2022	West Yost Associates, Inc.	Professional Services from January 29 to February 25, 2022 - see attached	7,530.50
3/31/2022	West Yost Associates, Inc.	Professional Services from February 26 to March 25, 2022 - see attached	15,393.50

Total Consultants 1.0 times 22,924.00 22,924.00

Total this Sub-Task \$22,924.00

Total this Task \$33,361.25

Billings to Date

	Current	Prior	Total
Labor	10,437.25	2,538.50	12,975.75
Consultant	22,924.00	0.00	22,924.00
Totals	33,361.25	2,538.50	35,899.75

Task 03.00 Summarize Progress Towards GSP Implementation

Sub-Task DE.00 Davids Engineering, Inc.

Professional Personnel

	Hours	Rate	Amount
Senior Project Assistant Davids, Kristi	.25	105.00	26.25
Associate Engineer I Klug, Katherine	18.25	175.00	3,193.75
Totals	18.50		3,220.00
Total Labor			3,220.00

Total this Sub-Task \$3,220.00

Total this Task \$3,220.00

Billings to Date

	Current	Prior	Total
Labor	3,220.00	306.25	3,526.25
Totals	3,220.00	306.25	3,526.25

Task 04.00 Prepare Annual Report

Sub-Task DE.00 Davids Engineering, Inc.

Professional Personnel

	Hours	Rate	Amount
Principal Engineer Davids, Grant	1.75	220.00	385.00
Davids, John	4.25	233.00	990.25

Project	1178.04	Glenn GWA -Colusa GSP Annual Report 2022		Invoice	5122
Associate Engineer I					
	Klug, Katherine	22.50	175.00	3,937.50	
	Totals	28.50		5,312.75	
	Total Labor				5,312.75
				Total this Sub-Task	\$5,312.75
				Total this Task	\$5,312.75

Billings to Date

	Current	Prior	Total
Labor	5,312.75	831.25	6,144.00
Totals	5,312.75	831.25	6,144.00

Contract Amount

	Current	Prior	To-Date
Total Billings	42,728.50	5,369.00	48,097.50
Contract Amount			50,000.00
Remaining			1,902.50
			Total this Invoice
			\$42,728.50

Billings to Date

	Current	Prior	Total
Labor	19,804.50	5,369.00	25,173.50
Consultant	22,924.00	0.00	22,924.00
Totals	42,728.50	5,369.00	48,097.50

I certify that the above invoice is true and correct to the best of my knowledge.

Authorized By: _____



Date: _____

04/12/2022

Project 1178.04 Glenn GWA -Colusa GSP Annual Report 2022 Invoice 5122

Billing Backup

Tuesday, April 12, 2022

Davids Engineering, Inc.

Invoice 5122 Dated 4/12/2022

4:46:27 PM

 Project 1178.04 Glenn Groundwater Authority - Colusa GSP Annual Report 2022

 Task 01.00 Gather Required Annual Report Data

 Sub-Task DE.00 Davids Engineering, Inc.

Professional Personnel

		Hours	Rate	Amount
Associate Engineer I				
Klug, Katherine	3/4/2022	2.00	175.00	350.00
	downloading and QCing farm gate deliveries data; downloading precipitation data			
Klug, Katherine	3/5/2022	.50	175.00	87.50
	downloading and QCing farm gate deliveries data; downloading precipitation data			
Klug, Katherine	3/10/2022	2.00	175.00	350.00
	downloading water supply/delivery data			
Associate Project Assistant				
Clark, Cynthia	3/2/2022	.25	94.00	23.50
	Project support/Accounting			
Clark, Cynthia	3/7/2022	.25	94.00	23.50
	Project support/Accounting			
	Totals	5.00		834.50
	Total Labor			834.50
			Total this Sub-Task	\$834.50
			Total this Task	\$834.50

 Task 02.00 Describe Groundwater Conditions and Water Budget Components

 Sub-Task DE.00 Davids Engineering, Inc.

Professional Personnel

		Hours	Rate	Amount
Assistant Engineer II				
Boettner, Isabelle	3/3/2022	1.50	129.00	193.50
	Discussed groundwater hydrograph changes with J. Davids, input perforation data into code format, and add in additional columns to shapefile of RMS wells.			
Boettner, Isabelle	3/4/2022	4.25	129.00	548.25
	Discussed OpenET analysis with J. Davids and started working on analysis.			
Boettner, Isabelle	3/6/2022	1.50	129.00	193.50
	Worked on OpenET analysis.			
Boettner, Isabelle	3/7/2022	6.25	129.00	806.25
	Finished analysis for OpenET data for area of interest, revied results with J. Davids, and made changes suggested by J. Davids.			
Boettner, Isabelle	3/8/2022	2.25	129.00	290.25
	Worked on hydrographs of groundwater wells.			

Project	1178.04	Glenn GWA -Colusa GSP Annual Report 2022	Invoice	5122
Boettner, Isabelle	3/9/2022	5.75 129.00	741.75	
Worked on hydrographs with J. Davids and made changes from J. Davids.				
Boettner, Isabelle	3/10/2022	3.00 129.00	387.00	
Made changes to hydrographs from J. Davids and worked on storage coefficients with J. Davids.				
Boettner, Isabelle	3/11/2022	3.25 129.00	419.25	
Did analysis of land uses for IrriWatch ETa data, looked into missing RMS wells, and created comparison graph of IWFM results.				
Boettner, Isabelle	3/16/2022	2.25 129.00	290.25	
Made changes to script to include missing RMS wells.				
Boettner, Isabelle	3/17/2022	1.00 129.00	129.00	
Fixed missing well and reran script.				
Supervising Engineer				
Davids, Jeff	3/1/2022	.25 213.00	53.25	
Coordination with K. Klug for hydrograph and storage graph preparations.				
Davids, Jeff	3/2/2022	.25 213.00	53.25	
Coordination with K. Klug for hydrograph and storage graph preparations.				
Davids, Jeff	3/4/2022	1.75 213.00	372.75	
Working with I. Boettner on configuration of files, analysis logic and structure, and code.				
Davids, Jeff	3/7/2022	2.50 213.00	532.50	
Working with I. Boettner and W. Carrara on OpenET analysis, review of data, quality control, and transmittal.				
Davids, Jeff	3/8/2022	.25 213.00	53.25	
Creating hydrographs and storage change graphs with I. Boettner.				
Davids, Jeff	3/9/2022	1.75 213.00	372.75	
Working with I. Boettner on groundwater storage change graphs for Colusa subbasin; reviewing hydrographs and coordination with K. Klug.				
Davids, Jeff	3/10/2022	2.75 213.00	585.75	
Working on implementing custom storage coefficient for RMS wells. Reviewing hydrographs with I. Boettner. Reviewing storage change graphs with I. Boettner.				
Davids, Jeff	3/11/2022	3.25 213.00	692.25	
OpenET and IrriWatch comparison, preparation call for TAC meeting, participation in TAC meeting.				
Davids, Jeff	3/13/2022	.50 213.00	106.50	
Coordination with I. Boettner to finish remaining hydrographs and storage change figures.				
Davids, Jeff	3/16/2022	.25 213.00	53.25	
Revisions to hydrographs and storage change graphs.				
Davids, Jeff	3/17/2022	.50 213.00	106.50	
Supporting storage change and hydrograph development. Answering questions about changes to storage change graphs from West Yost.				
Associate Engineer I				
Klug, Katherine	3/4/2022	6.25 175.00	1,093.75	
Colusa diversions/deliveries development				
Klug, Katherine	3/7/2022	.75 175.00	131.25	
Colusa annual report water budget development				
Klug, Katherine	3/8/2022	3.50 175.00	612.50	
Colusa annual report water budget development				
Klug, Katherine	3/9/2022	1.50 175.00	262.50	
Colusa annual report water budget development, Joint TAC presentation development and updates				

Project	1178.04	Glenn GWA -Colusa GSP Annual Report 2022	Invoice	5122	
Klug, Katherine		3/10/2022	4.00	175.00	700.00
		Colusa annual report water budget development, Joint TAC presentation development and updates			
Klug, Katherine		3/17/2022	2.25	175.00	393.75
		preparing water supply updates for Colusa annual report			
Klug, Katherine		3/18/2022	.25	175.00	43.75
		reviewing water supply updates for Colusa annual report			
Klug, Katherine		3/22/2022	1.25	175.00	218.75
		reviewing and responding to comments on ET differences in 2014-2015 and 2020-2021			
		Totals	64.75		10,437.25
		Total Labor			10,437.25
				Total this Sub-Task	\$10,437.25

Sub-Task	WY.A0	West Yost Associates		
Consultants				
West Yost Associates, Inc.				
AP 8729	3/30/2022	☐ West Yost Associates, Inc. / Professional Services from January 29 to February 25, 2022 - see attached		7,530.50
AP 8724	3/31/2022	☐ West Yost Associates, Inc. / Professional Services from February 26 to March 25, 2022 - see attached		15,393.50
		Total Consultants	1.0 times	22,924.00
			Total this Sub-Task	\$22,924.00
			Total this Task	\$33,361.25

Task	03.00	Summarize Progress Towards GSP Implementation			
Professional Personnel					
			Hours	Rate	
				Amount	
		Senior Project Assistant			
Davids, Kristi	3/23/2022	Project support, accounting	.25	105.00	26.25
		Associate Engineer I			
Klug, Katherine	3/8/2022	Colusa annual report documentation, sharing table outlines with WY	2.25	175.00	393.75
Klug, Katherine	3/9/2022	Colusa annual report documentation updates	1.00	175.00	175.00
Klug, Katherine	3/10/2022	Colusa annual report documentation updates	2.25	175.00	393.75
Klug, Katherine	3/11/2022	preparing for and participating in Joint TAC	3.00	175.00	525.00
Klug, Katherine	3/15/2022	finalizing content for Colusa Annual Report presentation	1.00	175.00	175.00
Klug, Katherine	3/16/2022	preparing for and participating in GGA Board meeting; preparing for CGA Board meeting	2.00	175.00	350.00

Project	1178.04	Glenn GWA -Colusa GSP Annual Report 2022	Invoice	5122		
Klug, Katherine		3/17/2022	2.00	175.00	350.00	
		preparing updates to PMAs				
Klug, Katherine		3/18/2022	2.00	175.00	350.00	
		updating PMA descriptions				
Klug, Katherine		3/28/2022	.75	175.00	131.25	
		preparing and sharing draft sinkholes discussion, draft map mockup, reviewing comments on draft Annual Report				
Klug, Katherine		3/30/2022	2.00	175.00	350.00	
		reviewing and checking water budget numbers, reviewing consistency with annual report tables/figures, responding to comments				
		Totals	18.50		3,220.00	
		Total Labor				3,220.00
						Total this Sub-Task
						\$3,220.00
						Total this Task
						\$3,220.00

Task	04.00	Prepare Annual Report
Sub-Task	DE.00	Davids Engineering, Inc.

Professional Personnel

			Hours	Rate	Amount
	Principal Engineer				
Davids, Grant		3/30/2022	1.00	220.00	220.00
	Review annual report				
Davids, Grant		3/31/2022	.75	220.00	165.00
	Review draft annual report comments				
Davids, John		3/4/2022	.50	233.00	116.50
	CSUS contracting coordination				
Davids, John		3/10/2022	.50	233.00	116.50
	annual report ppt review				
Davids, John		3/11/2022	1.00	233.00	233.00
	annual report PPT review				
Davids, John		3/14/2022	1.00	233.00	233.00
	CSUS contracting				
Davids, John		3/18/2022	1.25	233.00	291.25
	annual report senior review				
	Associate Engineer I				
Klug, Katherine		3/1/2022	.25	175.00	43.75
	Annual Report coordination				
Klug, Katherine		3/7/2022	.50	175.00	87.50
	Colusa annual report preparation, coordination				
Klug, Katherine		3/16/2022	3.25	175.00	568.75
	Colusa annual report documentation updates				
Klug, Katherine		3/17/2022	2.50	175.00	437.50
	Colusa annual report documentation updates				
Klug, Katherine		3/18/2022	2.00	175.00	350.00
	Colusa annual report documentation updates				
Klug, Katherine		3/21/2022	4.25	175.00	743.75
	Colusa annual report documentation updates; distributing draft report				
Klug, Katherine		3/22/2022	1.50	175.00	262.50
	CGA presentation review; participating in CGA meeting (annual report discussion)				

Project	1178.04	Glenn GWA -Colusa GSP Annual Report 2022		Invoice	5122
Klug, Katherine		3/29/2022	.25	175.00	43.75
		preparing DWR SGMA portal uploads			
Klug, Katherine		3/30/2022	1.50	175.00	262.50
		reviewing and revising annual report, responding to comments			
Klug, Katherine		3/31/2022	6.50	175.00	1,137.50
		reviewing and revising annual report, responding to comments, preparing and uploading SGMA portal materials			
		Totals	28.50		5,312.75
		Total Labor			5,312.75
				Total this Sub-Task	\$5,312.75
				Total this Task	\$5,312.75
				Total this Project	\$42,728.50
				Total this Report	\$42,728.50

Project	277-80-22-12	Colusa GSP Annual Report 2022	Invoice	2048411
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Task	Task Description	Budget Amount	Current Invoice	Total Invoiced To Date	Budget Remaining
001	Annual Report	24,500.00	7,530.50	7,530.50	16,969.50
WYA	West Yost Tracking Only	0.00	0.00	0.00	0.00
TOTAL		24,500.00	7,530.50	7,530.50	16,969.50

Please direct questions to:

Project Manager Kenneth Loy
Principal Lindsay Smith *LS*

Project	277-80-22-12	Colusa GSP Annual Report 2022	Invoice	2048411
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Billing Backup

Friday, March 4, 2022

West Yost Associates, Inc.

Invoice 2048411 Dated 2/25/2022

4:00:38 PM

Task 001 Annual Report

Professional Personnel

		Hours	Rate	Amount	
Principal Eng/Scientist/Geologist II					
25 - Loy, Kenneth	2/9/2022	2.00	289.00	578.00	
Developed approach for generating groundwater level hydrographs.					
25 - Loy, Kenneth	2/11/2022	2.00	289.00	578.00	
Developed approach for change in storage estimates.					
Associate Eng/Scientist/Geologist I					
41 - Reimer, Anna	2/9/2022	2.00	209.00	418.00	
Annual Report hydrograph and storage calculation discussion.					
41 - Reimer, Anna	2/11/2022	2.00	209.00	418.00	
Annual Report hydrograph and storage calculation discussion.					
41 - Reimer, Anna	2/14/2022	5.50	209.00	1,149.50	
Annual report.					
41 - Reimer, Anna	2/15/2022	6.00	209.00	1,254.00	
Annual report.					
41 - Reimer, Anna	2/22/2022	4.00	209.00	836.00	
Annual report.					
41 - Reimer, Anna	2/24/2022	6.00	209.00	1,254.00	
Annual report.					
41 - Reimer, Anna	2/25/2022	5.00	209.00	1,045.00	
Annual report.					
Totals		34.50		7,530.50	
Total Labor					7,530.50
				Total this Task	\$7,530.50
				Total this Project	\$7,530.50
				Total this Report	\$7,530.50



Remit Payment To:
 PO Box 2158
 Davis, CA 95617

March 25, 2022

Invoice Number: 2048756

Mr. John Davids	Client Project:	Project# 1178.04
Principal	WY Project No:	277-80-22-12
Davids Engineering, Inc.	Contract Amount:	24,500.00
1772 Picasso Avenue., Suite A	Job Name:	Colusa GSP Annual Report 2022
Davis, CA 95618		

Professional Services from February 26, 2022 to March 25, 2022

Previously Billed :	7,530.50
Total This Period :	15,393.50
Total Amount Billed to Date including This Invoice :	22,924.00
Amount Remaining in Contract :	1,576.00

Task 001 Annual Report

Professional Personnel

	Hours	Rate	Amount
Principal Eng/Scientist/Geologist II	4.50	289.00	1,300.50
Associate Eng/Scientist/Geologist I	59.50	209.00	12,435.50
Engineer/Scientist/Geologist II	8.50	195.00	1,657.50
Totals	72.50		15,393.50
Total Labor			15,393.50
		Total this Task	\$15,393.50
		Total this Invoice	\$15,393.50

Description of Services:

Prepared draft 2022 Colusa Subbasin GSP Annual Report sections.

Outstanding Invoices

Number	Date	Balance
2048411	2/25/2022	7,530.50
Total		7,530.50

Project	277-80-22-12	Colusa GSP Annual Report 2022	Invoice	2048756
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Task	Task Description	Budget Amount	Current Invoice	Total Invoiced To Date	Budget Remaining
001	Annual Report	24,500.00	15,393.50	22,924.00	1,576.00
WYA	West Yost Tracking Only	0.00	0.00	0.00	0.00
TOTAL		24,500.00	15,393.50	22,924.00	1,576.00

Please direct questions to:

Project Manager Kenneth Loy
Principal Lindsay Smith *LS*

Billing Backup

Friday, April 1, 2022

West Yost Associates, Inc.

Invoice 2048756 Dated 3/25/2022

2:11:30 PM

Task 001 Annual Report

Professional Personnel

		Hours	Rate	Amount
Principal Eng/Scientist/Geologist II				
25 - Loy, Kenneth	3/11/2022	2.50	289.00	722.50
Prepared for and participated in Colusa Subbasin TAC meeting.				
25 - Loy, Kenneth	3/18/2022	2.00	289.00	578.00
Reviewed draft sections of annual report.				
Associate Eng/Scientist/Geologist I				
41 - Reimer, Anna	2/28/2022	2.00	209.00	418.00
Annual Report.				
41 - Reimer, Anna	3/1/2022	5.00	209.00	1,045.00
Annual Report.				
41 - Reimer, Anna	3/2/2022	3.00	209.00	627.00
Annual Report.				
41 - Reimer, Anna	3/3/2022	3.00	209.00	627.00
Annual Report.				
41 - Reimer, Anna	3/4/2022	3.00	209.00	627.00
Annual Report.				
41 - Reimer, Anna	3/7/2022	7.50	209.00	1,567.50
Work on annual report.				
41 - Reimer, Anna	3/8/2022	8.00	209.00	1,672.00
Work on annual report.				
41 - Reimer, Anna	3/9/2022	4.00	209.00	836.00
Work on annual report.				
41 - Reimer, Anna	3/10/2022	4.00	209.00	836.00
Work on annual report.				
41 - Reimer, Anna	3/11/2022	8.00	209.00	1,672.00
Work on annual report. Present at joint TAC meeting.				
41 - Reimer, Anna	3/14/2022	5.50	209.00	1,149.50
Work on annual report.				
41 - Reimer, Anna	3/15/2022	5.00	209.00	1,045.00
Work on annual report.				
41 - Reimer, Anna	3/16/2022	1.50	209.00	313.50
GGA Board meeting. Work on annual report.				
Engineer/Scientist/Geologist II				
50 - Kwok, Alice	3/11/2022	1.50	195.00	292.50
GWE 2021 update				
50 - Poncelet, Austin	3/11/2022	3.00	195.00	585.00
Annual report work for Anna on creating gwe contours and raster for spring 2021 and fall 2021.				
50 - Poncelet, Austin	3/17/2022	4.00	195.00	780.00

Project	277-80-22-12	Colusa GSP Annual Report 2022	Invoice	2048756
Computed new GWE rasters and GWE contours usinf non - enforce methodology. Re configured the contours generated from the raster. Exported final shapefiles for Anna review.				
	Totals	72.50	15,393.50	
	Total Labor			15,393.50
			Total this Task	\$15,393.50
			Total this Project	\$15,393.50
			Total this Report	\$15,393.50

Colusa Groundwater Authority, Proposition 1 and Proposition 68 SGWP
Agreement No. 46-00012655

Report #14; Invoice #14 (Prop. 1)
Report #8; Invoice #8 (Prop. 68)
Reporting Period: 01/01/2022-03/31/2022

Davids Engineering, Inc.
Invoice #1178.03-5125
Invoice total: \$18,339.00

BUDGET CATEGORY A: GRANT ADMINISTRATION

Invoice total – Proposition 1: \$0.00

Invoice total – Proposition 68: \$0.00

BUDGET CATEGORY B: STAKEHOLDER OUTREACH AND EDUCATION

Invoice total – Proposition 1: \$0.00

Invoice total – Proposition 68: \$0.00

BUDGET CATEGORY C: GSP DEVELOPMENT

Invoice total – Proposition 1: \$0.00

Invoice total – Proposition 68: \$17,418.00

Description of Work performed:

- Funding Mechanisms
 - Review GSP costs, develop PMA study costs summary, GIS data organization, Cost allocation approaches, PowerPoint materials and content, summarized Pop 218 costs for GSP implementation, develop cost allocation examples, meeting in Maxwell
- Hydrogeologic Investigation
 - Participated in Joint TAC meeting, prepared land subsidence section of hydrogeologic investigation work plan, assessed proposed AEM lines

BUDGET CATEGORY D: MONITORING AND ASSESSMENT

Invoice total – Proposition 68: \$921.00

Description of Work performed:

Colusa Groundwater Authority, Proposition 1 and Proposition 68 SGWP
Agreement No. 46-00012655

- Well Monitoring Pilot Program
 - Coordination of WMPP expansion equipment, review applicant information and addition Round 1 CGA sites to the list

Invoice

DAVIDS ENGINEERING, INC.
 Tax ID#68-0346173
 1772 Picasso Avenue, Suite A
 Davis, CA 95618-0550
 530/757-6107 - phone
 530/757-6118 - fax

Lisa Hunter
 Glenn Groundwater Authority
 225 N Tehama St.
 Willows, CA 95988

April 25, 2022
 Invoice No: 1178.03 - 5125

Project 1178.03 Glenn Groundwater Authority - Colusa Subbasin GSP Development
Professional Services from March 1, 2022 to March 31, 2022

Task	01.00	Project Management			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	44,198.50	44,198.50
Contract Amount					44,200.00
Remaining					1.50
Total this Task					0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	44,198.50	44,198.50
Totals	0.00	44,198.50	44,198.50

Task	02.00	Stakeholder Outreach and Coordination			
Sub-Task	CS.US	California State University, Sacramento			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	76,980.25	76,980.25
Contract Amount					76,980.25
Total this Sub-Task					0.00

Sub-Task	DE.00	Davids Engineering, Inc.			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	47,725.75	47,725.75
Contract Amount					71,176.00
Remaining					23,450.25
Total this Sub-Task					0.00

Total this Task 0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	47,725.75	47,725.75

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5125
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Consultant		0.00	76,980.25	76,980.25
Totals		0.00	124,706.00	124,706.00

Task	03.01	Data Collection and Analysis		
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Sub-Task	DE.00	Davids Engineering, Inc.		
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Contract Amount		Current	Prior	To-Date
Total Billings		0.00	3,558.75	3,558.75
Contract Amount				3,559.00
Remaining				.25
Total this Sub-Task				0.00

Sub-Task	WY.A0	West Yost Associates		
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Contract Amount		Current	Prior	To-Date
Total Billings		0.00	21,976.00	21,976.00
Contract Amount				21,976.00
Total this Sub-Task				0.00

Total this Task 0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	3,558.75	3,558.75
Consultant	0.00	21,976.00	21,976.00
Totals	0.00	25,534.75	25,534.75

Task	03.02	Integrated Hydrologic Modeling		
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Sub-Task	DE.00	Davids Engineering, Inc.		
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Contract Amount		Current	Prior	To-Date
Total Billings		0.00	111,913.00	111,913.00
Contract Amount				111,913.00
Total this Sub-Task				0.00

Total this Task 0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	111,913.00	111,913.00
Totals	0.00	111,913.00	111,913.00

Task	03.03	Monitoring Protocols		
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Sub-Task	DE.00	Davids Engineering, Inc.		
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Contract Amount		Current	Prior	To-Date
Total Billings		0.00	110.00	110.00
Contract Amount				110.00
Total this Sub-Task				0.00

Sub-Task	WY.A0	West Yost Associates		
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Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5125	
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	6,455.00	6,455.00
Contract Amount					6,455.00
Total this Sub-Task				0.00	
Total this Task				0.00	

Billings to Date

	Current	Prior	Total
Labor	0.00	110.00	110.00
Consultant	0.00	6,455.00	6,455.00
Totals	0.00	6,565.00	6,565.00

Task	03.04	Data and Reporting Standards	
Sub-Task	DE.00	Davids Engineering, Inc.	
Total this Sub-Task			0.00

Sub-Task	WY.A0	West Yost Associates			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	9,451.00	9,451.00
Contract Amount					9,451.00
Total this Sub-Task				0.00	
Total this Task				0.00	

Billings to Date

	Current	Prior	Total
Consultant	0.00	9,451.00	9,451.00
Totals	0.00	9,451.00	9,451.00

Task	03.05	Data Management System			
Sub-Task	DE.00	Davids Engineering, Inc.			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	4,580.25	4,580.25
Contract Amount					21,146.00
Remaining					16,565.75
Total this Sub-Task				0.00	

Sub-Task	WY.A0	West Yost Associates			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	4,999.00	4,999.00
Contract Amount					5,000.00
Remaining					1.00
Total this Sub-Task				0.00	
Total this Task				0.00	

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5125
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Billings to Date

	Current	Prior	Total
Labor	0.00	4,580.25	4,580.25
Consultant	0.00	4,999.00	4,999.00
Totals	0.00	9,579.25	9,579.25

 Task 03.06 GSP Administrative Information

Sub-Task DE.00 Davids Engineering, Inc.

Contract Amount	Current	Prior	To-Date
Total Billings	0.00	307.50	307.50
Contract Amount			307.00
Total this Sub-Task			0.00

 Sub-Task WY.A0 West Yost Associates

Contract Amount	Current	Prior	To-Date
Total Billings	0.00	21,949.00	21,949.00
Contract Amount			21,949.00
Total this Sub-Task			0.00
Total this Task			0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	307.50	307.50
Consultant	0.00	21,949.00	21,949.00
Totals	0.00	22,256.50	22,256.50

 Task 03.07 Basin Setting

Sub-Task DE.00 Davids Engineering, Inc.

Contract Amount	Current	Prior	To-Date
Total Billings	0.00	19,465.00	19,465.00
Contract Amount			19,468.00
Remaining			3.00
Total this Sub-Task			0.00

 Sub-Task ERA.A0 ERA Economics, LLC

Contract Amount	Current	Prior	To-Date
Total Billings	0.00	2,455.00	2,455.00
Contract Amount			2,455.00
Total this Sub-Task			0.00

 Sub-Task WY.A0 West Yost Associates

Contract Amount	Current	Prior	To-Date
Total Billings	0.00	22,988.00	22,988.00
Contract Amount			23,017.00
Remaining			29.00

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5125
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Total this Sub-Task **0.00**

Total this Task **0.00**

Billings to Date

	Current	Prior	Total
Labor	0.00	19,465.00	19,465.00
Consultant	0.00	25,443.00	25,443.00
Totals	0.00	44,908.00	44,908.00

Task 03.08 Sustainable Management Criteria

Sub-Task DE.00 Davids Engineering, Inc.

Contract Amount	Current	Prior	To-Date
Total Billings	0.00	52,647.20	52,647.20
Contract Amount			52,654.00
Remaining			6.80

Total this Sub-Task **0.00**

Sub-Task ER.A0 ERA Economics, LLC

Contract Amount	Current	Prior	To-Date
Total Billings	0.00	11,221.00	11,221.00
Contract Amount			11,221.00

Total this Sub-Task **0.00**

Sub-Task WC.00 Woodard and Curran, Inc.

Contract Amount	Current	Prior	To-Date
Total Billings	0.00	154,669.25	154,669.25
Contract Amount			154,669.25

Total this Sub-Task **0.00**

Sub-Task WY.A0 West Yost Associates

Contract Amount	Current	Prior	To-Date
Total Billings	0.00	61,270.50	61,270.50
Contract Amount			61,318.00
Remaining			47.50

Total this Sub-Task **0.00**

Total this Task **0.00**

Billings to Date

	Current	Prior	Total
Labor	0.00	52,647.20	52,647.20
Consultant	0.00	227,161.00	227,161.00
Add-on	0.00	-.25	-.25
Totals	0.00	279,807.95	279,807.95

Task 03.09 Monitoring Network

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5125
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Sub-Task	DE.00	Davids Engineering, Inc.			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	4,590.00	4,590.00
Contract Amount					4,590.00
Total this Sub-Task					0.00

Sub-Task	WY.A0	West Yost Associates			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	72,878.00	72,878.00
Contract Amount					72,908.00
Remaining					30.00
Total this Sub-Task					0.00
Total this Task					0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	4,590.00	4,590.00
Consultant	0.00	72,878.00	72,878.00
Totals	0.00	77,468.00	77,468.00

Task	03.10	Projects and Management Actions			
Sub-Task	DE.00	Davids Engineering, Inc.			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	92,347.75	92,347.75
Contract Amount					92,836.00
Remaining					488.25
Total this Sub-Task					0.00

Sub-Task	ER.A0	ERA Economics, LLC			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	48,363.75	48,363.75
Contract Amount					48,363.75
Total this Sub-Task					0.00

Sub-Task	WY.A0	West Yost Associates			
Contract Amount			Current	Prior	To-Date
Total Billings			0.00	7,493.50	7,493.50
Contract Amount					7,500.00
Remaining					6.50
Total this Sub-Task					0.00
Total this Task					0.00

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5125
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Billings to Date

	Current	Prior	Total
Labor	0.00	92,350.75	92,350.75
Consultant	0.00	55,857.25	55,857.25
Add-on	0.00	-3.00	-3.00
Totals	0.00	148,205.00	148,205.00

 Task 03.11 GSP Document Preparation and Adoption

Sub-Task DE.00 Davids Engineering, Inc.

Contract Amount	Current	Prior	To-Date	
Total Billings	0.00	39,549.00	39,549.00	
Contract Amount			39,549.00	
Total this Sub-Task				0.00

 Sub-Task WY.A0 West Yost Associates

Contract Amount	Current	Prior	To-Date	
Total Billings	0.00	65,202.37	65,202.37	
Contract Amount			65,278.00	
Remaining			75.63	
Total this Sub-Task				0.00

Total this Task 0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	39,549.00	39,549.00
Consultant	0.00	65,202.37	65,202.37
Totals	0.00	104,751.37	104,751.37

 Task 04.00 Funding Mechanisms

Sub-Task DE.00 Davids Engineering, Inc.

Contract Amount	Current	Prior	To-Date	
Total Billings	0.00	9,680.00	9,680.00	
Contract Amount			9,680.00	
Total this Sub-Task				0.00

 Sub-Task ERA.A0 ERA Economics, LLC

Consultants

ERA Economics, LLC				
3/31/2022	ERA Economics, LLC	Professional Services form March 1 to March 31, 2022 - see attached	8,101.25	
Total Consultants			1.0 times	8,101.25

Contract Amount	Current	Prior	To-Date	
Total Billings	8,101.25	36,678.75	44,780.00	
Contract Amount			44,780.00	

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5125
			Total this Sub-Task	\$8,101.25
			Total this Task	\$8,101.25

Billings to Date

	Current	Prior	Total
Labor	0.00	9,680.00	9,680.00
Consultant	8,101.25	36,678.75	44,780.00
Totals	8,101.25	46,358.75	54,460.00

Task	05.00	Hydrogeologic Investigation
Sub-Task	DE.00	Davids Engineering, Inc.

Professional Personnel

	Hours	Rate	Amount
Principal Engineer			
Davids, Grant	10.50	220.00	2,310.00
Associate Engineer I			
Klug, Katherine	27.25	175.00	4,768.75
Associate Project Assistant			
Clark, Cynthia	.75	94.00	70.50
Totals	38.50		7,149.25
Total Labor			7,149.25

Contract Amount	Current	Prior	To-Date
Total Billings	7,149.25	35,846.25	42,995.50
Contract Amount			65,099.00
Remaining			22,103.50
Total this Sub-Task			\$7,149.25

Sub-Task	WY.A0	West Yost Associates
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Consultants

West Yost Associates, Inc.			
3/31/2022	West Yost Associates, Inc.	Professional Services from February 26 to March 25, 2022 - see attached	2,167.50
Total Consultants		1.0 times	2,167.50

Contract Amount	Current	Prior	To-Date
Total Billings	2,167.50	69,236.00	71,403.50
Contract Amount			75,759.75
Remaining			4,356.25
Total this Sub-Task			\$2,167.50

Total this Task **\$9,316.75**

Billings to Date

	Current	Prior	Total
Labor	7,149.25	35,846.25	42,995.50
Consultant	2,167.50	69,236.00	71,403.50
Totals	9,316.75	105,082.25	114,399.00

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5125
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Task	06.00	GDE Evaluation		
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Sub-Task	DE.00	Davids Engineering, Inc.		
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Contract Amount		Current	Prior	To-Date
Total Billings		0.00	15,532.50	15,532.50
Contract Amount				20,532.00
Remaining				4,999.50
Total this Sub-Task				0.00

Sub-Task	WY.A0	West Yost Associates		
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Contract Amount		Current	Prior	To-Date
Total Billings		0.00	0.00	0.00
Contract Amount				5,000.00
Remaining				5,000.00
Total this Sub-Task				0.00

Total this Task 0.00

Billings to Date

	Current	Prior	Total
Labor	0.00	15,532.50	15,532.50
Totals	0.00	15,532.50	15,532.50

Task	07.00	Well Monitoring Pilot Program		
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Sub-Task	DE.00	Davids Engineering, Inc.		
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Professional Personnel

	Hours	Rate	Amount
Senior Project Assistant Davids, Kristi	2.00	105.00	210.00
Associate Engineer II Alexander, Nadya	1.00	186.00	186.00
Associate Engineer I Klug, Katherine	3.00	175.00	525.00
Totals	6.00		921.00
Total Labor			921.00

Contract Amount	Current	Prior	To-Date
Total Billings	921.00	62,953.26	63,874.26
Contract Amount			66,100.00
Remaining			2,225.74

Total this Sub-Task \$921.00

Total this Task \$921.00

Billings to Date

	Current	Prior	Total
Labor	921.00	32,998.75	33,919.75
Add-on	0.00	29,954.51	29,954.51
Totals	921.00	62,953.26	63,874.26

Project 1178.03 Glenn GWA - Colusa Subbasin GSP Develop. Invoice 5125

Billing Backup

Monday, April 25, 2022

Davids Engineering, Inc.

Invoice 5125 Dated 4/25/2022

2:04:02 PM

Project 1178.03 Glenn Groundwater Authority - Colusa Subbasin GSP Development

Task 04.00 Funding Mechanisms

Sub-Task ER.A0 ERA Economics, LLC

Consultants

ERA Economics, LLC

AP 8746	3/31/2022	ERA Economics, LLC / Professional Services form March 1 to March 31, 2022 - see attached	8,101.25
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Total Consultants	1.0 times	8,101.25	8,101.25
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Total this Sub-Task	\$8,101.25
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Total this Task	\$8,101.25
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Task 05.00 Hydrogeologic Investigation

Sub-Task DE.00 Davids Engineering, Inc.

Professional Personnel

		Hours	Rate	Amount
Principal Engineer				
Davids, Grant	3/10/2022	1.50	220.00	330.00
	3/11/2022 Joint TAC PPT review			
Davids, Grant	3/11/2022	4.00	220.00	880.00
	Prepare for and participate in Joint TAC meeting			
Davids, Grant	3/15/2022	1.00	220.00	220.00
	Review 3/16 PPT presentation			
Davids, Grant	3/16/2022	1.50	220.00	330.00
	Prepare for and participate in GGA Board meeting			
Davids, Grant	3/22/2022	1.25	220.00	275.00
	Prepare for and participate in CGA Board meeting			
Davids, Grant	3/24/2022	1.25	220.00	275.00
	Work coordination call with L Hunter and D Carter			
Associate Engineer I				
Klug, Katherine	3/2/2022	1.25	175.00	218.75
	Colusa monitoring network uploads coordination; locating and sharing funding/financing presentation template			
Klug, Katherine	3/3/2022	.75	175.00	131.25
	Colusa Joint Board meeting coordination, planning, identifying and sharing shapefiles for funding/financing presentation			
Klug, Katherine	3/7/2022	1.00	175.00	175.00
	Colusa funding/financing ppt review, providing supporting shapefiles			
Klug, Katherine	3/8/2022	.25	175.00	43.75
	Colusa funding/financing ppt review			
Klug, Katherine	3/10/2022	1.00	175.00	175.00
	participating in funding/financing plan presentation			
Klug, Katherine	3/11/2022	2.25	175.00	393.75
	participating in Joint TAC meeting (general content); general coordination regarding Joint TAC meeting facilitation			

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5125
Klug, Katherine	3/14/2022	3.25	175.00	568.75
meeting with G. Davids to discuss remaining Colusa SGMA project work; follow-up and coordinating next-steps with others; reviewing GGA Board meeting ppt				
Klug, Katherine	3/15/2022	.50	175.00	87.50
reviewing and preparing for GGA Board meeting presentation; discussing Colusa coordination budget/tasks with J. Davids				
Klug, Katherine	3/16/2022	2.25	175.00	393.75
reviewing and preparing for GGA Board meeting presentation; preparing summary of CGA GSA areas				
Klug, Katherine	3/17/2022	2.50	175.00	437.50
Colusa education and HGI discussion coordination				
Klug, Katherine	3/18/2022	2.75	175.00	481.25
preparing for and participating in Colusa SGMA work coordination meeting with G. Davids, L. Hunter, and D. Carter				
Klug, Katherine	3/21/2022	1.75	175.00	306.25
Colusa monitoring network coordination with K. Loy and G. Davids (HGI, new subsidence benchmarks)				
Klug, Katherine	3/22/2022	1.00	175.00	175.00
participating in CGA meeting discussions (general info)				
Klug, Katherine	3/23/2022	1.00	175.00	175.00
preparing draft agenda for Colusa coordination meeting, general project coordination				
Klug, Katherine	3/24/2022	2.50	175.00	437.50
updating draft agenda for Colusa coordination meeting, participating in Colusa coordination call and follow-up regarding sinkholes				
Klug, Katherine	3/25/2022	2.00	175.00	350.00
follow-up regarding Colusa coordination call and sinkholes				
Klug, Katherine	3/28/2022	.75	175.00	131.25
follow-up regarding Colusa coordination call and sinkholes, reviewing comments				
Klug, Katherine	3/30/2022	.50	175.00	87.50
follow-up regarding Colusa sinkholes discussion				
Associate Project Assistant				
Clark, Cynthia	3/3/2022	.25	94.00	23.50
Project support/Accounting				
Clark, Cynthia	3/9/2022	.25	94.00	23.50
Project support/Accounting				
Clark, Cynthia	3/22/2022	.25	94.00	23.50
Project support/Accounting				
Totals		38.50		7,149.25
Total Labor				7,149.25
Total this Sub-Task				\$7,149.25

Sub-Task	WY.A0	West Yost Associates		
Consultants				
West Yost Associates, Inc.				
AP 8723	3/31/2022	West Yost Associates, Inc. / Professional Services from February 26 to March 25, 2022 - see attached		2,167.50
Total Consultants		1.0 times	2,167.50	2,167.50

Project	1178.03	Glenn GWA - Colusa Subbasin GSP Develop.	Invoice	5125	
			Total this Sub-Task	\$2,167.50	
			Total this Task	\$9,316.75	

Task	07.00	Well Monitoring Pilot Program			
Sub-Task	DE.00	Dauids Engineering, Inc.			
Professional Personnel					
			Hours	Rate	Amount
Senior Project Assistant					
Dauids, Kristi	3/3/2022	contracting issues discussion, project support	1.00	105.00	105.00
Dauids, Kristi	3/4/2022	contract support	.25	105.00	26.25
Dauids, Kristi	3/23/2022	Project support, accounting	.25	105.00	26.25
Dauids, Kristi	3/24/2022	project support	.25	105.00	26.25
Dauids, Kristi	3/25/2022	project support	.25	105.00	26.25
Associate Engineer II					
Alexander, Nadya	3/9/2022	Coordination with Ranch Systems on pilot project expansion.	1.00	186.00	186.00
Associate Engineer I					
Klug, Katherine	3/9/2022	coordinating WMPP expansion equipment with N. Alexander	.50	175.00	87.50
Klug, Katherine	3/15/2022	reviewing WMPP applicant information and adding Round 1 CGA sites to the list	1.00	175.00	175.00
Klug, Katherine	3/17/2022	Colusa WMPP expansion coordination	.50	175.00	87.50
Klug, Katherine	3/23/2022	preparing WMPP purchase order for Ranch Systems; coordinating WMPP expansion	.50	175.00	87.50
Klug, Katherine	3/24/2022	preparing WMPP purchase order for Ranch Systems; coordinating WMPP expansion	.25	175.00	43.75
Klug, Katherine	3/25/2022	coordinating WMPP expansion	.25	175.00	43.75
	Totals		6.00		921.00
	Total Labor				921.00
			Total this Sub-Task		\$921.00
			Total this Task		\$921.00
			Total this Project		\$18,339.00
			Total this Report		\$18,339.00

INVOICE

From **ERA Economics, LLC**
 1111 Kennedy Place, Suite 4
 Davis, CA 95616
 530.341.3374

Invoice ID **DE20f.14**
 Issue Date **04/05/2022**
 Due Date **05/05/2022 (Net 30)**
 Subject **Colusa Subbasin GSP**

Invoice For **Davids Engineering**
 1772 Picasso Avenue, Suite A
 Davis CA 95618

Description	Quantity	Unit Price	Amount
[DE20f] Colusa Subbasin GSP - 03/01/2022 - Task 4: Funding Mechanisms Review / Duncan MacEwan: Meeting with Eugene; meeting with Brooks; review GSP costs and develop PMA study costs summary; presentation materials	2.75	\$185.00	\$508.75
[DE20f] Colusa Subbasin GSP - 03/01/2022 - Task 4: Funding Mechanisms Review / Eugene Binunsky: Created list of rate studies to summarize for Colusa presentation.	2.50	\$100.00	\$250.00
[DE20f] Colusa Subbasin GSP - 03/01/2022 - Task 4: Funding Mechanisms Review / Brooks Ronspies: - GIS Data organization - Data merge with Admin costs	4.00	\$135.00	\$540.00
[DE20f] Colusa Subbasin GSP - 03/02/2022 - Task 4: Funding Mechanisms Review / Duncan MacEwan: Brooks re: GIS data; GSP cost data summary; cost allocation approaches; ppt materials and content; misc coordination	2.00	\$185.00	\$370.00
[DE20f] Colusa Subbasin GSP - 03/02/2022 - Task 4: Funding Mechanisms Review / Brooks Ronspies: - Edits to GIS work - New cost tables	2.00	\$135.00	\$270.00
[DE20f] Colusa Subbasin GSP - 03/03/2022 - Task 4: Funding Mechanisms Review / Eugene Binunsky: Added to list of rate studies for Colusa presentation. Summarized Prop 218 costs for GSP implementation.	1.00	\$100.00	\$100.00
[DE20f] Colusa Subbasin GSP - 03/03/2022 - Task 4: Funding Mechanisms Review / Duncan MacEwan: ppt; cost allocation approaches; work with brooks on options, review, edit, analysis; call with steve; review GSP costs; review other GSAs	4.00	\$185.00	\$740.00
[DE20f] Colusa Subbasin GSP - 03/03/2022 - Task 4: Funding Mechanisms Review / Brooks Ronspies: - Cost allocations workbook	3.00	\$135.00	\$405.00
[DE20f] Colusa Subbasin GSP - 03/03/2022 - Task 4: Funding Mechanisms Review / Stephen Hatchett: Board presentation	2.00	\$225.00	\$450.00
[DE20f] Colusa Subbasin GSP - 03/04/2022 - Task 4: Funding Mechanisms Review / Stephen Hatchett: Board presentation	2.00	\$225.00	\$450.00

[DE20f] Colusa Subbasin GSP - 03/04/2022 - Task 4: Funding Mechanisms Review / Duncan MacEwan: Prep powerpoint; review with Steve; develop/refine cost allocation examples; coordinate with brooks for anlyiss	3.00	\$185.00	\$555.00
[DE20f] Colusa Subbasin GSP - 03/04/2022 - Task 4: Funding Mechanisms Review / Eugene Binunsky: Created table with Prop 218 assessments for various GSP's in different development stages.	0.50	\$100.00	\$50.00
[DE20f] Colusa Subbasin GSP - 03/07/2022 - Task 4: Funding Mechanisms Review / Brooks Ronspies: - Cost allocation presentation work - Pairing to new spatial data - Making maps	3.50	\$135.00	\$472.50
[DE20f] Colusa Subbasin GSP - 03/07/2022 - Task 4: Funding Mechanisms Review / Duncan MacEwan: Develop ppt presentation; review internally; work with brooks to develop and refine cost allocation approaches and figures; respond to DE comments	3.00	\$185.00	\$555.00
[DE20f] Colusa Subbasin GSP - 03/07/2022 - Task 4: Funding Mechanisms Review / Stephen Hatchett: Review slides	1.00	\$225.00	\$225.00
[DE20f] Colusa Subbasin GSP - 03/08/2022 - Task 4: Funding Mechanisms Review / Stephen Hatchett: Review/edit slides	2.00	\$225.00	\$450.00
[DE20f] Colusa Subbasin GSP - 03/08/2022 - Task 4: Funding Mechanisms Review / Duncan MacEwan: review/edit slides; send to client	1.50	\$185.00	\$277.50
[DE20f] Colusa Subbasin GSP - 03/10/2022 - Task 4: Funding Mechanisms Review / Brooks Ronspies: - Figure revise - KML files	1.50	\$135.00	\$202.50
[DE20f] Colusa Subbasin GSP - 03/10/2022 - Task 4: Funding Mechanisms Review / Stephen Hatchett: Review presentation; meeting in Maxwell	3.00	\$225.00	\$675.00
[DE20f] Colusa Subbasin GSP - 03/10/2022 - Task 4: Funding Mechanisms Review / Duncan MacEwan: Presentation and associated nonsense	3.00	\$185.00	\$555.00
		Amount Due	\$8,101.25

Notes

Colusa Subbasin Groundwater Sustainability Plan
 Davids Engineering PROJECT NUMBER: 1178.03

ERA work performed 3/1/22 - 3/31/22.

Budget Summary:

Task 4: Funding Mechanisms Review
 This invoice: \$8,101.25



Remit Payment To:
 PO Box 2158
 Davis, CA 95617

March 25, 2022
 Invoice Number: 2048755

Mr. Grant Davids	Client Project:	Project No. 1178.03
Davids Engineering, Inc.	WY Project No:	277-60-20-11
1772 Picasso Avenue., Suite A	Contract Amount:	375,611.75
Davis, CA 95618	Job Name:	Colusa Subbasin GSP Preparation

Professional Services from February 26, 2022 to March 25, 2022

Previously Billed :	363,898.37
Total This Period :	2,167.50
Total Amount Billed to Date including This Invoice :	366,065.87
Amount Remaining in Contract :	9,545.88

Task 011 Hydrogeologic Investigation

Professional Personnel

	Hours	Rate	Amount
Principal Eng/Scientist/Geologist II	7.50	289.00	2,167.50
Totals	7.50		2,167.50
Total Labor			2,167.50
		Total this Task	\$2,167.50
		Total this Invoice	\$2,167.50

Project	277-60-20-11	Colusa Subbasin GSP Preparation	Invoice	2048755
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Description of Services:

Task 1. No activity.

Task 2. No activity.

Task 3. No activity.

Task 4. No activity.

Task 5. No activity.

Task 6. No activity.

Task 7. No activity.

Task 8. No activity.

Task 9. No activity.

Task 10. No activity.

Task 11. Participated in March 11, 2022 Joint TAC meeting. Prepared land subsidence section of hydrogeologic investigation work plan. Assessed proposed AEM lines.

Task 12. No activity.

Project	277-60-20-11	Colusa Subbasin GSP Preparation	Invoice	2048755
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Task	Task Description	Budget Amount	Current Invoice	Total Invoiced To Date	Budget Remaining
001	Data Collection and Analysis	21,976.00	0.00	21,976.00	0.00
002	Monitoring Protocols	6,455.00	0.00	6,455.00	0.00
003	Data and Reporting Standards	9,451.00	0.00	9,451.00	0.00
004	Data Management System	5,000.00	0.00	4,999.00	1.00
005	GSP Administrative Information	21,949.00	0.00	21,949.00	0.00
006	Basin Setting	23,017.00	0.00	22,988.00	29.00
007	Sustainable Management Criteria	61,318.00	0.00	61,270.50	47.50
008	Monitoring Network	72,908.00	0.00	72,878.00	30.00
009	Projects and Management Actions	7,500.00	0.00	7,493.50	6.50
010	GSP Document Preparation and Adoption	65,278.00	0.00	65,202.37	75.63
011	Hydrogeologic Investigation	75,759.75	2,167.50	71,403.50	4,356.25
012	GDE Evaluation	5,000.00	0.00	0.00	5,000.00
WYA	West Yost Tracking Only	0.00	0.00	0.00	0.00
TOTAL		375,611.75	2,167.50	366,065.87	9,545.88

Please direct questions to:

Project Manager Kenneth Loy
Principal Lindsay Smith *LS*

Project	277-60-20-11	Colusa Subbasin GSP Preparation	Invoice	2048755
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Billing Backup

Friday, April 1, 2022

West Yost Associates, Inc.

Invoice 2048755 Dated 3/25/2022

2:11:19 PM

Task 011 Hydrogeologic Investigation

Professional Personnel

			Hours	Rate	Amount
Principal Eng/Scientist/Geologist II					
25 - Loy, Kenneth	3/11/2022		2.50	289.00	722.50
Prepared for and participated in Colusa Subbasin TAC meeting.					
25 - Loy, Kenneth	3/21/2022		2.00	289.00	578.00
Developed HG Investigation Work Plan.					
25 - Loy, Kenneth	3/24/2022		2.00	289.00	578.00
Participated in call with CGA and GGA staff. Developed plan for installing land subsidence benchmarks.					
25 - Loy, Kenneth	3/25/2022		1.00	289.00	289.00
Assessed AEM lines.					
Totals			7.50		2,167.50
Total Labor					2,167.50
Total this Task					\$2,167.50
Total this Project					\$2,167.50
Total this Report					\$2,167.50