

# Glenn Groundwater Authority

## Groundwater Sustainability Agency

225 N. Tehama Street, Willows, CA 95988 | 530.934.6540

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### Meeting of the Glenn Groundwater Authority Board of Directors

March 12, 2024 | 1:30 PM

225 North Tehama Street, Willows, CA 95988

Remote Public Participation Option:

Microsoft Teams meeting

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#### 1. CALL TO ORDER

The Chairperson will call the meeting to order and lead the [flag salute](#).

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#### 2. ROLL CALL

Roll call will be conducted.

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#### 3. APPROVAL OF MINUTES

- a. \*Approve the meeting minutes from February 12, 2024.

Draft meeting minutes from the February 12, 2024 are being prepared and will be distributed under separate cover.

#### Attachments

- February 12, 2024 GGA Board meeting minutes (will be distributed under separate cover)

#### **4. 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.

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#### **5. STAFF UPDATES**

The program manager will provide brief status updates. Reminders and/or clarifications may also be made at this time.

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#### **6. FINANCIAL REPORT**

- a. \*Review and accept Monthly Activities Report.
- b. \*Review and consider approval of claims.

The Balance Sheets, Budget to Actuals, Transaction Listings, and Claims Summary are attached.

##### **Attachments**

- Draft Balance Sheet (January 2024)
- Draft Budget to Actuals (January 2024)
- Draft Transaction Listing (January 2024)
- Draft Balance Sheet (February 2024)
- Draft Budget to Actuals (February 2024)
- Draft Transaction Listing (February 2024)
- Claims Summary

**COUNTY OF GLENN**  
**General Ledger Summary**  
**Balance Sheet Accounts**  
**For the Period Ending:**  
**Jan 31, 2024**

**Organization Key: 04796000 - GLENN GROUNDWATER AUTHORITY**

Object Type	Object Group Description	Object Code	Balance
<b>ASSETS</b>			
	<b>CURRENT ASSETS</b>		
		00100 - CASH IN TREASURY	1,647,817.46
	<b>CURRENT ASSETS - Summary</b>		<b>\$1,647,817.46</b>
<b>AS - Summary</b>			<b>\$1,647,817.46</b>
<b>FUND EQUITY</b>			
	<b>FUND EQUITY</b>		
		00974 - UNRESERVED RETAINED EARNINGS	1,228,014.19
	<b>FUND EQUITY - Summary</b>		<b>\$1,228,014.19</b>
	<b>BUDGETARY ACCOUNTS</b>		
		00997 - ESTIMATED REVENUES	(588,321.00)
		00999 - APPROPRIATIONS	781,025.00
	<b>BUDGETARY ACCOUNTS - Summary</b>		<b>\$192,704.00</b>
<b>FB - Summary</b>			<b>\$1,420,718.19</b>

**COUNTY OF GLENN**  
**General Ledger Summary**  
**Budget to Actuals**  
**For the period Ending:**  
**Jan 31, 2024**

Organization Key	Object Type	Object Group Description	Object Code	Current Year Budget	Current Year Actuals	Remaining Budget	% of Budget Used
<b>04796000 - GLENN GROUNDWATER AUTHORITY</b>							
<b>REVENUES</b>							
<b>FINES, FORFEITURES &amp; PENALTIES</b>							
			37320 PENALTIES/COST DELQ TAXES	0.00	269.45	(269.45)	0.00%
<b>FINES, FORFEITURES &amp; PENALTIES - Summary</b>				<b>\$0.00</b>	<b>\$269.45</b>	<b>(\$269.45)</b>	<b>/0</b>
<b>USE OF MONEY &amp; PROPERTY</b>							
			44300 INTEREST	5,000.00	17,685.51	(12,685.51)	353.71%
<b>USE OF MONEY &amp; PROPERTY - Summary</b>				<b>\$5,000.00</b>	<b>\$17,685.51</b>	<b>(\$12,685.51)</b>	<b>353.71%</b>
<b>INTERGOVERNMENTAL REVENUE</b>							
			56200 OTHER GOVT AGENCIES	0.00	0.00	0.00	0.00%
<b>INTERGOVERNMENTAL REVENUE - Summary</b>				<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>/0</b>
<b>CHARGES FOR CURRENT SERVICES</b>							
			61152 SPECIAL ASSESSMENT	575,372.00	288,810.71	286,561.29	50.20%
<b>CHARGES FOR CURRENT SERVICES - Summary</b>				<b>\$575,372.00</b>	<b>\$288,810.71</b>	<b>\$286,561.29</b>	<b>50.20%</b>
<b>MISCELLANEOUS REVENUES</b>							
			74121 A-87 COST ALLOC REBATE	7,949.00	4,636.94	3,312.06	58.33%
<b>MISCELLANEOUS REVENUES - Summary</b>				<b>\$7,949.00</b>	<b>\$4,636.94</b>	<b>\$3,312.06</b>	<b>58.33%</b>
<b>RV - Summary</b>				<b>\$588,321.00</b>	<b>\$311,402.61</b>	<b>\$276,918.39</b>	<b>52.93%</b>
<b>EXPENDITURES</b>							
<b>SERVICES &amp; SUPPLIES</b>							
			03150 INSURANCE	2,000.00	1,734.00	266.00	86.70%
			03220 OFFICE EXPENSE	2,000.00	0.00	2,000.00	0.00%
			03230 PROFESSIONAL SERVICES	678,125.00	77,819.73	600,305.27	11.48%

**COUNTY OF GLENN**  
**General Ledger Summary**  
**Budget to Actuals**  
**For the period Ending:**  
**Jan 31, 2024**

Organization Key	Object Type	Object Group Description	Object Code	Current Year Budget	Current Year Actuals	Remaining Budget	% of Budget Used
			03280 SPECIAL DEPT EXPENSE	26,000.00	2,832.20	23,167.80	10.89%
		<b>SERVICES &amp; SUPPLIES - Summary</b>		<b>\$708,125.00</b>	<b>\$82,385.93</b>	<b>\$625,739.07</b>	<b>11.63%</b>
		<b>OTHER CHARGES</b>					
			05700 ADMINISTRATIVE EXPENSE	7,500.00	1,917.41	5,582.59	25.57%
			05730 A-87 COST ALLOCATION	0.00	0.00	0.00	0.00%
		<b>OTHER CHARGES - Summary</b>		<b>\$7,500.00</b>	<b>\$1,917.41</b>	<b>\$5,582.59</b>	<b>25.57%</b>
		<b>CONTINGENCY</b>					
			09900 CONTINGENCY	65,400.00	0.00	65,400.00	0.00%
		<b>CONTINGENCY - Summary</b>		<b>\$65,400.00</b>	<b>\$0.00</b>	<b>\$65,400.00</b>	<b>0.00%</b>
	<b>XP - Summary</b>			<b>\$781,025.00</b>	<b>\$84,303.34</b>	<b>\$696,721.66</b>	<b>10.79%</b>
<b>Net Return/ (Cost)</b>				<b>(\$192,704.00)</b>	<b>\$227,099.27</b>	<b>(\$419,803.27)</b>	<b>10.79%</b>

SORT ORDER: SUB-SUB within ORG KEY

SELECT ORGANIZATION KEY: 04796000

Lg UNIQUE ACCOUNT	Primary Ref	Transaction Description	SS Ref Date	Job No	Debit	Credit	NET
GL 04796000-00100	JE242314	AutoID: JE004294 Job: 2452903	JE 01/01/24	02452903	662.42	0.00	662.42
GL 04796000-00100	JE242010	AutoID: JE004263 Job: 2432685	JE 01/12/24	02432685	285,297.84	0.00	285,960.26
GL 04796000-00100	TTLOH	AutoID:Total Job:2434903	OH 01/19/24	02434903	0.00	6,293.58	279,666.68
*****Total *SUBS 00100		CASH IN TREASURY		DR	285,960.26	6,293.58	279,666.68
GL 04796000-00670	TTLOH	AutoID:OH011508 Job:2434894	OH 01/19/24	02434894	0.00	6,293.58	6,293.58
GL 04796000-00670	TTLOH	AutoID:Total Job:2434903	OH 01/19/24	02434903	6,293.58	0.00	0.00
*****Total *SUBS 00670		CHECKS PAYABLE		CR	6,293.58	6,293.58	0.00
GL 04796000-03230	536503 GGA	GEOSYNTEC CONSU A#SF0145 Geosy	OH 01/19/24	02434894	6,293.58	0.00	6,293.58
*****Total *SUBS 03230		PROFESSIONAL SERVICES		DR	6,293.58	0.00	6,293.58
GL 04796000-05700	JE242010	CY SECURED APPN 12/29/23	JE 01/12/24	02432685	1,917.41	0.00	1,917.41
*****Total *SUBS 05700		ADMINISTRATIVE EXPENSE		DR	1,917.41	0.00	1,917.41
GL 04796000-61152	JE242010	CY SECURED APPN 12/29/23	JE 01/12/24	02432685	0.00	287,215.25	287,215.25
*****Total *SUBS 61152		SPECIAL ASSESSMENT		CR	0.00	287,215.25	287,215.25
GL 04796000-74121	JE242314	01/2024 A-87 COST ALLOC	JE 01/01/24	02452903	0.00	662.42	662.42
*****Total *SUBS 74121		A-87 COST ALLOC REBATE		CR	0.00	662.42	662.42
*****Total *KEY 04796000		GLENN GROUNDWATER AUTHORITY		DR-CR	300,464.83	300,464.83	0.00
		** G R A N D T O T A L **		DR-CR	300,464.83	300,464.83	0.00

**COUNTY OF GLENN  
General Ledger Summary  
Balance Sheet Accounts  
For the Period Ending:  
Feb 29, 2024**

Organization Key: 04796000 - GLENN GROUNDWATER AUTHORITY

Object Type	Object Group Description	Object Code	Balance
<b>ASSETS</b>			
	<b>CURRENT ASSETS</b>		
		00100 - CASH IN TREASURY	1,635,699.66
	<b>CURRENT ASSETS - Summary</b>		<b>\$1,635,699.66</b>
<b>AS - Summary</b>			<b>\$1,635,699.66</b>
<b>FUND EQUITY</b>			
	<b>FUND EQUITY</b>		
		00974 - UNRESERVED RETAINED EARNINGS	1,228,014.19
	<b>FUND EQUITY - Summary</b>		<b>\$1,228,014.19</b>
	<b>BUDGETARY ACCOUNTS</b>		
		00997 - ESTIMATED REVENUES	(588,321.00)
		00999 - APPROPRIATIONS	781,025.00
	<b>BUDGETARY ACCOUNTS - Summary</b>		<b>\$192,704.00</b>
<b>FB - Summary</b>			<b>\$1,420,718.19</b>

**COUNTY OF GLENN**  
**General Ledger Summary**  
**Budget to Actuals**  
**For the period Ending:**  
**Feb 29, 2024**

Organization Key	Object Type	Object Group Description	Object Code	Current Year Budget	Current Year Actuals	Remaining Budget	% of Budget Used
<b>04796000 - GLENN GROUNDWATER AUTHORITY</b>							
<b>REVENUES</b>							
<b>FINES, FORFEITURES &amp; PENALTIES</b>							
			37320 PENALTIES/COST DELQ TAXES	0.00	269.45	(269.45)	0.00%
<b>FINES, FORFEITURES &amp; PENALTIES - Summary</b>				<b>\$0.00</b>	<b>\$269.45</b>	<b>(\$269.45)</b>	<b>/0</b>
<b>USE OF MONEY &amp; PROPERTY</b>							
			44300 INTEREST	5,000.00	17,685.51	(12,685.51)	353.71%
<b>USE OF MONEY &amp; PROPERTY - Summary</b>				<b>\$5,000.00</b>	<b>\$17,685.51</b>	<b>(\$12,685.51)</b>	<b>353.71%</b>
<b>INTERGOVERNMENTAL REVENUE</b>							
			56200 OTHER GOVT AGENCIES	0.00	0.00	0.00	0.00%
<b>INTERGOVERNMENTAL REVENUE - Summary</b>				<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>/0</b>
<b>CHARGES FOR CURRENT SERVICES</b>							
			61152 SPECIAL ASSESSMENT	575,372.00	291,074.19	284,297.81	50.59%
<b>CHARGES FOR CURRENT SERVICES - Summary</b>				<b>\$575,372.00</b>	<b>\$291,074.19</b>	<b>\$284,297.81</b>	<b>50.59%</b>
<b>MISCELLANEOUS REVENUES</b>							
			74121 A-87 COST ALLOC REBATE	7,949.00	4,636.94	3,312.06	58.33%
<b>MISCELLANEOUS REVENUES - Summary</b>				<b>\$7,949.00</b>	<b>\$4,636.94</b>	<b>\$3,312.06</b>	<b>58.33%</b>
<b>RV - Summary</b>				<b>\$588,321.00</b>	<b>\$313,666.09</b>	<b>\$274,654.91</b>	<b>53.32%</b>
<b>EXPENDITURES</b>							
<b>SERVICES &amp; SUPPLIES</b>							
			03150 INSURANCE	2,000.00	1,734.00	266.00	86.70%
			03220 OFFICE EXPENSE	2,000.00	0.00	2,000.00	0.00%
			03230 PROFESSIONAL SERVICES	678,125.00	90,201.01	587,923.99	13.30%



**COUNTY OF GLENN**  
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**Budget to Actuals**  
**For the period Ending:**  
**Feb 29, 2024**

Organization Key	Object Type	Object Group Description	Object Code	Current Year Budget	Current Year Actuals	Remaining Budget	% of Budget Used
			03280 SPECIAL DEPT EXPENSE	26,000.00	4,832.20	21,167.80	18.59%
		<b>SERVICES &amp; SUPPLIES - Summary</b>		<b>\$708,125.00</b>	<b>\$96,767.21</b>	<b>\$611,357.79</b>	<b>13.67%</b>
		<b>OTHER CHARGES</b>					
			05700 ADMINISTRATIVE EXPENSE	7,500.00	1,917.41	5,582.59	25.57%
			05730 A-87 COST ALLOCATION	0.00	0.00	0.00	0.00%
		<b>OTHER CHARGES - Summary</b>		<b>\$7,500.00</b>	<b>\$1,917.41</b>	<b>\$5,582.59</b>	<b>25.57%</b>
		<b>CONTINGENCY</b>					
			09900 CONTINGENCY	65,400.00	0.00	65,400.00	0.00%
		<b>CONTINGENCY - Summary</b>		<b>\$65,400.00</b>	<b>\$0.00</b>	<b>\$65,400.00</b>	<b>0.00%</b>
	<b>XP - Summary</b>			<b>\$781,025.00</b>	<b>\$98,684.62</b>	<b>\$682,340.38</b>	<b>12.64%</b>
<b>Net Return/ (Cost)</b>				<b>(\$192,704.00)</b>	<b>\$214,981.47</b>	<b>(\$407,685.47)</b>	<b>12.64%</b>

SORT ORDER: SUB-SUB within ORG KEY

SELECT ORGANIZATION KEY: 04796000

Lg	UNIQUE ACCOUNT	Primary Ref	Transaction Description	SS Ref	Date	Job No	Debit	Credit	NET		
GL	04796000-00100	JE242434	AutoID: JE004307 Job: 2476803	JE	02/16/24	02476803	2,233.96	0.00	2,233.96		
GL	04796000-00100	TTLCR	AutoID: CR022124 Job: 2476261	CR	02/21/24	02476261	25.82	0.00	2,259.78		
GL	04796000-00100	TTLOH	AutoID:Total Job:2469339	OH	02/23/24	02469339	0.00	14,381.28	-12,121.50		
GL	04796000-00100	JE242527	AutoID: JE004318 Job: 2476777	JE	02/26/24	02476777	3.70	0.00	-12,117.80		
*****Total *SUBS 00100							CASH IN TREASURY	DR	2,263.48	14,381.28	-12,117.80
GL	04796000-00670	TTLOH	AutoID:OH011698 Job:2469180	OH	02/23/24	02469180	0.00	14,381.28	14,381.28		
GL	04796000-00670	TTLOH	AutoID:Total Job:2469339	OH	02/23/24	02469339	14,381.28	0.00	0.00		
*****Total *SUBS 00670							CHECKS PAYABLE	CR	14,381.28	14,381.28	0.00
GL	04796000-03230	2416 GGA	PARIS KINCAID W #1850 PARIS KI	OH	02/23/24	02469180	3,650.00	0.00	3,650.00		
GL	04796000-03230	2445 GGA	PARIS KINCAID W A#1850 PARIS K	OH	02/23/24	02469180	6,424.00	0.00	10,074.00		
GL	04796000-03230	540057 GGA	GEOSYNTEC CONSU A#SFO145 GEOSY	OH	02/23/24	02469180	2,307.28	0.00	12,381.28		
*****Total *SUBS 03230							PROFESSIONAL SERVICES	DR	12,381.28	0.00	12,381.28
GL	04796000-03280	01182024 GGA	ORLAND, CITY OF 01/18/24 CITY	OH	02/23/24	02469180	2,000.00	0.00	2,000.00		
*****Total *SUBS 03280							SPECIAL DEPT EXPENSE	DR	2,000.00	0.00	2,000.00
GL	04796000-61152	JE242434	GLNN GRNDWATER ATHRITY 2/5/24	JE	02/16/24	02476803	0.00	2,233.96	2,233.96		
GL	04796000-61152	243065	DP PRINCE. CODORA GLENN 24-GGA	CR	02/21/24	02476261	0.00	25.82	2,259.78		
GL	04796000-61152	JE242527	TO PAY INV# 24-GGA-06	JE	02/26/24	02476777	0.00	3.70	2,263.48		
*****Total *SUBS 61152							SPECIAL ASSESSMENT	CR	0.00	2,263.48	2,263.48
*****Total *KEY 04796000							GLENN GROUNDWATER AUTHORITY	DR-CR	31,026.04	31,026.04	0.00
							** GRAND TOTAL **	DR-CR	31,026.04	31,026.04	0.00



## **7. COLUSA SUBBASIN GROUNDWATER SUSTAINABILITY PLAN (GSP)**

- a. Receive presentation and hold discussion on Draft Colusa Subbasin Water Year 2023 Annual Report.
- b. Receive an update on Colusa Subbasin GSP implementation activities.
- c. Receive an update on Colusa Subbasin GSP “Incomplete” Determination.

### **Colusa Subbasin Water Year 2023 Annual Report**

The consultant team (Davids Engineering and Luhdorff & Scalmanini Consulting Engineers) has been working diligently to prepare the 2023 Water Year Annual Report which is due April 1, 2024. The Joint TAC received a presentation February 9, 2024 to review the technical components of the report. The consultant team will give a presentation, answer questions, and receive comments on the draft Annual Report.

### **GSP Implementation Activities**

The majority of activities have focused on the development of the Annual Report (Item 7.a) and GSP Revisions (Item 7.c). Staff may provide additional updates on Colusa Subbasin GSP implementation activities.

### **GSP “Incomplete” Determination Activities**

As previously reported, on October 26, 2023, the DWR notified the Colusa Subbasin GSAs of its determination of the Colusa Subbasin GSP to be “incomplete”. The letter outlined the specific deficiencies and recommended corrective actions which include:

- a) Re-evaluation of the overdraft conditions in the Subbasin using the most recent data, and include projects and management actions to mitigate projected overdraft;
- b) Providing a more detailed explanation and justification of the sustainable management criteria for groundwater levels, particularly minimum thresholds and measurable objectives, and quantify the effects of those criteria on beneficial uses; and
- c) Providing a more detailed explanation and justification of sustainable management criteria, monitoring method, and projects and management actions related to land subsidence.

The GSAs must address the deficiencies within 180 days and resubmit the GSP for evaluation no later than April 23, 2024.

CGA and GGA staff have worked closely with the consultant team (Davids Engineering), legal counsel, and the Chairs of the CGA and GGA to strategize and prepare for the GSP revisions. This also includes preparation and discussion following consultation meetings with DWR, Joint TAC meetings, and Joint Board meetings.

Additional updates may be provided on activities related to addressing the deficiencies. It is expected that more detail will be shared and a focused discussion will take place during the Joint Board meeting scheduled for March 22, 2024.

### **Attachments**

- Draft Colusa Subbasin Water Year 2023 Annual Report Presentation



# DRAFT Annual Report Update

Water Year 2023 (Oct 2022 – Sept 2023)

Dauids Engineering and LSCE

03/12/2024



Serving Stewards of  
Western Water Since 1993

## Agenda

- Overview
- Groundwater Conditions
- GSP Implementation Updates

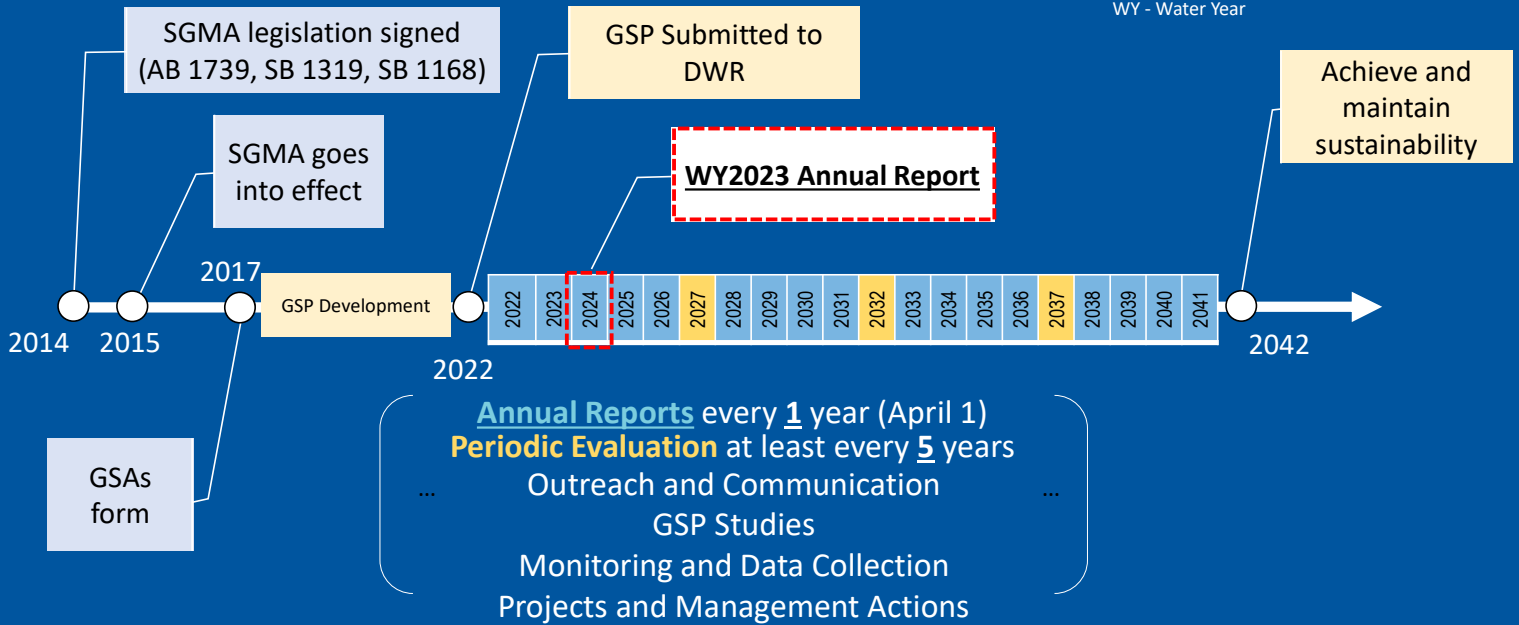


Serving Stewards of  
Western Water Since 1993



# SGMA Implementation Timeline

Abbreviations:  
 AB - Assembly Bill  
 DWR - Department of Water Resources  
 GSA - Groundwater Sustainability Agency  
 GSP - Groundwater Sustainability Plan  
 SB - Senate Bill  
 SGMA - Sustainable Groundwater Management Act  
 WY - Water Year



Luhdorff & Scalmanini  
 Consulting Engineers



## Overview

- The **GSP is a dynamic planning document** that is guiding how groundwater will be managed over the next two decades (through 2042).
- GSP describes groundwater conditions and how groundwater management will avoid adverse impacts related to five sustainability indicators.
- GSP revisions are in progress (April 2024 deadline), effort is being coordinated with these Annual Report updates where possible.



Luhdorff & Scalmanini  
 Consulting Engineers



# Annual Report Requirements (23 CCR §356.2)

- Updates on Groundwater Conditions
  - Groundwater Elevation (Hydrographs, Contour Maps)
  - Change in Groundwater Storage
- Water Supply and Water Use
  - Groundwater Extraction
  - Surface Water Supplies
  - Total Water Use
- Progress Toward Plan Implementation
  - Groundwater Conditions Related to Sustainable Management Criteria (SMC)
  - Projects and Management Actions

DRAFT Annual Report WY2023 Update

Slide 5

03/12/2024



**Luhdorff & Scalmanini**  
Consulting Engineers



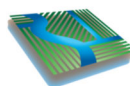
**DAVIDS ENGINEERING, INC**

## Agenda

- Overview
- Groundwater Conditions
- GSP Implementation Updates



**Luhdorff & Scalmanini**  
Consulting Engineers



**DAVIDS ENGINEERING, INC**

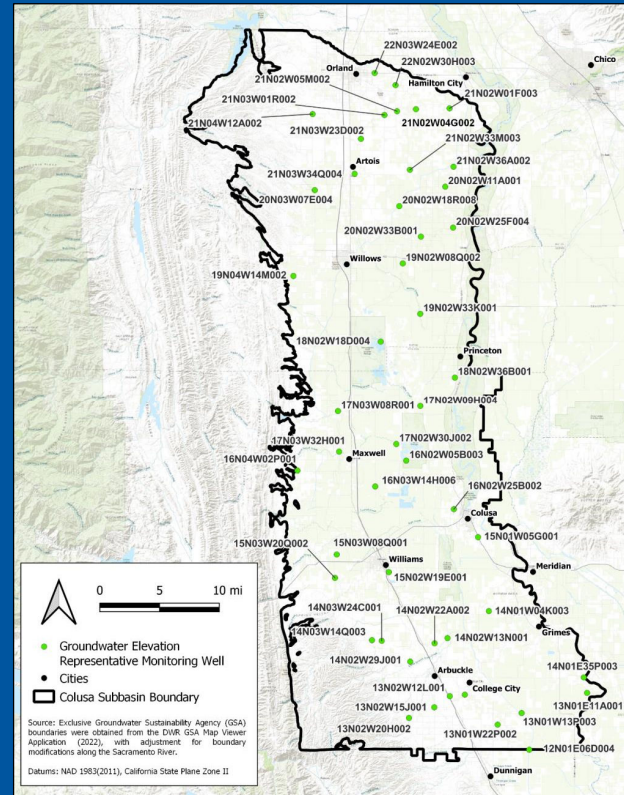
Serving Stewards of  
Western Water Since 1993



# Groundwater Conditions

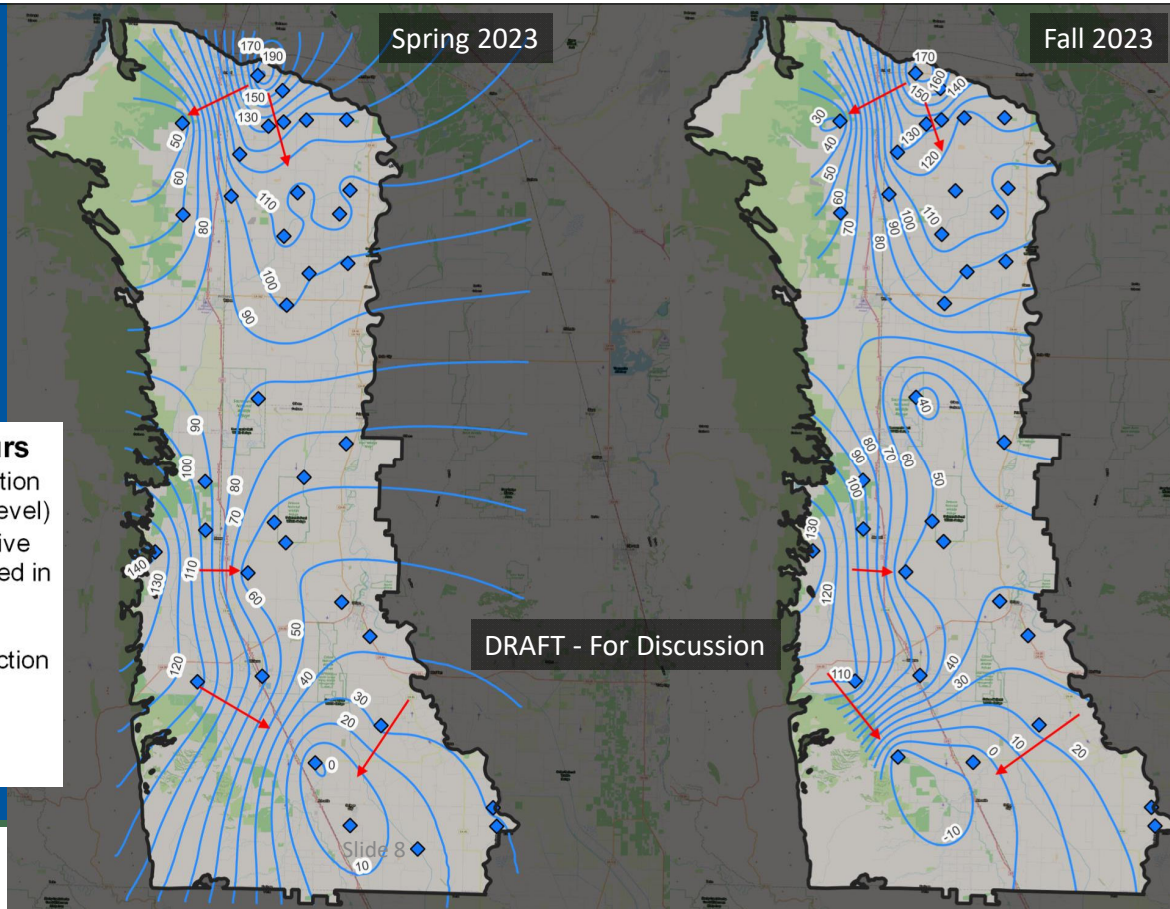
- Groundwater elevations (48 RMS\* Wells)
  - Contour maps
  - Individual RMS well hydrographs
- Groundwater storage change
- Subsidence

\*Representative Monitoring Sites



# 2023 Contours

- DRAFT for Discussion



## Groundwater Elevation Contours

- Spring / Fall Groundwater Elevation Contour (feet above mean sea level)
- ◆ Groundwater Level Representative Monitoring Site (RMS) Wells Used in Contour Development
- General Groundwater Flow Direction

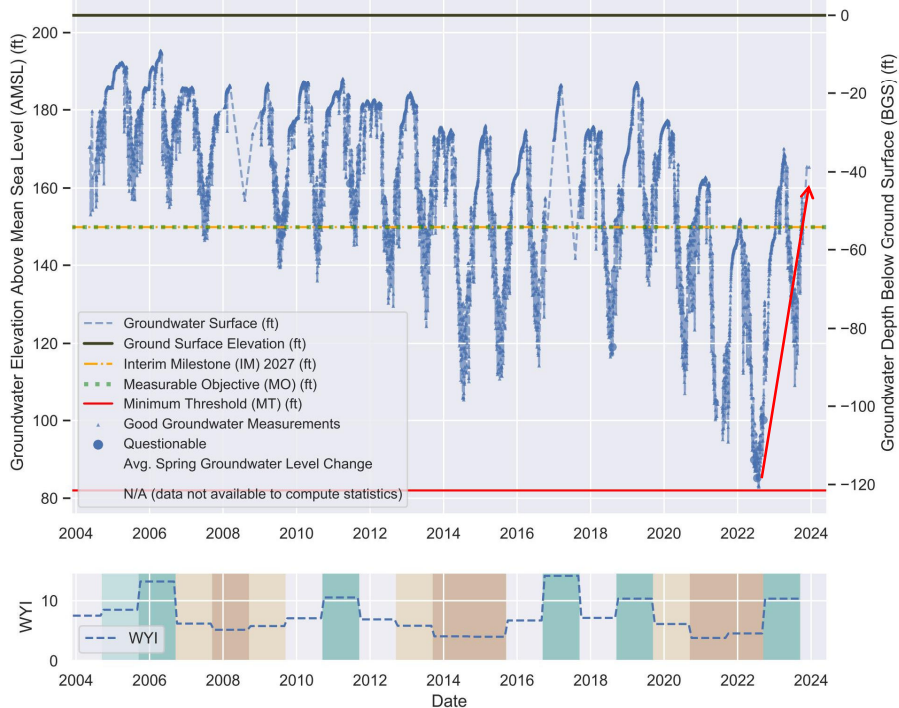
## Subbasin Boundaries

- ▭ Colusa Subbasin



COLUSA Subbasin - State Well Number (SWN): 22N02W30H003M

Perforation 1 (P1): 130.0 - 140.0; P2: 150.0 - 160.0; P3: 250.0 - 260.0 ft BGS

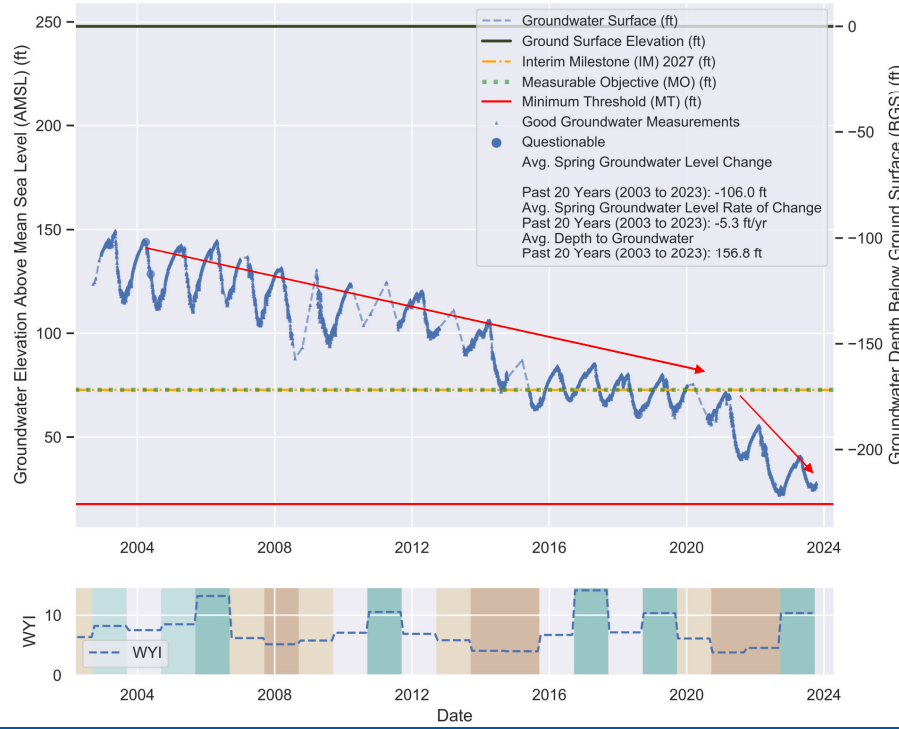
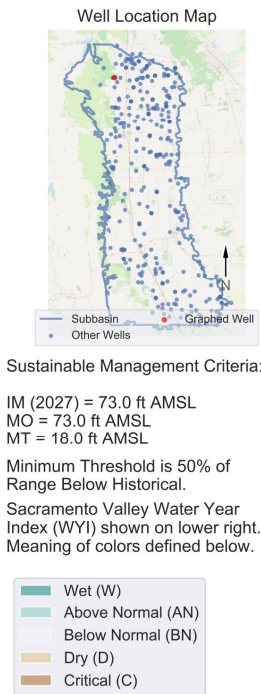


DRAFT - For Discussion Only



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

Perforation 1: 247.0 - 257.0 ft BGS



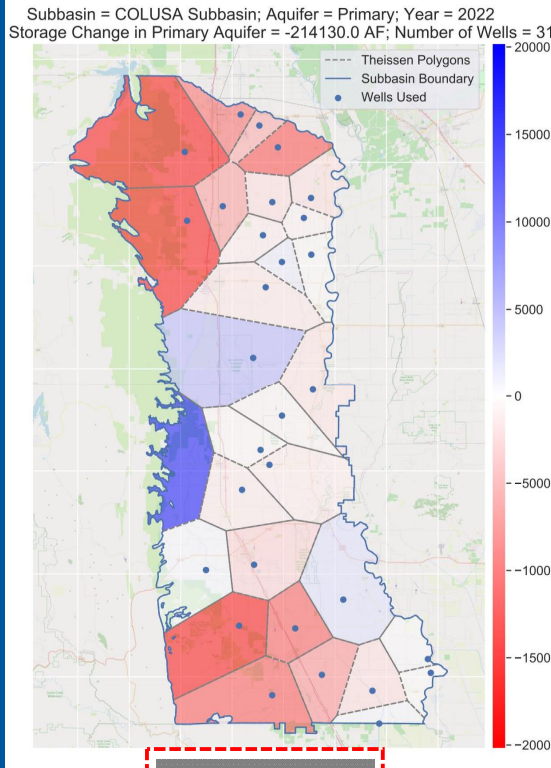
DRAFT - For Discussion Only



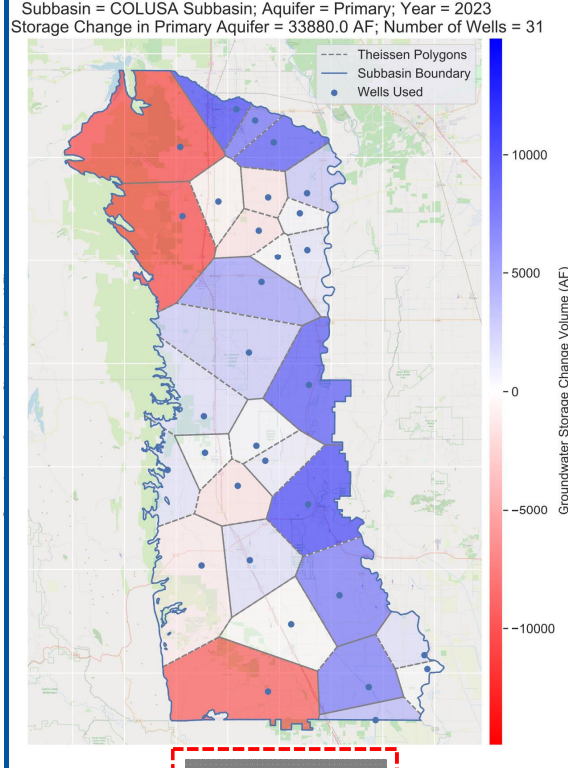
# Change in Groundwater Storage

- Estimated from GW Levels at RMS Wells
- Measured spring-to-spring change in GW level
- Calculated change in storage in surrounding polygon based on GW level and aquifer parameter.
- Annual change in storage calculated for each polygon and summed across the Subbasin (1967-2023)
- Cumulative change in storage calculated Subbasin-wide for 1967-2023.

DRAFT - For Discussion Only



2022: -214 TAF



2023: +34 TAF

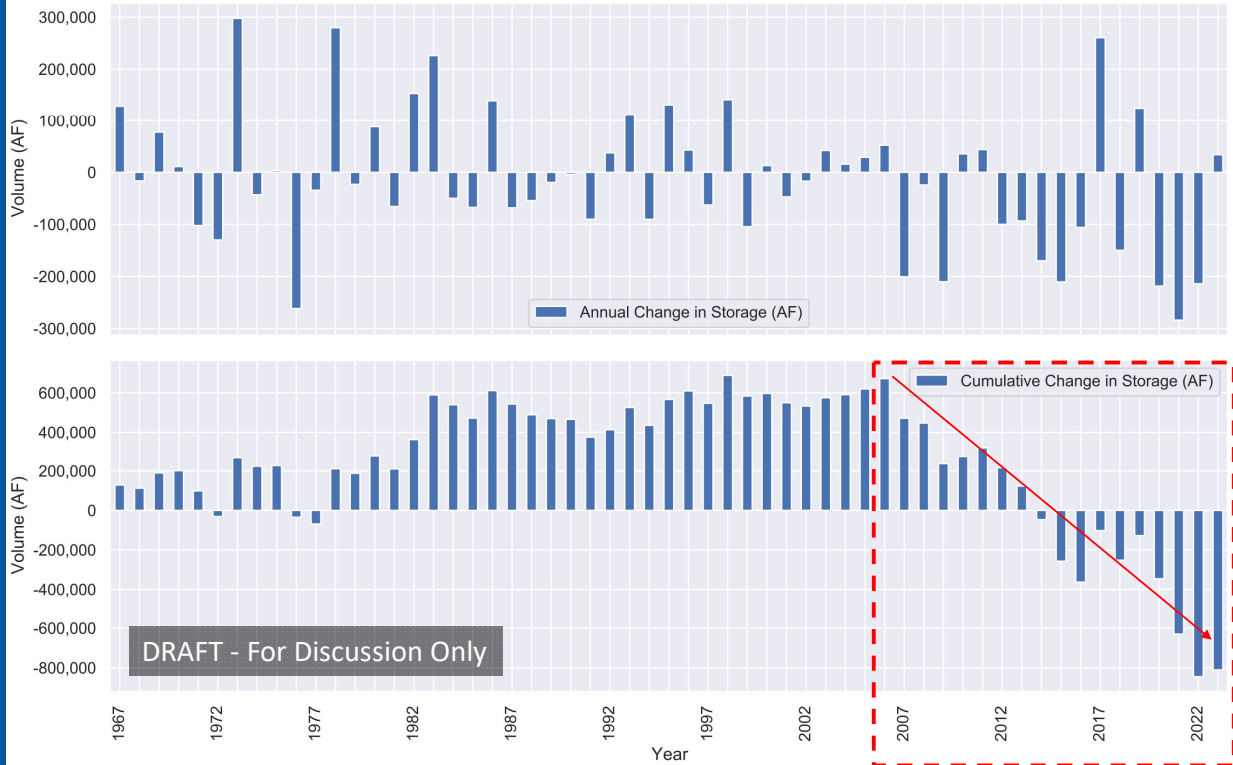
DRAFT Annual Report WY2023 Update

Slide 11

03/12/2024



COLUSA Subbasin Spring to Spring Storage Changes for Primary Aquifer



DRAFT Annual Report WY2023 Update

Slide 12

03/12/2024

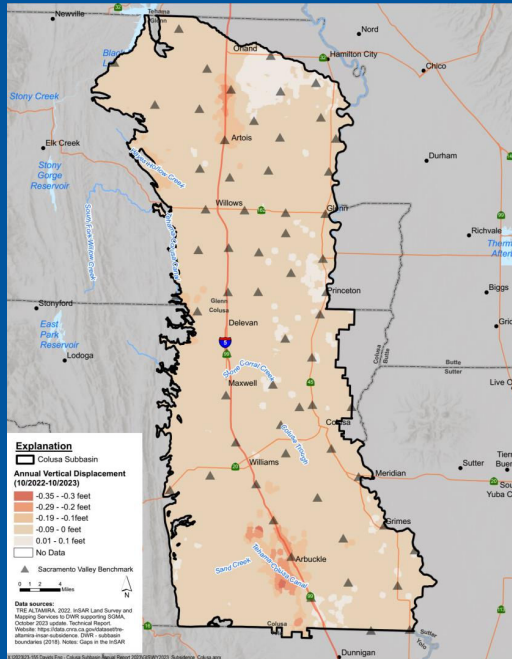




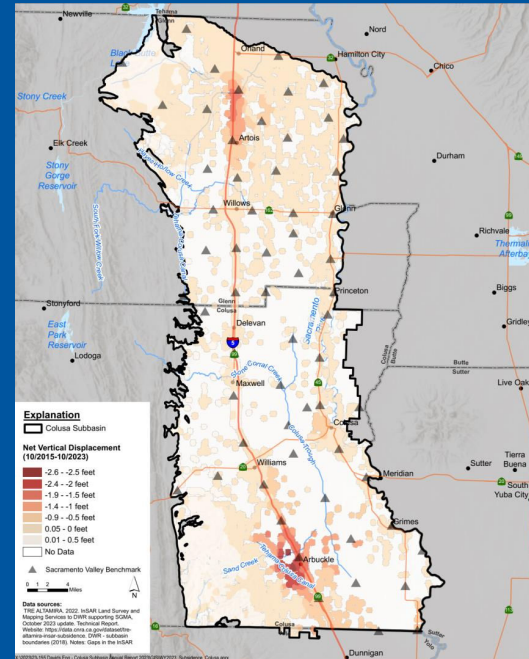
## Interferometric Synthetic Aperture Radar (InSAR)

# Subsidence

- GSP monitors land subsidence from the Sacramento Valley Benchmark Network
  - MT = 0.1 feet/year
  - Last surveyed 2017
- 10-15 benchmark sites near subsidence area
- *GSP revisions involving subsidence in progress*



**Annual Vertical Displacement (2023)**

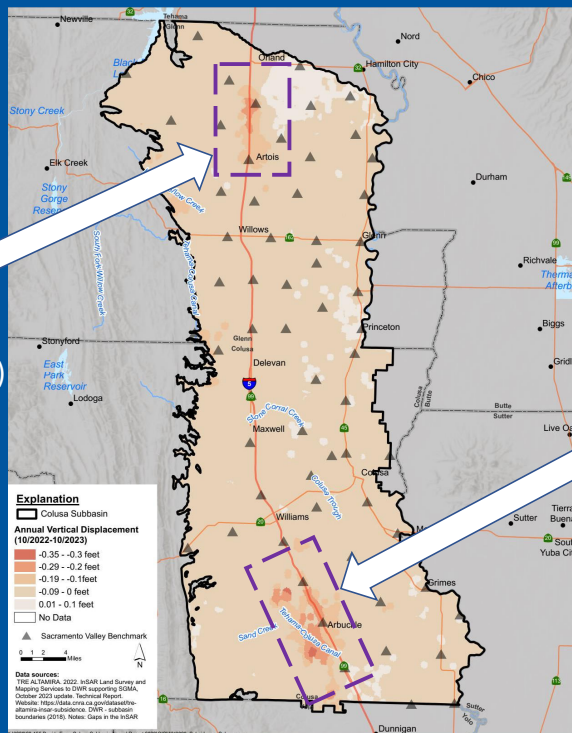


**Net Vertical Displacement (2015 - 2023)**

# Subsidence

### North of Willows/South of Orland

- Max. = 0.4 feet (WY2020-WY2021)
- Max. = 0.6 feet (WY2021-WY2022)
- Max. = 0.2-0.3 feet (WY2022-WY2023)



**Annual Vertical Displacement (2023)**

### Arbuckle Area

- 0.4 feet to 0.8 feet (WY2020-WY2021)
- Max. = 0.8-1.0 feet (WY2021-WY2022)
- Max. = 0.3-0.35 feet (WY2022-WY2023)

# Agenda

- Overview
- Groundwater Conditions
- GSP Implementation Updates



Serving Stewards of  
Western Water Since 1993

## GSP Implementation Updates

- Groundwater Levels at RMS Wells (48 wells total)
  - No wells below the MTs at the spring/fall measurements
  - Majority of wells at/above the MOs at the spring measurement (seasonal high)
  - 11 out of 48 wells (23%) missing spring and/or fall 2023 data, mainly due to access issues (DWR monitors these)
- Project and management action updates reported
  - Annual Report updates
  - GSP Revision updates



Luhdorff &  
Scalmanini  
Consulting Engineers



DAVIDS  
ENGINEERING, INC

# Next Steps

- Draft Annual Report currently available for review (since 02/28)
- Requesting feedback from GSAs by 03/20
- Submit final Annual Report prior to 04/01 deadline





## 8. GGA GROUNDWATER RECHARGE SERVICES

- a. Receive an update on groundwater recharge services and pilot project implementation activities.
- b. \*Consider approval to fund water costs not to exceed \$10,000 to implement groundwater recharge pilot projects.
- c. \*Consider approval of Geosyntec Consultants Task Order 8 Additional Monitoring and Reporting, Groundwater Recharge Assessment for Subsidence for an amount not to exceed \$40,000.
- d. \*Consider approval of Geosyntec Consultants Task Order 9 Additional Monitoring and Reporting, Groundwater Recharge Assessment for Reported Dry Wells in an amount not to exceed \$36,000.

The consultant team (Geosyntec and Water and Land Solutions) is preparing a report on options for long-term groundwater recharge. At the December 12, 2023 meeting, the Board provided direction on which projects to include for in-depth analysis in this report, which include (1) existing basins with local creek winter flows, (2) winter water, (3) Black Butte water storage and releases, (4) Stony Creek section 215, (5) On-farm system modernization, and (6) water right application.

The consultant team worked with the Orland-Artois Water District (OAWD) and the landowners that are applying surface water to install three pressure transducers to record water levels at two sites within the OAWD area on March 7, 2024. The sites are located near Road 25/Road QQ and Road 30/Road M. The barometer was also installed at the OAWD office (Hwy 99W/Road 27). A third site is being coordinated, and once selected, one transducer will be moved to the new site.

### **Water Costs**

At the February 12, 2024 meeting, the GGA discussed allocating funds to support groundwater recharge pilot projects. Item 8.b will consider allocating up to \$10,000, or other designated amount, to reimburse water costs for designated groundwater recharge pilot projects, similar to funds used during the 2023 irrigation season.

### **Geosyntec Task Orders**

There was also discussion at the February 12, 2024 meeting to potentially consider additional groundwater recharge services work. In response to the discussion, Geosyntec has provided two task orders for consideration; the first focused on groundwater recharge as it relates to land subsidence and the second focusing on groundwater recharge as it relates to reported dry wells. Both task orders support further understanding of basin conditions that could result in near-term actions related to sustainability within the subbasin. If approved, the tasks could be acknowledged in the GSP Revision process.

#### ***Task Order 8 Additional Monitoring and Reporting, Groundwater Recharge Assessment for Subsidence***

Task Order 8 would include three tasks to review existing hydrogeologic data, monitor up to 10 existing wells, and prepare a report summarizing the results of the data. As is stated in the proposal overview, the tasks are intended to develop and assess areas of potential subsidence and develop a monitoring program to provide further data to assess areas of subsidence and develop a groundwater recharge program that could help mitigate the reported subsidence. Costs will be billed on a time-and-materials basis not to exceed \$40,000 without prior authorization.

#### ***Task Order 9 Additional Monitoring and Reporting, Groundwater Recharge Assessment for Reported Dry Wells***

Task Order 9 would include three tasks to review existing data and selection of monitored wells, monitor up to eight existing domestic wells, and prepare a report summarizing the results of the data. Monitoring will occur for a period of one year. As is stated in the proposal overview, these tasks are intended to develop a monitoring program to further provide data to assess areas with reported dry wells and develop a groundwater recharge program that could help mitigate these issues. Costs will be billed on a time-and-materials basis not to exceed \$36,000 without prior authorization.

**Attachments**

- Geosyntec Task Order 8, Additional Monitoring and Reporting, Groundwater Recharge Assessment for Subsidence
- Geosyntec Task Order 9, Additional Monitoring and Reporting, Groundwater Recharge Assessment for Reported Dry Wells

February 28, 2024

Glenn Groundwater Authority  
Attn: Lisa Hunter  
225 North Tehama Street  
Willows, CA 95988

**Subject: Task Order 8  
Additional Monitoring and Reporting, Groundwater Recharge Assessment for  
Subsidence  
Colusa Groundwater Subbasin, Glenn County, California**

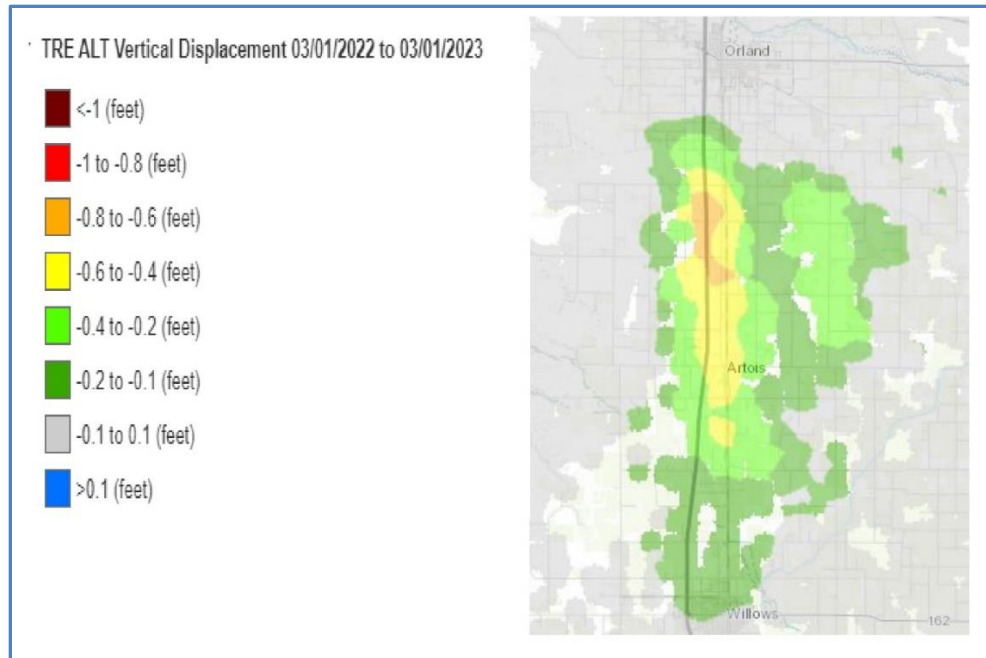
Dear Ms. Hunter:

As requested, this Task Order Request presents our scope and cost estimate to assist the Glenn Groundwater Authority (GGA) with monitoring and assessment focused on developing groundwater recharge options that address reported subsidence issues between Orland and Artois, California. The scope of work developed for this proposal is based on our proposed potential future projects presented to the GGA Board during the February 12, 2024 Board Meeting. The work will be conducted as Task 8 in accordance with our contract with GGA dated October 4, 2022.

## OVERVIEW

Within the GGA portion of the Colusa Groundwater Subbasin (CGS), subsidence has been observed in area between the cities of Orland and Artois, California as shown on Figure 1. As stated in the CGS Groundwater Sustainability Plan (GSP), land subsidence due to groundwater withdrawal is triggered by decreases in pore water pressure in a confined aquifer system containing clay layers. Highly compressible clays have not been reported within Subbasin boreholes. However, the GSP does indicate the presence of the Ione Formation that does consist of kaolinitic clays that can also experience inelastic subsidence, although to a lesser degree such as the Corcoran Clay unit located in southern part of the Central Basin. A cursory review of water level data from existing California Department of Water Resources nested monitoring wells within the area of subsidence suggests differing water level declines between wells screened in the shallow zones and wells screened in the deeper zones. Review of well logs in this area also indicates the presence of “blue clays” that could be the Ione Formation. The presence of the Ione Formation and differing changes in water levels within stratigraphic zones could be the cause for the subsidence observed in GGA portion of the Colusa Groundwater Basin. This task order has been developed to assess areas of potential subsidence and develop a monitoring program to further provide data to assess areas of subsidence and develop a groundwater recharge program that could help mitigate the reported subsidence.





**Figure 1. InSAR data showing subsidence between cities of Orland and Artois from March 2022 to March 2023.**

## SCOPE OF WORK

The scope of services will include two subtasks as follows:

- Subtask 1 – Review of existing hydrogeological data
- Subtask 2 – Monitoring of existing wells
- Subtask 3 – Preparation of Report.

Each of these tasks are described below. The work conducted for this task order will be overseen by Dr. Rodolfo Sancio, PhD, PE<sup>1</sup>, BC.GE. Dr. Sancio is a senior principal geotechnical engineer with more than 25 years of experience in most areas of geotechnical practice including subsidence issues and is currently assisting the Tulare Lake and Tule Groundwater Subbasins with these issues. It should also be noted that the scope of work presented in this task order could be documented in the upcoming amended GSP for the subsidence as part of the response to address DWR comments regarding subsidence.

### Subtask 1 – Review of Existing Hydrogeological Data

To develop an appropriate groundwater monitoring program, groundwater level data from existing DWR nested wells will be analyzed to provide a detailed assessment of varying water level declines within the various depth zones around the subsidence area. In addition, existing geologic well logs will be reviewed for the presence of clay layers that could be the cause of subsidence in the area. The primary objective of these reviews will be to identify depth zones that should be part

<sup>1</sup> Licensed in 10 states but not in California.

of the monitoring program described for Subtask 2. The results of these assessments will be summarized in a Technical Memorandum that will include geologic cross sections to illustrate potential clay zones in the area and their approximate depth. The report will also list identified wells that have screen zones within zones of interest that could be monitored as part of Task 2.

The estimated cost for this subtask is **\$12,000** as summarized on Table 1 and are based on the following assumptions:

- Water level data and well boring logs will from readily available from the DWR webpages.
- Recommendations for existing wells to be monitored will be based on information provided in the DWR webpages including data of installation, screen zones, location, and if the well is active or not.
- Two geologic cross sections will be prepared.
- The memorandum will be provided electronically and will be revised based on one set of comments provided by the GGA.

### **Subtask 2 – Monitoring of Existing Wells.**

This task includes the installation of water pressure transducers within selected wells based the results of Task 1. Costs assume that up to 10 wells will be monitored, five within a shallow zone and five within a deeper zone selected based on the results of water level data and lithologic data provided in the Task 1 memorandum. Each transducer will be programmed to record water levels every hour. Since non-vented transducers will be used for this project, barometric data will also be collected at hourly intervals for use in correcting the data for barometric changes. The length of monitoring will be developed as part of the overall recommendations provided in Task 1.

The estimated cost for this subtask is **\$16,000** as summarized on Table 1 and are based on the following assumptions:

- Ten In Situ Rugged Troll 200 pressure transducers and cabling will be purchased for the project. The In Situ BaroTroll data logger has already been purchased for Task Order 6 and will be used for this project.
- Cable needed for lowering pressure transducers within the wells will be 200 feet or less in length.
- GGA will obtain access to wells selected for monitoring and Geosyntec will be given unimpeded access to the well.
- Installation and programing of transducers will be completed within two 10-hour work days.
- Downloading of the transducers will occur twice, with each event being completed within two 10-hour work days.

### **Task 3 - Report**

After completion of monitoring, a report will be prepared summarizing the results of the data. A hydrogeologic conceptual model (HCM) will be developed using this information and information from Task 1 to assess potential causes of subsidence. The report will also include an assessment of potential recharge mechanism that may address the observed subsidence.

The estimated cost for this subtask is **\$12,000** as summarized on Table 1 and are based on the following assumptions:

- The report will be revised based on one set of comments from GGA.

## SCHEDULE

The draft of the Task 1 technical memorandum will be submitted within 4 weeks of authorization. The final technical memorandum will be completed within two weeks of receiving comments from the GGA. After approval of the technical memorandum and selection of wells to monitored, pressure transducers will be installed within two weeks of being notified by GGA that access to wells has been obtained. Downloading of pressure transducers will occur at agreed upon times with GGA after completion of Task 1. A draft report summarizing results of monitoring will be completed within 4 weeks after the second downloading of the pressure transducers. The final report will be submitted within 2 weeks after receiving comments from GGA.

## COST ESTIMATE

We propose to conduct the proposed tasks on a time-and-materials basis in accordance with the Fee Schedule provided in our existing contract with the GGA dated October 4, 2022, with a not-to-exceed contract amount without prior authorization of **\$40,000**. A summary of fees for each subtask is presented in Table 1.

Table 1 – Summary of Fees

Subtask	Labor	Expenses	Total Cost
Task 1 – Review of Existing Data	\$11,500	\$500	\$12,000
Task 2 – Monitoring of Existing Wells	\$8,000	\$8,000	\$16,000
Task 3 – Report	\$11,500	\$500	12,000
<b>Totals</b>	<b>\$31,000</b>	<b>\$9,000</b>	<b>\$40,000</b>

## AGREEMENT

This project will be conducted as Task 7 under our existing contract with the GGA dated October 4, 2022.

## CLOSING

We greatly appreciate the opportunity to provide our proposal and we look forward to working with you on this project. Should you have any questions, please contact either Joseph Turner at 916.637.8351.

Sincerely,



Joseph Turner, PG, CHg  
Senior Consultant



Amer Hussain, PE  
Senior Principal

March 7, 2024

Glenn Groundwater Authority  
Attn: Lisa Hunter  
225 North Tehama Street  
Willows, CA 95988

**Subject: Task Order 9  
Additional Monitoring and Reporting, Groundwater Recharge Assessment for  
Reported Dry Wells  
Colusa Groundwater Subbasin, Glenn County, California**

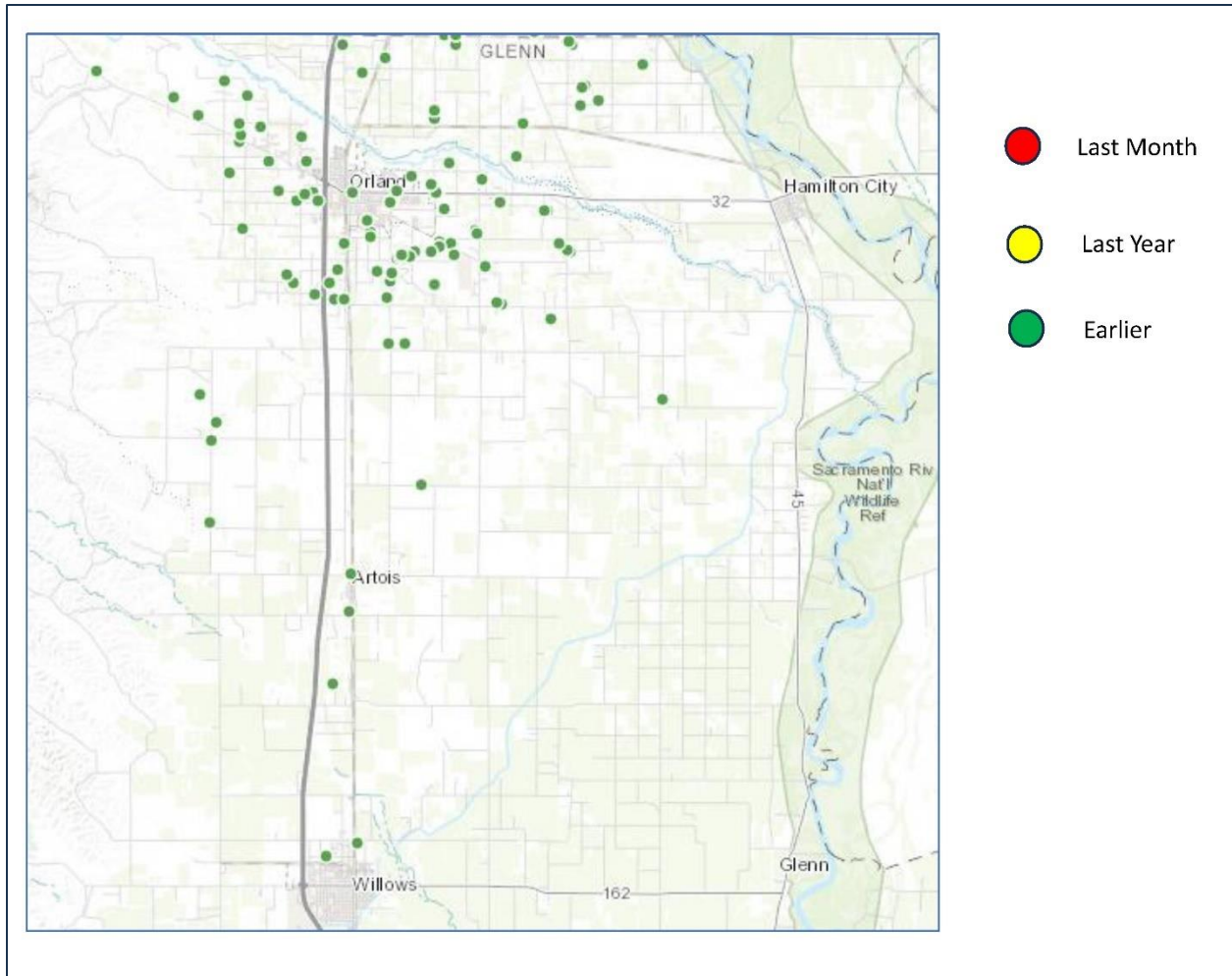
Dear Ms. Hunter:

As requested, this Task Order Request presents our scope and cost estimate to assist the Glenn Groundwater Authority (GGA) with monitoring and assessment focused on developing groundwater recharge options that address reported dry wells, California. The scope of work developed for this proposal is based on our proposed potential future projects presented to the GGA Board during the February 12, 2024 Board Meeting. The work will be conducted as Task 9 in accordance with our contract with GGA dated October 4, 2022.

## OVERVIEW

Within the GGA portion of the Colusa Groundwater Subbasin (CGS), dry wells have been reported throughout Glenn County with the majority observed in area around Orland, California as shown on Figure 1. Figure 1 presents data reported on March 1, 2024 from the SGMA Data Viewer webpage. As seen on Figure 1, all of the reported dry wells occurred over 1 year prior to March 1, 2024. Based on information provided on Glenn County webpage, the majority of these reported dry wells occurred during 2021.

This task order has been prepared to develop a monitoring program to further provide data to assess areas with reported dry wells and develop a groundwater recharge program that could help mitigate these issues.



**Figure 1. SGMA Data Viewer data showing reported dry wells on March 1, 2024. As seen on this figure, reported dry wells are more than a year old with the majority around the City of Orland, California.**

## SCOPE OF WORK

The scope of services will include two subtasks as follows:

- Subtask 1 – Review of existing data/Selection of Monitored Wells
- Subtask 2 – Monitoring of existing wells
- Subtask 3 – Preparation of Report.

Each of these tasks are described below.

### **Subtask 1 – Review of Existing Data/Selection of Monitored Wells**

The majority of reported dry wells are domestic wells. Prior to development of the appropriate monitoring program that will include installation of pressure transducers to record water levels as discussed for Subtask 2, existing data will be reviewed to assess the total depths of domestic wells within the study area. In addition, the location of DWR nested monitoring wells equipped with

pressure transducers will be identified and assessed for individual well depths. Wells selected for monitoring will be based on average depth of the reported dry wells and wells not located near DWR nested wells with screen zones at these average depths.

After completion of this review, a list will be developed of potential well locations and provided to GGA. After GGA staff assesses the list of potential wells for the ability to obtain access agreement for the proposed monitoring program, Geosyntec will assess the potential well locations for the ability to installed the pressure transducers within the wells. After completion of this assessment, Geosyntec will prepare a final list of proposed wells to be monitored to be presented to GGA for approval.

The estimated cost for this subtask is **\$11,000** as summarized on Table 1 and are based on the following assumptions:

- Data reviewed for domestic wells construction details will be from the DWR Well Completion Reports webpage and from information provided by the GGA.
- Data reviewed for DWR nested wells will be from the DWR Water Data Library.
- Up to 10 domestic wells will be assessed for ability to install pressure transducers. These assessments will be completed within two 10-hour work days.
- The GGA will obtain access to domestic wells and coordinate the site visits.

### **Subtask 2 – Monitoring of Existing Wells.**

This task includes the installation of pressure transducers within selected wells based the results of Task 1. Costs assume that up to 8 wells will be monitored. Each transducer will be programmed to record water levels every hour. Since non-vented transducers will be used for this project, barometric data will also be collected at hourly intervals for use in correcting the data for barometric changes. The length of monitoring will be one year.

The estimated cost for this subtask is **\$14,500** as summarized on Table 1 and are based on the following assumptions:

- Eight In Situ Rugged Troll 200 pressure transducers and cabling will be purchased for the project. The In Situ BaroTroll data logger has already been purchased for Task Order 6 and will be used for this project.
- Cable needed for lowering pressure transducers within the wells will be 100 feet or less in length.
- GGA will obtain access to wells selected for monitoring and Geosyntec will be given unimpeded access to the well.
- Installation and programing of transducers will be completed within two 10-hour work days.
- Downloading of the transducers will occur quarterly (four events), with each event being completed within two 10-hour work days. The GGA will coordinate with well owners for each of these events.
- During the last quarterly downloading of the pressure transducers, the pressure transducers will be removed from the wells.



### Task 3 - Report

After completion of monitoring, a report will be prepared summarizing the results of the data. A hydrogeologic conceptual model (HCM) will be developed using this information and information from Task 2 and other projects completed for the GGA to assess potential causes of the dry wells. The report will also include an assessment of potential recharge mechanism that may address the observed dry wells.

The estimated cost for this subtask is **\$10,500** as summarized on Table 1 and are based on the following assumptions:

- The report will be revised based on one set of comments from GGA.

### SCHEDULE

The list of potential domestic wells to be monitored will be submitted within 4 weeks of authorization dependent upon receipt of domestic well information from the GGA. Site visits to assess ability to install pressure transducers within domestic wells will be completed within 2-weeks after access has been obtained by the GGA. After final selection of the monitored wells, the eight pressure transducers will be installed and programmed within 2-weeks. The downloading of transducers will occur quarterly based on the date of installation. A draft report will be submitted to GGA within three weeks after the final downloading of the pressure transducers. The final report will be completed within two weeks of receiving comments from the GGA.

### COST ESTIMATE

We propose to conduct the proposed tasks on a time-and-materials basis in accordance with the Fee Schedule provided in our existing contract with the GGA dated October 4, 2022, with a not-to-exceed contract amount without prior authorization of **\$36,000**. A summary of fees for each subtask is presented in Table 1.

Table 1 – Summary of Fees

Subtask	Labor	Expenses	Total Cost
Task 1 – Review of Existing Data	\$10,500	\$500	\$11,000
Task 2 – Monitoring of Existing Wells	\$8,000	\$6,500	\$14,500
Task 3 – Report	\$10,000	\$500	\$10,500
<b>Totals</b>	<b>\$28,500</b>	<b>\$7,500</b>	<b>\$36,000</b>

### AGREEMENT

A separate TO request was submitted concurrently with this TO request. If both TO requests are approved, this project will be conducted as Task 9 under our existing contract with the GGA dated



Lisa Hunter  
March 7, 2024  
Page 5

October 4, 2022. If only this TO request is approved, this project will be conducted as Task 8 under our existing contract.

## CLOSING

We greatly appreciate the opportunity to provide our proposal and we look forward to working with you on this project. Should you have any questions, please contact either Joseph Turner at 916.637.8351.

Sincerely,



Joseph Turner, PG, CHg  
Senior Consultant



Amer Hussain, PE  
Senior Principal

## 9. GSP IMPLEMENTATION FEE PROJECT

- a. Review schedule for project completion.
- b. Discuss and provide direction on project components including five-year revenue needs projection, user classifications and definitions, fee policy, coordination with cities and urban water suppliers, and public outreach.

The Fee Study Ad Hoc Committee met with the consultant team Lohdorff & Scalmanini Consulting Engineers (LSCE) (together referred to as the Fee Project Team) on March 5, 2024. The February 12, 2024 Board meeting outcomes were discussed and updated materials were developed to guide further discussion, particularly related to revenue projections, user classifications, outreach, engagement with cities, foundational data related to parcel acreage and ownership, and the project schedule.

### **Five-Year Revenue Needs Projection**

The updated Five-Year Revenue Needs Projections are attached. This includes increasing the Special Department Expense by \$100,000 each year in anticipation of the well mitigation program and an increase the GSP Project Implementation and Monitoring by \$100,000 per year. The years in which the revenue needs are projected will be shifted from 2024-2028 to 2025-2029 and any considerations for any differences in revenues needed for 2029 will be analyzed.

The Fee Project Team discussed potentially adding a line item that would be dedicated to the well mitigation program that would roll over unused funds year to year rather than including the additional funds (\$100,000) in the Special Department Expenses line. Another suggestion was to allocate some of the current reserve funds to the well mitigation program if a line item is established. This could occur during development of the 2024/2025 budget.

### **User Classifications and Definitions**

Draft User Classification definitions are attached for discussion and input. This includes the four user classifications discussed at the February 12, 2024 meeting.

A key component of the surface water user definition is to distinguish between surface water users and groundwater users within established surface water areas (districts). LSCE is prepared to communicate with the surface water providers to determine how best to accurately reflect which parcels belong in which categories. An email will be sent to each district to introduce the concept and set a meeting to review available information.

### **Draft Fee Policy**

The draft Fee Policy is currently under development, and is expected to be available for discussion at the April meeting. It is requested the Board provide guidance on specific considerations that will be included in the draft policy: User Classification Change Requests (UCCR), variance process, and appeals.

A UCCR is the process by which a landowner would request the parcel classification be corrected (improperly classified). The variance process is the process by which a landowner may request multiple classifications per parcel (more refined approach). For instance, a 50-acre parcel be categorized with 10 acres as dryland and 40 acres as groundwater user. Costs to process this application would be borne by the applicant. The UCCR and variance process would each have an appeals process.

There are generally three options of who could review each of the processes: (1) GGA Board, (2) Fee Policy Committee of the Board, (3) GSA Staff. The Board should discuss the preferred options to include in the draft policy.

**Proposition 218 Notice Process Summary**

The attached Proposition 218 Notice Process Summary provides key assumptions and process details. The Board may wish to discuss and provide feedback to the Fee Project Team.

**Public Outreach**

At the February 12, 2024 meeting, the Board discussed various outreach options, including holding three public outreach meetings after the Proposition 218 notices are mailed and prior to the public hearing and what to include in the Proposition 218 mailing (see above).

Another concept that was discussed at the Ad Hoc meeting was potentially sending a postcard to all parcel owners prior to the 218 notices being sent. The postcard could include basic information and links. Parcel owners would be notified that more information would be coming, and perhaps the subsequent notices would be more successful.

**Engaging Cities/Municipal Water Supplier**

City representatives and/or municipal water suppliers were encouraged to initiate discussion on the potential fee structure. Representatives are encouraged to report on communications with their respective entities.

**Project Schedule**

A draft project schedule include key topics and milestones is included below. This is subject to change.

Date	Meeting/Activity	Key Topics	Notes
3/12/2024	Board	Finalize User Classification definitions Input on Draft Fee Policy Report on communication with cities Discuss approach to determine sw vs gw users Finalize projected revenue needs (with new details to account for GSP determination implications) Discussion on Landowner Survey Finalize approach on public outreach and/or meetings Authorize develop & mail postcard with basic information and resources	policy will guide parcel classification to develop the fee report & draft fees
	Ad Hoc	Input on Draft Fee Report Review parcel classification Review draft fees	
4/8/2024	Board	Review and Input on Draft Fee Report Input on draft fees Fee Policy	
	Ad Hoc	Draft Fee Report Draft 218 notices, envelopes, landowner survey	
5/13/2024	Board	Approve Fee Report Authorize mailing of notices by May 17 Authorize landowner survey (ability to make corrections) Set public hearing date/time	45 days after 5/15 is 6/29; 45 days after 5/17 is 7/1; 45 days after 5/20 is 7/4 45 days before 7/8 is 5/24
6/11/2024	Board		
6/17-28/24	Public Outreach Meetings	Public Outreach Meetings	

6/19 & 6/26	Newspaper announcements	Notice of public hearing to adopt fees 2x at least 5 days apart; 14 days from 1st publication	pub 6/22 & 6/29 (no earlier than 7/6); pub 6/19 & 6/26 (no earlier than 7/3)
7/8/2024	Board	Public Hearing Approve 24/25 Budget Approve Max Fees Approve 24/25 Fees	submit to DOF by 8/10/24
8/12/2024	Board	Outcomes	

Staff, committee members, and the consultant team may provide additional updates. The Board is encouraged to continue open discussion on the Fee Project.

**Attachments**

- Five-Year Revenue Needs Projection
- Draft User Classification definitions
- Proposition 218 Notice Process Summary

COLUSA SUBBASIN GGA GSA - Long Term Funding Strategy					
Five-Year DRAFT GSA Operational Budget - GSP Implementation With SGMA Compliance Costs					
5-Year GSP Implementation Inflation Adjustment	0%	CPI Index	CPI Index	CPI Index	CPI Index
Proposed	Year 1	Year 2	Year 3	Year 4	Year 5
Cost Category-GSA Administration	2024	2025	2026	2027	2028
Administration - Contracted Services	\$170,000	\$200,000	\$220,000	\$170,000	\$170,000
Legal Services	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
CPA Audit Services - Financial	\$10,000	\$10,500	\$11,000	\$11,500	\$11,500
JPA Insurance	\$2,000	\$2,500	\$2,500	\$2,500	\$2,500
County A-87 Cost Allocation (Bookkeeper services)	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500
Professional Services	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000
Board Expenses	\$2,000	\$2,000	\$2,000	\$2,000	\$2,000
Special Department Expenses	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000
Legal Notices	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
County Tax Roll Fee	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Contingency (10%)	\$50,750	\$53,850	\$55,900	\$50,950	\$50,950
GSA Administration Sub-Total	\$558,250	\$592,350	\$614,900	\$560,450	\$560,450
5-Year GSP Implementation Inflation Adjustment	0%	CPI Index	CPI Index	CPI Index	CPI Index
Cost Category-SGMA Compliance	2024	2025	2026	2027	2028
Annual Reporting	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000
Five Year GSP Update w/Modeling Calibrations (due 2027)	\$60,625	\$60,625	\$60,625	\$60,625	\$48,500
Surface-GW Interaction Modeling	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
GSA Coordination & Outreach (w/in and between GSAs)	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
Data Management System Upgrades and Maintenance	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Long Term Financial Planning/Fees	\$17,500	\$17,500	\$17,500	\$17,500	\$17,500
Grant Procurement	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
GSP Project Implementation and Monitoring	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000
Contingency (8%)	\$32,650	\$32,650	\$32,650	\$32,650	\$31,680
Sub-Total	\$440,775	\$440,775	\$440,775	\$440,775	\$427,680
TOTAL GGA Administration (w/inflation adjustment)	\$558,250	\$610,121	\$651,794	\$610,891	\$627,704
TOTAL GGA SGMA Compliance (w/inflation adjustment)	\$440,775	\$453,998	\$467,222	\$480,445	\$479,002
<b>TOTAL GGA Operational Budget</b>	<b>\$999,025</b>	<b>\$1,064,119</b>	<b>\$1,119,016</b>	<b>\$1,091,335</b>	<b>\$1,106,706</b>

March 2024 GGA Board Meeting

2024 GGA Fee User Class Definitions

For Review and Comment

Draft Definitions for GGA Fee User Classes

**Dryland User Class** – includes parcels within the GGA service area that are considered open space, natural habitat, vacant, dryland farmed or rangeland. Parcels included in this user class have zero to very low groundwater use. This would include parcels that have no groundwater wells or have wells for stock water use or low domestic use only on large parcels consisting of **XX** acres or more. This may include parcels located within surface water service area boundaries who have opted out of receiving surface water deliveries or do not use surface water at any time.

**Surface Water User Class** - includes parcels within the GGA service area that use surface water when its available which may include parcels within the surface water provider service area or have individual water rights or permits for surface water allocations directly from the Sacramento River, Stony Creek, or another source. Parcels that use surface water with groundwater in a supplemental fashion will be classified as surface water users.

**Groundwater User Class** – includes parcels within the GGA service area that use groundwater. These parcels will typically have a well(s) on the parcel serving as the primary source of water supply for residential and/or irrigation water uses. Includes parcels located within surface water provider service areas that have opted out of using surface water and/or do not use surface water when its available.

**Urban Area User Class** – includes parcels within established urban areas, including cities or towns **servicing a minimum population of 500**, located within the GGA service area that pay fees to the GGA directly through an annual payment plan. If urban parcels are billed for GGA fees through a local Proposition 218 process users would be charged based on water source (per groundwater or surface water definitions above).

March 2024 GGA Board Meeting

2024 Proposition 218 Notice Criteria

For Review and Direction

**Proposition 218 Notice Mailing:**

Will include Prop. 218 Notice, Parcel Information Sheet (with information on how to submit corrections), and outreach meeting flyer.

Prop. 218 Notice will be one page, double-sided with protest form included.

Will use Assessor parcel size data except for outliers or border parcels which will use GIS method for calculating portion of parcel within GGA service area.

(Landowners will have opportunity to provide GGA with updated parcel information for inclusion in August 2024 Fee Roll for billing accuracy)

Envelope will include message "Proposition 218 Notice" (or similar) so those receiving the Prop. 218 Notice know the letter is important to open and has billing related information inside.

Envelope will include Glenn Groundwater Authority and local mailing address for return address.

Spanish version of Prop. 218 Notice will be posted on GGA website.

Protest Forms can be sent to GGA PO Box in advance of public hearing/fee approval.

**Proposition 218 Mailing Distribution:**

Final mailing list will reflect decision of urban areas to continue annual billing process for updated fees.

Property owners who own more than one parcel subject to the fee will receive one Notice with billing summary for all parcels owned.

**Proposition 218 Notice Handling:**

All Protest Forms received at the GGA PO Box in advance of public hearing/fee approval will be stored unopened and will only be opened during the public hearing.

Returned mail will be collected and provided to the GGA.

All protests received at the PO Box and during the public hearing will be counted and reported to the Board at the close of the public hearing and before consideration of approving proposed fees.

All protests received will be provided to the GGA after the protest tally has been completed and certified.

## 10. \*CONSIDER APPOINTMENT OF EMIL CAVAGNOLO TO THE GGA TECHNICAL ADVISORY COMMITTEE

Emil Cavagnolo has served on the GGA Technical Advisory Committee (TAC) in his capacity of OAWD General Manger and GGA Alternate Director since February 2019. Mr. Cavagnolo has recently retired from the OAWD and has expressed interest in continuing to serve on the TAC as a knowledgeable stakeholder.

## 11. COMMITTEE UPDATES

- a. Executive Committee
  - i. CGA/GGA Joint Executive Committee
- b. Fee Study Ad Hoc Committee
- c. Groundwater Recharge Pilot Project Ad Hoc Committee
- d. Technical Advisory Committee

The **GGA Executive Committee** last met July 27, 2022. The CGA/GGA Joint Executive Committee met January 28, 2022. The next GGA Executive Committee meeting has not been scheduled.

Committee Members: John Amaro, Matt Deadmond, Gary Hansen

The **Fee Study Ad Hoc Committee** has been coordinating via email and last met on March 5, 2024. The outcomes of the committee's work were shared during Item 9. Next steps will be determined based on input from the Board's discussion.

Committee Members: John Amaro, Grant Carmon, Mark Lohse

The **Groundwater Recharge Pilot Project Ad Hoc Committee** last met November 15, 2023. The outcomes of that meeting were shared during the December 12, 2023 meeting. The next meeting has not been scheduled.

Committee Members: Emil Cavagnolo, Matt Deadmond, Chuck Schonauer, Bruce Roundy, Gary Enos

The **Technical Advisory Committee** (TAC) met jointly with the Colusa Groundwater Authority (CGA) Technical Advisory Committee on March 8, 2024. The meeting focused on the GSP revision process including Groundwater Level Sustainable Management Criteria (SMC) and the monitoring network and basis of SMC for land subsidence. Outcomes from this meeting will be used to prepare for DWR consultation meetings and are refined for discussion and guidance at the upcoming Joint Board meeting scheduled for March 22, 2024.

The April 12, 2024 CGA/GGA Joint TAC meeting was cancelled and the next CGA/GGA Joint TAC meeting is scheduled for June 14, 2024.

TAC presentations and other meeting materials are available on the GGA website at:

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

Committee Members: Tavis Beynon, Matt Deadmond, Emil Cavagnolo (pending re-appointment during Item 10), Mark Lohse, Don Bills, Shasta Banchio

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## 12. 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.

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**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

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**14. REPORT OUT FROM CLOSED SESSION**

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**15. MEMBER REPORTS AND COMMENTS**

Members of the GGA Board are encouraged to share information, reports, comments, and suggest future agenda items. Action cannot be taken on items brought up under this item.

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**16. NEXT MEETING**

A special meeting to be held jointly with the CGA is scheduled for March 22, 2024 at 10:00 a.m. (location to be determined). The next regular meeting is scheduled for April 8, 2024 at 1:30 p.m.

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**17. ADJOURN**

The meeting will be adjourned.

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\*Indicates Action Item