

# Tracy Subbasin GSP Coordination Committee Meeting

Thursday May 16, 2024  
3:00 PM to 4:00 PM

## Teleconference Meeting Only

Teleconference Link: <https://stantec.zoom.us/j/98333216975>

Phone Number: +1-669-900-6833

Meeting ID: 983 3321 6975

The following options are available to members of the public to listen to these meetings and provide comments to the Committee Members before and during the meeting:

### CALL-IN

Members of the public are encouraged to use the call-in number, which will allow them to fully participate in the meeting without having to be present in person. **Once connected, we request you kindly mute your phone.** Please note, however, that calling in will prevent you from seeing any materials shown by those joining the meeting from a computer. Meeting packets are distributed through the [interested parties database](#) and posted to the Tracy Subbasin website in advance of the meeting.

### PUBLIC COMMENT

If you wish to make a written comment on a specific agenda item ahead of time, please submit your comment via email at least 48 hours prior to the meeting. Please submit your comment via email to Fritiz Buchman, San Joaquin County, at [fbuchman@sjgov.org](mailto:fbuchman@sjgov.org). Your comment will be shared with the Tracy Subbasin Groundwater Sustainability Agencies members and placed into the record at the meeting. Every effort will be made to read comments received during the meeting into the record, but some comments may not be read due to time limitations. Comments received after an agenda item will be made part of the record if received prior to the end of the meeting.

### DISABILITY-RELATED MODIFICATIONS

If you need disability-related modification or accommodation in order to participate in this meeting, please call (916) 418-8277 at least 48 hours prior to the start of the meeting.

## AGENDA

### I. Opening of Meeting/Roll Call

- A. Call the Meeting to Attention and Conduct Introductions

### II. Scheduled Items

- A. Approval of the April 18 GSP Coordination Committee Meeting Minutes – *Action Item*
- B. GSA Status Updates – *Round Robin Discussion*
  - 1. Current Groundwater Conditions, Projects and Management Actions, Funding, and General Updates

2. San Joaquin County: Ashley Couch Introduction – *Discussion Item*

C. GSP Implementation Updates

1. TSS Update – *Discussion Item*

D. Budget Development – *Discussion Item*

E. Inter-basin Coordination – *Discussion Item*

1. Adjacent Basin Updates

i. Eastern San Joaquin – *Alex Chetley*

ii. Delta Mendota – *Lea Emmons*

iii. East Contra Costa – *Ed Pattison*

F. DWR Status Report – *Discussion Item*

**III. Public Comments**

A. Receive Comments and Questions not Captured Within the Agenda From Members of the Public In Attendance

**IV. Agency Comments**

A. Receive Comments and Questions not Captured Within the Agenda From GSA Representatives

**V. Next GSP Coordination Committee Meeting Anticipated for June 20, 2024**

A. Confirm Group Availability

**VI. Adjournment**

# Tracy Subbasin GSP Coordination Committee Meeting

Thursday April 18, 2024  
3:00 PM to 4:00 PM

## DRAFT MINUTES

### I. Opening of Meeting/Roll Call

#### A. Call the Meeting to Attention and Conduct Introductions

The meeting was called to order at approximately 3:03 PM. Roll call found the following Sustainable Groundwater Management Act (SMGA) Groundwater Sustainability Agency (GSA) representatives for the Tracy Subbasin (Tsb) present via teleconference for the regular Groundwater Sustainability Plan (GSP) Coordination Committee (Committee) meeting:

- Lea Emmons, City of Tracy GSA
- John Chapman, Stewart Tract GSA
- Greg Gibson, City of Lathrop GSA
- Greg Young, Byron Bethany Irrigation District (BBID)
- David Weisenberger, Banta-Carbona Irrigation District (BCID)
- Bob Granberg and Alex Chetley, San Joaquin County GSA

Other Attendees Included:

- Khandriale Clark, Stantec
- Emily Finnegan, Stantec
- Richard Shatz, GEI
- George Hartman

II. **Scheduled Items**

- A. Approval of the March 21 GSP Coordination Committee Meeting Minutes – *Action Item.*

**Result:** Approve

**Mover:** David Weisenberger

**Seconded:** Lea Emmons

**Ayes:** All

**Noes:** None

**Absent:** Ed Pattison

**Abstain:** None

**Notes/Edits:** The minutes are approved with no additional edits requested.

- B. GSA Status Updates – *Round Robin Discussion*

1. Current Groundwater Conditions, Projects and Management Actions, Funding, and General Updates
  - City of Tracy: No GSA updates to share.
  - City of Lathrop: No GSA updates to share.
  - BBID: Absent
  - BCID: The District is still progressing through the engineering work supporting the pipeline extension.
  - San Joaquin County: The County has been monitoring groundwater levels since 1971. For the 2023 water years, there were 25 monitoring wells that contributed to that year's readings of groundwater levels. A report denoting outcomes of the previous water year stated that groundwater levels for all except one of those wells that risen approximately 10 feet. That report is available on the County website.
  - Stewart Tract: No GSA updates to share.

- C. GSP Implementation Updates

1. WY23 Annual Report Submittal – *Discussion Item*
  - The annual report was submitted on March 29, 2024. DWR will be reviewing the report for completion and comparison to the

Subbasin's Sustainability Goal. As suggested by DWR in their latest guidance, the hydrographs that will be included in next year's report will take into account all monitoring wells, not just representative monitoring wells. This was not done this year due to timing and level of effort needed but is likely to be more feasible next year as the previous three-step download process has been reduced to a less arduous effort. The Committee should anticipate receiving comments back from DWR on the Annual Report around July of this year.

2. TSS Update – *Discussion Item*

- The Tracy Subbasin is receiving six new monitoring wells with funding provided by DWR. Permitting approvals have been a challenge but the Subbasin and DWR are navigating those challenges together. Mr. Emmons plans to send a follow up communication to DWR regarding the well within the City of Tracy's jurisdiction soon.
- MW -204 is complete. MW-201 is currently underway and is anticipated to be completed next week. Corcoran clay has been found; it likely will be found when MW-202—which is slated to be 70 feet—is drilled as well. This will inform how extensive the layer is within the Subbasin. Signatures from DWR are still needed for MW-101.

D. Budget Development – *Discussion Item*

- The timeline covered within the budget is July 1 through June 30, and it must be adopted by the Committee each June. The current cost allocation spreadsheet informing the budget will need to be updated with the final groundwater pumping numbers included in the Annual Report and should be available for Committee digestion by the next meeting.
- The majority of the line items will stay the same as compared to the previous year's budget; however, some changes or additions currently include:
  - Increased costs for TSS assistance
  - Documentation support for the Periodic Evaluation

- GSP Plan Amendment (5-yr update)
- Reintegration of costs previously set aside to support GSA response to DWR for an incomplete or inadequate determination on the GSP (which is not needed as the Tracy Subbasin GSP was approved)
- A line item unable to be determined at this time is whether or not the Subbasin will need support for a Plan Amendment or a Periodic Evaluation of the GSP; this will be determined by whether any significant or material changes have occurred.
- Mr. Shatz will break down all of the additional support that may be needed in a manner that specifically addresses all of the corrective actions noted in DWR’s determination letter. The determination letter will be re-sent out to the group.
- GEI and Stantec will provide proposals for the anticipated services needed for the next fiscal year.

E. Inter-basin Coordination – *Discussion Item*

1. Adjacent Basin Updates

- i. Eastern San Joaquin – *Alex Chetley*
  - a. The Subbasin is currently working on their well mitigation program as well as their next budget.
- ii. Delta Mendota – *Lea Emmons*
  - a. Northern and Central Mendota will be hosting a tour next week.
- iii. East Contra Costa – *Ed Pattison*
  - a. No updates presented this meeting.

F. DWR Status Report – *Discussion Item*

- No updates presented this meeting.

**III. Public Comments**

A. Receive Comments and Questions not Captured Within the Agenda From Members of the Public In Attendance

- No comments presented at this time.

**IV. Agency Comments**

A. Receive Comments and Questions not Captured Within the Agenda From GSA Representatives

- No comments presented at this time.

V. **Next GSP Coordination Committee Meeting Anticipated for May 16, 2024**

A. Confirm Group Availability

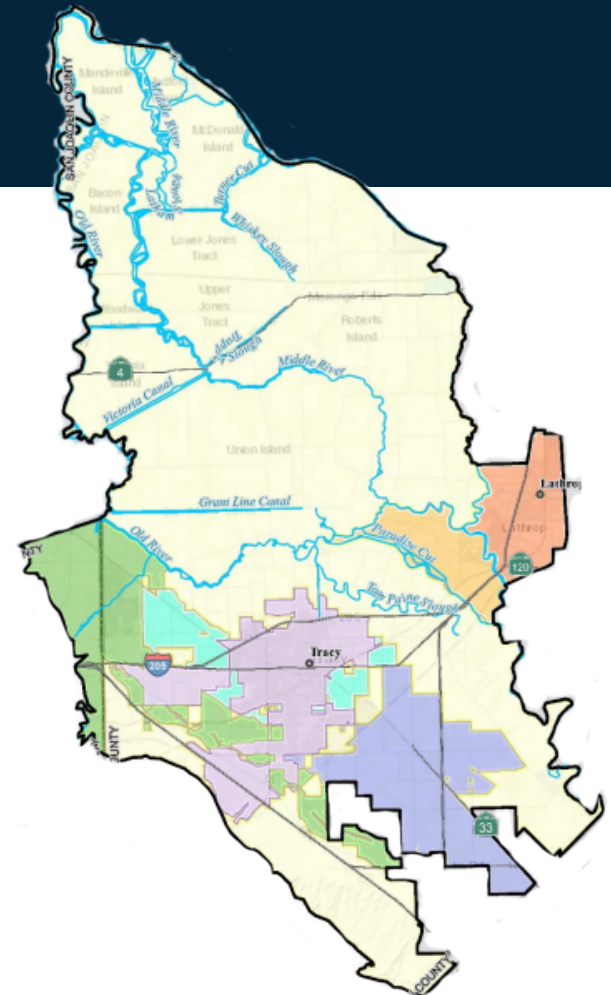
- No conflicts with the meeting time or date noted at this time.

VI. **Adjournment**

The meeting adjourned at approximately 4:13 PM.

May 16, 2024

# Item B.1 Current Groundwater Conditions

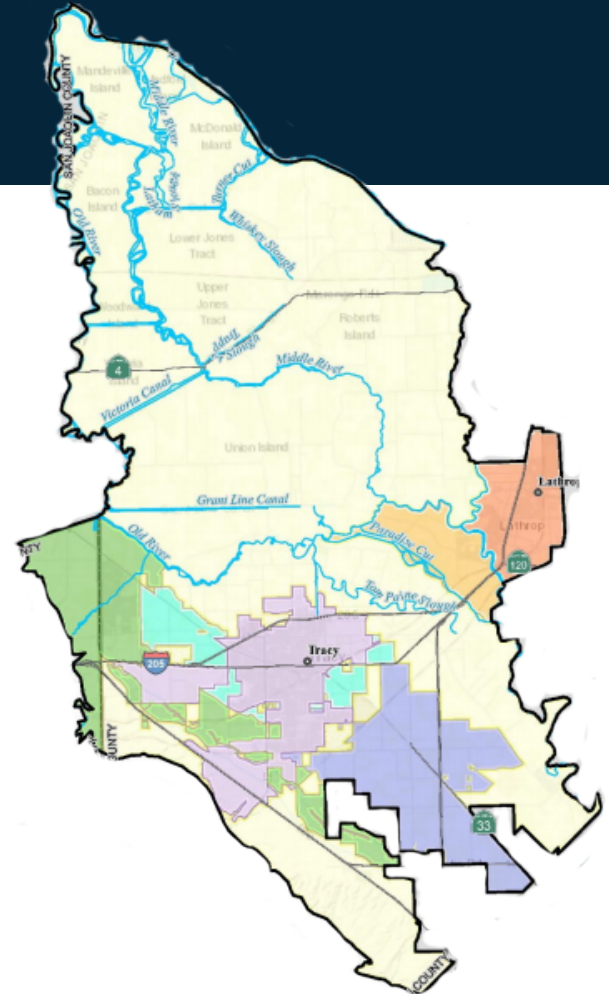


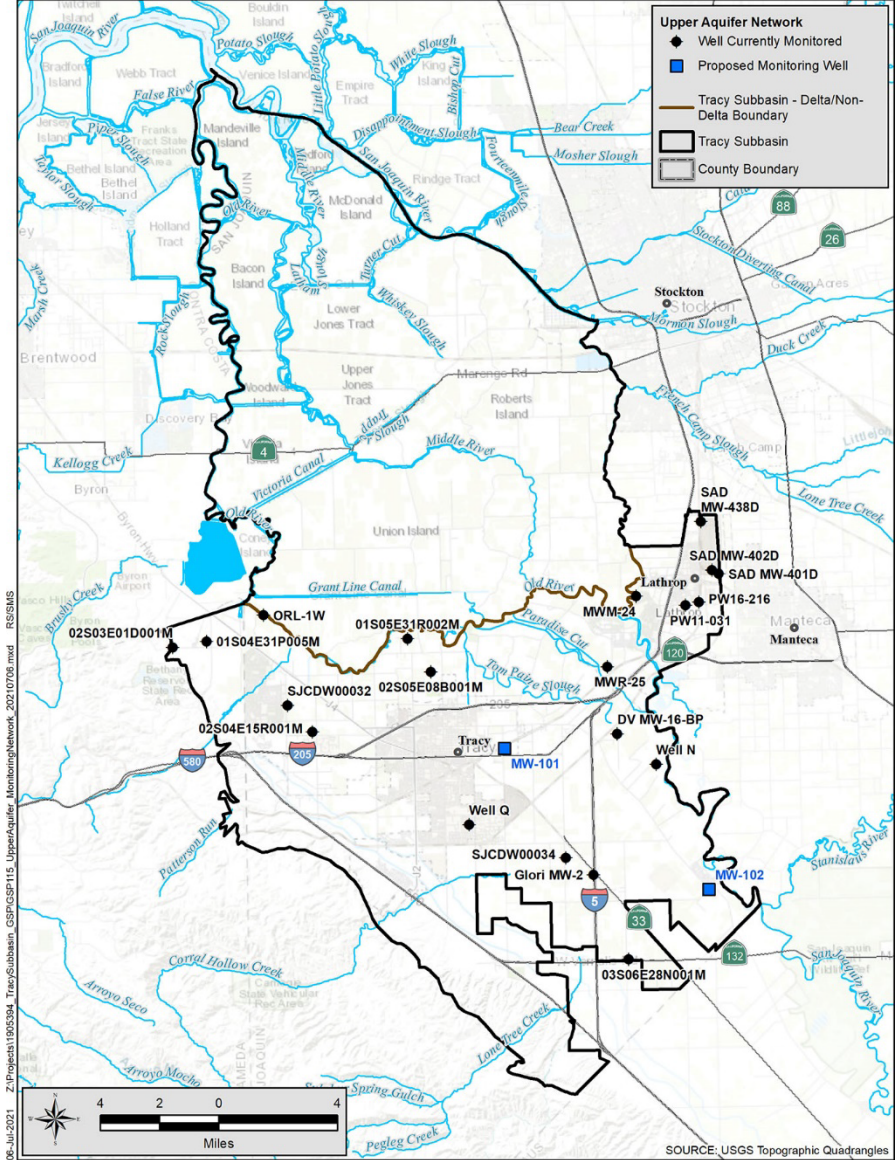
# Spring 2024 Groundwater Levels vs MOs and MTs

RMW Well Name	Monitoring Entity	Measurement Date	Depth to Water (feet)	Groundwater Elevation (feet)	MT Elevation (feet)	Interim MO Elevation (feet)	Above (+) or Below (-) MT	Above (+) or Below (-) MO	Comments
<b>Upper Aquifer Wells</b>									
Well N	SJCo		NM	NM	5	7	#VALUE!	#VALUE!	
Well Q	SJCo		NM	NM	55	57	#VALUE!	#VALUE!	
02S03E01D001M	BBID		NM	NM	73	80			No Measurements - most recent 05/2022. NM for fall 2022 and spring 2023.
02S05E08B001M	SJCo		NM	NM	-7	0	#VALUE!	#VALUE!	
03S06E28N001M					58	64			No Measurements - most recent 04/2022
02S04E15R001M	SJCo		NM	NM	43	48	#VALUE!	#VALUE!	
01S04E31P005M	BBID		NM	NM	41	45			No Measurements - most recent 05/2022. NM for fall 2022 and spring 2023.
ORL-1W	BBID		NM	NM	-3	-1			No Measurements - Transfer Ownership
MWM-24	Lathrop	4/24/2024		4.96	-1	3	5.96	1.96	
MWR-25	Lathrop	4/24/2024		5.95	3	4	2.95	1.95	
SAD MW-402D	Regulatory		NM	NM	-2	3			Obtained from Semi-Annual Reports
PW11-031	Regulatory		NM	NM	0	4			Obtained from Semi-Annual Reports
PW16-216	Regulatory		NM	NM	-19	0			Obtained from Semi-Annual Reports
<b>Lower Aquifer Wells</b>									
Corral MW-6	Regulatory		NM	NM	-60	-38			Obtained from Semi-Annual Reports
MW-1B	Tracy	1/10/2024		-19.76	-69	-20	49.24	0.24	
MW-3B	Tracy	1/8/2024		-21.01	-40	-22	18.99	0.99	
MW-5B	Tracy	1/4/2024		-15.72	-60	-17	44.28	1.28	
MW-6B	Tracy	1/4/2024		-17.99	-67	-20	49.01	2.01	
01S05E31R002M	SJCo		NM	NM	-1	-1	#VALUE!	#VALUE!	
03S06E05R001M	DWR	4/10/2024		-1.49	-33	-7	31.51	5.51	
PW20-500	Regulatory		NM	NM	-10	0			Obtained from Semi-Annual Reports

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# Item C.1 Technical Support Services





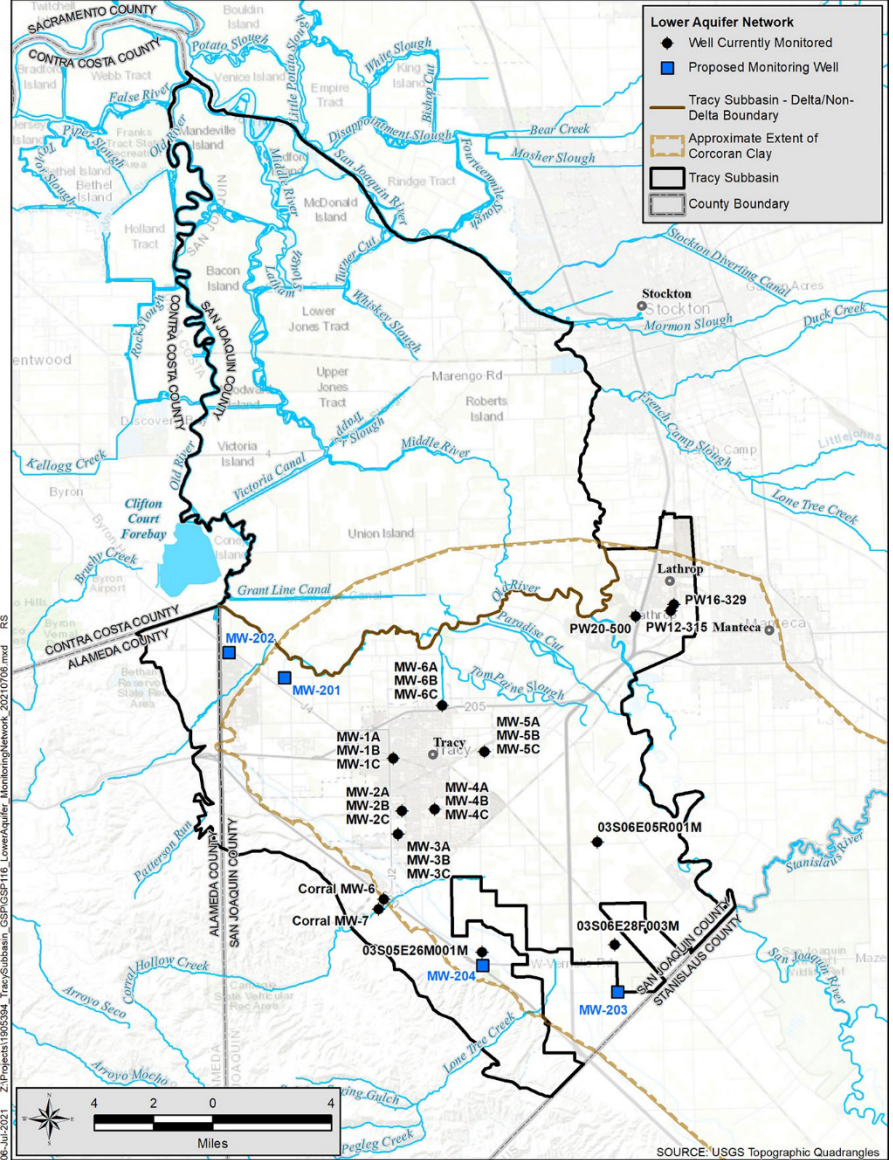
Tracy Subbasin  
San Joaquin and Alameda Counties

Upper Aquifer  
Monitoring Network

Tracy Subbasin

GEI Consultants JULY 2021

FIGURE 7-X



Tracy Subbasin  
San Joaquin and Alameda Counties

Lower Aquifer  
Monitoring Network

Tracy Subbasin

GEI Consultants JULY 2021

FIGURE 7-X

# Tracy Subbasin

# Current Status

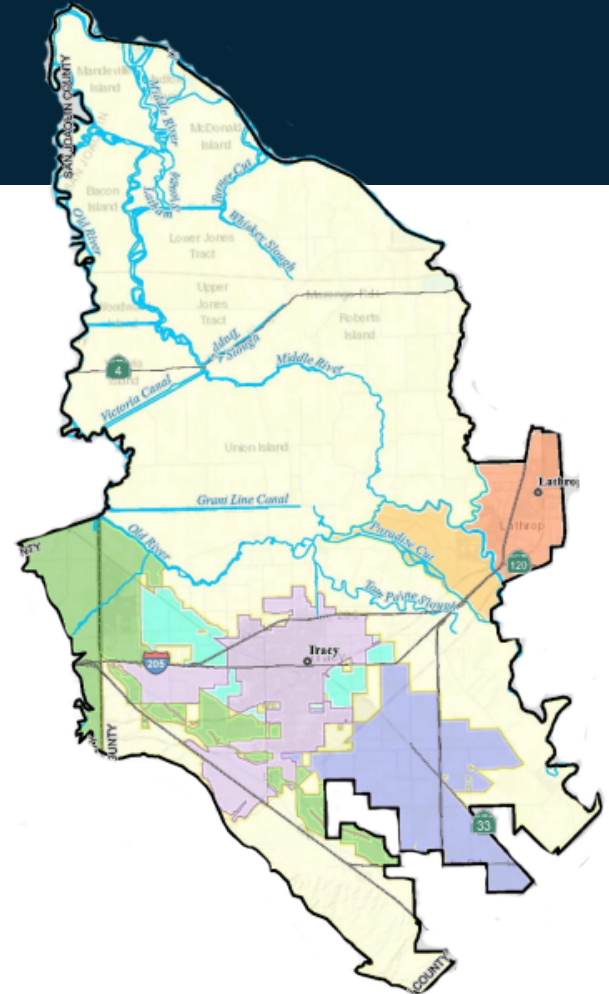
- Waiting for DWR to provide well completion reports and survey data for 3 constructed wells.
- GEI preparing monitoring forms for groundwater level measurements and training on use of and DWR uploads
- Tracy has signed DWR agreement
- Waiting for DWR to return with the drill rig to complete remaining wells, maybe July

Monitoring Well Name	Agency	DWR Agreement Signed	Permit Status				
			Draft Permit	Draft Workplan	DWR to acquire Drilling Contractor Signature	Submit to SJCEHD	Permit Approved
MW-101	City of Tracy	X	X	X			
MW-102	BCID		Land to be acquired				
MW-201	BBID		Wells Constructed				
MW-202	Mtn. House	X	X	X			
MW-203	BCID		Wells Constructed				
MW-204	BCID		Wells Constructed				

May 16, 2024

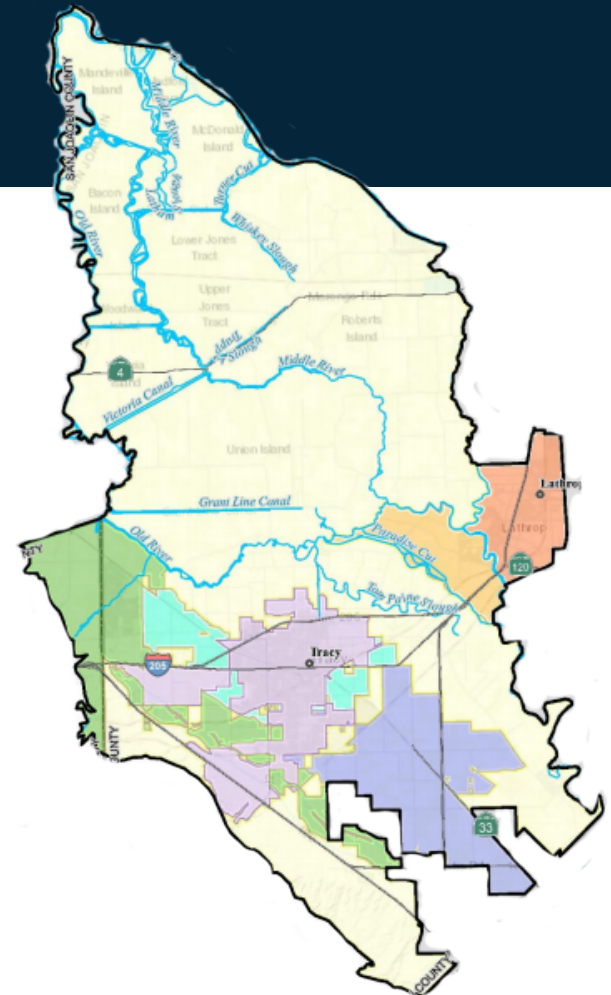
# Item D Fiscal Year 24-25

# Annual Budgeting Process



May 16, 2024

# Item C.1 FY 2024-25 Budget



# GSP Annual Budget – Shared Costs

Description	FY2021-22	FY2022-23	FY2023-24	FY2024-25	FY2025-26
<b>EXPENSES</b>					
Regulatory Requirements					
Annual Reports	\$70,000	\$50,000	\$50,000	\$50,000	\$50,000
GSP Revisions (DWR comments)			\$50,000		
5-Year GSP Update					\$100,000
Spreadsheet Model			\$100,000	\$100,000	\$60,000
DMS maintenance	\$20,000	\$20,000	\$20,000	\$20,000	\$10,000
Data Gaps:					
New Monitoring Wells	\$15,000				
GDE Assessment			\$30,000		
Program Management and Administrative Expenses					
Quarterly TSb Tech Coordination Meetings (4)					
Public Outreach	\$1,940	\$1,940	\$1,940	\$1,940	\$1,940
Hydrographs+ MT and MO (22)	\$6,600	\$6,600	\$6,600	\$6,600	\$6,600
Water quality	\$500	\$500	\$500	\$500	\$500
Progress Towards Filling Data Gaps	\$500	\$500	\$500	\$500	\$500
Progress Towards Projects and Actions	\$500	\$500	\$500	\$500	\$500
Meeting Minutes	\$500	\$500	\$500	\$500	\$500
TSb Tech Comm Meetings (Semi - Annual instead of quarterly)					
Annual Public Meetings	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Interbasin Quarterly Meeting Attendance					
ECCC Subbasin (BBID)					
ESSJ Subbasin (SJC)					
DMSb (???)	\$1,440	\$1,440	\$1,440	\$1,440	\$1,440
Solano Subbasin (???)					
Lead Agency (San Joaquin County) with assistance from Stantec	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Project and Management Actions					
Management Action 1: Amend Well Ordinance		\$10,000	\$10,000		
<b>Shared Costs - Annual Expenses</b>	<b>\$171,980</b>	<b>\$146,980</b>	<b>\$326,980</b>	<b>\$236,980</b>	<b>\$286,980</b>
5-year Cost					\$1,169,900
Average 5-year Cost	\$233,980	\$233,980	\$233,980	\$233,980	\$233,980

# GSP Annual Budget – Local Costs

Description	FY2021-22	FY2022-23	FY2023-24	FY2024-25	FY2025-26
<b>EXPENSES</b>					
Regulatory Requirements					
Monthly Groundwater Level Monitoring					
San Joaquin County (4 wells monthly)	\$11,520	\$11,520	\$11,520	\$11,520	\$11,520
BBID (3 well monthly)	\$8,640	\$8,640	\$8,640	\$8,640	\$8,640
BCID (2 new well, monthly)	\$2,880	\$2,880	\$2,880	\$2,880	\$2,880
City of Tracy (5 wells monthly)	\$14,400	\$14,400	\$14,400	\$14,400	\$14,400
City of Lathrop (no wells)	\$0	\$0	\$0	\$0	\$0
Regulatory Compliance (9 wells quarterly)					
DWR (6 wells quarterly)	\$2,880	\$2,880	\$2,880	\$2,880	\$2,880
Annual Water Quality Monitoring					
PWS Wells:					
City of Tracy (4 wells)	\$1,460	\$1,460	\$1,460	\$1,460	\$1,460
City of Lathrop (1 well)	\$365	\$365	\$365	\$365	\$365
Data Gaps:					
MW-101 (Tracy)	\$5,000				
MW-102 (County)	\$5,000				
MW-201 (BBID)	\$5,000				
MW-202 (BBID/Mtn House)	\$5,000				
MW-203 (BCID)	\$5,000				
MW-204 (County)	\$5,000				
GDE Assessment			\$30,000		
Program Management and Administrative Expenses					
Interbasin Quarterly Meeting Attendance					
ECCC Subbasin (BBID)					
ESSJ Subbasin (SJC)					
Interbasin Annual Meeting Attendance					
Administrative					
BBID	\$4,600	\$4,600	\$6,200	\$7,800	\$7,800
BCID	\$4,600	\$4,600	\$6,200	\$7,800	\$7,800
City of Tracy	\$4,600	\$4,600	\$6,200	\$7,800	\$7,800
City of Lathrop	\$4,600	\$4,600	\$6,200	\$7,800	\$7,800
Stewart Tract	\$4,600	\$4,600	\$6,200	\$7,800	\$7,800
San Joaquin County					
Professional Services					
Communications Specialist					
Hydrogeologist					
Legal (San Joaquin)					
Project Development Work for Grant Development					
Grant Writing					
Project and Management Actions					
Project 1: BCID Expansion of Facilities					
<b>Local Costs - Annual Expenses</b>	<b>\$95,145</b>	<b>\$65,145</b>	<b>\$73,145</b>	<b>\$81,145</b>	<b>\$81,145</b>
BBID	\$23,240	\$13,240	\$14,840	\$16,440	\$16,440
BCID	\$12,480	\$7,480	\$9,080	\$10,680	\$10,680
City of Tracy	\$25,460	\$20,460	\$22,060	\$23,660	\$23,660
City of Lathrop	\$4,965	\$4,965	\$6,565	\$8,165	\$8,165
Stewart Tract	\$4,600	\$4,600	\$6,200	\$7,800	\$7,800
San Joaquin County	\$21,520	\$11,520	\$11,520	\$11,520	\$11,520
DWR	\$2,880	\$2,880	\$2,880	\$2,880	\$2,880

# GSP Annual Budget – Shared Costs

Description	FY2021-22	FY2022-23	FY2023-24	FY2024-25	FY2025-26
<b>Shared Costs - Annual Expenses</b>	<b>\$171,980</b>	<b>\$146,980</b>	<b>\$326,980</b>	<b>\$236,980</b>	<b>\$286,980</b>
5-year Cost					\$1,169,900
Average 5-year Cost	\$233,980	\$233,980	\$233,980	\$233,980	\$233,980

<b>REVENUE - For Shared Costs Only</b>					
Grant Funded (assume only 50%)					
Zone 2 Funding	\$85,000	\$85,000	\$85,000	\$85,000	\$85,000
Funds from GSAs (total)	\$148,980	\$148,980	\$148,980	\$148,980	\$148,980
<b>Total Costs ( Zone 2 + Grants + Funds from GSAs)</b>	<b>\$233,980</b>	<b>\$233,980</b>	<b>\$233,980</b>	<b>\$233,980</b>	<b>\$233,980</b>

<b>EXPENSES</b>					
<b>GEI</b>	<b>\$110,041</b>	<b>\$129,085</b>	<b>\$117,571</b>	<b>\$222,961</b>	
<b>Stantec</b>	<b>\$13,165</b>	<b>\$25,000</b>	<b>\$20,389</b>	<b>\$29,722</b>	
<b>County Administrative</b>	<b>\$30,000</b>	<b>\$30,574</b>	<b>\$30,000</b>	<b>\$30,000</b>	
<b>Subtotal</b>	<b>\$153,206</b>	<b>\$184,659</b>	<b>\$167,960</b>	<b>\$282,683</b>	
<b>Budget vs Actual</b>	<b>\$18,774</b>	<b>(\$37,679)</b>	<b>\$159,020</b>	<b>(\$45,703)</b>	
<b>Reserves/Current and Projected</b>	<b>\$80,774</b>	<b>\$130,095</b>	<b>\$196,115</b>	<b>\$147,412</b>	
<b>Projected Reserve/cumulative (from 2021)</b>	<b>\$62,000</b>	<b>\$149,000</b>	<b>\$56,000</b>	<b>\$53,000</b>	<b>\$0</b>

Note: FY 23-24 has not ended. Actual costs will vary with completion of work through June 30 2024

# GSP Annual Budgets – Through FY23-24

Description	FY2021-22	FY2022-23	FY2023-24	Total Expenses	FY 21-22 thru FY 23-24 Budgets versus Actual
<b>EXPENSES</b>					
Regulatory Requirements					
Annual Reports	\$70,000	\$50,000	\$50,000	\$204,195	(\$34,195)
GSP Revisions (DWR comments)			\$50,000	\$477	\$49,523
5-Year GSP Update				\$11,605	(\$11,605)
Spreadsheet Model/ <i>Water Quality</i>			\$100,000	\$16,339	\$83,661
DMS maintenance	\$20,000	\$20,000	\$20,000	\$42,253	\$17,747
Data Gaps: TSS wells	\$15,000			\$46,199	(\$31,199)
GDE/ <i>SW</i> / Assessment			\$30,000	\$1,816	\$28,184
Program Management and Administrative Expenses					
TSb Tech Coordination Meetings and Public Outreach (Sum)	\$16,980	\$16,980	\$16,980	\$33,811	\$17,129
Administrative (SJCo with assit from Stantec)	\$50,000	\$50,000	\$50,000	\$149,128	\$872
Project and Management Actions					
Management Action 1: Amend Well Ordinance		\$10,000	\$10,000	\$0	\$20,000
<b>Total Expenses</b>	<b>\$171,980</b>	<b>\$146,980</b>	<b>\$326,980</b>	<b>\$505,823</b>	<b>\$140,117</b>

Note: FY 23-24 has not ended. Actual costs will vary with completion of work through June 30 2024

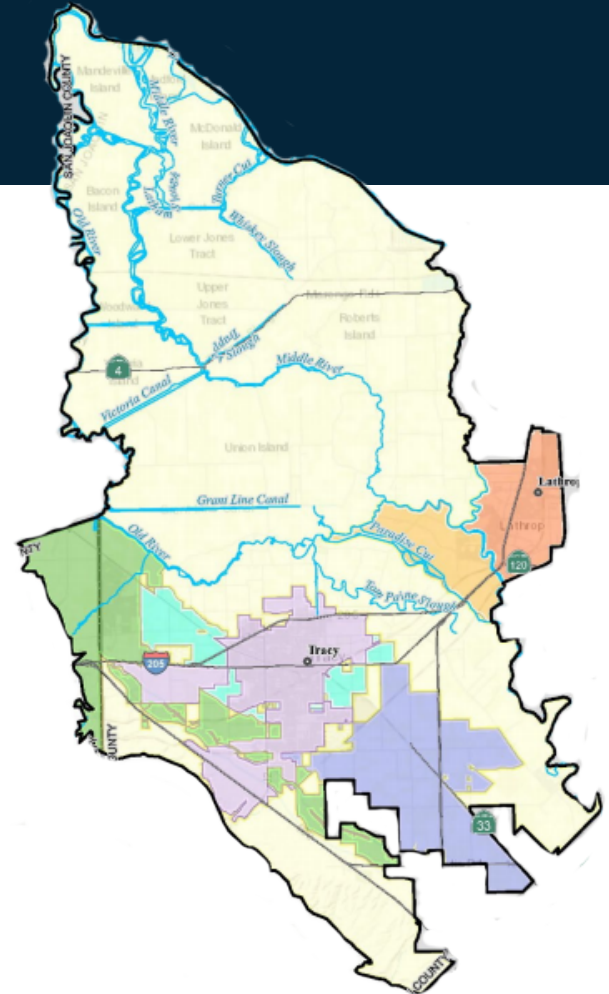
# GSP Annual Budget – Through FY24-25

Description	FY2021-22	FY2022-23	FY2023-24	FY2024-25	Total Expenses	FY 21-22 thru FY 24-25 Budgets versus Actual
<b>EXPENSES</b>						
<b>Regulatory Requirements</b>						
Annual Reports	\$70,000	\$50,000	\$50,000	\$50,000	\$260,494	(\$40,494)
GSP Revisions (DWR comments)			\$50,000		\$477	\$49,523
5-Year GSP Update					\$97,444	(\$97,444)
Spreadsheet Model/ <i>Water Quality</i>			\$100,000	\$100,000	\$66,036	\$133,964
DMS maintenance	\$20,000	\$20,000	\$20,000	\$20,000	\$52,739	\$27,261
Data Gaps: TSS wells	\$15,000				\$50,939	(\$35,939)
GDE/ <i>SW</i> / Assessment			\$30,000		\$1,816	\$28,184
<b>Program Management and Administrative Expenses</b>						
TSb Tech Coordination Meetings and Public Outreach (Sum)	\$16,980	\$16,980	\$16,980	\$16,980	\$43,987	\$23,933
Administrative (SJCo with assist from Stantec)	\$50,000	\$50,000	\$50,000	\$50,000	\$208,850	(\$8,850)
<b>Project and Management Actions</b>						
Management Action 1: Amend Well Ordinance		\$10,000	\$10,000		\$5,724	\$14,276
<b>Total Expenses</b>	<b>\$171,980</b>	<b>\$146,980</b>	<b>\$326,980</b>	<b>\$236,980</b>	<b>\$788,506</b>	<b>\$94,414</b>

Note: FY 23-24 has not ended. Actual costs will vary with completion of work through June 30 2024

May 16, 2024

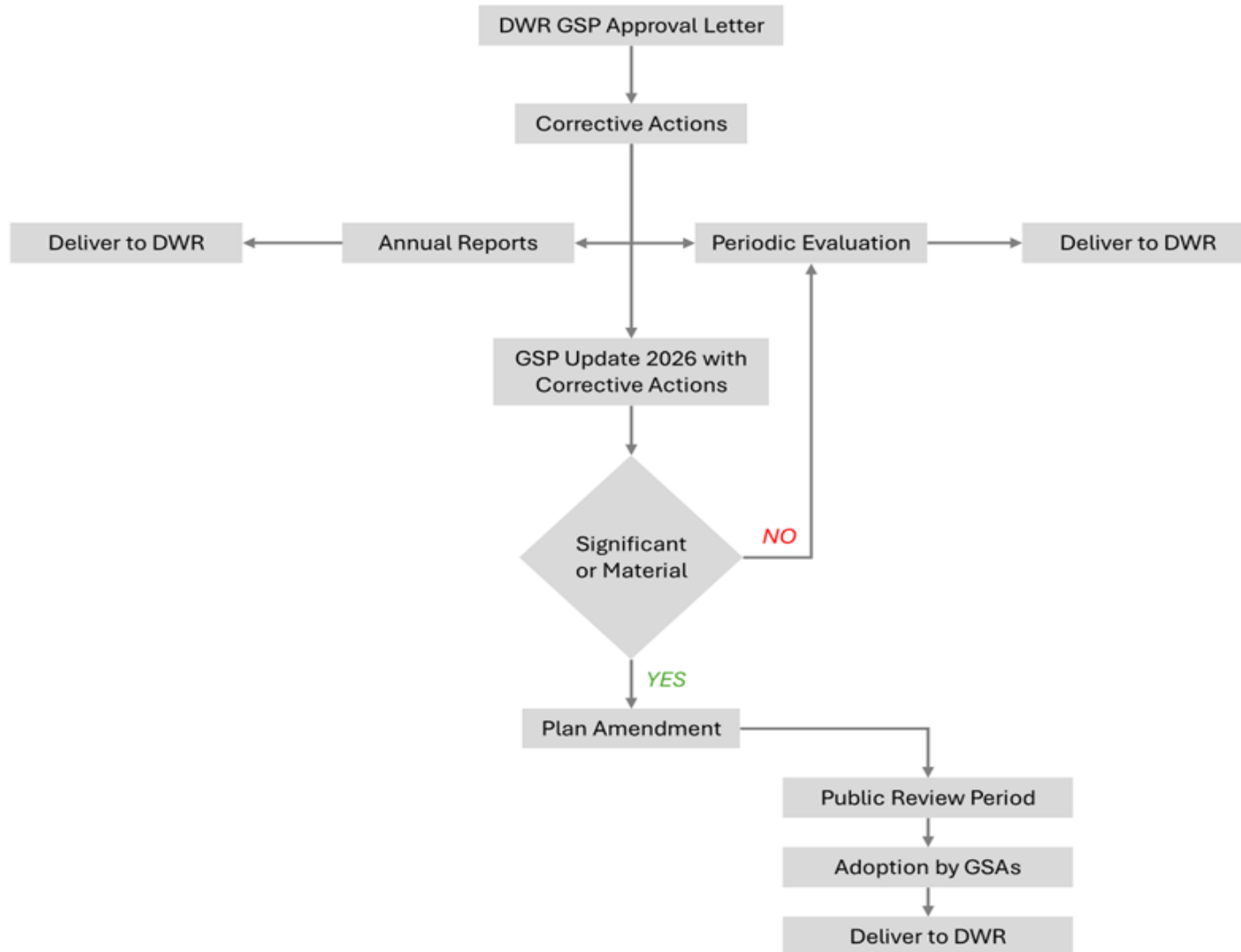
# Item D FY 24-25 Expenses



# General - Proposed GEI Services

- In 2023, DWR Approved TSb GSP
- In 2023, DWR releases guidance document for Annual Reports, Periodic Evaluations and Plan Amendments
- Primary focus this year is addressing corrective actions in preparation to either update the GSP or do a Plan Amendment

# Corrective Actions



# GEI Proposed Services

- Task 1: Annual Report
- Task 2: TSS Support
- Task 3: Management Action #1 – Well Ordinance
- Task 4: DMS and Website Maintenance
- Task 5: Public Outreach
- Task 6: Addressing Corrective Actions
  - Task 6.1: Review Correct Actions with DWR
  - Task 6.2: Water Budget
  - Task 6.3 Delta Management Area
  - Task 6.4 Revise Sustainable Management Criteria
  - Task 6.5 Surface Water Depletion Monitoring Network
  - Task 6.6 Groundwater Quality

# GEI Budget

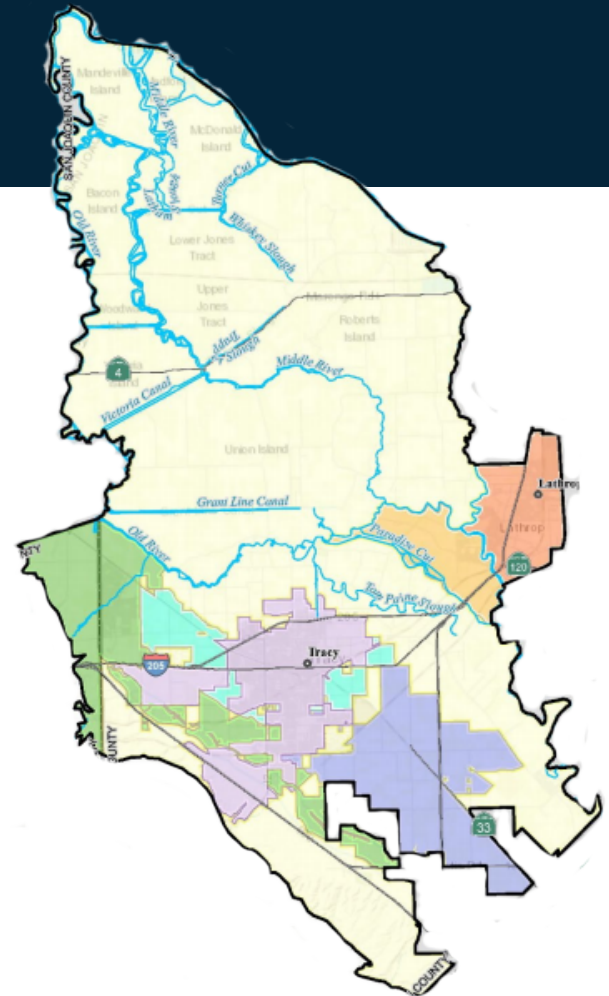
Task No.	Description	Subtotals		Expenses	Total Cost	
		Hrs	Cost			
<b>TASK 1 - Annual Report</b>		253	\$56,299	\$0	\$56,299	
<b>TASK 2 - Technical Support Services (TSS)</b>		22	\$4,740	\$0	\$4,740	
<b>TASK 3 - Management Action #1: Amend Well Ordinance</b>		18	\$5,724	\$0	\$5,724	
<b>TASK 4 - DMS and Website Upgrades and Maintenance</b>		40	\$9,336	\$1,150	\$10,486	
<b>TASK 5 - Public Outreach</b>		32	\$10,176	\$0	\$10,176	
<b>TASK 6.1 - Review Corrective Actions with DWR</b>		17	4,430	0	\$4,430	
<b>TASK 6.2 - Water Budget (CA #1)</b>		205	46,993	0	\$46,993	
<b>TASK 6.3 - Delta Management Area (CA #2a-c)</b>		66	14,784	0	\$14,784	
<b>TASK 6.4 - Revise Sustainable Management Criteria (CA #3a-c)</b>		307	55,519	0	\$55,519	
<b>TASK 6.5 - Surface Water Depletion Monitoring Network (CA #6b-d)</b>		50	11,106	0	\$11,106	
<b>TASK 6.6 - Groundwater Quality (CA #7a)</b>		10	2,704	0	\$2,704	
		<b>Total</b>	<b>1,020</b>	<b>\$221,811</b>	<b>\$1,150</b>	<b>\$222,961</b>

# Stantec Proposed Services

- Support of San Joaquin Administration
  - Task 1: Project Management
  - Task 2: Committee Meetings
  - Task 3: Website Support
- Total Budget \$29,722
- FSS DWR contract also contributing
- In development – additional support services for Corrective Actions

May 16, 2024

# Item D FY 24-25 Revenue



# GSP Annual Revenue – Data Inputs

## Tracy Subbasin GSP 5-Year Implementation Revenue (Non-Delta Management Area)

Revision Date: Revision Date: 5-9-24

Data				
GSA	Acres (Total Subbasin)	Acres (non- Delta)	Population (2020 ACS and DOF 2024)	Groundwater Pumping WY 2023-24 (AFY)
Byron-Bethany Irrigation District	22,384	15,798	30,992	0
BBID (Alameda County)		6,586	299	0
Banta-Carbona Irrigation District	16,657	16,657	3,559	0
City of Lathrop	7,655	7,655	25,923	3,700
City of Tracy	16,541	16,541	96,609	800
Stewart Tract	6,072	6,072	11,110	0
County of San Joaquin (Zone 2)	169,271	49,298	17,609	4,200
<b>Total</b>	<b>238,580</b>	<b>118,607</b>	<b>186,101</b>	<b>8,700</b>

# Revised Final – Revenue Allocation

GSAs	Editable Percents				Max Zone 2 Revenue	Zone 2 County Funded Credit	Total GSA Shared Fund Contribution	Total Funding
	0.6	0.2	0.2		\$85,000			
	Based on Net Groundwater Pumping	Based on Acreage	Based on Population	Subtotal				
Byron-Bethany Irrigation District	\$0	\$6,233	\$7,793	\$14,026	(\$1,675)	\$15,702	\$18,375	
BBID (Alameda County)	\$0	\$2,598	\$75	\$2,674		\$2,674		
Banta-Carbona Irrigation District	\$0	\$6,572	\$895	\$7,467	(\$1,766)	\$9,233	\$9,233	
City of Lathrop	\$59,705	\$3,020	\$6,518	\$69,244	(\$812)	\$70,056	\$70,056	
City of Tracy	\$12,909	\$6,526	\$24,293	\$43,728	(\$1,754)	\$45,482	\$45,482	
Stewart Tract	\$0	\$2,396	\$2,794	\$5,189	(\$644)	\$5,833	\$5,833	
County of San Joaquin (Zone 2)	\$67,774	\$19,450	\$4,428	\$91,652	\$91,652		\$85,000	
<b>Total</b>	<b>\$140,388</b>	<b>\$46,796</b>	<b>\$46,796</b>	<b>\$233,980</b>	<b>\$85,000</b>	<b>\$148,980</b>	<b>\$233,980</b>	



CALIFORNIA DEPARTMENT OF WATER RESOURCES

# SUSTAINABLE GROUNDWATER MANAGEMENT OFFICE

715 P Street, 8<sup>th</sup> Floor | Sacramento, CA 95814 | P.O. Box 942836 | Sacramento, CA 94236-0001

January 18, 2024

Fritz Buchman  
San Joaquin County Public Works  
P.O. Box 1810  
Stockton, CA 95205  
[ESJGroundwater@sjgov.org](mailto:ESJGroundwater@sjgov.org)

RE: San Joaquin Valley – Tracy Subbasin – 2022 Groundwater Sustainability Plan

Dear Fritz Buchman,

The Department of Water Resources (Department) has evaluated the groundwater sustainability plan (GSP or Plan) submitted for the San Joaquin Valley – Tracy Subbasin and has determined the GSP is approved. The approval is based on recommendations from the Staff Report, included as an exhibit to the attached Statement of Findings, which describes that the Subbasin GSP satisfies the objectives of the Sustainable Groundwater Management Act (SGMA) and substantially complies with the GSP Regulations. The Staff Report also proposes recommended corrective actions that the Department believes will enhance the GSP and facilitate future evaluation by the Department. The Department strongly encourages the recommended corrective actions be given due consideration and suggests incorporating all resulting changes to the GSP in future updates.

Recognizing SGMA sets a long-term horizon for groundwater sustainability agencies (GSAs) to achieve their basin sustainability goals, monitoring progress is fundamental for successful implementation. GSAs are required to evaluate their GSPs at least every five years and whenever the Plan is amended, and to provide a written assessment to the Department. Accordingly, the Department will evaluate approved GSPs and issue an assessment at least every five years. The Department will initiate the first periodic review of the Subbasin GSP no later than January 28, 2027.

Please contact Sustainable Groundwater Management staff by emailing [sgmps@water.ca.gov](mailto:sgmps@water.ca.gov) if you have any questions related to the Department's assessment or implementation of your GSP.

Thank You,

*Paul Gosselin*

---

Paul Gosselin  
Deputy Director  
Sustainable Groundwater Management

Attachment:

1. Statement of Findings Regarding the Approval of the San Joaquin Valley – Tracy Subbasin Groundwater Sustainability Plan

## 5 STAFF RECOMMENDATION

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Department staff recommend approval of the GSP with the recommended corrective actions listed below. The Tracy Subbasin GSP conforms with Water Code Sections 10727.2 and 10727.4 of SGMA and substantially complies with the GSP Regulations. Implementation of the GSP will likely achieve the sustainability goal for the Tracy Subbasin. The GSAs have identified several areas for improvement of their Plan and Department staff concur that those items are important and should be addressed as soon as possible. Department staff have also identified additional recommended corrective actions that should be considered by the GSAs for the first periodic evaluation of the GSP. Addressing these recommended corrective actions will be important to demonstrate that implementation of the Plan is likely to achieve the sustainability goal. The recommended corrective actions include:

### RECOMMENDED CORRECTIVE ACTION 1

Revise the current water budget information to include the most recent conditions or most recent available conditions.

### RECOMMENDED CORRECTIVE ACTION 2

Provide additional information related to the management areas as follows:

- a. Clearly define the differences between the Primary Zone, as defined in the Delta Protection Act, and the Delta Management Area, as defined in the GSP, and clarify and expand the rationale for concluding that no undesirable results are likely to occur within these areas during the Plan implementation horizon.
- b. Develop a plan to monitor for changes in conditions, land use, new information or regulatory parameters impacting the Delta Management Area, and overall increases in groundwater use within the Delta Management Area. Using this information, continually reassess in each periodic evaluation of the GSP the continuing appropriateness of the assumptions supporting the GSP's determination that undesirable results have not occurred and are not likely to occur for all sustainability indicators defined by SGMA. As part of this process, continue to foster interbasin coordination and work with adjacent basins towards developing a common approach for groundwater management within the legal Delta that considers how actions within each basin affect the ability of adjacent basins to implement their Plans.

### RECOMMENDED CORRECTIVE ACTION 3

Update the sustainable management criteria for the chronic lowering of groundwater levels as follows:

- a. Remove the water-year type requirement from the GSP's undesirable result definition. Department staff believe the management approach described in the GSP, which couples minimum thresholds that account for operational flexibility during dry periods with a definition of undesirable results that disregards minimum threshold exceedances in all years except consecutive below normal, above normal, or wet years, to be inconsistent with sustainable groundwater management under SGMA.
- b. Revise the GSP to include and describe in detail specific projects and management actions the GSAs would implement to offset drought-year groundwater level declines.
- c. Consider the extent of potential impacts to domestic well users throughout the Subbasin, and not just at select representative monitoring sites, and document the percentage, number, and location of all potentially impacted wells in the Subbasin at the proposed minimum thresholds for chronic lowering of groundwater levels.

#### **RECOMMENDED CORRECTIVE ACTION 4**

Update the sustainable management criteria for degraded water quality as follows:

- a. Revise the definition of undesirable results so that exceedances of minimum thresholds caused by groundwater extraction or other factors are considered in the assessment of undesirable results in the Subbasin.
- b. Define criteria that will be used to determine whether undesirable results due to degraded water quality associated with boron are occurring, which should be based on a quantitative description of the combination of minimum threshold exceedances that cause significant and unreasonable effects in the Subbasin.

#### **RECOMMENDED CORRECTIVE ACTION 5**

Define criteria that will be used to determine whether undesirable results due to land subsidence are occurring, which should be based on a quantitative description of the combination of minimum threshold exceedances that cause significant and unreasonable effects (e.g., impairment of the operation or functioning of canals, levees, and other surface uses) in the Subbasin.

#### **RECOMMENDED CORRECTIVE ACTION 6**

Department staff understand that estimating the location, quantity, and timing of stream depletions due to ongoing, Subbasin-wide pumping is a complex task and that developing suitable tools may take additional time; however, it is critical for the Department's ongoing and future evaluations of whether GSP implementation is on track to achieve sustainable groundwater management. The Department plans to provide guidance on methods and approaches to evaluate the rate, timing, and volume of depletions of interconnected

surface water and support for establishing specific sustainable management criteria in the near future. This guidance is intended to assist GSAs to sustainably manage depletions of interconnected surface water.

In addition, the GSAs should work to address the following items by the first periodic update:

- a. Continue to fill data gaps, collect additional monitoring data, and implement the current strategy to manage depletions of interconnected surface water and define segments of interconnectivity and timing.
- b. Prioritize collaborating and coordinating with local, state, and federal regulatory agencies as well as interested parties to better understand the full suite of beneficial uses and users that may be impacted by pumping induced surface water depletions within the GSA's jurisdictional area.
- c. Consider utilizing the interconnected surface water guidance, as appropriate, when issued by the Department to establish quantifiable minimum thresholds, measurable objectives, and management actions.

#### **RECOMMENDED CORRECTIVE ACTION 7**

Provide additional information related to the monitoring networks as follows:

- a. Provide well construction information, monitoring frequencies, and constituents to be sampled for the overall groundwater quality monitoring network.
- b. Explore the feasibility of including surface flow gaging stations in the interconnected surface water monitoring network or identify groundwater level objectives that would be protective of surface water flows.

May 9, 2024



Consulting  
Engineers and  
Scientists

Mr. Alex Chetley  
Water Resources Division  
San Joaquin County Public Works  
1810 E. Hazelton Avenue  
P.O. Box 1810  
Stockton CA 95201

**Subject: Draft - On-Call Services FY2024-25, Tracy Subbasin GSP Implementation**

Dear Mr. Chetley:

GEI Consultants, Inc. (GEI) has prepared this proposal to assist San Joaquin County Flood Control and Water Conservation District (District) to support the implementation of the Groundwater Sustainability Plan (GSP) for the Tracy Subbasin (TSb or Subbasin). This proposal describes these services.

### PROJECT SCOPE AND APPROACH

The following six tasks and five subtasks describe the services to be provided for the fiscal year (FY) 2024-2025 (FY 24-25), from July 1, 2024 through June 30, 2025.

#### Task 1: Annual Report

The Groundwater Sustainability Management Act (SGMA) and the GSP Emergency Regulations require that all groundwater basins who have adopted GSPs submit annual reports summarizing the groundwater conditions in relation to sustainability indicators by April 1, 2025. The annual report is for water year 2023-24 (October 1, 2023 through September 30, 2024).

GEI will prepare the annual report for the Non-Delta Management Area to include the following:

- Documentation of general information; including, an executive summary and a location map depicting the subbasin covered by the report.
- Assessment of the type of water year by obtaining the San Joaquin River Index and water year classification.
- Obtain and tabulate groundwater production data from the cities of Lathrop and Tracy to be reported as actual groundwater use. If possible, download the data from submittals to SWRCB for drought management program.
- Compile and tabulate measured surface water diversions by Banta-Carbona and Byron-Bethany Irrigation Districts, and imports by the cities of Lathrop and Tracy.
- Obtain and tabulate surface water diversions from SWRCB water diversion website for Nagle-Burk Irrigation District, Pescadero Reclamation District (RD 2058), and Paradise Mutual Water Company.
- Compile and tabulate measured recycled water reuse.
- Estimate groundwater pumping by agriculture in the Non-Delta Management areas of the TSb by utilizing monthly eeMETRIC evapotranspiration data obtained from Open ET. The data sets will be processed by the TSb Groundwater Sustainability Agencies (GSA's) to obtain annual evapotranspiration, minus annual surface water deliveries (provided by each GSA) with the residual being groundwater pumping.

- Obtain groundwater level measurements from California Department of Water Resources (DWR) monitoring network module and from reports sent to the Regional Water Quality Control Board (RWQCB) and process the data to prepare hydrographs for each of the representative monitoring wells and compare those measurements to minimum thresholds and measurable objectives established in the GSP along with hydrographs for all Subbasin monitoring network wells. The groundwater levels will be stored in the TSB data management system (DMS), and it will be used to process and prepare the hydrographs.
- Develop groundwater elevation contour maps for spring 2024 and fall 2024 for the two principal aquifers.
- Create fall change in groundwater in storage maps for the two principal aquifers in the subbasin.
- Prepare a map showing the distribution of estimated and actual groundwater pumping by GSA.
- Obtain InSAR annual rate of subsidence processed by DWR for the TSB.
- Obtain water quality data to tabulate the results in comparison to minimum thresholds and measurable objectives.
- Prepare the text portion of the annual report which will include 1) the progress toward the Plan implementation and Projects and Management Action, and 2) filling of data gaps.
- Provide a draft report for all GSAs to review and comment. Incorporate comments in the report and finalize.
- Upload the report to DWR's website before April 1, 2025.

In addition to preparing the Annual Report, GEI will prepare fiscal budget for WY 2025-26, using groundwater extraction information contained in the report.

**Assumption:** The GSAs will provide the pumping and surface water supply information for October 1, 2023, through September 30, 2024, to GEI by November 15, 2024. Open ET (funded by DWR) monthly ET information for October 1, 2023, through September 30, 2024 will be available at no cost to GEI by November 15, 2024. A draft Annual Report will be provided to the GSA about January 31, 2025, for review and comment by the GSAs. After addressing relevant comments, GEI will upload the Annual Report to DWR by April 1, 2025.

**Deliverables:** Draft and Final 2023-24 Annual Report.

### Task 2: Technical Support Services (TSS)

GEI developed applications to seek TSS support from DWR for construction of five new monitoring wells in the Subbasin on GSA or water district lands. A location for the sixth planned monitoring well has not been located. Wells have been completed at two sites, another well is planned to start in mid-April and state budget dependent, complete the remaining three sites before the end of the State's fiscal year. TSS funding does not require the GSA to provide in-kind or cost matching but does require GSAs to obtain well permits and provide other minor support services. GEI has prepared well permit application for each of the GSAs for five of the sites. GEI will continue to support this effort by including:

- Review electric logs and coordinate with DWR on the final designs for each well site.
- Prepare a well permit application for the one remaining monitoring well.

- Prepare groundwater monitoring reporting forms and supporting graphics to plot the data for easy quality control assessments.
- Train GSAs to upload the measurement to the State's SGMA data viewer.

**Assumption:** District or GSAs will pay for well permits fees. DWR will prepare CEQA documentation.

**Deliverables:** Draft and Final Well Permit.

### Task 3: Management Action #1: Amend Well Ordinance

A management action was proposed in the GSP to potentially modify the County's Well Ordinance to 1) Create surface water depletion protection zones near rivers and sloughs. Include minimum sanitary seal and screen depth requirements to limit direct interconnection to surface water and surface water depletion benefitting surface water species and groundwater dependent ecosystems, and 2) Establish well spacing requirements for high-capacity irrigation or municipal wells from domestic wells to prevent having dry domestic wells reported in the Subbasin. It was planned that these activities would occur over a two-year period with the first step being to assess how other agencies have approached setting requirements and the second to provide technical support. To assist the County in these efforts GEI will:

- Review the County's existing well ordinance and assess whether these proposed requirements are already addressed or where the permit might be modified to incorporate such changes.
- Review new Draft California Well Standards and provide a list of new requirements and whether the County well permit meets or exceeds the new proposed standard.
- Meet with County well permitting agency personnel to discuss how and when they plan to update their well ordinance with new California Well Standards. Discuss whether Governor EO N-4-23 (which requires that new well not affect the capacity of existing wells and approval by GSAs that the well will not affect the sustainability of the subbasin) may become permanent. Discuss options and of how the County might be able to incorporate the potential management actions into their well permitting ordinance and what type of additional documentation or studies are needed.

The results of this work are to provide an informed foundation of how potential changes could occur to the County's well ordinance with potential additional studies to provide supportive material prior to changes occurring within the next two to three years.

**Assumption:** County to arrange one meeting with their well permitting agency personnel and GEI.

**Deliverables:** Meeting notes summarizing the discussions, options and present the discussions at one of the GSA technical committee meetings.

### Task 4: Data Management System and Website Maintenance

GEI designed and prepared a website that included a Groundwater Communication Portal (GCP) in FY 2019-20 to help the TSB GSAs to fulfill the stakeholder and engagement requirements of the SGMA and the accompanying GSP regulations. A DMS was also developed to store groundwater use, groundwater level and water quality data.

This scope of services describes the elements to upgrade and maintain the Tracy Subbasin website and DMS. The website and DMS are currently stored on GEI servers. GEI has developed and purchased a client on a unique URL for the website. As part of this task, GEI will:

- Continue to host the website and Groundwater Communications Portal and pay the URL fee for FY 24-25.
- Import groundwater levels from wells under RWQCB regulatory programs into the DMS.
- Export groundwater levels from the DMS to the State's Monitoring Network Module in the spring and fall.
- Continue to maintain the TSb website.
- Provide minor upgrades to the website as requested based on time and materials basis.

**Assumption:** GEI will continue to host the website and DMS on GEI servers for a fee of \$1,000 annually. Post meeting notices, agenda and outreach documentation to the website will be performed by Stantec under a separate contract with the County. More extensive upgrades may require additional funding.

**Deliverables:** Working and updated website and DMS.

### Task 5: Public Outreach

During the year, several meetings will be required to share information. GEI will:

- Attend a meeting with DWR to discuss the results of the revised C2VSim model which is projected to be completed in Fall 2024. Identify the suitability and effort needed to use the model for water budgeting or whether a spreadsheet approach should be undertaken.
- Prepare and attend 24 bi-weekly project management meetings to coordinate preparation of annual reports, monthly and quarterly meetings.
- Prepare and present at four monthly Technical Committee meetings, during Annual Report preparation and release.
- Prepare and present at three quarterly Technical Committee meeting.
- Prepare the findings of the Annual Report and present at one public meeting.

**Assumption:** All meetings will be virtual, no travel required. Weekly project management meetings will be held one-month prior to the anticipated meetings to develop agendas, organize and develop assignments for presentation materials. Stantec will develop meeting agendas, meeting notes and advertisements for the meetings under a separate contract.

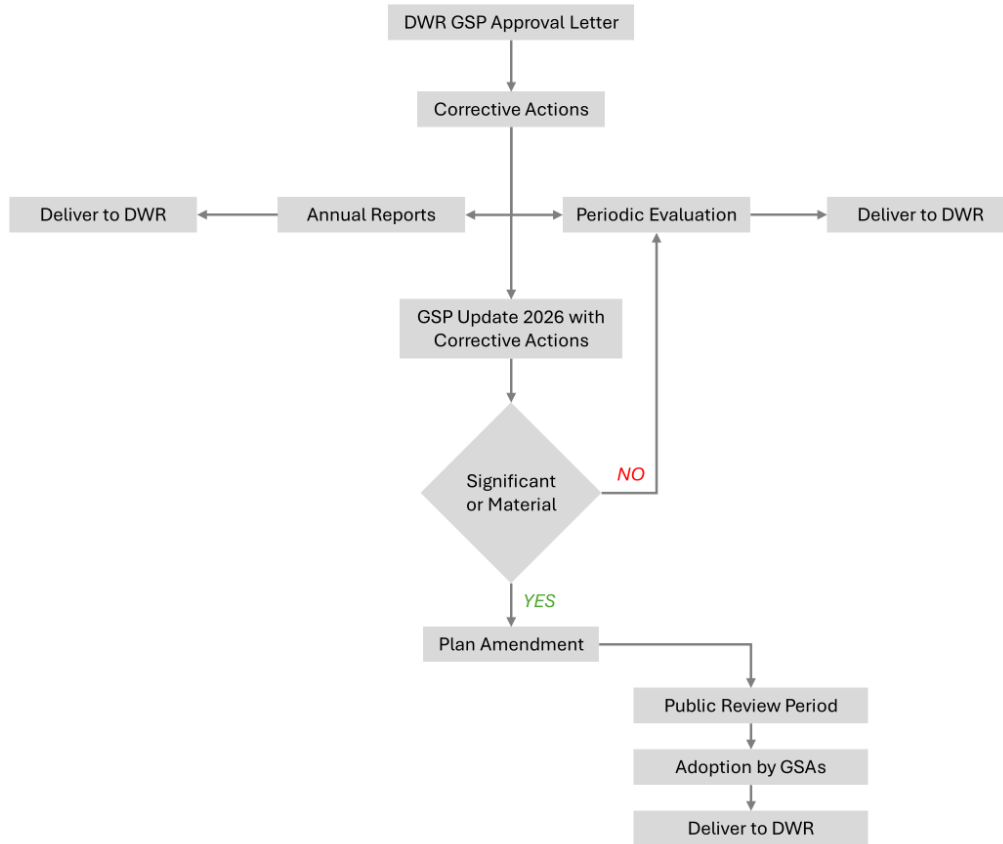
**Deliverables:** Components for Board packages and meeting presentations.

### Task 6 – GSP Corrective Actions

GEI submitted, with GSA approval, the adopted GSP to DWR on January 26, 2022. DWR approved of the Tracy Subbasin Groundwater Sustainability Plan (GSP) on January 18, 2024. DWR will initiate the first periodic review of the GSP no later than January 28, 2027. The approval letter contained seven corrective actions which are to be completed before the first periodic evaluation, essentially within 17 months, but if by addressing these corrective actions results in significant or material changes to the GSP, then a Plan Amendment will have to be re-adopted which will occur potentially between January 1, 2026 and December 31, 2026. It is discretion of the GSA whether they consider the changes to be significant or material and recommend consulting with your general counsel. **Figure 1** shows flow path of addressing the Corrective Actions and how those tie to other activities and decisions. **Figure 2** provides a schedule for these activities if the GSP modifications are deemed significant or material by

the GSAs and their general counsel. Until the revisions are made to the GSP it will not be know if they will require a Plan Amendment and re-adoption; therefore, for planning purposes this worst-case scenario must be used to accomplish the work required in a timely manner.

**Figure 1. Corrective Action Flow Chart**



**Figure 2. Potential Plan Amendment Schedule**

Item	FY24-25				FY 25-26				FY 26-27		
	Q3 24	Q4 24	Q1 25	Q2 25	Q3 25	Q4 25	Q1 26	Q2 26	Q3 26	Q4 26	Q1 27
<b>GSP Amendment Schedule</b>											
Address Corrective Actions											
GSP to GSAs for review											
GSA comments incorporated											
General Counsel Review Determination Substantial											
GSP Approved for Release											
GSP 90-day public review comment period											
GSAs Adoption Period											
GSP Revision Due Date											
Periodic Evaluation Preparation											
Periodic Evaluation Due Date											
Annual Report Preparation											

**Table 1** provides a summary list of the corrective actions (CA) and the potential schedule to accomplish the work before December 31, 2025 to meet the schedule presented in **Figure 2**. The following subtasks describe the corrective actions efforts that will take place in FY 24-25.

**Table 1: Summary of Corrective Actions**

#	Recommended Corrective Action	Start Date	End Date	FY 24-25	FY 25-26
1	Revise the current water budget information to include the most recent available conditions	1/2/2025	6/30/2025		
2a	Clarify and expand the rationale for concluding no undesirable results are likely to occur in the Delta Management Area within Plan implementation horizon.	9/2/24	12/31/24		
2b	Develop a plan to monitor for changes in conditions, land use, new information or regulatory parameters impacting the Delta Management Area, and overall increases in groundwater use within the Delta Management Area and reassess in each periodic evaluation of the GSP the continuing appropriateness of the assumptions supporting the GSP's determination that undesirable results have not occurred and are not likely to occur.	1/2/25	3/31/25		
2c	Work with adjacent basins towards developing a common approach for groundwater management within the legal Delta that considers how actions within each basin affect the ability of adjacent basins to implement their Plans.	7/1/24	9/1/24		
3a	Remove the water-year type requirement from the GSP's undesirable result definition to be consistent with sustainable groundwater management under SGMA.	7/1/2024	9/1/2024		
3b	Revise the GSP to include and describe in detail specific projects and management actions the GSAs would implement to offset drought-year groundwater level declines.	9/2/2024	12/31/2024		
3c	Consider the extent of potential impacts to domestic well users throughout the Subbasin, and not just at select representative monitoring sites, and document the percentage, number, and location of all potentially impacted wells in the Subbasin at the proposed minimum thresholds for chronic lowering of groundwater levels.	1/2/2025	6/30/2025		
4a	Revise the definition of undesirable results so that exceedances of minimum thresholds caused by groundwater extraction or other factors are considered in the assessment of undesirable results in the Subbasin.	7/1/25	9/30/25		
4b	Define criteria that will be used to determine whether undesirable results due to degraded water quality associated with boron are occurring, which should be based on a quantitative description of the combination of minimum threshold exceedances that cause significant and unreasonable effects in the Subbasin.	10/1/25	12/31/25		
5	Define criteria that will be used to determine whether undesirable results due to land subsidence are occurring, which should be based on a quantitative description of the combination of minimum threshold exceedances that cause significant and unreasonable effects (e.g., impairment of the operation or functioning of canals, levees, and other surface uses) in the Subbasin.	7/1/2025	9/30/2025		
6a	The Department plans to provide guidance on methods and approaches to evaluate the rate, timing, and volume of depletions of interconnected surface water and support for establishing specific sustainable management criteria in the near future. Department understands that estimating the location, quantity, and timing of stream depletions is a complex task and that developing suitable tools may take additional time; however, it is critical piece for evaluations of whether GSP implementation is on track to achieve sustainable groundwater management.	7/1/25	10/30/25		
6b	Continue to fill data gaps, collect additional monitoring data, and implement the current strategy to manage depletions of interconnected surface water and define segments of interconnectivity and timing.	6/1/24	10/30/25		
6c	Prioritize collaborating and coordinating with local, state, and federal regulatory agencies as well as interested parties to better understand the full suite of beneficial uses and users that may be impacted by pumping induced surface water depletions within the GSA's jurisdictional area.	7/1/24	10/30/25		
6d	Consider utilizing the interconnected surface water guidance, as appropriate, when issued by the Department to establish quantifiable minimum thresholds, measurable objectives, and management actions.	1/2/25	10/30/25		
7a	Provide well construction information, monitoring frequencies, and constituents to be sampled for the overall groundwater quality monitoring network.	7/1/2024	12/31/2024		
7b	Explore the feasibility of including surface flow gaging stations in the interconnected surface water monitoring network or identify groundwater level objectives that would be protective of surface water flows.	7/1/2025	12/31/2025		

Note: Full description of Corrective Actions contained in DWR letter of determination

### Task 6.1 – Review Corrective Actions with DWR

Before starting revisions to the GSP GEI will arrange a meeting with DWR and GSAs to discuss the Corrective Actions and our potential approaches to address these issues. GEI will release a doddle poll to arrange a meeting time.

Key questions for DWR are:

- The status of the C2VSim model release and if model runs are available and whether they have incorporated climate change scenarios.
- Providing sensitive well construction information for the water quality monitoring network.
- Approach and how to return to DWR findings of domestic wells in the subbasin and their minimum depths.

**Assumption:** The meeting will occur at DWR's Sacramento offices.

**Deliverables:** Meeting agenda and meeting minutes.

### Task 6.2 – Water Budget (CA #1)

The TSb GSP used DWR's C2VSim groundwater model to develop a water budget for the Subbasin. However, the model showed inconsistencies and improvements to the model were recommended by

GEI. In February 2023, GEI and some of the GSA representatives meet with DWR to discuss how to improve the model. As a result of the meeting water supply information from the water agencies and irrigation districts were transferred to DWR and potential model boundaries for the Delta and Non-Delta Management Areas. DWR was updating the model through 2019. DWR's most recent projection of the release of the groundwater model is Fall 2024.

Although the Corrective Actions only require development of a current water budget, the work should also include development of a projected budget covering the next 50 years, as with the significant changes in the updated model this could result in different predictions of the future. Projects and management actions may need to be updated based on the projected model runs. GEI in FY 24-45 will:

- Acquire a copy of the model
- Overlay model grid onto GSA areas to assign model elements to GSA areas/subgroups
- Separate the model output by principal aquifer where possible
- Run C2VSIM to get model output by subgroups (to confirm the model reflects GSA data appropriately)
- Compare model output to non-model data for each GSA:
  - Demands
  - Surface water diversions and imports
  - Groundwater pumping
- Check the model data files:
  - Surface water diversion data
  - River diversion locations
  - Model elements (subgroups) to make sure surface water supplies assigned to correct GSA (model elements)
  - Groundwater pumping
- Produce groundwater contour maps for comparison to actual conditions.
- Review calibration wells and to determine if they are representative and appropriate to use for each principal aquifer.
- Share results of this analysis with GSAs and identify incorrect or missing data, to have the GSAs confirm the input and output data, that we are comfortable with using the data for future modeling runs. The input and output data check will include:
  - Demands
  - Surface water diversions (diversions and imports)
  - Groundwater pumping
- Based on the historic water budget, obtain the sustainable yields for each principal aquifer.
- Extract and develop for simulated rivers and creeks monthly historic surface water depletions.
- Revise GSP sections regarding the Sustainable Yield, Hydrologic Periods (precipitation record), model description, Historical and Current Water Budget sections.

We anticipate the Projected Water Budgets (50 years into the future), with and without climate change, will be made in FY 25-26 to determine whether the Subbasin is in surplus or deficit. These model runs will include projects currently being implemented, climate change and will indicate whether the groundwater in the Subbasin will be in surplus or deficit. The outcome of the model may require a reassessment of projects and management actions. Additional sections of the GSP section will be updated at this time.

**Assumptions:** Development of the water budget will take two fiscal years to develop. FY 24-25 efforts are the itemized tasks listed above to develop the current water budget and verify the water supply values are correct. FY 25-26 will be to develop the Projected Water Budgets (50 years into the future) model runs. Our assumptions are that DWR have corrected the supply data and the model is essentially working properly and is representative of the Subbasin conditions.

**Deliverables:** Tabulated water budgets for each GSA by principal aquifer. Updated GSP sections.

### Task 6.3 – Delta Management Area (CA #2a-c)

Corrective Action 2 is to address the Delta Management Area. GEI will initiate this subtask to address CA 2c first:

- Review adjacent Subbasin's GSP for how they have addressed groundwater management within the legal Delta.
- Develop a comparison of commonalities, with adjacent subbasins including estimates of groundwater pumping, and how actions within each adjacent subbasin affects the ability to implement their plans.
- Meet with adjacent Subbasins to discuss our findings, how they proposed to sustainably manage the delta island portions of their subbasin and a potential common approach to manage within the Delta area.

Based on these discussions GEI will lead a discussion with the GSAs to confirm or change the Delta Management Area.

This work will then be followed by clarifying and expanding the rationale that no undesirable results will likely occur within the Delta Management Area (CA 2a and 2c). GEI will:

- Refine GSP Section 6.0, Management Areas, to include additional rationale that no undesirable results are likely to occur.
- Meet with South and Central Water Agencies to develop a plan of how to monitor changes in land use, new information and regulatory parameters in the Delta Management Area and whether they would be willing to provide a periodic evaluation (once every five years) summarizing these items to support continuation of the Delta Management Area being excluded from groundwater management in the Subbasin.
- Meet with San Joaquin County Environmental Health Department to develop a plan to obtain well construction permits in the Delta Management Area on an annual basis to track the development of new groundwater extraction.
- Meet with San Joaquin Planning Department to have them transmit any development plans within the Delta Management Area.

**Assumptions:** San Joaquin County will assist to arrange and attend meetings with adjacent subbasins, water agencies San Joaquin County departments.

**Deliverables:** Revised GSP Sections 6.0 with additional rational regarding no undesirable results, a plan to monitoring for changes, a discussion of other subbasins management approaches in the Delta Management Area.

#### Task 6.4 – Revise Sustainable Management Criteria (CA #3a-c)

Corrective Action 3 has three components to be addressed. Some minor and some that will require more effort. The minor efforts include:

- Remove of exceptions for drought years from the definition of undesirable results.
- A description of how the GSAs will manage groundwater levels during droughts.

GEI will edit these sections of the GSP. We will prepare a paragraph describing conjunctive use/in-lieu groundwater management which is already occurring.

The action which will require more effort is to address potential impacts to domestic well users throughout the Subbasin and not just near representative wells. GEI will address this CA by:

- Review of DWR’s domestic well completion reports (WCRs), about 400 WCRs (with some cases of up to 141 wells per one square mile), and identify those wells that are not characterized properly, removing those logs that are for monitoring wells, wells not in the Subbasin, and wells that have been destroyed.
- Create a new minimum well depth map for the Subbasin (to replace Figure 3-14).
- Plot the minimum domestic well depths onto the minimum threshold groundwater contours map and illustrate where the minimum thresholds could result in domestic wells going dry.
- Prepare a written documentation to be inserted into the Sustainable Management Criteria, Chronic Lowering of Groundwater Levels analysis of undesirable results.

**Assumptions:** GSAs (Tracy, Lathrop and Stewart Tract) may be asked to confirm whether domestic wells, within municipal water supply service areas to confirm the presence or absence of domestic wells.

**Deliverables:** Revised GSP Sections 3.8, 9.3.1, 9.3.3 and associated figures.

#### Task 6.5 – Surface Water Depletion Monitoring Network (CA #6b-d)

Correction Action 6 has several components to address surface water depletion. Surface water depletion guidance documentation is being developed (3 separate documents) with the last document to be released in Fall 2024. Until then the full scope (6a) of what may need to be addressed is unknown. However, some planning work can occur in preparation for this CA. CA 6b is currently in progress with the planned addition of two monitoring wells through DWR’s Technical Services Support along with the planned assessment of surface water depletion from the C2VSim model.

CA6c, is requesting collaborating with local, state, and federal regulatory agencies to better understand the full suite of beneficial uses and users that may be impacted by pumping induced surface water depletions. GEI will:

- Extract from existing databases a list of beneficial users of surface water, including but not limited to fish, vegetation, birds and recreational.

- Develop a list of local, state, and federal regulatory agencies to arrange meetings with. Coordinate with the GSA to identify contacts within the identified agencies to reach out to.
- Develop an agenda for the meeting.

**Assumptions:** San Joaquin County and interested GSAs will attend the meeting. Stantec will provide doddle poll invites and coordinate the meeting location and distribution of meeting agenda and meeting minutes.

**Deliverables:** Table of beneficial users, list of potential agencies to meet with and an agenda.

### Task 6.6 – Groundwater Quality (CA #7a)

This corrective action is requesting a revision to the water quality monitoring network. Small community wells have been identified with work accomplished in FY 23-24 to expand the network. GEI will:

- Update GSP Section 8.5, Groundwater Quality Monitoring Network to expand the list of monitoring wells, frequency of monitoring and constituents to be sampled.
- Discuss with San Joaquin County whether the constituents analyzed for small community wells could be expanded to include total dissolved solids, nitrate and boron as some systems are not analyzing for all of the constituents.
- Discuss with the City of Lathrop and Tracy the addition of boron to the list of analytes and selected wells.
- Contact the San Joaquin County and Delta Water Quality Coalition to potentially add boron to their analyte list and to confirm their sampling schedule.

**Assumption:** San Joaquin County will assist to arrange and attend meetings.

**Deliverables:** Revised GSP Section 8.5.

### COST ESTIMATE

We propose to complete the project on a time-and-materials basis with a not-to-be exceeded total budget for \$184,384 as shown in the attached **Table 2. Table 3** provides the cost distribution by GSA based on the 2024-25 fiscal budget distribution. Attached is our 2024 Standard Rate Schedule.

We look forward to continuing to assist you with managing of your water resources. If you have any questions, please contact Richard Shatz via email at [RShatz@geiconsultants.com](mailto:RShatz@geiconsultants.com) or via phone at 916.631.4566.

Respectfully submitted,

**GEI Consultants, Inc.**



Richard W. Shatz, P.G., C.E.G., CH.G.  
Principal Hydrogeologist



Michael Cornelius, P.G.  
Vice President/Principal Geologist

**Table 2  
Summary of Costs  
On-Call Services 2024-25  
Tracy Subbasin**

Task No.	Description												Expenses		Total Cost
		Grade 8 (Cornelius)	Grade 7 (Shatz)	Grade 6	Grade 5 (Pascos, Irving)	Grade 4	Grade 3 (Storey)	Grade 2 (Espinoza, Yap)	Grade 1	CAD/GIS	Admin	Subtotals		Expenses	
												Hrs	Cost		
		\$356 /hr	\$318 /hr	\$267 /hr	\$235 /hr	\$199 /hr	\$177 /hr	\$162 /hr	\$147 /hr	\$177 /hr	\$132 /hr				
TASK 1 - Annual Report		8	76	0	0	0	101	0	0	54	14	253	\$56,299	\$0	\$56,299
TASK 2 - Technical Support Services (TSS)		0	6	0	0	0	16	0	0	0	0	22	\$4,740	\$0	\$4,740
TASK 3 - Management Action #1: Amend Well Ordinance		0	18	0	0	0	0	0	0	0	0	18	\$5,724	\$0	\$5,724
TASK 4 - DMS and Website Upgrades and Maintenance		0	16	0	0	0	24	0	0	0	0	40	\$9,336	\$1,150	\$10,486
TASK 5 - Public Outreach		0	32	0	0	0	0	0	0	0	0	32	\$10,176	\$0	\$10,176
TASK 6.1 - Review Corrective Actions with DWR		4	5	0	0	0	8	0	0	0	0	17	4,430	0	\$4,430
TASK 6.2 - Water Budget (CA #1)		7	69	0	0	8	107	0	0	4	10	205	46,993	0	\$46,993
TASK 6.3 - Delta Management Area (CA #2a-c)		0	22	0	0	0	36	0	0	8	0	66	14,784	0	\$14,784
TASK 6.4 - Revise Sustainable Management Criteria (CA #3a-c)		0	22	0	0	49	4	200	0	32	0	307	55,519	0	\$55,519
TASK 6.5 - Surface Water Depletion Monitoring Network (CA #6b-d)		0	16	0	0	0	18	0	0	16	0	50	11,106	0	\$11,106
TASK 6.6 - Groundwater Quality (CA #7a)		0	6	0	0	4	0	0	0	0	0	10	2,704	0	\$2,704
	<b>Total</b>	<b>19</b>	<b>288</b>	<b>0</b>	<b>0</b>	<b>61</b>	<b>314</b>	<b>200</b>	<b>0</b>	<b>114</b>	<b>24</b>	<b>1,020</b>	<b>\$221,811</b>	<b>\$1,150</b>	<b>\$222,961</b>

**Table 3  
Summary of Costs  
On-Call Services 2024-25  
Tracy Subbasin**

Task No. and Description	Cost	Cost by GSA					
		BBID	BCID	City of Lathrop	City of Tracy	San Joaquin County	Stewart Tract
TASK 1 - Annual Report	\$56,299	\$4,421	\$2,222	\$16,856	\$10,944	\$20,452	\$1,404
TASK 2 - Technical Support Services (TSS)	\$4,740	\$372	\$187	\$1,419	\$921	\$1,722	\$118
TASK 3 - Management Action #1: Amend Well Ordinance	\$5,724	\$450	\$226	\$1,714	\$1,113	\$2,079	\$143
TASK 4 - DMS and Website Upgrades and Maintenance	\$10,486	\$823	\$414	\$3,140	\$2,038	\$3,809	\$261
TASK 5 - Public Outreach	\$10,176	\$799	\$402	\$3,047	\$1,978	\$3,697	\$254
TASK 6.1 - Review Corrective Actions with DWR	\$4,430	\$348	\$175	\$1,326	\$861	\$1,609	\$110
TASK 6.2 - Water Budget (CA #1)	\$46,993	\$3,691	\$1,854	\$14,070	\$9,135	\$17,072	\$1,172
TASK 6.3 - Delta Management Area (CA #2a-c)	\$14,784	\$1,161	\$583	\$4,426	\$2,874	\$5,371	\$369
TASK 6.4 - Revise Sustainable Management Criteria (CA #3a-c)	\$55,519	\$4,360	\$2,191	\$16,623	\$10,792	\$20,169	\$1,384
TASK 6.5 - Surface Water Depletion Monitoring Network (CA #6b-d)	\$11,106	\$872	\$438	\$3,325	\$2,159	\$4,035	\$277
TASK 6.6 - Groundwater Quality (CA #7a)	\$2,704	\$212	\$107	\$810	\$526	\$982	\$67
<b>Total</b>	<b>\$222,961</b>	<b>\$17,510</b>	<b>\$8,799</b>	<b>\$66,757</b>	<b>\$43,340</b>	<b>\$80,997</b>	<b>\$5,559</b>



**Reference:** Tracy Subbasin Public Outreach and Coordination Support

**TASK 3 – WEBSITE SUPPORT**

Task includes updates to website content to reflect status of GSP implementation and projects and management actions, uploading of meeting and outreach materials, development of new website content, and maintenance of Interested Parties Database.

**Assumptions for Task 3:**

- County staff or consultants will update and maintain website infrastructure.

**Deliverables for Task 3:**

- Content and wireframes for up to three (3) new webpages

**SCHEDULE:** This contract assumes a Notice-to-Proceed date of July 1, 2024 and is to be used for services performed between July 1, 2024 and June 30, 2025. The schedule may be modified from time to time as mutually agreed upon by the County as required to facilitate efficient completion of the work.

**FEES AND PROGRESS PAYMENTS:** The Not-to-Exceed fee for completion of the work described in this scope of work is \$29,722.00. Progress payments shall be made monthly on a time and materials basis in accordance with the terms and conditions in the Agreement. In no event shall total payment exceed \$29,722.00 without the written prior approval of the County.