

Tracy Subbasin GSP Coordination Committee Meeting

Thursday June 15, 2023

1:00 PM to 2:30 PM

Teleconference Meeting Only

Teleconference Link: <https://stantec.zoom.us/j/94618467229>

Phone Number: +1-669-900-6833

Meeting ID: 946 1846 7229

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

Member 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.**

PUBLIC COMMENT

If you wish to make a comment on a specific agenda item, please submit your comment via email by 5:00 p.m. on the Wednesday prior to the meeting. Please submit your comment via email to Matt Zidar, San Joaquin County, at mzidar@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 1 (209) 468-3089 at least 48 hours prior to the start of the meeting.

AGENDA

I. Opening of Meeting/Roll Call

II. Scheduled Items

- A. Approval of the May 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
- C. GSP Implementation Updates
 - 1. FY 23/24 Budget – *Action Item*

2. TSS Update – *Discussion Item*
3. Groundwater Conditions – *Discussion Item*
4. AEM Surveys – *Discussion Item*

D. Inter-basin Coordination – *Discussion Item*

1. Adjacent Basin Updates
 - i. Eastern San Joaquin – *Matt Zidar*
 - ii. Delta Mendota – *Lea Emmons*
 - iii. East Contra Costa – *Greg Young*

E. 2023 Public Workshop – *Discussion Item*

F. DWR Status Report – *Discussion Item*

III. **Public Comments**

IV. **Agency Comments**

V. **Next GSP Coordination Committee Meeting Anticipated for September 21, 2023**

VI. **Adjournment**

Tracy Subbasin GSP Coordination Committee Meeting

Thursday May 18, 2023

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Phone Number: +1-669-900-6833

Meeting ID: 946 1846 7229

MINUTES

I. Opening of Meeting/Roll Call

The meeting was called to order at 1:03 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:

- Ryan Alameda, Stewart Tract GSA
- Lea Emmons, City of Tracy GSA
- Greg Gibson, City of Lathrop GSA
- Greg Young, Byron Bethany Irrigation District (BBID)
- David Weisenberger, Banta-Carbona Irrigation District (BCID)
- ~~Matt Zidar, San Joaquin County GSA~~ (ABSENT)

Other attendees:

- Emily Finnegan, Stantec
- Khandriale Clark, Stantec
- Bill Brewster, California Department of Water Resources (DWR)
- Mike Cornelius, GEI

II. Scheduled Items

- A. Approval of the April 20 GSP Coordination Committee Meeting Minutes – *Action Item*

RESULT: APPROVED

MOVER: Lea Emmons

SECONDER: David Weisenberger

AYES: All

NOES: None

ABSENT: Matt Zidar

ABSTAIN: None

B. GSA Status Updates – *Round Robin Discussion*

1. Current Groundwater Conditions, Projects and Management Actions, Funding, and General Updates
 - i. San Joaquin County GSA
 - a. Mr. Zidar was absent for the meeting; therefore, there were no updates from San Joaquin County GSA.
 - ii. BBID GSA
 - a. Nothing to report.
 - iii. BCID GSA
 - a. Nothing to report.
 - iv. Stewart Tract GSA
 - a. John Chapman will be taking over for Ryan Alameda as lead contact for the Stewart Tract GSA.
 - v. City of Lathrop GSA
 - a. Nothing to report.
 - vi. City of Tracy GSA
 - a. Nothing to report.

C. GSP Implementation Updates

1. FY 23/24 Budget – *Action Item*
 - i. Mr. Cornelius of GEI gave the group an overview of the budget for the next fiscal year as updated since the previous Committee meeting.
 - ii. The group posed questions such as whether or not the local costs within the annual obligation spreadsheet were per entity. Mr. Cornelius confirmed that they were. The group was confused

about the new totals per entity for the Zone 2 contributions and decided that additional feedback from Mr. Zidar would be required. The group noted a budget surplus and discussed what would be done with that money if they underspent or overspent that amount. If underspent, a budget amendment would need to be made. If underspent, there a number of ways to reallocate the funds.

- iii. Additionally, Mr. Gibson was uncertain that the population data presented for the City of Lathrop was correct. Mr. Cornelius clarified that the numbers were split between Lathrop and Stewart Tract, as appropriate.
- iv. The group ultimately decided to postpone the approval of the budget until June when additional questions could be answered, and some changes made.

2. TSS Update – *Discussion Item*

- i. Richard Shatz of GEI will need to follow up with Mr. Weisenberger of BBID regarding two wells being developed under the Technical Support Services contract, but there are otherwise no TSS updates.

3. Groundwater Conditions – *Discussion Item*

- i. Mr. Cornelius stated that Mr. Shatz would add another column to the groundwater conditions spreadsheet presented to account for whether the group is above or below the Subbasin's Measurable Objectives in each category, especially considering the variability between the GSAs (e.g., the Cities of Tracy and Lathrop have seen significant resource changes thus far this year).

D. Inter-basin Coordination – *Discussion Item*

1. Adjacent Basin Updates

- i. Eastern San Joaquin – *Matt Zidar*
 - a. Mr. Zidar was absent for the meeting; therefore, there were no updates provided.
- ii. Delta Mendota – *Lea Emmons*
 - a. The coordination meetings for the Delta Mendota Subbasin are help in-person, which is outside of the current

capabilities of Mr. Emmons. Therefore, he will relay updates to the groups as provided by Delta Mendota representatives through their website and interested parties database. Additionally, there are biweekly calls with various specific GSA reps that Mr. Emmons will procure information from for the group.

iii. East Contra Costa – *Greg Young*

- a. Mr. Young relayed that the Subbasin is moving forward with minor programs and projects there is nothing major to share at the moment.

E. 2023 Public Workshop – *Discussion Item*

1. Planning and preparation for the June public workshop is underway. It will be held in person at 6 PM on the evening of June 29 at the City Hall building in the City of Tracy. Stantec will coordinate with the Committee to finalize promotional materials, a facilitation plan, and a presentation.

F. DWR Status Report – *Discussion Item*

1. Mr. Brewster related to the group that there is a desire to discuss well data as related to the Technical Support Services contract secured for the Tracy Subbasin as well as regular monitoring well reporting. He asked the group what their responses had been thus far for the Executive Order related to new well permits. Mr. Emmons responded that the City of Tracy's ordinance dictates that new wells cannot be drilled within 200 feet of a water main, which largely means not within City limits.

III. **Public Comments**

No comments to report.

IV. **Agency Comments**

Roy Valdez of the San Joaquin County Public Works Department reached out regarding a possible partnership with the County focused on a stormwater/stormwater quality resources plan that would be developed and/or implemented through the Integrated Resources Management Program in addition to coordinating on other possible projects. There is a meeting in the works, and the attendees may include the Eastern San Joaquin Groundwater Authority.

V. Next GSP Coordination Committee Meeting Anticipated for June 15, 2023

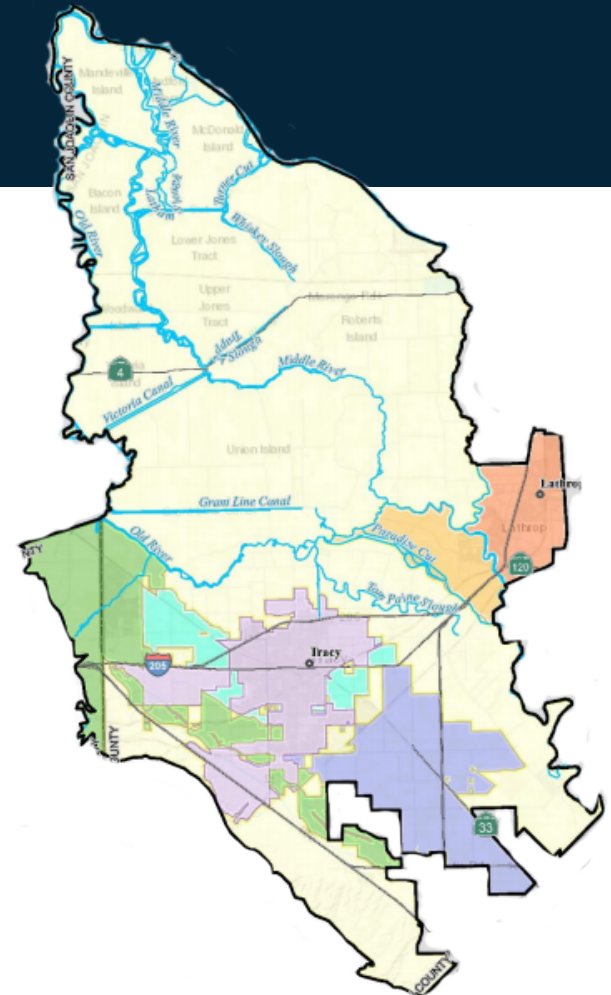
No comments to report.

VI. Adjournment

The meeting was adjourned at 2:30 PM.

June 15, 2023

Item C.1 FY 2023-24 Budget



GSP Annual Budget – Shared Costs

Description	FY2021-22	FY2022-23	FY2023-24	FY2024-25	FY2025-26
EXPENSES					
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		
Shared Costs - Annual Expenses	\$171,980	\$146,980	\$326,980	\$236,980	\$286,980
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
EXPENSES					
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					
Local Costs - Annual Expenses	\$95,145	\$65,145	\$73,145	\$81,145	\$81,145
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
Shared Costs - Annual Expenses	\$171,980	\$146,980	\$326,980	\$236,980	\$286,980
5-year Cost					\$1,169,900
Average 5-year Cost	\$233,980	\$233,980	\$233,980	\$233,980	\$233,980
REVENUE - For Shared Costs Only					
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
Total Costs (Zone 2 + Grants + Funds from GSAs)	\$233,980	\$233,980	\$233,980	\$233,980	\$233,980
Projected Reserve/cumulative	\$62,000	\$149,000	\$56,000	\$53,000	\$0
Projected Reserve/cumulative	\$62,000	\$149,000	\$56,000	\$53,000	\$0
GEI	\$110,041	\$118,016	\$184,384		
Stantec	\$13,165	\$25,000	\$28,000		
County Administrative	\$30,000	\$30,574	\$30,000		
Subtotal	\$153,206	\$173,590	\$242,384		
Budget vs Actual	\$18,774	(\$26,610)	\$84,596		
Projected Reserve/cumulative/current	\$80,774	\$141,164	\$132,760		

GSP Annual Budget – Summary Close FY2022-23

Description	FY2021-22	FY2022-23	FY2023-24	FY2024-25	FY2025-26	Current Total (FY2021-2022 and FY2022-23)	Remaining Budget
EXPENSES							
Regulatory Requirements							
Annual Reports	\$70,000	\$50,000	\$50,000	\$50,000	\$50,000	\$138,033	(\$18,033)
GSP Revisions (DWR comments)			\$50,000				
5-Year GSP Update					\$100,000	\$13,741	(\$13,741)
Spreadsheet Model/ Water Quality			\$100,000	\$100,000	\$60,000	\$0	\$0
DMS maintenance	\$20,000	\$20,000	\$20,000	\$20,000	\$10,000	\$24,398	\$15,602
Data Gaps: TSS wells	\$15,000					\$24,341	(\$9,341)
GDE/ SW / Assessment			\$30,000			\$0	\$0
Program Management and Administrative Expenses							
TSb Tech Coordination Meetings and Public Outreach	\$16,980	\$16,980	\$16,980	\$16,980	\$16,980	\$27,544	\$6,416
Administrative (SJCo with assit from Stantec)	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$98,739	\$1,261
Project and Management Actions							
Management Action 1: Amend Well Ordinance		\$10,000	\$10,000			\$0	\$10,000
Total Expenses	\$171,980	\$146,980	\$326,980	\$236,980	\$286,980	\$326,796	(\$7,836)
FY Annual Budgets	\$233,980	\$233,980	\$233,980	\$233,980	\$233,980		

GSP Annual Budget – Summary Close FY2023-24

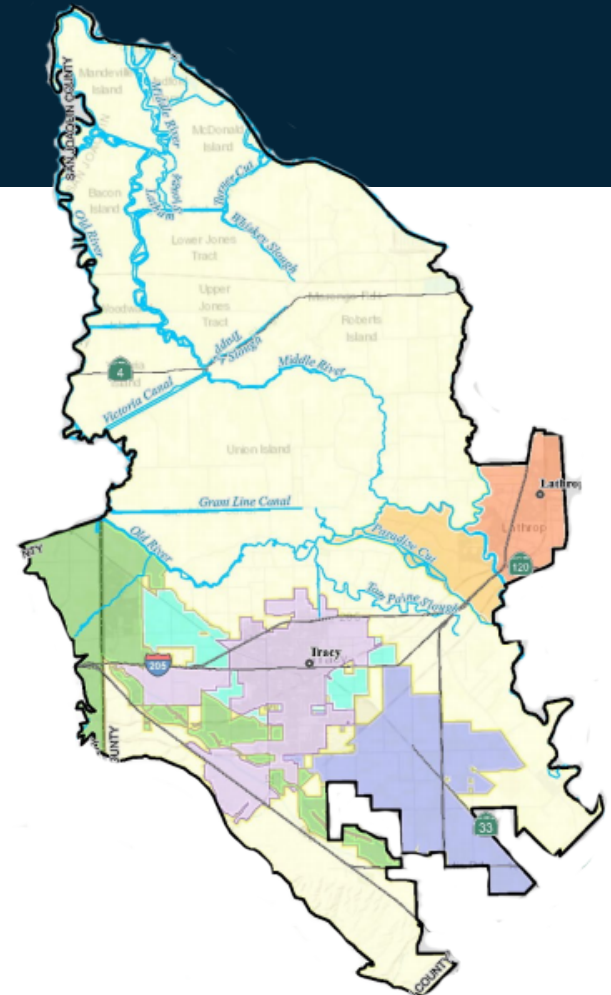
Description	FY2021-22	FY2022-23	FY2023-24	FY2024-25	FY2025-26	Current Total (FY2021-2022 to FY2023-24)	Remaining Budget
EXPENSES							
Regulatory Requirements							
Annual Reports	\$70,000	\$50,000	\$50,000	\$50,000	\$50,000	\$192,209	(\$22,209)
GSP Revisions (DWR comments)			\$50,000				
5-Year GSP Update					\$100,000	\$13,741	(\$13,741)
Spreadsheet Model/ <i>Water Quality</i>			\$100,000	\$100,000	\$60,000	\$44,038	\$55,962
DMS maintenance	\$20,000	\$20,000	\$20,000	\$20,000	\$10,000	\$24,398	\$35,602
Data Gaps: TSS wells	\$15,000					\$27,923	(\$12,923)
GDE/ <i>SW</i> / Assessment			\$30,000			\$7,146	\$22,854
Program Management and Administrative Expenses							
TSb Tech Coordination Meetings and Public Outreach	\$16,980	\$16,980	\$16,980	\$16,980	\$16,980	\$37,336	\$13,604
Administrative (SJCo with assit from Stantec)	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$156,739	(\$6,739)
Project and Management Actions							
Management Action 1: Amend Well Ordinance		\$10,000	\$10,000			\$5,508	\$14,492
Total Expenses	\$171,980	\$146,980	\$326,980	\$236,980	\$286,980	\$509,038	\$137,842
FY Annual Budgets	\$233,980	\$233,980	\$233,980	\$233,980	\$233,980		

GSP Annual Budget – Summary Comparison

Description	Current Total (FY2021-2022 and FY2022-23)	Remaining Budget	Current Total (FY2021-2022 to FY2023-24)	Remaining Budget
EXPENSES				
Regulatory Requirements				
Annual Reports	\$138,033	(\$18,033)	\$192,209	(\$22,209)
GSP Revisions (DWR comments)				
5-Year GSP Update	\$13,741	(\$13,741)	\$13,741	(\$13,741)
Spreadsheet Model/ Water Quality	\$0	\$0	\$44,038	\$55,962
DMS maintenance	\$24,398	\$15,602	\$24,398	\$35,602
Data Gaps: TSS wells	\$24,341	(\$9,341)	\$27,923	(\$12,923)
GDE/ SW/ Assessment	\$0	\$0	\$7,146	\$22,854
Program Management and Administrative Expenses				
TSb Tech Coordination Meetings and Public Outreach	\$27,544	\$6,416	\$37,336	\$13,604
Administrative (SJCo with assit from Stantec)	\$98,739	\$1,261	\$156,739	(\$6,739)
Project and Management Actions				
Management Action 1: Amend Well Ordinance	\$0	\$10,000	\$5,508	\$14,492
Total Expenses	\$326,796	(\$7,836)	\$509,038	\$137,842

June 15, 2023

Item C.1 FY 2023-24 Expenses



General - Proposed GEI Services

- Budgeted for FY2023-24 expenditures of \$327,000
- Contracting capacity of only \$200,000 per FY
- Biggest item and unknown for FY 2023-24 budget – GSP review results from DWR by January 31, 2024
- Approved, Incomplete, Inadequate
- \$50,000 budget for GSP Revisions
- +\$180,000 used by Eastern San Joaquin County for their update, issues that had to be addressed water quality, surface water interaction, and GDEs

Proposed Services

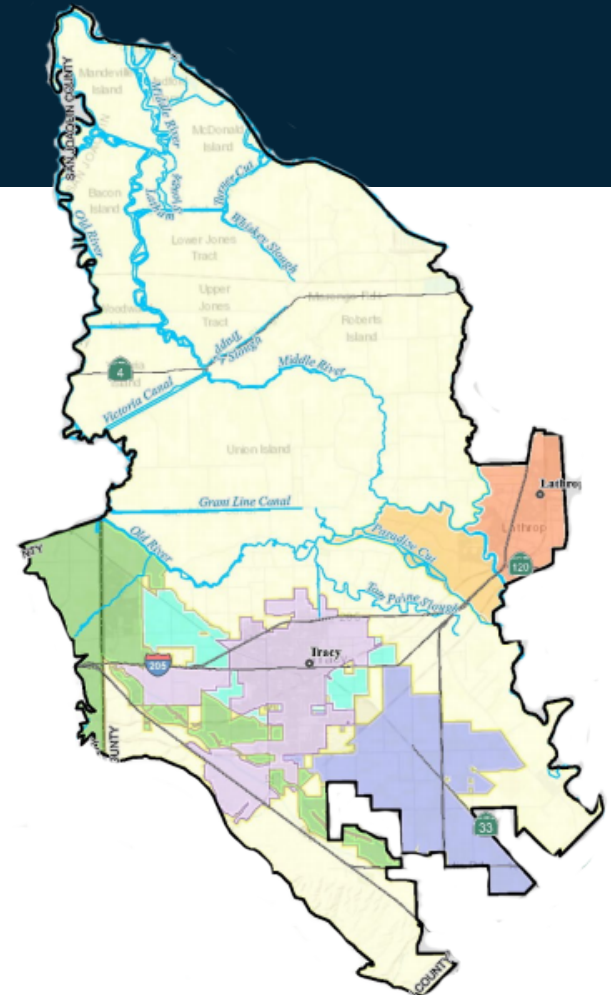
- Task 1: Annual Report
- Task 2: TSS Support
- Task 3: Management Action #1 – Well Ordinance
- Task 4: DMS and Website Maintenance
- Task 5: Public Outreach
- Task 6: GSP Revisions
- Task 7: GDE Assessment
- Task 8: Water Budget and Water Quality

Draft Budget

Task No.	Description				Expenses	Total Cost
			Subtotals		Expenses	
			Hrs	Cost		
TASK 1 - Annual Report			264	\$54,176	\$0	\$54,176
TASK 2 - Technical Support Services			17	\$3,582	\$0	\$3,582
TASK 3 - Management Action #1: Well Ordinance			18	\$5,508	\$0	\$5,508
TASK 4 - DMS and Website Upgrades and Maintenance			40	\$9,000	\$1,150	\$10,150
TASK 5 - Public Outreach			32	\$9,792	\$0	\$9,792
Task 6 - GSP Revisions			252	\$49,992	\$0	\$49,992
Task 7 - GDE/Surface Water Assessment			41	\$7,146	\$0	\$7,146
Task 8.1 - Water Budget			140	\$32,704	\$0	\$32,704
Task 8.2 - Water Quality Data Gap			64	\$11,334	\$0	\$11,334
		Total	868	\$183,234	\$1,150	\$184,384

June 15, 2023

Item C.1 FY 2023-24 Revenue



GSP Annual Revenue – Data Inputs

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

Revision Date: Revision Date: 5-3-23

Data				
GSA	Acres (Total Subbasin)	Acres (non- Delta)	Population (2020 ACS and DOF 2023)	Groundwater Pumping WY 2022 (AFY)
Byron-Bethany Irrigation District	22,384	15,798	30,992	796
BBID (Alameda County)		6,586	299	0
Banta-Carbona Irrigation District	16,657	16,657	3,559	210
City of Lathrop	7,655	7,655	24,556	1,648
City of Tracy	16,541	16,541	95,615	1,065
Stewart Tract	6,072	6,072	10,524	0
County of San Joaquin (Zone 2)	169,271	49,298	17,609	21,945
Total	238,580	118,607	183,154	25,664
Total Acres (Zone 2 only, not including County)		62,723		

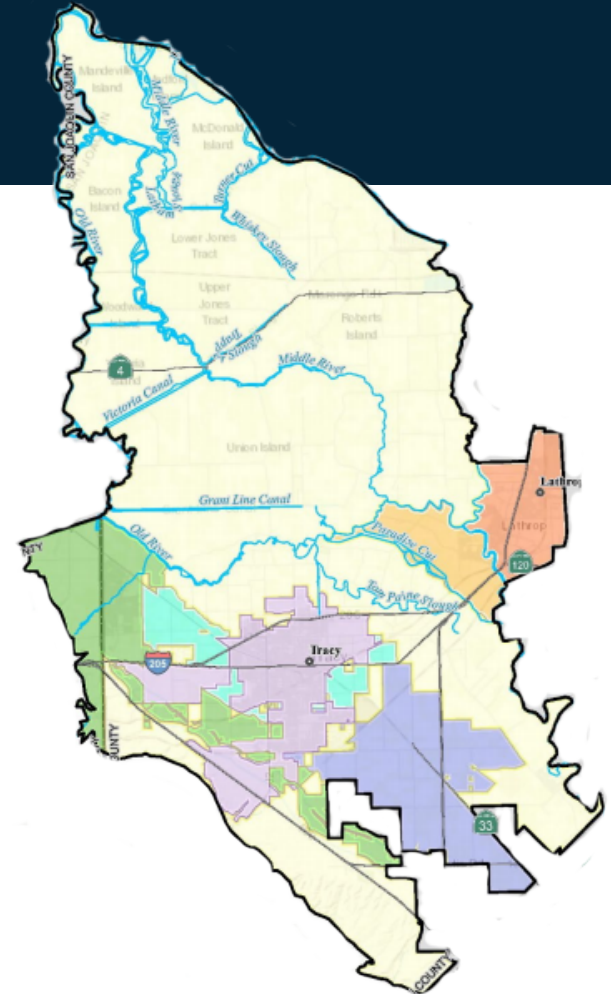
Revised Final – Revenue Allocation

Table B-2
Tracy Subbasin GSP 5-Year Implementation Revenue (Non-Delta Management Area)
Revision Date: Revision Date: 5-3-23

	Editable Percents				Max Zone 2 Revenue \$85,000			
	0.6	0.2	0.2					
GSA s	Based on Net Groundwater Pumping	Based on Acreage	Based on Population	Subtotal	Zone 2 County Funded Credit	Total GSA Shared Fund Contribution	Total Funding	
Byron-Bethany Irrigation District	\$4,354	\$6,233	\$7,918	\$18,506	(\$14,859)	\$33,365	\$36,039	
BBID (Alameda County)	\$0	\$2,598	\$76	\$2,675		\$2,675		
Banta-Carbona Irrigation District	\$1,149	\$6,572	\$909	\$8,630	(\$15,667)	\$24,297	\$24,297	
City of Lathrop	\$9,015	\$3,020	\$6,274	\$18,309	(\$7,200)	\$25,509	\$25,509	
City of Tracy	\$5,826	\$6,526	\$24,430	\$36,782	(\$15,558)	\$52,339	\$52,339	
Stewart Tract	\$0	\$2,396	\$2,689	\$5,085	(\$5,711)	\$10,796	\$10,796	
County of San Joaquin (Zone 2)	\$120,044	\$19,450	\$4,499	\$143,994	\$143,994		\$85,000	
Total	\$140,388	\$46,796	\$46,796	\$233,980	\$85,000	\$148,980	\$233,980	

June 15, 2023

Item C.2 Technical Support Services



Proposed Schedule and Activities

- Five monitoring well locations visited on April 27th
- GEI guides DWR geologist and environmental folks and met with agencies
- Three of five approved.
- One conditional after bats and frog survey.
- One need to get construction easement, otherwise have to chose new location.

Permits

Drilling

Encroachment

Traffic

Other Services:

CEQA Documentation

Access Arrangements/Agreements

Underground Service Alert (USA) Notification

Utility Locating

Traffic Control

Restrooms

Electrical Power

Water Supply/Storage for Drilling (at drill site)

Security Fencing or Patrol

Geological/Hydrogeological (licensed and in-training)

Drilling Waste Disposal (trash, drill cuttings, fluids)

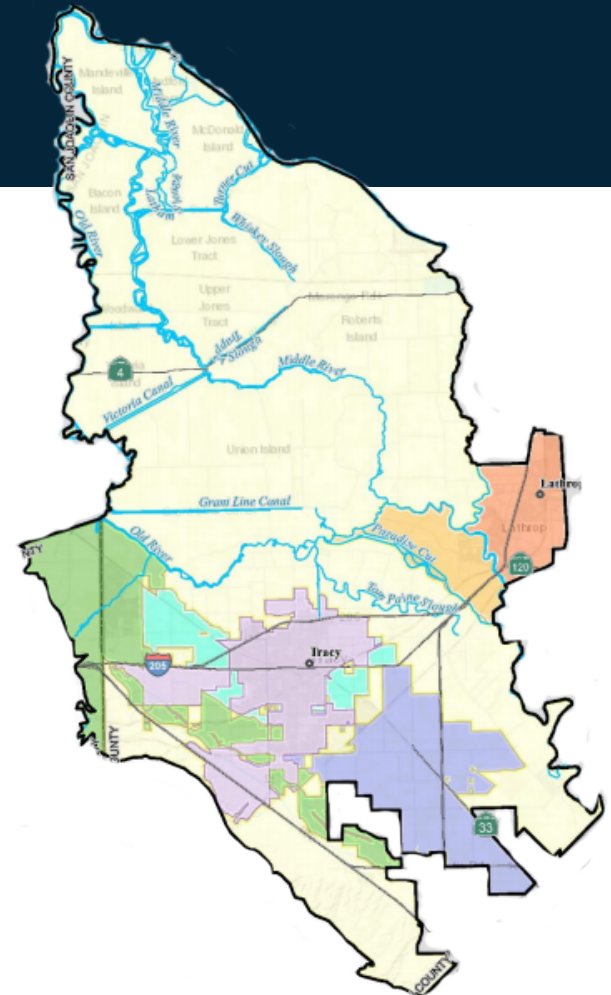
Surveying

On-going Data Collection/Verification

Water Quality Analysis

June 15, 2023

Item C.3 Current Groundwater Conditions



Spring 2023 Groundwater Levels vs MOs and MTs

RMW Well Name	Monitoring Entity	Measurement Date	Groundwater Elevation (feet)	MT Elevation (feet)	Interim MO Elevation (feet)	Above (+) or Below (-) MT	Above (+) or Below (-) MO	Comments
MT Exceedances WY2021-22 - Lower Aquifer Wells								
MW-3B	Tracy	3/23/2023	-22.51	-40	-22	17.49	-0.51	
Well Q	SJCo	4/27/2023	51.31	55	57	-3.69	-5.69	
01S05E31R002M	SJCo	4/10/2023	1.10	-1	-1	2.1	2.1	
03S06E05R001M	DWR	3/9/2023	-7.23	-33	-7	25.77	-0.23	
Upper Aquifer Wells								
Well N	SJCo	5/3/2023	16.46	5	7	11.46	9.46	
02S03E01D001M	BBID			73	80			No Measurements - most recent 05/2022
02S05E08B001M	SJCo	4/10/2023	0.30	-7	0	7.3	0.3	
03S06E28N001M				58	64			No Measurements - most recent 04/2022
02S04E15R001M	SJCo	4/10/2023	53.91	43	48	10.91	5.91	
01S04E31P005M	BBID			41	45			No Measurements - most recent 5/2022
ORL-1W	BBID	---		-3	-1			No Measurements - Transfer Ownership
MWM-24	Lathorp	4/13/2023	6.78	-1	3	7.78	3.78	
MWR-25	Lathorp	4/13/2023	13.45	3	4	10.45	9.45	
SAD MW-402D	Regulatory			-2	3			Obtained from Semi-Annual Reports
PW11-031	Regulatory			0	4			Obtained from Semi-Annual Reports
PW16-216	Regulatory			-19	0			Obtained from Semi-Annual Reports
Lower Aquifer Wells								
Corral MW-6	Regulatory			-60	-38			Obtained from Semi-Annual Reports
MW-1B	Tracy	3/23/2023	-15.86	-69	-20	53.14	4.14	
MW-5B	Tracy	3/23/2023	-14.53	-60	-17	45.47	2.47	
MW-6B	Tracy	3/23/2023	-14.55	-67	-20	52.45	5.45	
PW20-500	Regulatory			-10	0			Obtained from Semi-Annual Reports

May 8, 2023



Consulting
Engineers and
Scientists

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

Subject: On-Call Services FY2023-24, Tracy Subbasin GSP Implementation

Dear Mr. Zidar:

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 eight tasks describe the services to be provided for the fiscal year (FY) 2023-24, from July 1, 2023 through June 30, 2024:

Task 1: Annual Report

The Groundwater Sustainability Management Act 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, 2024. The annual report is for water year 2022-23 (October 1 through September 30).

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.
- Compile and tabulate measured surface water diversions by Banta-Carbona and Byron-Bethany Irrigation Districts, and imports by the cities of Lathrop and Tracy.
- 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 GSA area 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. The groundwater levels will be stored in the TSb DMS, and it will be used to process and prepare the hydrographs.

- Develop groundwater elevation contour maps for spring 2023 and fall 2023 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, 2024.
- Prepare fiscal budget for WY 2024-25.

Assumption: The GSAs will provide the pumping and surface water supply information for October 1, 2022, through September 30, 2023, to GEI by November 15, 2023. Open ET monthly ET information for October 1, 2022, through September 30, 2023 will be available at no cost to GEI by November 15, 2023. A draft Annual Report will be provided to the GSA about January 31, 2024, for review and comment by the GSAs. GEI will upload the Annual Report to DWR by April 1, 2024.

Deliverables: Draft and final 2022-23 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 and attempts have been made to locate existing wells (well log or total depth available), but a well has not been found. The five sites have been reviewed and approved by DWR and construction is planned to begin in late 2023. 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 will continue to support this effort by including:

- Prepare and obtain well permits for the five monitoring wells.
- Continue to support locating a sixth well, existing or new.

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

Deliverables: Draft and Final Well Permits.

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) 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 with potential studies to provide additional 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 Tracy Subbasin Groundwater Sustainability Agencies (GSAs) fulfill the stakeholder and engagement requirements of the Sustainable Groundwater Management Act (SGMA) and the accompanying Groundwater Sustainability Plan (GSP) Regulations. A data management system (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. GEI will:

- Continue to host the website and Groundwater Communications Portal and pay the URL fee for FY 2022-23.
- 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 2023. Identify the suitability and effort needed to use the model for water budgeting or whether a spreadsheet approach should be undertaken.
- Meet with 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 Revisions

By January 1, 2024, DWR is to release their assessment of the TSb GSP, whether it is Approved or considered Incomplete or Inadequate. Only a few of the critically over-drafted basins GSPs submitted in 2020, were initially Approved and most were considered Incomplete, and none were considered Inadequate. Plans assessed as Incomplete were issued a 20- to 30-page assessment and given 180 days to improve the Plan. DWR worked with the GSAs to improve their GSPs with 18 basins reaching an approved status and only 6 were considered Inadequate at the end of the 180-day period. Based on Eastern San Joaquin County GSP experience, DWR may want the TSb GSAs to provide additions to surface water depletion, water quality and groundwater dependent ecosystems (GDEs).

If DWR Approves of the TSb GSP no further work will be needed at this time and any conditional comments can be addressed during the GSP 5-year update. This task will be to respond to DWR should they assess the TSb GSP to be Incomplete. Until the determination is released by DWR, GEI's scope cannot be defined, other than we will be prepared to support the TSb GSAs to revise the GSP. If the GSP is required to be updated the GSAs will have to re-adopt the GSP and also perform public outreach.

Assumption: The revisions to the GSP, as specified by DWR, can be accomplished within the budgeted amount otherwise the budget may have to be revised. Budgets and activities describe within Tasks 7 and 8 may be used to help fund responses to DWR's comments. The County will provide a copy of DWR's review letter and will invite GEI to attend discussions with DWR. GEI will assist the TSb's public outreach consultant with information for the outreach activities.

Deliverables: Draft and Final revised GSP.

Task 7 – GDE/Surface Water Assessment

One of the potential undesirable results of chronic lowering of groundwater levels is affecting potential groundwater dependent ecosystems. The TSb GSP used the Natural Communities Commonly

Associated with Groundwater database as a starting point to identify potential GDEs. The GDE areas were not validated. The GSP identified this as a data gap and was scheduled for revision and budgeted for completion in FY 2023-24, but currently is planned for only partial completion.

To improve the GSP GEI will:

- Use groundwater elevations in the shallow aquifer and subtract them from land surface elevations from a digital elevation model (DEM) to estimate depth to groundwater contours across the landscape to further refine determination of GDEs and interconnected surface water (Mountain House Creek).

Assumption: The services outlined above may be changed based on DWR response to the GSP.

Deliverables: Draft and Final GSP Figure 5-41, Appendix L describing the approach used and include the listing of species, and revised GSP Section 9.10.

Task 8 – 5-Year GSP Update – Spreadsheet Model/Water Quality

The FY2023-24 budget has funding for development of a spreadsheet groundwater budget. Development of the spreadsheet is not recommended at this time and should be delayed until after DWR updates their C2VSim groundwater model. Funding this year would be used to acquire more water budget supply information to make the spreadsheet budget/groundwater model more accurate and also to progress with water quality distribution in the subbasin.

Task 8.1 – Water Budget

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 also stated in the meeting that the next release of the groundwater model would be in Fall 2023.

Prior to this meeting the GSAs had budgeted for developing a spreadsheet to develop a water budget. Because the groundwater model is being updated, GEI is recommending holding off on development of the spreadsheet water budget as the state's model could better represent the TSb Non-Delta Management Areas as well as being able to forecast climate change predictions. This task is to attend a meeting with DWR to assess the model revisions.

To continue to improve the water budgeting GEI will also continue to obtain input to the spreadsheet budget/groundwater model by meeting with Naglee Burk Irrigation District, RD 1007 (Pico Naglee), RD 2058 (Pescadero) RD 2095 (Paradise Junction) to understand how they report surface water deliveries and tile drain returns to the rivers.

Assumption: San Joaquin County will arrange meeting times with the three Reclamation Districts and one irrigation district.

Deliverables: Tabulated water supply and if possible, tile drain annual volumes.

Task 8.2 – Water Quality Data Gap

The GSP identified that there were over 50 small community water wells with water quality data but the construction details of the wells and sorting the wells by principal aquifer was identified as a data gap.

The locations of the small community water systems are now provided by DWR website, along with contact information. GEI will:

- Download the name of the system, well name and location from DWR website.
- Download the system contact information from Drinking Water Watch and contact information.
- Obtain from the County owned systems well logs or Drinking Water Source Assessment, Well Data Sheets (contains a summary of well screen intervals and construction details). Program documentation and identify the principal aquifer that the wells draw water from.
- Prepare a draft letter for the County, to place on their letter head, requesting Well Data Sheets information from the State Water Resources Control Board, Department of Drinking Water (DDW) for wells that data is not available for from County or DWR records. Obtain any records of groundwater pumping or estimates based on population served. Review and interpret the well data provided to identify the principal aquifers.
- Modify Figure 8-10 and Table 8-5 from the GSP to illustrate wells with water quality data by aquifer.

The results of this analyses will be used in the 5-year GSP update to revise Figures 5-19 through 5-35 water quality distribution and trends. The information may also be needed to respond to comments from DWR to the GSP adequacy.

Assumption: The County will request Well Data Sheets from DDW and provide copies to GEI.

Deliverables: Updated GSP Figure 8-10 showing the location of wells with water quality by aquifer and Table 8-5, showing potential additional wells that could be used as Representative Monitoring Wells for degraded water quality.

GENERAL PROJECT SCHEDULE

The schedule for the tasks described above will be completed during the FY 2022-23 as shown on **Figure 1**. The Annual Report preparation will take precedence in late 2023 and be completed by April 1, 2024. Unknown is the release and timing for GSP Revisions, but based on historic releases by DWR, a pre-release may be any time between June 2023 and January 31, 2024. The Project Schedule shows this task starting in October 2023, but may shift depending upon the actual DWR release. For scheduling purposes Monitoring well permits for TSS wells will be developed after DWR approves of each well site in June to July 2023. Continued monthly meetings will commence in January and quarterly meetings will begin in June 2023 along with a public meeting to present the Annual Report results to the public.

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 **Table 1**. **Table 2** provides the cost distribution by GSA based on the 2023-24 fiscal budget distribution. Attached is our 2023 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 or via phone at 916.631.4566.

Mr. Matt Zidar
San Joaquin County Public Works
May 8, 2023
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Respectfully submitted,

GEI Consultants, Inc.

A handwritten signature in blue ink, appearing to read "Richard W. Shatz".

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

A handwritten signature in blue ink, appearing to read "Michael J. Cornelius".

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

Figure 1
Project Schedule
On-Call Services 2023-24
Tracy Subbasin

[illegible]

Table 1
Summary of Costs
On-Call Services 2023-24
Tracy Subbasin

Task No.	Description													Expenses	Total Cost		
				Grade 8 (Cornelius)	Grade 7 (Shatz)	Grade 6	Grade 5 (Pascol, Irving)	Grade 4	Grade 3 (Storey)	Grade 2 (Espinoza, Yap)	Grade 1	CAD/GIS	Admin	Subtotals		Expenses	
			\$342 /hr	\$306 /hr	\$257 /hr	\$226 /hr	\$191 /hr	\$171 /hr	\$156 /hr	\$141 /hr	\$171 /hr	\$127 /hr	Hrs	Cost			
TASK 1 - Annual Report				8	73	0	0	0	0	105	0	64	14	264	\$54,176	\$0	\$54,176
TASK 2 - Technical Support Services				0	5	0	0	0	12	0	0	0	0	17	\$3,582	\$0	\$3,582
TASK 3 - Management Action #1: Well Ordinance				0	18	0	0	0	0	0	0	0	0	18	\$5,508	\$0	\$5,508
TASK 4 - DMS and Website Upgrades and Maintenance				0	16	0	0	0	24	0	0	0	0	40	\$9,000	\$1,150	\$10,150
TASK 5 - Public Outreach				0	32	0	0	0	0	0	0	0	0	32	\$9,792	\$0	\$9,792
Task 6 - GSP Revisions				0	60	0	0	0	80	80	0	32	0	252	\$49,992	\$0	\$49,992
Task 7 - GDE/Surface Water Assessment				0	1	0	0	0	0	0	0	40	0	41	\$7,146	\$0	\$7,146
Task 8.1 - Water Budget				24	24	0	0	80	0	12	0	0	0	140	\$32,704	\$0	\$32,704
Task 8.2 - Water Quality Data Gap				0	6	0	0	0	26	28	0	4	0	64	\$11,334	\$0	\$11,334
			Total	32	235	0	0	80	142	225	0	140	14	868	\$183,234	\$1,150	\$184,384

Table 2
Summary of Costs
On-Call Services 2023-24
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			\$54,176	\$8,345	\$5,626	\$5,906	\$12,119	\$19,681	\$2,500
TASK 2 - Technical Support Services			\$3,582	\$552	\$372	\$391	\$801	\$1,301	\$165
TASK 3 - Management Action #1: Well Ordinance			\$5,508	\$848	\$572	\$600	\$1,232	\$2,001	\$254
TASK 4 - DMS and Website Upgrades and Maintenance			\$10,150	\$1,563	\$1,054	\$1,107	\$2,270	\$3,687	\$468
TASK 5 - Public Outreach			\$9,792	\$1,508	\$1,017	\$1,068	\$2,190	\$3,557	\$452
Task 6 - GSP Revisions			\$49,992	\$7,700	\$5,191	\$5,450	\$11,183	\$18,161	\$2,307
Task 7 - GDE/Surface Water Assessment			\$7,146	\$1,101	\$742	\$779	\$1,598	\$2,596	\$330
Task 8.1 - Water Budget			\$32,704	\$5,037	\$3,396	\$3,565	\$7,316	\$11,881	\$1,509
Task 8.2 - Water Quality Data Gap			\$11,334	\$1,746	\$1,177	\$1,236	\$2,535	\$4,117	\$523
		Total	\$184,384	\$28,401	\$19,146	\$20,102	\$41,245	\$66,983	\$8,507

FEE SCHEDULE

<u>Personnel Category</u>	<i>Hourly Billing Rate</i> <u>\$ per hour</u>
Staff Professional – Grade 1	\$ 141
Staff Professional – Grade 2	\$ 156
Project Professional – Grade 3	\$ 171
Project Professional – Grade 4	\$ 191
Senior Professional – Grade 5	\$ 226
Senior Professional – Grade 6	\$ 257
Senior Professional – Grade 7	\$ 306
Senior Consultant – Grade 8	\$ 342
Senior Consultant – Grade 9	\$ 417
Senior Principal – Grade 10	\$ 417

Senior Drafter and Designer	\$ 171
Drafter / Designer and Senior Technician	\$ 156
Field Professional	\$ 128
Technician, Word Processor, Administrative Staff	\$ 127
Office Aide	\$ 99

These rates are billed for both regular and overtime hours in all categories.

Rates will increase up to 5% annually, at GEI's option, for all contracts that extend beyond twelve (12) months after the date of the contract. Rates for Deposition and Testimony are increased 1.5 times.

OTHER PROJECT COSTS

Subconsultants, Subcontractors and Other Project Expenses - All costs for subconsultants, subcontractors and other project expenses will be billed at cost plus a 15% service charge. Examples of such expenses ordinarily charged to projects are subcontractors; subconsultants: chemical laboratory charges; rented or leased field and laboratory equipment; outside printing and reproduction; communications and mailing charges; reproduction expenses; shipping costs for samples and equipment; disposal of samples; rental vehicles; fares for travel on public carriers; special fees for insurance certificates, permits, licenses, etc.; fees for restoration of paving or land due to field exploration, etc.; state and local sales and use taxes and state taxes on GEI fees. The 15% service charge will not apply to GEI-owned equipment and vehicles or in-house reproduction expenses.

Field and Laboratory Equipment Billing Rates – GEI-owned field and laboratory equipment such as pumps, sampling equipment, monitoring instrumentation, field density equipment, portable gas chromatographs, etc. will be billed at a daily, weekly, or monthly rate, as needed for the project. Expendable supplies are billed at a unit rate.

Transportation and Subsistence - Automobile expenses for GEI or employee owned cars will be charged at the rate per mile set by the Internal Revenue Service for tax purposes plus tolls and parking charges or at a day rate negotiated for each project. When required for a project, four-wheel drive vehicles owned by GEI or the employees will be billed at a daily rate appropriate for those vehicles. Per diem living costs for personnel on assignment away from their home office will be negotiated for each project.

PAYMENT TERMS

Invoices will be submitted monthly or upon completion of a specified scope of service, as described in the accompanying contract (proposal, project, or agreement document that is signed and dated by GEI and CLIENT).

Payment is due upon receipt of the invoice. Interest will accrue at the rate of 1% of the invoice amount per month, for amounts that remain unpaid more than 30 days after the invoice date. All payments will be made by either check or electronic transfer to the address specified by GEI and will include reference to GEI's invoice number.



Learn more about what's happening with your community's groundwater resources

Local agencies are implementing a plan to continue the long-term sustainability of the region's groundwater supplies and protect groundwater users in the region. *If you use groundwater for your home, farm, or business this may affect you.* To learn more about the groundwater in your region and how it is being managed, please join us for an in-person public meeting:

Date: Thursday, June 29, 2023

Time: 6:00 PM – 7:30 PM

Location: Tracy City Hall Room 203
(333 Civic Center Plz, Tracy, CA 95376)

[Click here](#) or scan the QR code to add the meeting to your calendar. For questions, please contact Ms. Khandriale Clark at khandriale.clark@stantec.com or 916-418-8277.



Stewart
Tract



For more information, visit: tracysubbasin.org