

Joint Telephonic Meeting of the
Northern Delta-Mendota Region Management Committee,
Central Delta-Mendota Region Management Committee, and
Central Delta-Mendota GSA

Wednesday, November 18th, 2020, 1:00 PM

Click here to join Zoom meeting
Call-in Number: +1-669-900-6833
Meeting ID: 874 0663 3207
Passcode: 912010

Management Committee and Central GSA Members and Alternates Present

Northern DM Region Management Committee

Adam Scheuber, Alternate – Del Puerto Water District
Bobby Pierce, Member – West Stanislaus Irrigation District
Maria Encinas, Alternate – City of Patterson
Walt Ward, Member – Stanislaus County
Lacey McBride, Member – Merced County

Central DM Region Management Committee

Danny Wade*, Member/Alternate – Fresno Slough Water District/Tranquillity Irrigation District
Aaron Barcellos*, Member – Pacheco Water District
Michael Linneman*, Member – Panoche Water District
Ben Fenters*, Alternate – San Luis Water District
Amy Montgomery*, Member – Santa Nella County Water District
Augie Ramirez*, Alternate – Fresno County
Lacey McBride*, Member – Merced County
Damian Aragona, Member – Widren Water District

*Indicates representative, alternate, or 2nd alternate of the Central Delta-Mendota GSA

San Luis & Delta-Mendota Water Authority Representatives Present

Scott Petersen
Joyce Machado
Claire Howard – Provost & Pritchard

Others Present

Chase Hurley – Pacheco Water District
Leslie Dumas – Woodard & Curran
Anona Dutton – EKI Environment & Water, Inc.

1. Call to Order/Roll Call

Aaron Barcellos/Pacheco called the meeting to order at 1:01 PM.

2. Committees to Consider Corrections or Additions to the Agenda of Items, as authorized by Government Code Section 54950 et seq.

No corrections or additions were made to the agenda of items.

3. Opportunity for Public Comment

No public comment was shared.

4. Committees to Review and Take Action on Consent Calendar, Barcellos

- a. Minutes for the October 29, 2020 Joint Telephonic Meeting of the Northern and Central Delta-Mendota Region Management Committees and Central Delta-Mendota GSA

No comments were shared on the October 29th meeting minutes. Walt Ward/Stanslaus provided the motion for the Northern Management Committee and Maria Encinas/Patterson seconded. The Northern Management Committee voted by roll call; the motion was passed. Augie Ramirez/Fresno provided the motion for the Central Management Committee and Amy Montgomery/SNCWD seconded. The Central Management Committee voted by roll call; the motion was passed. Lacey McBride/Merced abstained from the vote for both Management Committees, noting that she was not in attendance for this meeting. Damian Aragona/Widren abstained from the vote for the Central Management Committee, also noting that he was not in attendance for this meeting.

5. Committees to Review and Take Action on Budget to Actual Report, Machado

- a. September 2020 Budget to Actual Report

Joyce Machado/SLDMWA reviewed the budget to actual report. Walt Ward/Stanslaus asked about the status of grant reimbursements for past GSP development costs. Joyce explained that one portion of the Proposition 1 grant, which supported GSP development for each GSP group as well as coordinated activities, was reimbursed to the Northern and Central GSAs. This reimbursement was for the Northern and Central Regions GSP development and totaled \$443,461.60; this was disbursed to the Northern and Central GSAs in July 2019. The GSAs provided direction for SLDMWA to hold remaining grant reimbursements to offset negative fund balances.

The Committees approved the September 2020 budget to actual report. Maria Encinas/Patterson provided the motion for the Northern Management Committee and Bobby Pierce/WSID seconded. The Northern Management Committee voted by roll call; the motion was passed unanimously by those present. Danny Wade/TID&FSWD provided the motion for the Central Management Committee and Michael Linneman/Panoche seconded. The Central Management Committee voted by roll call; the motion was passed unanimously by those present.

6. Committees to Consider Approval of Next Steps for Development of Coordinated Annual Report, Howard/Dumas

Claire Howard/P&P reviewed the proposed next steps for the coordinated elements of the Water Year 2020 Annual Report. These elements include an executive summary, section summaries, water surface elevation contour maps, change in storage calculations, and final report development. Leslie Dumas/W&C noted that the approach for calculating change in storage approach for lower aquifer data still needs to be confirmed at the Coordination Committee level. SLDMWA staff recommend the Woodard & Curran and Provost & Pritchard team lead these coordinated elements, with Ken D. Schmidt & Associates leading the contour map development.

The Committees approved the proposed next steps. Walt Ward/Stanislaus provided the motion for the Northern Management Committee and Maria Encinas/Patterson seconded. The Northern Management Committee voted by roll call; the motion was passed unanimously by those present. Augie Ramirez/Fresno provided the motion for the Central Management Committee and Amy Montgomery/SNCWD seconded. The Central Management Committee voted by roll call; the motion was passed unanimously by those present.

7. GSP Group Representatives Report from Subbasin Technical Working Group and Coordination Committee (November 4, 2020 and November 9, 2020), Fenters/Lucchesi

Claire Howard/P&P provided an overview of the recent Subbasin meetings held in early November. The November 4th Technical Working Group meeting provided GSP Group representatives with an opportunity to discuss the Proposition 68 Implementation grant application and potential projects for inclusion. During this meeting, the project proponents confirmed that they will meet separately with SLDMWA staff to discuss the grant application cost share and seek input from DWR regarding project eligibility.

This meeting also provided an opportunity for the TWG and Coordination Committee members to confirm groundwater quality and groundwater level data monitoring efforts. Claire reminded the members that seasonal low groundwater level data must be uploaded to the Subbasin Data Management System (DMS) and the SGMA Monitoring Network Module (MNM) by December 31st.

The November 9th Coordination Committee meeting provided the members an opportunity to discuss the Proposition 68 SGM well census and inventory project statuses and to gather input on the Subbasin subsidence study request for proposals. During this meeting, the Coordination Committee members provided direction for the EKI consultant team to develop the RFP. The members also discussed developing a comment letter on the Madera Subbasin Joint GSP. The public comment period is open through December 23rd on DWR's SGMA Portal. A comment letter will be developed for review by Coordination Committee and Technical Working Group members prior to finalization.

8. GSP Group Representatives Report from Northern and Central Technical Working Group Meeting on Well Census and Inventory (November 6, 2020), Howard

Claire Howard/P&P provided a summary of the recent Northern and Central Technical Working Group meeting, during which Gavin O'Leary/P&P reviewed the Northern and Central Regions' Well Census and Inventory project. Ben Fenters/SLWD noted that the Central Delta-Mendota GSA is compiling information specific to the GSA area. If needed, Central GSA representatives will coordinate with Gavin in additional detail. Claire reminded the Management Committees to share contact information with Gavin to support the project's next steps.

9. Committees to Discuss Three-Month Look-Ahead Schedule, Dutton

Anona Dutton/EKI reviewed the three-month look-ahead schedule with the Committees, and highlighted the recent technical meetings with Coordination Committee and Northern and Central Regions representatives. Anona also noted the upcoming Third Quarter Tracking Tools, which will be described in more detail later in the meeting.

10. Committees to Discuss Well Permit Review Process, Dutton

- a. County Representatives to present updates to individual processes

- b. GSA Representatives to present aspects they would want included in a permit review process (e.g., timing conditions for approval, metering and reporting, etc.)

Anona Dutton/EKI reminded the Committees that previous discussions regarding the well permitting process were held in late summer. An ad-hoc group focused on this topic was not previously established because interest among Management Committee representatives was high. Past meetings were noticed so all interested members could attend, but regular meetings weren't established. Given the varying approaches for each county, Region-wide meetings were not as relevant for reviewing and sharing information on the permit review process.

County and non-county GSA representatives were asked to share individual county processes and desired aspects to include in the permit review approach, respectively. Representatives from Stanislaus, Merced, and Fresno Counties explained the varying statuses of their permitting processes and recent updates, if applicable. The GSA representatives expressed interest in holding small ad-hoc group meetings to discuss permitting processes for each county. These meetings will be led by each County representative, and updates will be shared in the January Management Committees meeting. Anona explained that past information shared to GSA representatives on the well permitting process will be recirculated to support these conversations and provide reference to GSA representatives for approaches taken in other Subbasins and counties.

11. Committees to Discuss Monitoring Activities and Responsibilities and Changes to Representative Monitoring Network Presented in GSP and Access Agreements, Dumas/Howard

Claire Howard/P&P shared that all seasonal low groundwater level data have been collected and have been uploaded to the Subbasin DMS and SGMA MNM. Leslie Dumas/W&C shared that individual meetings with each GSA representative have been held recently and are almost all completed. These meetings provided the GSA representatives an opportunity to discuss monitoring and implementation efforts, including necessary changes to the representative monitoring network if necessary. Leslie noted that the Woodard & Curran team have researched approaches in other states for interconnected surface water monitoring, and will share relevant information with the GSA representatives.

12. Committees to Discuss Third Quarter 2020 GSP Implementation Tracking Tools, Dutton

Anona Dutton/EKI explained that the Third Quarter Tracking Tools have been shared with the GSA representatives and must be complete by December 15th. Anona noted that these Tracking Tools include a section for GSA representatives to track stakeholder engagement activities completed. Information compiled in these Tracking Tools will be included in the next Annual Report.

13. Committees to Discuss Progress on Scoping of Subsidence Study, Petersen

Anona Dutton/EKI reviewed a memo on the Subbasin's Proposition 68 subsidence approach, which outlines three potential options for the Subbasin's subsidence study. Anona explained that this memo was developed to seek input on the study scope prior to the development of a request for proposals (RFP) and a potential grant agreement amendment. Anona explained that the Subbasin Technical Working Group and Coordination Committee representatives will discuss this scope during the upcoming December 2nd meeting. This meeting will also provide an opportunity for state and federal agency representatives from DWR and USBR to provide context and input on the Subbasin's approach to this study.

14. Committees to Review Draft Fiscal Year 2022 Northern and Central SGMA Services Activity Agreement Budgets, Petersen

Scott Petersen/SLDMWA provided an overview of the draft Fiscal Year 2022 SGMA Services Activity Agreement budgets. Scott noted that the budget will be shared via email to Committee members for review after the meeting. Scott explained that he is still awaiting input on anticipated costs for some consultant contracts to include in the budget, but that major revisions aren't expected. He noted that coordinated costs will be developed using a new approach this year through a fund designated solely to coordinated costs and budget. This differs from the current structure, in which coordinated expenses have almost entirely been funded through grants. In the past, coordinated expenses have been covered through the Northern and Central Management Committees' funds.

Scott noted that some non-expended costs from this year's GSP implementation contract will be rolled over into the Fiscal Year 2022 budget. Amy Montgomery/SNCWD noted that she has a concern with using carryover or credits from one fiscal year into the next. Lacey McBride/Merced requested additional detail on the increased staff time reflected in the Fiscal Year 2022 budget.

15. Committees to Discuss Inter-basin Coordination Update, Howard

Claire Howard/P&P explained that a recent meeting was held with Tracy Subbasin representatives to review potential discrepancies between wells used in the Tracy and Delta-Mendota Subbasins' water level contour maps. Claire Howard, Leslie Dumas/W&C, and Walt Ward/Stanslaus attended from the Delta-Mendota Subbasin. Leslie and the Tracy Subbasin technical representative, Richard Shatz, will review the monitoring network information and a follow-up meeting will be held at a time to be determined.

Claire explained that this meeting with Tracy Subbasin representatives is separate from the Facilitation Support Services (FSS) program in place between DWR and the Delta-Mendota Subbasin. Inter-basin coordination meetings with Chowchilla, Madera, and Merced Subbasin representatives will be supported through the FSS program and these meetings will be scheduled in early 2021.

16. Next Steps

- The Subbasin Technical Working Group and Coordination Committee will provide direction on the proposed next steps for the coordinated elements of the Annual Report.
- County representatives will hold small group meetings with GSA representatives in their respective county to discuss well permitting processes.
- The Technical Working Group and Coordination Committee will provide input on the desired approach for the Proposition 68-funded subsidence characterization study.
- Draft Fiscal Year 2022 budgets will be shared with Committee members via email for review.

17. Reports Pursuant to Government Code Section 54954.2(a)(3)

No topics were discussed under this item.

18. Conference with Legal Counsel – Existing Litigation

The Committees will meet in closed session to confer with legal counsel pursuant to Paragraph (1), Subdivision (d) of Government Code Section 54956.9.

California Sportfishing Protection Alliance v. All Persons Interested in the Matter of the Validity of the Northern and Central Delta-Mendota Regions Groundwater Sustainability Plan, et al., Stanislaus County Superior Court, Case No. CV-20-001748 [Delta-Mendota Subbasin SGMA Challenge].

19. Report Out of Closed Session

No closed session was held this meeting.

20. ADJOURNMENT

Aaron Barcellos/Pacheco adjourned the meeting at 3:18 PM.

SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
MARCH 1, 2020 - FEBRUARY 28, 2021
SUSTAINABLE GROUNDWATER MANAGEMENT ACT SERVICES AGREEMENT
ACTIVITY AGREEMENTS BUDGET TO ACTUAL
NORTHERN DELTA-MENDOTA REGION (FUND 64)

Report Period 3/1/20 - 10/31/20
SGMA 12/17/20

EXPENDITURES	Annual Budget	Paid/ Pending	Additional Pending	Total Expenses	Amount Remaining	% of Amt Remaining	Expenses Through
<u>Legal:</u>							
Outside Counsel	\$ 23,040	\$ 35,298	\$ -	\$ 35,298	\$ (12,258)	-53%	9/30/20
Coordinated legal	\$ -						
<u>Other Professional Services:</u>							
Contracts	\$ 594,041	\$ 169,406	\$ -	\$ 169,406	\$ 424,635	71%	9/30/20
<u>Other:</u>							
Program Mgr/Sr. Engineer/Water Policy Dir.	\$ 88,945	\$ 10,235	\$ -	\$ 10,235	\$ 78,710	88%	10/31/20
SCADA Engineer	\$ 2,308	\$ -	\$ -	\$ -	\$ 2,308	100%	
Water Resources Coordinator	\$ 37,722	\$ 8,489	\$ -	\$ 8,489	\$ 29,233	77%	5/31/20
Assistant Engineer 1	\$ 39,367	\$ -	\$ -	\$ -	\$ 39,367	100%	
Accounting	\$ 6,561	\$ 115	\$ -	\$ 115	\$ 6,446	98%	7/31/20
General Counsel	\$ -	\$ 164	\$ -	\$ 164	\$ (164)	0%	9/30/20
Hydrotech 3	\$ 20,088	\$ 6,399	\$ -	\$ 6,399	\$ 13,689	68%	10/31/20
Contract Staff	\$ -	\$ 31,043	\$ -	\$ 31,043	\$ (31,043)	0%	8/31/20
License & Continuing Education	\$ 250	\$ -	\$ -	\$ -	\$ 250	100%	
Conferences & Training	\$ 5,000	\$ 198	\$ -	\$ 198	\$ 4,803	96%	
Travel/Mileage	\$ 5,000	\$ 32	\$ -	\$ 32	\$ 4,968	99%	3/31/20
Group Meetings	\$ 500	\$ -	\$ -	\$ -	\$ 500	100%	
Telephone	\$ 1,250	\$ 539	\$ -	\$ 539	\$ 711	57%	9/30/20
Equipment and Tools	\$ 4,175	\$ 859	\$ -	\$ 859	\$ 3,316	79%	
Software	\$ 4,325			\$ -	\$ 4,325	100%	
Total Expenditures	\$ 832,572	\$ 262,776	\$ -	\$ 262,776	\$ 569,796	68.44%	

Note: 7/30/20 committee meeting approved the extension of EKI'S services through the end of this fiscal year.

SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
MARCH 1, 2020 - FEBRUARY 28, 2021
SUSTAINABLE GROUNDWATER MANAGEMENT ACT SERVICES AGREEMENT
ACTIVITY AGREEMENTS BUDGET TO ACTUAL
CENTRAL DELTA-MENDOTA REGION (FUND 65)

Report Period 3/1/20 - 10/31/20
SGMA 12/17/20

EXPENDITURES	Annual Budget	Paid/ Pending	Additional Pending	Total Expenses	Amount Remaining	% of Amt Remaining	Expenses Through
<u>Legal:</u>							
Outside Counsel	\$ 23,040	\$ 44,686	\$ -	\$ 44,686	\$ (21,646)	-94%	9/30/20
Coordinated legal							
<u>Other Professional Services:</u>							
Contracts	\$ 594,041	\$ 176,244	\$ -	\$ 176,244	\$ 417,797	70%	9/30/20
<u>Other:</u>							
Program Mgr/Sr. Engineer/Water Policy Dir.	\$ 88,945	\$ 10,117	\$ -	\$ 10,117	\$ 78,828	89%	10/31/20
SCADA Engineer	\$ 2,308	\$ -	\$ -	\$ -	\$ 2,308	100%	
Water Resources Coordinator	\$ 37,722	\$ 8,490	\$ -	\$ 8,490	\$ 29,232	77%	5/31/20
Assistant Engineer 1	\$ 39,367	\$ -	\$ -	\$ -	\$ 39,367	100%	
Accounting	\$ 6,561	\$ 115	\$ -	\$ 115	\$ 6,446	98%	7/31/20
General Counsel	\$ -	\$ 1,870	\$ -	\$ 1,870	\$ (1,870)	0%	10/31/20
Hydrotech 3	\$ 20,088	\$ 6,579	\$ -	\$ 6,579	\$ 13,509	67%	10/31/20
Contract Staff	\$ -	\$ 30,047	\$ -	\$ 30,047	\$ (30,047)	0%	8/31/20
Other Services & Expenses	\$ -	\$ -	\$ -	\$ -	\$ -	0%	
License & Continuing Education	\$ 250	\$ -	\$ -	\$ -	\$ 250	100%	
Conferences & Training	\$ 5,000	\$ 198	\$ -	\$ 198	\$ 4,803	96%	
Travel/Mileage	\$ 5,000	\$ 32	\$ -	\$ 32	\$ 4,968	99%	3/31/20
Group Meetings	\$ 500	\$ -	\$ -	\$ -	\$ 500	100%	
Telephone	\$ 1,250	\$ 539	\$ -	\$ 539	\$ 711	57%	9/30/20
Equipment and Tools	\$ 4,175	\$ 859	\$ -	\$ 859	\$ 3,316	79%	
Software	\$ 4,325	\$ -	\$ -	\$ -	\$ 4,325	100%	
Total Expenditures	\$ 832,572	\$ 279,775	\$ -	\$ 279,775	\$ 552,797	66%	

Note: 7/30/20 committee meeting approved the extension of EKI'S services through the end of this fiscal year.

SLDMWA SGMA Activities Budget	
Fiscal Year 2022	
<u>Legal</u>	
Outside Counsel	\$ 46,080
<u>Other Professional Services</u>	
GSP Implementation Contracts	
Northern & Central GSP Implementation Support Services	\$ 450,000
N-C Well Census and Inventory	\$ 76,000
Staff Augmentation Support	\$ 265,284
Five-Year Update - GSP Development ¹	\$ 200,000
Contingency ²	\$ 20,000
<u>'Coordinated Expenses' for Subbasin Coordination Activities</u>	
In-house Salary, Benefits, and Direct Charges	\$ 46,311
Legal	\$ 4,000
Other Professional Services (Staff Augmentation Support, Grant Admin, Coordinated)	\$ 190,441
Other Professional Services (DMS Hosting and Support)	\$ 14,943
<i>Coordinated Subtotal</i>	\$ 260,695
<u>Other</u>	
In-house Salary and Benefits	
Executive Director	\$ 660
General Counsel	\$ 10,199
Water Policy Director	\$ 5,417
Water Resources Program Manager	\$ 127,536
SCADA Engineer	\$ -
Accountant	\$ 7,106
Hydrotech 3	\$ 50,142
Other Professional Services	\$ -
Office Rent (LBAO)	\$ 1,500
License & Continuing Education	\$ 500
Conferences & Training	\$ 10,000
Travel/Mileage	\$ 10,000
Group Meetings	\$ 1,000
Telephone	\$ 2,500
Equipment and Tools	\$ 8,350
Vehicle	\$ -
Software	\$ 7,349
<i>Total Direct Expenditures</i>	\$ 1,555,318
<i>Administrative Expenditures</i>	\$ -

TOTAL EXPENDITURES \$ **1,555,318**

Total North-Central Expenditures (does not include 1/6 of Coordination expenses) \$ *1,299,623*

Notes:

1 - Unrestricted. Requires Management Committee Action/Approval for use. Regular Reporting on Status of Funds.

2 - Unrestricted. Pertinent use includes grant applications, engineering support, and litigation reserve.

Northern Region										
Task	Consultant	Funding Source	Total Hours	Rate	Total Expenses	Grant Hours	Grant Funding	Budget	Notes	
Staff Augmentation Support (1 FTE)	Provost & Pritchard (Claire Howard)	Member Fees	618.0	\$ 69.00	\$ 42,642	\$ -	\$ -	\$ 42,642		
Staff Augmentation Support	EKI Environmental	Member Fees			\$ 90,000	\$ -	\$ -	\$ 90,000	Estimate: \$15k/mo, evenly split between North-Central	
FY21 GSP Implementatation and Annual Report	Woodard & Curran	Member Fees			\$ 65,000	\$ -	\$ -	\$ 65,000	Estimate: \$130k remaining as of 3/1/21	
FY22 GSP Implementation and Annual Report	Woodard & Curran	Member Fees	N/A	N/A	\$ 160,000	\$ -	\$ -	\$ 160,000	Estimate: \$450k contract - \$130k coordination from FY21 remaining	
Well Census and Inventory	Provost & Pritchard	Member Fees/Proposition 68			\$ 38,000	\$ -	\$ 14,250	\$ 38,000	Estimate: \$76k remaining on project budget at end of FY21, \$28.5k remaining on N-C grant allocation	
Central Region										
Task	Consultant	Funding Source	Total Hours	Rate	Total Expenses	Grant Hours	Grant Funding	Budget		
Staff Augmentation Support (1 FTE)	Provost & Pritchard (Claire Howard)	Member Fees	618.0	\$ 69.00	\$ 42,642	\$ -	\$ -	\$ 42,642		
Staff Augmentation Support	EKI Environmental	Member Fees	-	\$ -	\$ 90,000	\$ -	\$ -	\$ 90,000	Estimate: \$15k/mo, evenly split between North-Central	
FY21 GSP Implementatation and Annual Report	Woodard & Curran	Member Fees	-	\$ -	\$ 65,000	\$ -	\$ -	\$ 65,000	Estimate: \$130k remaining as of 3/1/21	
FY22 GSP Implementation and Annual Report	Woodard & Curran	Member Fees	-	\$ -	\$ 160,000	\$ -	\$ -	\$ 160,000	Estimate: \$450k contract - \$130k coordination from FY21 remaining	
Well Census and Inventory	Provost & Pritchard	Member Fees/Proposition 68	-	\$ -	\$ 38,000	\$ -	\$ 14,250	\$ 38,000	Estimate: \$76k remaining on project budget at end of FY21, \$28.5k remaining on N-C grant allocation	

		Estimated Hours											
Northern Region	Notes	Executive Director	General Counsel	Water Policy Director	Water Resources Program Manager	SCADA Engineer	Hydrotech 3	Accountant	Consult (P&P)	Northern GSP Implementation			
Program Administration										Title	Labor Rate	Total Hours	Total Budget
Northern Management Committee Meetings	Assume 2 meetings annually	-	-	2.0	12.0	-	-	4.0	12.0	Executive Director	\$ 164.96	2.0	\$ 329.92
Northern Technical Working Group Meetings	Assume monthly meeting. Estimate total hours and split in half with Central Region	-	-	-	24.0	-	-	-	24.0	General Counsel	\$ 141.65	36.0	\$ 5,099.40
Northern and Central Management Committee Meetings	Assume monthly meeting. Estimate total hours and split in half with Central Region	2.0	-	4.0	36.0	-	-	24.0	36.0	Water Policy Director	\$ 123.12	22.0	\$ 2,708.64
Budget and Schedule Tracking	Assume total hours and split in half with Central Region.	-	12.0	12.0	24.0	-	-	24.0	24.0	Water Resources Program Manager	\$ 101.38	575.0	\$ 58,293.50
General Administration	Assume total hours and split in half with Central Region.	-	-	-	120.0	-	-	-	96.0	Water Resources Program Manager (grants)	\$ 101.38	54.0	\$ 5,474.52
Coordination (intra and interbasin)	Assume total hours and split in half with Central Region.	-	-	-	120.0	-	-	-	96.0	SCADA Engineer	\$ -	-	\$ -
Legal Support	Assume total hours and split in half with Central Region.	-	24.0	-	-	-	-	-	-	Accountant	\$ 68.33	52.0	\$ 3,553.16
		2.0	36.0	18.0	336.0	-	-	52.0	288.0	Hydrotech 3	\$ 58.44	429.0	\$ 25,070.76
Monitoring Program										Staff Augmentation (P&P)	\$ 69.00	558.0	\$ 38,502.00
										Staff Augmentation (P&P) (grants)	\$ 69.00	60.0	\$ 4,140.00
	Assume SLDMWA staff and consultant staff augmentation time, includes upload to DM DMS and to the SGMA portal monitoring module (2x)												
Coordination with Monitoring Entities for Program Implementation		-	-	-	24.0	-	-	-	48.0				
Monitoring Data Collection, QC, and Analysis		-	-	-	24.0	-	-	-	48.0				
Field Monitoring (WL, [including for ISW], WQ, subsidence/land elevation)		-	-	-	12.0	-	429.0	-	24.0				
Establish Monitoring Network for Interconnected Surface Waters		-	-	-	32.0	-	-	-	16.0				
Monitoring Network Module Analysis and Recommendations		-	-	-	4.0	-	-	-	4.0				
		-	-	-	96.0	-	429.0	-	140.0				
Annual Reporting and Analysis													
	Needs to include GSA support in estimating quantities of water use by category. This needs to include upload to the DM DMS, as well as someone actually looking at the resultant hydrographs to make sure that they make sense.												
Data Collection, Compilation, and Review		-	-	-	12.0	-	-	-	12.0				
Coordination of Semi-Annual Data Upload to DWR		-	-	-	2.0	-	-	-	4.0				
	Include subsidence and groundwater extraction data? Include change in storage calculations for Lower Aquifer and Upper Aquifer. Need to reach agreement on lower aquifer model/dataset.												
Analyze and Interpret Hydrologic Data	This is the North-Central component of the Annual Report, coordinated sections are broken down under coordinated costs.	-	-	-	12.0	-	-	-	-				
Annual Report Preparation		-	-	-	12.0	-	-	-	9.0				
Document Review	Assume 2 drafts.	-	-	4.0	16.0	-	-	-	16.0				
Project Meetings	Assume 1 meeting per month for 3 months.	-	-	-	9.0	-	-	-	9.0				
		-	-	4.0	63.0	-	-	-	50.0				
DMS Maintenance													
	Include concept of DMS revision and update as GSAs figure out which wells are appropriate for monitoring, and as findings of well census/inventory are developed?												
DMS Administration, Update, and Maintenance for Northern Region Sites		-	-	-	24.0	-	-	-	24.0				
Subbasin DMS Analysis and Recommendations for Northern Region Sites		-	-	-	8.0	-	-	-	8.0				
Develop Northern DM Region DMS (optional)		-	-	-	-	-	-	-	-				
		-	-	-	32.0	-	-	-	32.0				
Five Year Plan Update													
GSP Implementation													
Interim Goal Evaluation		-	-	-	16.0	-	-	-	16.0				
Data Gap Plan		-	-	-	16.0	-	-	-	16.0				
	Continue 2020 practice of quarterly progress reporting by GSAs and by implementation consultant.	-	-	-	16.0	-	-	-	16.0				
GSP Implementation Evaluation		-	-	-	48.0	-	-	-	48.0				
Special Projects													
Well Census and Inventory (Prop. 68 and Additional)		-	-	-	24.0	-	-	-	24.0				
Subsidence Characterization Study (Prop. 68 and Additional)		-	-	-	24.0	-	-	-	24.0				
Tool Development (optional)		-	-	-	-	-	-	-	-				
		-	-	-	48.0	-	-	-	48.0				
Grant Administration and Development													
Grant Administration Support for Northern Region		-	-	-	6.0	-	-	12.0	12.0				
		-	-	-	6.0	-	-	12.0	12.0				

Central Region	Executive Director	General Counsel	Water Policy Director	Water Resources Program Manager	SCADA Engineer	Hydrotech 3	Accountant	Consult (P&P)
Program Administration								
Central Management Committee Meeting	-	-	2.0	12.0	-	-	4.0	12.0
Central Technical Working Group Meetings	-	-	-	24.0	-	-	-	24.0
Northern and Central Management Committee Meetings	2.0	-	4.0	36.0	-	-	24.0	36.0
Budget and Schedule Tracking	-	12.0	12.0	24.0	-	-	24.0	24.0
General Administration								
	-	-	-	120.0	-	-	-	96.0
Coordination (intra and inter basin)	-	-	-	120.0	-	-	-	96.0
Legal Support	-	24.0	-	-	-	-	-	-
	2.0	36.0	18.0	336.0	-	-	52.0	288.0
Monitoring Program								
Coordination with Monitoring Entities for Program Implementation	-	-	-	24.0	-	-	-	48.0
Monitoring Data Collection, QC, and Analysis	-	-	-	24.0	-	-	-	48.0
Field Monitoring (WL, [including for ISW], WQ, subsidence/land elevation)	-	-	-	12.0	-	429.0	-	24.0
Establish Monitoring Network for Interconnected Surface Waters	-	-	-	32.0	-	-	-	16.0
Monitoring Network Module Analysis and Recommendations	-	-	-	4.0	-	-	-	4.0
	-	-	-	96.0	-	429.0	-	140.0
Annual Reporting and Analysis								
	Needs to include GSA support in estimating quantities of water use by category. This needs to include upload to the DM DMS, as well as someone actually looking at the resultant hydrographs to make sure that they make sense.							
Data Collection, Compilation, and Review	-	-	-	12.0	-	-	-	12.0
Coordination of Semi-Annual Data Upload to DWR	-	-	-	2.0	-	-	-	4.0
	Include subsidence and groundwater extraction data? Include change in storage calculations for Lower Aquifer and Upper Aquifer. Need to reach agreement on lower aquifer model/dataset. This is the North-Central component of the Annual Report, coordinated sections are broken down under coordinated costs.							
Analyze and Interpret Hydrologic Data	-	-	-	12.0	-	-	-	-
Annual Report Preparation	-	-	-	12.0	-	-	-	9.0
Document Review	-	-	4.0	16.0	-	-	-	16.0
Project Meetings	-	-	-	9.0	-	-	-	9.0
	-	-	4.0	63.0	-	-	-	50.0
DMS Maintenance								
DMS Administration, Update, and Maintenance for Central Region Sites	-	-	-	24.0	-	-	-	24.0
Subbasin DMS Analysis and Recommendations for Central Region Sites	-	-	-	8.0	-	-	-	8.0
Develop Central DM Region DMS (optional)	-	-	-	-	-	-	-	-
	-	-	-	32.0	-	-	-	32.0
Five Year Plan Update								
GSP Implementation								
Interim Goal Evaluation	-	-	-	16.0	-	-	-	16.0
Data Gap Plan	-	-	-	16.0	-	-	-	16.0
	Continue 2020 practice of quarterly progress reporting by GSAs and by implementation consultant.							
GSP Implementation Evaluation	-	-	-	16.0	-	-	-	16.0
	-	-	-	48.0	-	-	-	48.0
Special Projects								
Well Census and Inventory (Prop. 68 and Additional)	-	-	-	24.0	-	-	-	24.0
Subsidence Characterization Study (Prop. 68 and Additional)	-	-	-	24.0	-	-	-	24.0
Tool Development (optional)	-	-	-	-	-	-	-	-
	-	-	-	48.0	-	-	-	48.0
Grant Administration and Development								
Grant Administration Support for Central Region	-	-	-	6.0	-	-	12.0	12.0
	-	-	-	6.0	-	-	12.0	12.0

Central GSP Implementation			
Title	Labor Rate	Total Hours	Total Budget
Executive Director	\$ 164.96	2.0	\$ 329.92
General Counsel	\$ 141.65	36.0	\$ 5,099.40
Water Policy Director	\$ 123.12	22.0	\$ 2,708.64
Water Resources Program Manager	\$ 101.38	575.0	\$ 58,293.50
Water Resources Program Manager (grants)	\$ 101.38	54.0	\$ 5,474.52
SCADA Engineer	\$ -	-	\$ -
Accountant	\$ 68.33	52.0	\$ 3,553.16
Hydrotech 3	\$ 58.44	429.0	\$ 25,070.76
Staff Augmentation (P&P)	\$ 69.00	558.0	\$ 38,502.00
Staff Augmentation (P&P) (grants)	\$ 69.00	60.0	\$ 4,140.00
Total		1,674.0	133,557.4
Total (Potential grant funded)		114.0	9,614.5

SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
MARCH 1, 2021 - FEBRUARY 28, 2022
NORTHERN DELTA-MENDOTA REGION COST ALLOCATION

	GSA Acreage to Allocate	TOTAL SGMA	Other Professional Services	Equal Split between # of GSAs 5	Authority & Legal
DIVISION 1					
	%	\$ 649,811	\$ 505,642	%	\$ 144,169
1. Banta-Carbona ID	0.00000%	\$ -	\$ -	0.00000%	\$ -
2. City of Tracy	0.00000%	\$ -	\$ -	0.00000%	\$ -
3. Del Puerto Water District (DPWD 52,570 ac + Oak Flat 4,503 ac)	57,073 35.61387%	\$ 208,913	\$ 180,079	20.00000%	\$ 28,834
3A. Del Puerto (92% of DPWD GSA Cost)		\$ 192,200			
3B. Oak Flat (8% of DPWD GSA Cost)		\$ 16,713			
4. Patterson Irrigation District (PID 13,067 ac + Twin Oaks 2,629 ac)	15,696 9.79439%	\$ 78,358	\$ 49,525	20.00000%	\$ 28,834
5. Byron Bethany Irrigation District	0.00000%	\$ -	\$ -		
6. West Side Irrigation District	0.00000%	\$ -	\$ -	0.00000%	\$ -
7. West Stanislaus ID (WSID 21,299 ac + Grayson/Westley 246 ac)	21,545 13.44420%	\$ 96,813	\$ 67,980	20.00000%	\$ 28,834
Total Division 1	94,314 58.8525%	\$ 384,084	\$ 297,583		\$ 86,502
DIVISION 2					
1. Panoche Water District	0.00000%	\$ -	\$ -		
2. San Luis Water District	0.00000%	\$ -	\$ -		
3. Westlands Water District (1)	0.00000%	\$ -	\$ -		
4. Charleston Drainage District	0.00000%	\$ -	\$ -	0.00000%	\$ -
5. Panoche Drainage District	0.00000%	\$ -	\$ -	0.00000%	\$ -
6. Pleasant Valley	0.00000%	\$ -	\$ -	0.00000%	\$ -
Total Division 2	0 0.00000%	\$ -	\$ -		\$ -
DIVISION 3					
1. Central California Irrigation District**	0.00000%	\$ -	\$ -	0.00000%	\$ -
2. Firebaugh Canal Water District**	0.00000%	\$ -	\$ -	0.00000%	\$ -
3. Grassland Water District	0.00000%	\$ -	\$ -	0.00000%	\$ -
4. HMRD #2131**	0.00000%	\$ -	\$ -	0.00000%	\$ -
5. Columbia Canal Company (Friend Member)**	0.00000%	\$ -	\$ -	0.00000%	\$ -
6. Camp 13 Drainers	0.00000%	\$ -	\$ -	0.00000%	\$ -
Total Division 3	0 0.00000%	\$ -	\$ -		\$ -
DIVISION 4					
1. San Benito County Water District		\$ -	\$ -	0.00000%	\$ -
2. Santa Clara Valley Water District (2)		\$ -	\$ -	0.00000%	\$ -
Total Division 4	0 0.00000%	\$ -	\$ -		\$ -
DIVISION 5					
1. Broadview Water District	0.00000%	\$ -	\$ -		
2. Eagle Field Water District	0 0.00000%	\$ -	\$ -		
3. Fresno Slough WD** -withdrew 8/31/11	0 0.00000%	\$ -	\$ -	0.00000%	\$ -
4. James Irrigation District**	0.00000%	\$ -	\$ -	0.00000%	\$ -
5. Laguna Water District	0.00000%	\$ -	\$ -		
6. Mercy Springs Water District	0 0.00000%	\$ -	\$ -		
7. Oro Loma Water District	0 0.00000%	\$ -	\$ -	0.00000%	\$ -
8. Pacheco Water District	0 0.00000%	\$ -	\$ -		
9. Reclamation District 1606**	0.00000%	\$ -	\$ -	0.00000%	\$ -
10. Tranquillity ID** -withdrew 8/31/11	0 0.00000%	\$ -	\$ -	0.00000%	\$ -
11. Turner Island Water District	0 0.00000%	\$ -	\$ -	0.00000%	\$ -
Total Division 5	0 0.00%	\$ -	\$ -		\$ -
OTHER					
1. Northwestern Delta Mendota Subbasin GSA (Stan. Cty 56,766 ac + Merced Cty 3,035 ac)	59,801 37.31615%	\$ 217,520	\$ 188,686	20.00000%	\$ 28,834
1a. Merced County (5% of Northwestern DM GSA Cost)		\$ 10,876			
1b. Stanislaus County (95% of Northwestern DM GSA Cost)		\$ 206,644			
2. City of Patterson GSA	6,140 3.83139%	\$ 48,207	\$ 19,373	20.00000%	\$ 28,834
3. Fresno County	0 0.00000%	\$ -	\$ -	0.00000%	\$ -
4. Merced County	0 0.00000%	\$ -	\$ -	0.00000%	\$ -
5. Santa Nella County Water District	0 0.00000%	\$ -	\$ -		
6. Widren GSA	0 0.00000%	\$ -	\$ -		
Total Other	65,941 41.1475%	\$ 265,727	\$ 208,059	100.00%	\$ 57,668
	160,255 100.00%	\$ 649,811	\$ 505,642		\$ 144,169.40

SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
MARCH 1, 2021 - FEBRUARY 28, 2022
CENTRAL DELTA-MENDOTA REGION COST ALLOCATION

		Central DM Multi Agency GSA	% of Central Region Acreage	Total SGMA Central	Equal Split of 83.34%	% of Contribution	Non-Central GSA 1/12 Equal Split
DIVISION 1	Total Acres	Acres		\$ 649,811			
1. Banta-Carbona ID -withdrew 5/31/11			0.00000%	\$ -	\$ -	0.00%	\$ -
2. City of Tracy			0.00000%	\$ -	\$ -	0.00%	\$ -
3. Del Puerto Water District - withdrew 5/31/11	0	0	0.00000%	\$ -	\$ -	0.00%	\$ -
4. Patterson Irrigation District	0	0	0.00000%	\$ -	\$ -	0.00%	\$ -
5. Byron Bethany Irrigation District			0.00000%	\$ -	\$ -	0.00%	\$ -
6. West Side Irrigation District			0.00000%	\$ -	\$ -	0.00%	\$ -
7. West Stanislaus ID -withdrew 5/31/11	0	0	0.00000%	\$ -	\$ -	0.00%	\$ -
Total Division 1	0	0	0.00000%	\$ -	\$ -		\$ -
DIVISION 2							
1. Panoche Water District*	38,317	38,317	23.74069%	\$ 54,151	\$ 54,151	8.33%	\$ -
2. San Luis Water District*	55,316	55,316	34.27304%	\$ 54,151	\$ 54,151	8.33%	\$ -
3. Westlands Water District (1)			0.00000%	\$ -	\$ -	0.00%	\$ -
4. Charleston Drainage District			0.00000%	\$ -	\$ -	0.00%	\$ -
5. Panoche Drainage District			0.00000%	\$ -	\$ -	0.00%	\$ -
6. Pleasant Valley			0.00000%	\$ -	\$ -	0.00%	\$ -
Total Division 2	93,633	93,633	58.01373%	\$ 108,302	\$ 108,302		\$ -
DIVISION 3							
1. Central California Irrigation District			0.00000%	\$ -	\$ -	0.00%	\$ -
2. Firebaugh Canal Water District			0.00000%	\$ -	\$ -	0.00%	\$ -
3. Grassland Water District			0.00000%	\$ -	\$ -	0.00%	\$ -
4. HMRD #2131			0.00000%	\$ -	\$ -	0.00%	\$ -
5. Columbia Canal Company (Friend Member)			0.00000%	\$ -	\$ -	0.00%	\$ -
6. Camp 13 Drainers			0.00000%	\$ -	\$ -	0.00%	\$ -
Total Division 3	0	0	0.00000%	\$ -	\$ -		\$ -
DIVISION 4							
1. San Benito County Water District				\$ -	\$ -	0.00%	\$ -
2. Santa Clara Valley Water District (2)				\$ -	\$ -	0.00%	\$ -
Total Division 4	0	0	0.00000%	\$ -	\$ -		\$ -
DIVISION 5							
1. Broadview Water District			0.00000%	\$ -	\$ -	0.00%	\$ -
2. Eagle Field Water District*	1,325	1,325	0.82095%	\$ 54,151	\$ 54,151	8.33%	\$ -
3. Fresno Slough WD*	1,459	1,459	0.90398%	\$ 54,151	\$ 54,151	8.33%	\$ -
4. James Irrigation District			0.00000%	\$ -	\$ -	0.00%	\$ -
5. Laguna Water District			0.00000%	\$ -	\$ -	0.00%	\$ -
6. Mercy Springs Water District*	3,840	3,840	2.37921%	\$ 54,151	\$ 54,151	8.33%	\$ -
7. Oro Loma Water District (Not included in MA % C	1,258		0.76926%	\$ 54,151	\$ -	8.33%	\$ 54,151
8. Pacheco Water District*	4,999	4,999	3.09731%	\$ 54,151	\$ 54,151	8.33%	\$ -
9. Reclamation District 1606			0.00000%	\$ -	\$ -	0.00%	\$ -
10. Tranquillity ID*	10,750	10,750	6.66055%	\$ 54,151	\$ 54,151	8.33%	\$ -
11. Turner Island Water District		0	0.00000%	\$ -	\$ -	0.00%	\$ -
Total Division 5	23,631	22,373	13.86%	\$ 324,906	\$ 270,755		\$ 54,151
OTHER							
1. Northwestern Delta Mendota Subbasin GSA	0	0	0.00000%	\$ -	\$ -	0.00%	\$ -
2. City of Patterson GSA	0	0	0.00000%	\$ -	\$ -	0.00%	\$ -
3. Fresno County*	29,728	29,728	18.41906%	\$ 54,151	\$ 54,151	8.33%	\$ -
4. Merced County*	14,176	14,176	8.78326%	\$ 54,151	\$ 54,151	8.33%	\$ -
5. Santa Nella County Water District*	1,488	1,488	0.92194%	\$ 54,151	\$ 54,151	8.33%	\$ -
6. Widren GSA (Not included in MA % Calculation)	877		0.53628%	\$ 54,151	\$ -	8.33%	\$ 54,151
Total Other	46,269	45,392	28.12%	\$ 216,604	\$ 162,453		\$ 54,151
	163,533	161,398	100.00%	\$ 649,811	\$ 541,510	100.00%	\$ 108,302

*Note: 83.34% Factor due to Central DM Multi-Agency Allocation of 84.34%; Widren and Oro Loma flat 8.33% each.

DRAFT -- FY22 Coordination Committee Budget 12/14/2020

SLDMWA SGMA Coordination Committee Budget	
Fiscal Year 2022	
<u>Legal</u>	
Outside Counsel*	\$ 4,000
<u>Other Professional Services</u>	
GSP Implementation Contracts	
Coordinated Annual Report Activities (Common Chapter, Water Level Contouring)	\$ 10,500
DMS Hosting, Augmentation and Support	\$ 14,943
Staff Augmentation Support (Provost & Pritchard)	\$ 18,285
Proposition 68 Grant Administration	
Component 1 (Grant Administration)**	\$ 30,000
Component 2 (Technical Assistance)***	\$ 45,000
Component 11 (Subsidence Characterization)****	\$ 85,000
<i>Contracts Subtotal</i>	\$ 203,728
<u>Other</u>	
In-house Salary and Benefits	
Executive Director	\$ 3,332
General Counsel	\$ 5,130
Water Policy Director	\$ 4,920
Water Resources Program Manager	\$ 41,290
SCADA Engineer	\$ -
Accountant	\$ 5,838
Hydrotech 3	\$ -
Other Professional Services	\$ -
License & Continuing Education	\$ -
Conferences & Training	\$ -
Travel/Mileage	\$ -
Group Meetings	\$ -
Telephone	\$ -
Equipment and Tools	\$ -
Vehicle	\$ -
Software	\$ -
<i>Total Direct Expenditures</i>	\$ 268,238
<i>Administrative Expenditures</i>	\$ -

TOTAL EXPENDITURES**\$ 268,238****Notes:**

1 - Unrestricted. Requires Management Committee Action/Approval for use. Regular Reporting on Status of Funds.

2 - Unrestricted. Pertinent use includes grant applications, engineering support, and litigation reserve.

* - Cost not to exceed without Committee authorization

//* - Cost to be allocated by beneficiary.

Coordinated											
Task	Consultant	Funding Source	Hours	Rate	Cost	Grant Hours	Grant Funding	Budget			
Staff Augmentation Support (1 FTE)	Provost & Pritchard (Claire Howard)	Member Fees	265.0	\$ 69.00	\$ 18,285	\$ -	\$ -	\$ 18,285			
DMS Hosting and Support	Houston Engineering	Member Fees	-	\$ -	\$ 14,943	\$ -	\$ -	\$ 14,943			
FY 22 GSP Implementation and Coordinated Annual Report Sections (Annual Report Compilation & Water Level Contour Mapping)	Woodard & Curran/Ken Schmidt and Associates	Member Fees	-	\$ -	\$ 10,500	\$ -	\$ -	\$ 10,500			
DM Subbasin Proposition 68 Grant Administration	Woodard & Curran	Member Fees/Proposition 68	-	\$ -	\$ 30,000		\$ 25,000	\$ 30,000			
Component 1 (Grant Administration)	Woodard & Curran	Member Fees/Proposition 68	-	\$ -	\$ 45,000		\$ 100,000	\$ 45,000			
Component 2 (Technical Assistance)	Woodard & Curran	Member Fees/Proposition 68	-	\$ -	\$ -		\$ 41,667	\$ -			
Component 7 (Aliso GSP)	Woodard & Curran	Member Fees/Proposition 68	-	\$ -	\$ -		\$ 21,500	\$ -			
Component 10 (Well Census)	Woodard & Curran/Provost & Pritchard	Member Fees/Proposition 68	-	\$ -	\$ 85,000		\$ 85,000	\$ 85,000			
Component 11 (Subsidence Characterization)	Woodard & Curran	Proposition 68	521.5	\$ -							
Facilitation Support Services (Interbasin Coordination)	Stantec has contract with DWR										
								Total:	\$ 203,728		

\$10,000 for hosting and base support. Additional budget for tasks:

1. Allow for acceptance/override of data collected outside the allocated monitoring window into the DMS (3 hours / \$387)
2. Auto-generate the two graphs that include cumulative change in storage. (7 hrs / \$937 to just add it to the annual PDF report or 14 hours / \$1,874 to add it to both annual report and UI)
3. Programming that allows any person authorized as a GSP representative to download a report containing their GSP group (only) data (6 hours / \$808)
4. Allow for data visualization before new data is finalized (i.e., create hydrographs or chemographs) to display with historic data to perform QC (14 hours / \$1,874)

\$1,000 for DMS portions of Coordinated Sections of the Annual Report, plus \$7,000 for estimated Ken Schmidt time, plus \$2,500 for Coordinated Sections of Annual Report. Note: Scope individual task for coordinated sections of annual report

Cost to be allocated to beneficiaries.
Cost to be allocated to beneficiaries.

Not assuming any work above grant funded amount. Cost to be allocated to beneficiaries.
Stantec direct contract with DWR.

Coordinated Region		Executive Director	General Counsel	Water Policy Director	Water Resources Program Manager	SCADA Engineer	Hydrotech 3	Accountant	Consult (P&P)
Program Administration									
Coordination Committee Meetings	Assume Quarterly Meetings + 2 for Annual Report	4.0	4.0	8.0	36.0	-	-	18.0	36.0
Coordinated Technical Working Group Meetings	Assume Quarterly Meetings + 2 for Annual Report	-	-	-	36.0	-	-	-	36.0
Budget and Schedule Tracking		-	6.0	6.0	24.0	-	-	36.0	12.0
General Administration		-	-	-	12.0	-	-	-	12.0
Coordination		8.0	-	8.0	30.0	-	-	-	48.0
Legal Support		-	12.0	-	-	-	-	-	-
Total		12.0	22.0	22.0	138.0	-	-	54.0	144.0
Monitoring Program									
Coordination with Monitoring Entities/Consultants for program implementation		-	-	-	24.0	-	-	-	24.0
Monitoring Data QC and Analysis		-	-	-	-	-	-	-	-
Monitoring		-	-	-	-	-	-	-	-
		-	-	-	24.0	-	-	-	24.0
Annual Reporting and Analysis									
Data Compilation		-	-	-	6.0	-	-	-	12.0
Analyze and Interpret Hydrologic Data	Include subsidence and groundwater extraction data?	-	-	-	6.0	-	-	-	6.0
Water Level Contour Map(s) Development		-	-	-	6.0	-	-	-	6.0
Coordinated Annual Report Preparation		-	-	-	8.0	-	-	-	8.0
Coordinated Annual Report Review	Assume 2 drafts	-	-	2.0	4.0	-	-	-	6.0
Project Meetings	Assume 1 meeting per month for 3 months.	-	-	-	9.0	-	-	-	9.0
		-	-	2.0	39.0	-	-	-	47.0
DMS Maintenance									
DMS Administration		-	-	-	24.0	-	-	-	24.0
DMS Hosting		-	-	-	2.0	-	-	-	2.0
DMS Upgrades (Optional)		-	-	-	-	-	-	-	-
		-	-	-	26.0	-	-	-	26.0
Five Year Plan Update									
GSP Implementation									
Interim Goal Evaluation (subbasin SMC)		-	-	-	8.0	-	-	-	8.0
Data Gap Plan (subbasin wide)		-	-	-	8.0	-	-	-	8.0
GSP Implementation Evaluation (Subbasin SMC and GSP Region Check-ins)		-	-	-	8.0	-	-	-	8.0
		-	-	-	24.0	-	-	-	24.0
Special Projects									
Tool Development		-	-	-	-	-	-	-	-
Prop. 68 Round 1 Implementation (SPA)		-	-	-	12.0	-	-	-	12.0
		-	-	-	12.0	-	-	-	12.0
Grant Administration and Development									
Proposition 1 and Proposition 68 Grand Funding Administration									
Component 1: Grant Administration		-	-	-	12.0	-	-	6.0	12.0
Component 2: Technical Assistance Services	DAC Support and Project Development	-	-	-	12.0	-	-	6.0	12.0
Component 3: Generic Data Management System		-	-	-	-	-	-	-	-
Component 10: Well Census and Inventory		-	-	-	24.0	-	-	6.0	24.0
Component 11: Subsidence Characterization and Project Feasibility Determination		-	-	-	24.0	-	-	6.0	24.0
DWR FSS: Interbasin Coordination Efforts (existing contract w/ DWR; work by Stantec)	SLDMWA staff/consultant time not reimbursable	-	-	-	24.0	-	-	6.0	24.0
DOC Watershed Coordinator Grant (optional, if awarded)		-	-	-	12.0	-	-	6.0	12.0
Prop. 68 Round 2 Implementation Grant Application (optional)		-	-	-	-	-	-	-	-
		-	-	-	108.0	-	-	36.0	108.0

Coordinated Staffing Costs			
Title	Labor Rate	Total Hours	Total Budget
Executive Director	\$ 277.66	12.0	\$ 3,331.92
General Counsel	\$ 233.19	22.0	\$ 5,130.18
Water Policy Director	\$ 204.98	24.0	\$ 4,919.52
Water Resources Program Manager	\$ 164.50	251.0	\$ 41,289.50
SCADA Engineer	\$ 143.14	-	\$ -
Accountant	\$ 108.12	54.0	\$ 5,838.48
Hydrotech 3	\$ 91.24	-	\$ -
Staff Augmentation (P&P)	\$ 69.00	265.0	\$ 18,285.00
		363.0	\$ 78,794.60

DRAFT -- FY22 Coordination Committee Budget**12/17/2020**

SLDMWA SGMA Coordination Committee Budget	
Fiscal Year 2022	
<u>Legal</u>	
Outside Counsel*	\$ 4,000
<u>Other Professional Services</u>	
GSP Implementation Contracts	
Coordinated Annual Report Activities (Common Chapter, Water Level Contouring)	\$ 10,500
DMS Hosting, Augmentation and Support	\$ 14,943
Staff Augmentation Support (Provost & Pritchard)	\$ 19,941
Proposition 68 Grant Administration	
Component 1 (Grant Administration)**	\$ 30,000
Component 2 (Technical Assistance)***	\$ 45,000
Component 11 (Subsidence Characterization)****	\$ 85,000
<i>Contracts Subtotal</i>	\$ 205,384
<u>Other</u>	
In-house Salary and Benefits	
Executive Director	\$ 1,980
General Counsel	\$ 3,116
Water Policy Director	\$ 2,955
Water Resources Program Manager	\$ 34,571
SCADA Engineer	\$ -
Accountant	\$ 3,690
Hydrotech 3	\$ -
Other Professional Services	\$ -
License & Continuing Education	\$ -
Conferences & Training	\$ -
Travel/Mileage	\$ 2,000
Group Meetings	\$ 1,000
Office Space	\$ 500
Telephone	\$ 500
Equipment and Tools	\$ 1,000
Vehicle	\$ -
Software	\$ -
<i>Total Direct Expenditures</i>	\$ 260,695
<i>Administrative Expenditures</i>	\$ -
TOTAL EXPENDITURES	\$ 260,695

Notes:

1 - Unrestricted. Requires Management Committee Action/Approval for use. Regular Reporting on Status of Funds.

2 - Unrestricted. Pertinent use includes grant applications, engineering support, and litigation reserve.

* - Cost not to exceed without Committee authorization

//* - Cost to be allocated by beneficiary.

Coordinated										
Task	Consultant	Funding Source	Hours		Rate		Cost	Grant Hours	Grant Funding	Budget
Staff Augmentation Support (1 FTE)	Provost & Pritchard (Claire Howard)	Member Fees	289.0	\$	69.00	\$	19,941	\$ -	\$ -	\$ 19,941
DMS Hosting and Support	Houston Engineering	Member Fees	-	\$	-	\$	14,943	\$ -	\$ -	\$ 14,943
FY 22 GSP Implementation and Coordinated Annual Report Sections (Annual Report Compilation & Water Level Contour Mapping)	Woodard & Curran/Ken Schmidt and Associates									
DM Subbasin Proposition 68 Grant Administration	Woodard & Curran	Member Fees	-	\$	-	\$	10,500	\$ -	\$ -	\$ 10,500
Component 1 (Grant Administration)	Woodard & Curran	Member Fees/Proposition 68	-	\$	-	\$	30,000		\$ 25,000	\$ 30,000
Component 2 (Technical Assistance)	Woodard & Curran	Member Fees/Proposition 68	-	\$	-	\$	45,000		\$ 100,000	\$ 45,000
Component 7 (Aliso GSP)	Woodard & Curran	Member Fees/Proposition 68	-	\$	-	\$	-		\$ 41,667	\$ -
Component 10 (Well Census)	Woodard & Curran/Provost & Pritchard	Member Fees/Proposition 68	-	\$	-	\$	-		\$ 21,500	\$ -
Component 11 (Subsidence Characterization)	Woodard & Curran	Member Fees/Proposition 68	-	\$	-	\$	85,000		\$ 85,000	\$ 85,000
Facilitation Support Services (Interbasin Coordination)	Stantec has contract with DWR	Proposition 68	521.5	\$	-					
										Total:
										\$ 205,384

\$10,000 for hosting and base support. Additional budget for tasks:

1. Allow for acceptance/override of data collected outside the allocated monitoring window into the DMS (3 hours / \$387)
2. Auto-generate the two graphs that include cumulative change in storage. (7 hrs / \$937 to just add it to the annual PDF report or 14 hours / \$1,874 to add it to both annual report and UI)
3. Programming that allows any person authorized as a GSP representative to download a report containing their GSP group (only) data (6 hours / \$808)
4. Allow for data visualization before new data is finalized (i.e., create hydrographs or chemographs) to display with historic data to perform QC (14 hours / \$1,874)

\$1,000 for DMS portions of Coordinated Sections of the Annual Report, plus \$7,000 for estimated Ken Schmidt time, plus \$2,500 for Coordinated Sections of Annual Report. Note: Scope individual task for coordinated sections of annual report

Cost to be allocated to beneficiaries.

Cost to be allocated to beneficiaries.

Not assuming any work above grant funded amount. Cost to be allocated to beneficiaries.

Stantec direct contract with DWR.

Coordinated Region		Executive Director	General Counsel	Water Policy Director	Water Resources Program Manager	SCADA Engineer	Hydrotech 3	Accountant	Consult (P&P)	Coordinated Staffing Costs			
Program Administration										<u>Title</u>	<u>Labor Rate</u>	<u>Total Hours</u>	<u>Total Budget</u>
Coordination Committee Meetings	Assume Quarterly Meetings + 2 for Annual Report	4.0	4.0	8.0	48.0	-	-	18.0	48.0	Executive Director	\$ 164.96	12.0	\$ 1,979.52
Coordinated Technical Working Group Meetings	Assume Quarterly Meetings + 2 for Annual Report	-	-	-	48.0	-	-	-	48.0	General Counsel	\$ 141.65	22.0	\$ 3,116.30
Budget and Schedule Tracking		-	6.0	6.0	24.0	-	-	36.0	12.0	Water Policy Director	\$ 123.12	24.0	\$ 2,954.88
General Administration		-	-	-	12.0	-	-	-	12.0	Water Resources Program Manager	\$ 101.38	341.0	\$ 34,570.58
Coordination		8.0	-	8.0	36.0	-	-	-	48.0	SCADA Engineer	\$ -	-	\$ -
Legal Support		-	12.0	-	-	-	-	-	-	Accountant	\$ 68.33	54.0	\$ 3,689.82
Total		12.0	22.0	22.0	168.0	-	-	54.0	168.0	Hydrotech 3	\$ 58.44	-	\$ -
Monitoring Program										Staff Augmentation (P&P)	\$ 69.00	289.0	\$ 19,941.00
Coordination with Monitoring Entities/Consultants for program implementation		-	-	-	48.0	-	-	-	24.0			453.0	\$ 66,252.10
Monitoring Data QC and Analysis		-	-	-	-	-	-	-	-				
Monitoring		-	-	-	-	-	-	-	-				
Annual Reporting and Analysis													
Data Compilation		-	-	-	12.0	-	-	-	12.0				
Analyze and Interpret Hydrologic Data	Include subsidence and groundwater extraction data?	-	-	-	12.0	-	-	-	6.0				
Water Level Contour Map(s) Development		-	-	-	6.0	-	-	-	6.0				
Coordinated Annual Report Preparation		-	-	-	8.0	-	-	-	8.0				
Coordinated Annual Report Review	Assume 2 drafts	-	-	2.0	4.0	-	-	-	6.0				
Project Meetings	Assume 1 meeting per month for 3 months.	-	-	-	9.0	-	-	-	9.0				
DMS Maintenance		-	-	2.0	51.0	-	-	-	47.0				
DMS Administration		-	-	-	48.0	-	-	-	24.0				
DMS Hosting		-	-	-	2.0	-	-	-	2.0				
DMS Upgrades (Optional)		-	-	-	-	-	-	-	-				
Five Year Plan Update		-	-	-	50.0	-	-	-	26.0				
GSP Implementation													
Interim Goal Evaluation (subbasin SMC)		-	-	-	8.0	-	-	-	8.0				
Data Gap Plan (subbasin wide)		-	-	-	8.0	-	-	-	8.0				
GSP Implementation Evaluation (Subbasin SMC and GSP Region Check-ins)		-	-	-	8.0	-	-	-	8.0				
Special Projects		-	-	-	24.0	-	-	-	24.0				
Tool Development		-	-	-	-	-	-	-	-				
Prop. 68 Round 1 Implementation (SPA)		-	-	-	12.0	-	-	-	12.0				
Grant Administration and Development		-	-	-	12.0	-	-	6.0	12.0				
Proposition 1 and Proposition 68 Grand Funding Administration		-	-	-	12.0	-	-	6.0	12.0				
Component 1: Grant Administration		-	-	-	-	-	-	-	-				
Component 2: Technical Assistance Services	DAC Support and Project Development	-	-	-	-	-	-	-	-				
Component 3: Generic Data Management System		-	-	-	24.0	-	-	6.0	24.0				
Component 10: Well Census and Inventory		-	-	-	24.0	-	-	6.0	24.0				
Component 11: Subsidence Characterization and Project Feasibility Determination		-	-	-	24.0	-	-	6.0	24.0				
DWR FSS: Interbasin Coordination Efforts (existing contract w/ DWR; work by Stantec)	SLDMWA staff/consultant time not reimbursable	-	-	-	24.0	-	-	6.0	24.0				
DOC Watershed Coordinator Grant (optional, if awarded)		-	-	-	12.0	-	-	6.0	12.0				
Prop. 68 Round 2 Implementation Grant Application (optional)		-	-	-	-	-	-	-	-				
		-	-	-	108.0	-	-	36.0	108.0				

SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
MARCH 1, 2021 - FEBRUARY 28, 2022
COORDINATED DELTA-MENDOTA REGION COST ALLOCATION

				Total SGMA Coordinated	Other Professional Services	% of	Authority & Legal
	Total Acres	Central DM Multi Agency GSA Acres	%			Contribution	
DIVISION 1				\$ 100,695	\$ 45,384		\$ 55,311
1. Banta-Carbona ID			0.00000%	\$ -	\$ -	0.00%	\$ -
2. City of Tracy			0.00000%	\$ -	\$ -	0.00%	\$ -
3. Del Puerto Water District (DPWD 52,570 ac + Oak Flat 4,503 ac)	57,073	0	1.66667%	\$ 1,678	\$ 756	1.67%	\$ 922
3A. Del Puerto (92% of DPWD GSA Cost)			0.00000%	\$ 1,544			
3B. Oak Flat (8% of DPWD GSA Cost)			0.00000%	\$ 134			
4. Patterson Irrigation District (PID 13,067 ac + Twin Oaks 2,629 ac)	15,696	0	1.66667%	\$ 1,678	\$ 756	1.67%	\$ 922
5. Byron Bethany Irrigation District			0.00000%	\$ -	\$ -	0.00%	\$ -
6. West Side Irrigation District			0.00000%	\$ -	\$ -	0.00%	\$ -
7. West Stanislaus ID (WSID 21,299 ac + Grayson/Westley 246 ac)	21,545	0	1.66667%	\$ 1,678	\$ 756	1.67%	\$ 922
Total Division 1	94,314	0	5.00000%	\$ 5,035	\$ 2,269		\$ 2,766
DIVISION 2							
1. Panoche Water District	38,317	38,317	0.69444%	\$ 699	\$ 315	0.69%	\$ 384
2. San Luis Water District	55,316	55,316	0.69444%	\$ 699	\$ 315	0.69%	\$ 384
3. Westlands Water District (1)			0.00000%	\$ -	\$ -	0.00%	\$ -
4. Charleston Drainage District			0.00000%	\$ -	\$ -	0.00%	\$ -
5. Panoche Drainage District			0.00000%	\$ -	\$ -	0.00%	\$ -
6. Pleasant Valley			0.00000%	\$ -	\$ -	0.00%	\$ -
Total Division 2	93,633	93,633	1.38889%	\$ 1,399	\$ 630		\$ 768
DIVISION 3							
1. Central California Irrigation District			0.00000%	\$ -	\$ -	0.00%	\$ -
2. Firebaugh Canal Water District			0.00000%	\$ -	\$ -	0.00%	\$ -
3. Grassland Water District			16.66667%	\$ 16,783	\$ 7,564	16.67%	\$ 9,219
4. HMRD #2131			0.00000%	\$ -	\$ -	0.00%	\$ -
5. Columbia Canal Company (Friend Member)			0.00000%	\$ -	\$ -	0.00%	\$ -
6. Camp 13 Drainers			0.00000%	\$ -	\$ -	0.00%	\$ -
Total Division 3	0	0	16.66667%	\$ 16,783	\$ 7,564		\$ 9,219
DIVISION 4							
1. San Benito County Water District				\$ -	\$ -	0.00%	\$ -
2. Santa Clara Valley Water District (2)				\$ -	\$ -	0.00%	\$ -
Total Division 4	0	0	0.00000%	\$ -	\$ -		\$ -
DIVISION 5							
1. Broadview Water District			0.00000%	\$ -	\$ -	0.00%	\$ -
2. Eagle Field Water District	1,325	1,325	0.69444%	\$ 699	\$ 315	0.69%	\$ 384
3. Fresno Slough WD	1,459	1,459	0.69444%	\$ 699	\$ 315	0.69%	\$ 384
4. James Irrigation District			0.00000%	\$ -	\$ -	0.00%	\$ -
5. Laguna Water District			0.00000%	\$ -	\$ -	0.00%	\$ -
6. Mercy Springs Water District	3,840	3,840	0.69444%	\$ 699	\$ 315	0.69%	\$ 384
7. Oro Loma Water District	1,258		0.69444%	\$ 699	\$ 315	0.69%	\$ 384
8. Pacheco Water District	4,999	4,999	0.69444%	\$ 699	\$ 315	0.69%	\$ 384
9. Reclamation District 1606			0.00000%	\$ -	\$ -	0.00%	\$ -
10. Tranquillity ID	10,750	10,750	0.69444%	\$ 699	\$ 315	0.69%	\$ 384
11. Turner Island Water District		0	0.00000%	\$ -	\$ -	0.00%	\$ -
Total Division 5	23,631	22,373	3.47%	\$ 4,196	\$ 1,891		\$ 2,305
OTHER							
1. San Joaquin River Exchange Contractors**			16.6667%	\$ 16,783	\$ 7,564	16.67%	\$ 9,219
2. Northwestern Delta Mendota Subbasin GSA (Stan. Cty 56,766 ac + Merced Cnty 3,035 ac)	59,801	0	1.66667%	\$ 1,678	\$ 756	1.67%	\$ 922
2a. Merced County (5% of Northwestern DM GSA Cost)				\$ 84			
2b. Stanislaus County (95% of Northwestern DM GSA Cost)				\$ 1,594			
3. City of Patterson GSA	6,140	0	1.66667%	\$ 1,678	\$ 756	1.67%	\$ 922
4. Fresno County (Fresno County Management Area A/B GSA + Central DM Portion)	29,728	29,728	17.36111%	\$ 17,482	\$ 7,879	17.36%	\$ 9,603
5. Merced County (Central DM Portion)	14,176	14,176	0.69444%	\$ 699	\$ 315	0.69%	\$ 384
6. Santa Nella County Water District	1,488	1,488	0.69444%	\$ 699	\$ 315	0.69%	\$ 384
7. Aliso Water District			16.66667%	\$ 16,783	\$ 7,564	16.67%	\$ 9,219
8. Farmers Water District			16.66667%	\$ 16,783	\$ 7,564	16.67%	\$ 9,219
9. Widren GSA	877		0.69444%	\$ 699	\$ 315	0.69%	\$ 384
Total Other	112,210	45,392	22.08%	\$ 73,284	\$ 33,029		\$ 40,254
	323,788	161,398	48.61%	\$ 100,695	\$ 45,384	100.00%	\$ 55,311

*Note: First Dues Collection includes all activities other than Proposition 68 funded contracts, which will be allocated to the beneficiaries as part of the second dues collection.

**Note: San Joaquin River Exchange Contractors to allocate to GSP Region participants.



December XX, 2020

Craig Altare
Supervising Engineering Geologist
California Department of Water Resources
901 P Street, Room 213
Sacramento, CA 94236

Re: Delta-Mendota Subbasin GSP Group Representatives' Comments on the Madera Subbasin Groundwater Sustainability Plan

Dear Mr. Altare,

Representatives from the Delta-Mendota Subbasin have coordinated a comment letter in response to the final Madera Subbasin Joint Groundwater Sustainability Plan (Madera GSP). Two initial inter-basin coordination meetings were held in the fall of 2019 with attendance from Delta-Mendota and Madera Subbasin GSAs and technical representatives. To more productively guide future inter-basin coordination, the Delta-Mendota Subbasin has received funding through the Department of Water Resources' (DWR) Facilitation Support Services (FSS) program as the Subbasins begin the GSP implementation process.

Representatives from the Delta-Mendota Subbasin have identified content in the Madera GSP that put the Delta-Mendota Subbasin's ability to achieve groundwater sustainability at risk. The topics outlined in this letter have either been discussed in past inter-basin meetings or have been addressed in previous comment letters shared during the public draft GSP comment period.

1. The Madera GSP provides a groundwater shortage calculation based on its hydrogeologic conceptual model, which the GSP explains represents "groundwater extraction in excess of groundwater recharge from the surface water system" (ES-7). This shortage differs from a groundwater overdraft evaluation, which considers lateral, subsurface groundwater flows between neighboring subbasins, such as the Delta-Mendota Subbasin. The Madera GSP explains that subsurface flows will decrease as projects and management actions are implemented. Representatives from the Delta-Mendota Subbasin are interested in continued involvement and collaboration regarding the evaluation of subsurface inflows and outflows to the Delta-Mendota Subbasin during the implementation and sustainability periods.
2. The Madera GSP explains that land subsidence has not resulted in significant and unreasonable impacts to infrastructure in the Plan area, so the Madera GSP has not established sustainable management criteria (SMC) for subsidence (Madera GSP p. 3-11). While the Madera GSP notes

that adaptive management practices will be implemented in the future if needed, representatives from the Delta-Mendota Subbasin share concerns that ongoing groundwater extraction may result in subsidence in the Delta-Mendota Subbasin.

The Madera GSP subsidence adaptive management program will be triggered “if an average annual subsidence rate of greater than 0.25 feet/year across the plan area is measured over a three year period” (Madera GSP p. 3-29). This evaluation is not acceptable to representatives in the Delta-Mendota Subbasin. The Plan Area is defined as the entire Madera Subbasin, so this average subsidence rate may result in adverse effects to areas critical to the Delta-Mendota Subbasin before the trigger threshold is even reached.

Groundwater levels will be used as a proxy in the adaptive management program to set minimum thresholds for subsidence. Given the anticipated continued decline of groundwater levels in the Madera GSP Plan area and the trigger criteria for establishing the adaptive management program, Delta-Mendota Subbasin representatives are concerned about impacts to the Delta-Mendota Subbasin’s infrastructure and SGMA sustainability goals.

The Madera GSP’s Responses to Comments section acknowledges input shared during the public draft comment period. Section 2.8.2 notes that Madera Subbasin GSA and San Joaquin River Exchange Contractors (SJREC) GSA representatives intend to establish review processes for topics of interest to both the Madera and Delta-Mendota Subbasins, including subsidence. Representatives from the Delta-Mendota Subbasin reiterate their interest in reviewing subsidence approaches during the Madera and Delta-Mendota Subbasins’ FSS inter-basin coordination activities and request that the Madera Subbasin representatives change the trigger criteria for the Madera subsidence adaptive management plan.

3. Madera Subbasin groundwater levels are anticipated to decline further during the Subbasin’s Implementation Period while projects and management actions are implemented. Based on the Madera GSP’s model and assumptions, “the modeled groundwater levels at most well locations are anticipated to reach future lows between 2030 and 2040” (Madera GSP p. 3-5). The Madera GSP established minimum thresholds for groundwater levels based on the anticipated decline of groundwater levels, which are expected to reach levels below 2015 levels. While the Madera GSP explains that minimum thresholds are set to prevent undesirable results, representatives from the Delta-Mendota Subbasin are concerned that the expected declines will result in extreme impacts to the the Delta-Mendota Subbasin’s ability to achieve its sustainability goal by 2040. Representatives from the Delta-Mendota Subbasin seek additional involvement in the Madera Subbasin’s evaluation and timing of a groundwater level SMC.

The final Madera GSP includes responses to previously submitted comments, including those submitted from the Delta-Mendota Subbasin, and shares intention to coordinate with adjacent subbasin representatives during implementation. Representatives from the Delta-Mendota Subbasin will continue to seek opportunities for inter-basin coordination and discussion to work toward approaches, methodologies, and data evaluation that are mutually beneficial for both subbasins’ water uses and users. Continued communication and collaboration will support both subbasins’ efforts toward

groundwater sustainability and the prevention of any adverse effects on adjacent subbasins for plan implementation or achievement of sustainability goals.

Sincerely,

Ben Fenters
Delta-Mendota Subbasin
Coordination Committee Chairperson

DRAFT

DRAFT

REQUEST FOR PROPOSALS

for

**SUBSIDENCE CHARACTERIZATION AND PROJECT FEASIBILITY
DETERMINATION**

**FOR THE
DELTA-MENDOTA SUBBASIN**



SAN LUIS & DELTA-MENDOTA WATER AUTHORITY

842 6th Street

Los Banos, CA 93635

DRAFT
SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
REQUEST FOR PROPOSALS

I. INTRODUCTION

The State of California enacted the Sustainable Groundwater Management Act (SGMA) in response to continued overdraft of California's groundwater resources. The Delta-Mendota Subbasin (Subbasin) (5-022.07) is one of 21 alluvial basins and subbasins identified by the California Department of Water Resources (DWR) as being in a state of critical overdraft.

The Subbasin includes 23 groundwater sustainability agencies (GSAs) that are coordinating to implement six groundwater sustainability plans (GSPs). The six GSPs were developed in a coordinated process with the goals of achieving water supply reliability and sustainability for the Subbasin as a whole. The GSPs were developed for the following GSP regions: Aliso Water District, Farmers Water District, Fresno County Management Areas A and B, Grassland Water District, Northern & Central Delta-Mendota Region, and San Joaquin River Exchange Contractors.

As set forth in the Delta-Mendota Subbasin Coordination Agreement, for purposes of SGMA, the San Luis & Delta-Mendota Water Authority (SLDMWA) is serving as the plan manager. In this role, SLDMWA facilitates the SGMA coordination efforts within the Subbasin. Activities pertaining to SGMA in the Subbasin are coordinated through the Delta-Mendota Subbasin Coordination Committee and the Delta-Mendota Subbasin Technical Working Group (TWG).

The Subbasin covers an area of approximately 765,000 acres. The Subbasin economy relies predominantly on agriculture, with water supplied from both surface water and groundwater sources. Depending upon water supply contracts and annual availability, groundwater comprises a significant proportion of the water supply in some areas of the Subbasin.

Two major water supply canals run through the Subbasin: the California Aqueduct (component of the State Water Project) and the federal Delta-Mendota Canal (component of the Central Valley Project). Land subsidence along these two canals has occurred, impacting their operational flexibility and capacity to deliver water. Land subsidence has also impacted regional and local water supply and delivery infrastructure throughout the Subbasin, and flood protection infrastructure in the southern portion of the Subbasin.

II. PROJECT DESCRIPTION

The SLDMWA, on behalf of the six Subbasin GSP Groups, GSAs, and member agencies, seeks to contract with interested consultant(s) or firm(s) knowledgeable in technical work efforts related to preparing a *Subsidence Characterization and Project Feasibility Determination*. This work will be funded by a Proposition 68 Sustainable Groundwater Management (SGM) grant from DWR. The available budget is approximately \$90,000. All work must be completed by February 2022.

The following are the anticipated dates in connection with the selection of a consultant or firm for the technical work, but are subject to change:

- December 21, 2020 – RFP released
- January 6, 2021 – Deadline to submit questions via email
- January 11, 2021 – Addendum issued, if necessary, addressing questions
- January 22, 2021 – Proposals due by email
- February 1, 2021 – Anticipated selection of successful proposer

This RFP does not commit SLDMWA to contract for any supply or service. Responders are advised that SLDMWA will not pay any cost incurred in response to this RFP. All costs associated with responding to this RFP will be solely at the interested party's expense.

III. PROJECT APPROACH AND METHODOLOGY

The purpose of this project is to provide a detailed evaluation of available data regarding land subsidence, together with available data on well construction and groundwater extraction data provided by the Subbasin GSAs or obtained from public sources. The data evaluation will be used to develop a *Master Plan for Subsidence Monitoring and Management* (Master Plan) that will be used to make recommendations regarding: (1) additional monitoring to develop an improved understanding regarding the relationship between groundwater pumping locations and depths, water levels, and inelastic land subsidence affecting critical infrastructure within the Subbasin; and (2) projects and management actions (P/MAs) to address and mitigate subsidence.

The project will involve the completion of the tasks identified below in a cost-effective and timely manner. Additional detail on tasks is included in Attachment 1. The consultant(s) or firm(s) will coordinate and conduct all tasks under the direction of SLDMWA staff and representatives from the Delta-Mendota Subbasin Coordination Committee and the Technical Working Group.

- ***Task 1: Obtain and Evaluate Available Data on Subsidence, Groundwater Extraction and Elevations, and Subbasin Projects and Management Actions*** from publicly-available sources including, but not limited to:
 - DWR/USGS/USBR/SLDMWA
 - SGMA data portal
 - GSAs and member agencies
 - Six Subbasin GSPs
 - Consolidated WY 2019 and WY 2020 Annual Reports
 - Other Publicly-Available Sources
- ***Task 2: Identify Areas of Concern for Inelastic Subsidence in the Subbasin***, particularly in the vicinity of federal, state, and local critical infrastructure. Areas of Concern may include, but are not limited to, those areas identified in the GSPs, the Proposition 68 SGM

grant application, and by DWR (for State Water Project operations) and/or USBR (for Central Valley Project operations).

- **Task 3: Identify Options for Monitoring and/or Managing Identified Areas of Concern** within which data from monitoring wells and/or supply wells or other infrastructure may inform the subsidence causation evaluation and tool development. Using input from GSAs, recommend wells for installation of flow totalizing meters, transducers and/or other instrumentation and/or benchmarks and/or extensometers to establish a correlation between groundwater use, groundwater levels (by location and depth), and subsidence. Identify recommended P/MAs and methods or tools to address and mitigate subsidence.
- **Task 4: Prepare Draft and Final Master Plan** addressing additional data collection needs, tool development, potential P/MAs, and the timing and cost estimates for implementation. Anticipate the Master Plan will be submitted as a work product to DWR, that it will also be used to inform discussions with landowners, and that it will serve as a road map for GSAs during GSP implementation.
- **Task 5: Project Management, Meetings and Communication** including invoicing, monthly progress meetings, and a minimum of three meetings with the Subbasin TWG/GSAs.

IV. **PROJECT REVIEW AND PROPOSAL REQUIREMENTS**

The following information shall be provided in each proposal and will be utilized in evaluating each proposal submitted. The complete submittal shall not exceed fifteen (15) pages in length, excluding cover letter, schedule, budget, and resumes of key personnel. Please provide the following information (Proposal) in the following order:

1. **Cover letter**
2. **Entity Contact Information:** Name, mailing address, telephone number, facsimile number, and e-mail address of the entity's primary contact
3. **General Information:** Introduce the firm or team and provide information on the location, number of employees, years in business, etc. The team identified in the RFP should be the team dedicated to the contract work.
4. **Experience:** Provide a description of the firm or team's specific experience with evaluating land subsidence data, together with estimates of groundwater extraction, to develop proposed measures to reduce future inelastic land subsidence. Include at least (2) relevant project descriptions and references. The work must have been performed in the last five (5) years and the description of each project should include:
 - When the work was performed, including the duration of the project;
 - The client for whom the work was performed (unless confidential);
 - A general description of the scope of work;
 - Outcome of the project; and,

- A contact person, including contact information for the client project manager and key team members associated with the project.
5. **Project Team Information:** Identify the personnel that will be directly involved in the project (i.e., organizational chart). Provide resumes (via appendix) with relevant experience. The consultant may be a team of different firms; if so, identify the firms in the team and principal point of contact. Consultants may also utilize sub-consultants; if so, identify the sub-consultants. If the proposal involves a team approach and/or includes sub-consultants, provide the estimated percentage of the overall effort in terms of projected costs for each team member or sub-consultant.
 6. **Project Approach and Scope of Work:** Provide a discussion of the firm's plan with respect to implementing the project scope in a cost-effective and timely manner. Present the perspective on key priorities, and potential risk factors and their mitigation.
 7. **Project Budget:** Provide a budget for completion of the tasks listed above and described more fully in Attachment 1. Assumptions employed in developing the budget shall be identified. Please provide estimated level of effort for each task, and the Schedule of Charges applicable to the proposed services. The available budget is approximately \$90,000.
 8. **Project schedule:** Provide a preliminary project schedule that identifies the critical path and milestones for the specified tasks. Please note that the project must be completed no later than 28 February 2022 to comply with Proposition 68 SGM grant requirements.
 9. **Conflicts:** Proposers shall verify that they have no personal or organizational conflicts of interest, as prohibited by law.
 10. **Other Information:** A brief description of any other information that would be useful in evaluating the level of interest including perspectives not covered in this RFP.

Please limit the size of the proposal to 15 pages, excluding cover letter, schedule, budget, and resumes. Proposals shall be prepared with 8.5" x 11" paper format, Times New Roman, 12 pt. font, single or 1.15-spaced, justified with 1" margins. Pages should be numbered in the page footer including the first page. Tables and figures must be included in the text. Responses should be emailed in PDF document format.

V. GENERAL ADMINISTRATIVE INFORMATION

Proposal Evaluation: Proposals will be evaluated relative to criteria provided in Attachment 2.

Questions: Potential proposers may submit questions on this RFP by the deadline specified above. SLDMWA shall not be obligated to respond to any question unless it is submitted in writing to Scott Petersen at scott.petersen@sldmwa.org. SLDMWA will reply regarding substantive issues by addenda posted to the Delta-Mendota Subbasin SGMA website at deltamendota.org. Proposers are responsible to check the website for any addenda. Questions received after the deadline may not be answered. Only questions answered by formal written addenda will be binding. Oral responses, or email responses, shall not be binding on SLDMWA.

Timing: The deadline for receiving proposals is Friday, January 22, 2021 at 5:00 p.m., Pacific Standard Time. Proposals not received by that time will not be considered. Please submit your proposal via email to Scott Petersen at scott.petersen@sldmwa.org. Hardcopies will not be accepted. Applicants should feel free to send questions prior to the submittal deadline.

Insurance: In a table, confirm the consultant's and sub-consultant's (if applicable) ability to secure insurance coverage (including comprehensive general liability, automotive liability, workers' compensation, and errors and omissions).

Agreement for Professional Services: The proposal must also provide Consultant's response to the Agreement for Professional Services (Attachment 3), noting exceptions and/or requested revisions to the terms and conditions.

All proposals, whether selected or rejected, shall become the property of SLDMWA.

VI. EVALUATION AND SELECTION PROCESS

All packages will be reviewed for completeness and will then be forwarded to the Delta-Mendota Subbasin Coordination Committee and Technical Working Group representatives for review (Review Subgroup) based on the required information contained in this notice and as outlined in the criteria provided in Attachment 2.

Prior to award of a contract, SLDMWA may schedule a meeting with selected consultants to provide the consultant(s) an opportunity to present their submittal and answer questions in person to the Review Subgroup.

Upon completion of the evaluation process, additional discussions may be conducted between SLDMWA, the Review Subgroup, and consultants to clarify the scope of services, staffing schedules, level of effort, and contract costs. SLDMWA will then enter final negotiations with the selected consultant(s) with the intent of agreeing on a mutually acceptable contract.

The submitter understands and agrees to the following:

- A. SLDMWA reserves the right to reject any and all submittals;
- B. SLDMWA reserves the right to issue a new RFP;
- C. SLDMWA reserves the right to amend this RFP;
- D. SLDMWA reserves the right to cancel or withdraw the entire RFP, or any part hereof;
- E. SLDMWA reserves the right to seek or obtain data from any source that has the potential to improve the understanding and evaluation of the responses to this RFP to assure a successful project.
- F. That a submittal constitutes acknowledgement and acceptance of, and a willingness to comply with, all the terms, conditions, and criteria contained in this RFP.
- G. All submittals in response to this RFP will become the exclusive property of the GSAs.

The RFP does not commit SLDMWA to enter into a contract. SLDMWA assumes no obligations, responsibilities, and/or liabilities, financial or otherwise, to reimburse all or part of the costs

incurred or alleged to have been incurred by parties considering a response to and/or responding to the RFP.

VII. **ANTICIPATED SCHEDULE**

Task	Date Expected
Issue Request for Proposals	December 21, 2020
Deadline to submit questions via email	January 6, 2021
Addendum issued, if necessary, addressing questions	January 11, 2021
Proposal Package Due	January 22, 2021
Begin Final Ranking of Consultants	January 29, 2021
Notify Consultants of Ranking Results	February 1, 2021
Negotiate Contract with Consultant	February 2021
Consultant Agreement Signed (following SLDMWA Board approval)	March 2021
Attend Subbasin Technical Working Group Meeting	July 2021
Conclude Project	February 28, 2022

Consultants are encouraged to notify SLDMWA of their interest to respond to this request.

Sincerely,

J. Scott Petersen, P.E.
Water Policy Director
San Luis & Delta-Mendota Water Authority

Attachment 1: Subsidence Characterization and Project Feasibility Determination - Task and Scope Detail

The Project includes characterizing land subsidence, especially inelastic subsidence, in identified areas of concern, and using available geologic, hydrogeologic, groundwater level and extraction data to develop potential correlations with the observed subsidence in the Delta-Mendota Subbasin (Subbasin). This information will be used to identify and help prioritize projects and management actions (P/MAs) for funding and implementation to reduce future inelastic land subsidence in the identified areas of concern (AOCs). At a minimum, the AOCs will include areas near critical infrastructure within the Subbasin as identified by the Department of Water Resources (DWR), U.S. Bureau of Reclamation (USBR), the Subbasin Groundwater Sustainability Plan (GSP) groups, and the Subbasin Technical Working Group (TWG). The locations of the Subbasin GSP groups and the AOCs identified in the Proposition 68 Sustainable Groundwater Management (SGM) grant application are shown on the attached figures.

Task 1. Obtain and Evaluate Available Data on Subsidence, Groundwater Extraction and Elevations and Subbasin Projects and Management Actions

Review and summarize available information from the sources listed below as well as all other relevant and available sources:

- DWR and USBR benchmark survey data along critical infrastructure;
- Recent DWR studies related to subsidence along the California Aqueduct;
- Relevant subsidence data from the Groundwater Sustainability Agencies (GSAs) and agencies such as the DWR, USBR, and U.S. Geological Survey (USGS), including satellite and extensometer data, as available and appropriate;
- GSP Group well inventory data (i.e., GSA and GSP Group compilations of available well use, construction, and location information for wells within their service areas) and groundwater extraction data;
- Well inventory information developed through the Northern & Central Delta-Mendota Well Census and Inventory Project which was initiated by a consultant to SLDMWA in November 2020, and is expected to conclude in December 2021;
- Geologic and hydrogeologic information regarding aquifer and aquitard characteristics from the Subbasin GSPs and other relevant sources;
- P/MAs identified in the Subbasin GSPs that would impact subsidence;
- Subsidence-related data, analyses and P/MAs as identified in adjoining subbasins in areas of significant inelastic land subsidence; and,
- Relevant information from other publicly-available sources, as applicable.

The above information should be inventoried and presented in tables and figures, as appropriate.

Task 2. Identify Areas of Concern for Inelastic Subsidence in the Subbasin

Refine and update the understanding of the AOCs for subsidence previously identified in the Subbasin GSPs and Proposition 68 SGM grant application based upon input from the following sources:

- Results of Task 1;
- Data on land subsidence and impacts on critical infrastructure as identified by DWR, USBR, and USGS;
- Input from Subbasin GSAs regarding subsidence impacts to regional and local infrastructure; and,
- Input from Subbasin GSAs regarding subsidence impacts to local land use.

The above information should be inventoried and presented in tables and figures, as appropriate.

Task 3. Identify Options for Monitoring and/or Managing Identified Areas of Concern

Develop preliminary estimates of areas of influence (i.e., areas from which groundwater pumping has the potential to contribute to the observed subsidence in the AOCs). Use information developed as part of Tasks 1 and 2 to prepare tables and map(s) identifying wells or other sites within the estimated areas of influence that may be useful for future monitoring and/or metering to refine correlations between groundwater use, water levels by principal aquifer, and subsidence. Establish methods and/or tools that can support Subbasin GSAs in developing correlations between groundwater use, groundwater levels, and subsidence.

Task 4. Prepare Draft and Final Master Plan

Describe the activities performed and summarize the results in a draft *Master Plan for Subsidence Monitoring and Management* (Master Plan) that includes: (1) figures and/or tables depicting the identified AOCs, existing subsidence monitoring locations, and potential future monitoring locations; (2) recommended actions to improve monitoring and establish or refine correlations between water levels or groundwater use by depth with observed subsidence; and (3) recommended P/MAs that could reduce or mitigate future subsidence, including estimated costs and schedules.

Prepare final Master Plan for submittal to DWR based on feedback provided by the Subbasin Coordination Committee and the TWG.

Task 5. Project Management, Meetings and Communication

Consultant is responsible for communicating with SLDMWA on project-related issues. Consultant shall prepare and update as necessary a detailed project schedule showing each task, subtask, meetings, and deliverables. At a minimum, the following meetings are anticipated:

- Kick off meeting;
- Meeting with Subbasin TWG/GSAs to review compiled data and discuss AOCs; and,

- Meeting to present findings and recommendations regarding potential projects and management actions to the Subbasin TWG.

The Consultant shall prepare the meeting agendas, handouts or other electronically shared documents and record, prepare, and distribute meeting minutes.

This task shall also include preparation of monthly invoices and progress reports which must clearly identify the activities performed during each month. All documents submitted must contain information as required for obtaining reimbursement from DWR through a Proposition 68 SGM grant.

List of Final Deliverables Expected from Consultant

- Maps and tables depicting AOCs related to subsidence and critical infrastructure and/or land use;
- Maps and tables of recommendations regarding wells and/or other locations for additional monitoring and data collection;
- Methods or tools that can support the Subbasin GSAs in identifying and managing correlations between groundwater use, groundwater levels, and subsidence;
- Recommendations, including cost estimates and schedules, regarding potential P/MAs to reduce or mitigate future land subsidence;
- Draft and Final Master Plan;
- Meeting Agendas and Minutes; and,
- Monthly Invoices and Progress Reports.

Attachment 2: Criteria for Evaluation of Proposal

Item Number	Proposal Evaluation	Maximum Points	Score
1	Completeness of the submittal package	10	
2	Understanding of work to be completed	10	
3	Knowledge of and experience with evaluation of land subsidence data relative to amounts of groundwater pumping.	10	
4	Professional qualifications of staff for work to be completed	10	
5	Cost of the proposal	20	
6	Ability to proactively manage proposed activities and ensure successful completion of project within schedule and budget	20	
7	Demonstrated technical ability and competence	10	
8	References	10	
Total	Total	100	

Attachment 3: Template Consultant Services Agreement

SAN LUIS & DELTA-MENDOTA WATER AUTHORITY

AGREEMENT FOR PROFESSIONAL SERVICES

THIS AGREEMENT is made and entered into effective _____, between the San Luis & Delta-Mendota Water Authority, hereinafter referred to as "SLDMWA" and _____, hereinafter referred to as "Consultant" for professional services as set forth herein.

Task Order Contract: ☐ Yes ☐ No

The following designated Exhibits are incorporated fully into and made a part of this Agreement:

Exhibit A – Scope of Services

Exhibit B – General Terms and Conditions for Professional Services

Exhibit C – Fees, Hourly Rates and Reimbursable Costs/Expenses

Exhibit D – Task Order Format, applicable to Task Order Contracts

IT IS MUTUALLY AGREED, as follows:

1. SCOPE OF SERVICES

Consultant shall provide the professional services described in the Scope of Services set forth in Exhibit A as may be amended or augmented from time to time, and in accordance with this Agreement, any Task Orders applicable to the Agreement, and the General Terms and Conditions for Professional Services set forth in Exhibit B, and for the compensation set forth in Exhibit C, Fees, Hourly Rates, and Reimbursable Costs/Expenses.

Any change in the Scope of the Services, budget or schedule set forth therein, or to any other matter materially affecting the performance of or nature of the professional services will not be paid for or accepted unless such change, addition or deletion be approved in advance, in writing, by SLDMWA.

2. TERM OF AGREEMENT AND PERFORMANCE SCHEDULE

This Agreement shall become effective as of the date indicated and shall continue until the earlier of the completion of all required services or five (5) years from the effective date of the Agreement.

3. PARTY REPRESENTATIVES AND NOTICES

Each party's designated representative for administration of this Agreement and receipt of notices is designated below. All notices or other communications provided for by the Agreement shall be in writing and shall be sent by 1) personal delivery, 2) nationally-recognized overnight

delivery service (such as Federal Express) which provides evidence of delivery, 3) first class United States mail (postage prepaid), registered or certified, return receipt requested, or 4) e-mail with a copy by first class U.S. mail. Notice shall be deemed received on the date actually delivered if delivered by personal delivery, overnight delivery, or U.S. Mail with return receipt requested and delivered during normal business hours on a business day. Notice by e-mail shall be deemed delivered on the date of transmission, unless the same is after 5:00 p.m. or on a weekend or holiday, in which event delivery shall be on the next business day. A party may change its address for notices under the Agreement by giving notice as provided herein. Notices shall be sent to the following party representatives at the following addresses:

<u>SLDMWA</u>	<u>Consultant</u>
Federico Barajas San Luis & Delta-Mendota Water Authority 400 Capitol Mall, 28th Floor Sacramento, CA 95814 federico.barajas@sldmwa.org 916-321-4519	

IN WITNESS WHEREOF, this Agreement has been executed by and on behalf of the parties hereto, the day, month and year so indicated above. If Consultant is a corporation, partnership or limited liability company, documentation must be provided that the person signing below for Consultant has the authority to do so and to so bind Consultant to the terms of this Agreement.

<u>San Luis & Delta-Mendota Water Authority</u>	<u>Consultant</u>
By: _____ Federico Barajas Executive Director San Luis & Delta-Mendota Water Authority	By: _____ [Signature and Title] _____ Print Name

EXHIBIT A

SCOPE OF SERVICES

Consultant will provide technical support to SLDMWA, as directed. Individual work efforts, specific tasks, assignments, deliverables, and associated cost estimates will be described in acceptable detail in sequential Task Orders. Consultant cost accounting, work description detail, and invoicing will track specific work efforts according to Task Order.

EXHIBIT B

GENERAL CONDITIONS

ARTICLE 1. SCOPE OF SERVICES OF CONSULTANT

A. Services: Consultant's Services consist of the Scope of Services described in **Exhibit A** to the Agreement, all in accordance with all terms of the Agreement and applicable laws and regulations.

B. Changes/Amendments: Consultant's Services may be changed or amended only by written amendment executed by SLDMWA and Consultant. No claim for any additional compensation or time shall be valid unless authorized by a written amendment.

C. Trust and Confidence: Consultant accepts the relationship of trust and confidence established between SLDMWA and Consultant by the Agreement.

D. Consultant's Skills and Compliance with Professional Standards: Consultant represents and warrants that it is skilled in the professional calling necessary to perform all services, duties and obligations required by the Agreement; that it will perform its Services under this Agreement with the degree of skill and diligence normally practiced in the same industry by consultants performing the same or similar services. Consultant shall comply with all Federal, State, County, local and other governing laws, rules and regulations applicable to the performance of the Services.

E. Independent Contractor: Consultant shall be an independent contractor, and neither Consultant nor any employee of Consultant or its sub-consultants shall be deemed to be an employee of SLDMWA.

F. No Relation with Sub-consultants: Nothing in the Agreement shall create any contractual relation between SLDMWA and any sub-consultants, or their agents and employees, employed by Consultant. No sub-consultants, agents, employees or other parties are third party beneficiaries of the Agreement. Consultant shall be responsible to SLDMWA for the acts and omissions of its employees, sub-consultants, and their agents and employees, and other persons performing any of the work under the Agreement.

Note: See Article 18 for additional terms applicable to Task Order Contracts.

ARTICLE 2. SCHEDULE

A. Consultant shall perform in accordance with the time specified in the Agreement.

B. Any delays in or failure of performance by either party under this Agreement (except payment of compensation under Article 6) shall not constitute default hereunder and neither party shall be liable to the other for failure to perform its obligations hereunder if and to the extent that such failure to perform is caused by or results from force majeure which shall be defined to be causes or occurrences beyond the control of the party affected, including, but not limited to, acts of governmental authority, acts of God, strikes or other concerted acts of workmen,

unavailability of labor or materials and operating equipment, fires, floods, explosions, riots, war, rebellion, insurrection and sabotage; provided, however, that the party whose performance is delayed shall have given notice and full description of the cause of the delay in writing to the other party as soon as possible after the occurrence of the cause relied on by it.

ARTICLE 3. CONFLICTS OF INTEREST

Consultant shall not have a familial, financial, or investment interest in any of the persons, contractors or companies with responsibilities related to the work described in Exhibit A or any Task Orders. A familial interest exists if any of Consultant's officers, directors, employee(s) providing professional services to SLDMWA, or owners of 10% or more of the business is the spouse, sibling, parent, child, grandparent, grandchild, aunt/uncle or niece/nephew of any of the officers, directors, project managers, or owners of 10% or more of the business of any of the persons, contractors or companies with responsibilities related to the work describe din Exhibit A or any Task Orders. Consultant affirms that, to the best of its knowledge, there exists no actual or potential conflict between family, business, or financial interests of Consultant and SLDMWA. Consultant agrees to advise SLDMWA of any actual or potential conflicts of interest that may develop subsequent to the date of execution of the Agreement.

ARTICLE 4. ASSIGNMENT AND SUBCONTRACTING

Except as expressly authorized herein, Consultant shall neither assign its rights nor delegate its duties under the Agreement without prior written consent of SLDMWA. This prohibition of assignment and delegation extends to all assignments and delegations that lawfully may be prohibited by agreement. Except as expressly allowed in the Agreement, Consultant shall not subcontract any of the work to be performed or services to be rendered without the prior consent of SLDMWA.

ARTICLE 5. NON-DISCRIMINATION

Consultant shall not discriminate against any employee or potential employee on the basis of prohibited criteria, as defined in Government Code section 12940. Without limiting the foregoing in any way, during the performance of this Agreement, Consultant and its sub-Consultants shall not unlawfully discriminate, harass, or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, physical disability (including HIV and AIDS), mental disability, medical condition (cancer), age (over 40), marital status, and denial of family care leave. Consultant and sub-Consultants shall insure that the evaluation and treatment of their employees and applicants for employment are free from such discrimination and harassment. Consultant and sub-Consultants shall comply with the provisions of the Fair Employment and Housing Act (Government Code Section 12990 (a-f) et seq.) and the applicable regulations promulgated thereunder (California Code of Regulations, Title 2, Section 7285 et seq.). The applicable regulations of the Fair Employment and Housing Commission implementing Government Code Section 12990 (a-f), set forth in Chapter 5 of Division 4 of Title 2 of the California Code of Regulations, are incorporated into this Agreement by reference and made a part hereof as if set forth in full. Consultant and its sub-Consultants shall give written notice of their obligations under this clause to labor organizations with which they

have a collective bargaining or other Agreement. Consultant shall include the nondiscrimination and compliance provisions of this clause in all subcontracts to perform work under the Agreement.

ARTICLE 6. COMPENSATION; TAXES

A. Professional Services: Consultant agrees to perform the Basic Services and any authorized Extra Services, and SLDMWA agrees to pay Consultant for such services in accordance with **Exhibit C** to the Agreement, or such other rates for Extra Services as may be expressly agreed upon in writing between SLDMWA and Consultant.

B. Reimbursable Consultant Costs/Expenses: SLDMWA recognizes that certain costs and expenses associated with the services performed may be reimbursable to Consultant. Categories of costs/expenses that may be considered for reimbursement are included in **Exhibit C**. Payments to Consultant for reimbursable costs/expenses will be made only after the specific costs/expenses have been incurred and invoicing has been verified by submission of substantiating documentation, such as copies of paid invoices or other documentation confirming that such costs/expenses have been incurred by Consultant.

C. Invoicing: Consultant shall submit one (1) invoice monthly to SLDMWA, including applicable time records and identification of any deliverables submitted during the billing period, for the work performed the prior month at rates not to exceed those stated in **Exhibit C**, with email copy to Sandi Ginda, A/P Technician, San Luis & Delta-Mendota Water Authority, at sandi.ginda@sldmwa.org or via U.S. Mail at P.O. Box 2157, Los Banos, CA 93635. If applicable, Consultant's invoice also shall include reimbursable costs/expenses incurred for the billing period. Invoices requesting reimbursement for costs/expenses incurred during the billing period must clearly list items for which reimbursement is being requested and be accompanied by proper documentation (*e.g.* receipts, invoices).

D. Payment: Invoices received by SLDMWA on or before the 15th day of a given month and subsequently approved by SLDMWA will be paid by SLDMWA before the end of the following month. All other properly invoice amounts shall be paid not more than forty-five (45) days after delivery of an invoice. Disputed invoices shall be returned to Consultant within ten (10) working days of receipt.

E. Payment Disputes: SLDMWA may dispute any invoice or portion thereof which is not properly documented and in accordance with the Agreement. For any disputed payment, SLDMWA shall provide written notice describing its dispute to Consultant.

F. Taxes: Any and all taxes imposed or assessed on Consultant's income by reason of this agreement or its performance, including but not limited to sales or use taxes, shall be paid by Consultant. Consultant shall be responsible for any taxes or penalties assessed by reason of any claims that Consultant is an employee of SLDMWA.

ARTICLE 7. SLDMWA'S OBLIGATIONS

SLDMWA shall cooperate with Consultant to facilitate the conduct of Consultant's performance of its services under this Agreement, including for purposes of the exchange of

information and consultation, as well as to provide access as required to any SLDMWA facilities that are the subject of the services. Consultant's primary source of contact with the SLDMWA shall be the contact designated in the Agreement.

ARTICLE 8. CONFIDENTIAL INFORMATION

A. Confidential Information shall be (a) any and all information provided by SLDMWA (the "Disclosing Party") to Consultant (the "Receiving Party") that is labeled and/or marked confidential, and if disclosed orally, summarized in written format within (30) calendar days of disclosure and identified as "confidential", "trade secret", or "proprietary", and (b) information that is not labeled as "confidential", "trade secret", or "proprietary" but after which SLDMWA notifies Consultant as being "confidential", "trade secret", or "proprietary", SLDMWA shall retain all ownership rights over its Confidential Information.

B. The Confidential Information will be kept confidential, and will not, without SLDMWA's prior written consent, be disclosed by Consultant, in any manner whatsoever, in whole or in part, and shall not be used in any manner directly or indirectly by Consultant, other than in connection with providing services under this Agreement.

C. Confidential Information does not include information which (i) at the time of disclosure is within the public domain through no breach of this Agreement by Consultant; (ii) has been known or independently developed by and is currently in the possession of Consultant prior to disclosure or receipt hereunder; (iii) was or is acquired by Consultant from a third party (other than a Member customer contacted by Consultant through the operation of this Agreement) who did not to Consultant's knowledge breach an obligation of confidentiality by disclosing it to Consultant.

D. Consultant will retain the Confidential Information only so long as it is necessary to perform Consultant's tasks under this Agreement, and after such time, the Confidential Information will be returned to SLDMWA (or at SLDMWA's written option, destroyed), and Consultant will retain no copies of the Confidential Information.

ARTICLE 9. INSURANCE

A. Required Policies: Consultant and any sub-consultants shall procure and maintain insurance on all of its operations during the progress of its work described in Exhibit A or any Task Orders, with reliable insurance companies approved by the State of California Department of Insurance and with a Bests' rating of no less than (B+) Level VII, on forms acceptable to SLDMWA, for the following minimum insurance coverages, which may be increased or expanded by the Agreement:

1. Workers' Compensation insurance and occupational disease insurance, as required by law, with limit of no less than \$1,000,000 per accident for bodily injury or disease;
2. Employer's liability insurance, with minimum limits of \$1,000,000, covering all workplaces involved in the Agreement.

3. Commercial General Liability Insurance in an amount not less than \$2,000,000 combined single limit per occurrence for bodily injury, property damage, personal injury, advertising liability, blanket contractual liability, Consultant's obligations under this Agreement, products and completed operations, and coverage for independent contractors with limits of not less than two million dollars (\$2,000,000) for each occurrence or the full per occurrence limits of the policies available, whichever is greater. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit.
4. Commercial Automobile Insurance for all owned, non-owned and hired vehicles used by Consultant in the performance of its services under this Agreement with a limit of not less than \$1,000,000 combined single limit per occurrence for bodily injury and property damage.
5. Professional Liability Insurance, written on a "Claims Made Basis," with limits of liability in amounts not less than \$1,000,000 per claim and \$2,000,000 aggregate, insuring Consultant, for its own acts and for the acts of all persons for whose acts Consultant may be liable, against liabilities arising out of or in connection with negligent acts, errors, or omissions in connection with the carrying out of their professional responsibilities under the Agreement. Consultant shall provide SLDMWA proof of professional liability insurance coverage for two years following final completion of the Agreement.

B. Additional Terms:

1. All general liability policies shall name SLDMWA, its elected or appointed officers, officials, agents, authorized volunteers and employees as additional insureds ("Additional Insureds"), include a severability of interest provision, and shall provide that such policy is primary and not contributory with any insurance carried by SLDMWA or its Members.
2. The insurance to be provided by Consultant under this Agreement shall not include any of the following: except for Professional Liability Insurance, any claims-made insurance policies; any self-insured retention or deductible amount greater than two hundred fifty thousand dollars (\$250,000) unless approved in writing by SLDMWA; any endorsement limiting coverage available to SLDMWA that is otherwise required by this Article 9; and any policy or endorsement language that (i) negates coverage to SLDMWA for SLDMWA's own negligence; (ii) limits the duty to defend SLDMWA under the policy; (iii) provides coverage to SLDMWA only if Consultant is negligent, or (iv) permits the recovery of defense costs from any additional insured. The insurance provided under this Agreement shall not contain any restrictions or limitations which are inconsistent with SLDMWA's rights under this Agreement.

3. Consultant shall provide Certificates of Insurance, or other evidence of insurance as requested by SLDMWA, to SLDMWA within ten (10) days after receipt by Consultant of the executed Agreement. The certificates shall provide that there will be no cancellation, suspension, voiding or change of coverage without thirty (30) days' prior written notice to SLDMWA. There shall be no reduction or modification of coverage of insurance required by the Agreement without the written consent of SLDMWA. Consultant shall provide SLDMWA with a new or renewed certificate of insurance upon any changes or modifications to coverage, including any extension or renewal of required insurance coverage; provided that any changes or modifications to coverage shall be consistent with this Agreement.
4. The insurer(s) issuing the required policies shall, by separate endorsement, agree to waive all rights of subrogation against the "Additional Insureds" for losses arising in any manner from the products or work provided or performed by or on behalf of Consultant for SLDMWA, but this provision applies regardless of whether or not SLDMWA has received the waiver of subrogation.

ARTICLE 10. INDEMNITY; NO LIABILITY FOR CONSEQUENTIAL DAMAGES

A. Consultant shall, with respect to all work which is covered by or incidental to the Agreement, defend, indemnify, and hold harmless SLDMWA, its officers, directors, agents, representatives and employees (collectively "SLDMWA"), from and against any and all liens and claims asserted by firms or individuals claiming through Consultant, and claims, liability, loss, damage, civil fines, penalties, costs, or expenses, including reasonable attorneys' fees, expert's fees, awards, fines, or judgments, relating to the death or bodily injury to persons, injury to property, other loss, damage, or expense to the extent that any of the above arise out of, pertain to, or relate to the negligence, recklessness, willful misconduct or breach of this Agreement by Consultant or anyone acting under its direction or control or on its behalf in the course of its performance under this Agreement. Consultant's duty shall include the duty to defend the indemnitees as required by Civil Code section 2778, which duty shall arise from the need for defense and is not contingent upon a finding of liability for indemnification, and Consultant shall employ counsel reasonably acceptable to SLDMWA for this defense obligation. Consultant shall not be obligated under the Agreement to indemnify SLDMWA to the extent that the damage is caused by the active or sole negligence or willful misconduct of SLDMWA or its agent or servants other than Consultant.

B. SLDMWA shall defend, indemnify, and hold harmless Consultant, its officers, directors, agents, representatives and employees (collectively "Consultant") from and against any and all claims, liability, loss, damage, civil fines, penalties, costs, or expenses, including reasonable attorneys' fees, expert's fees, awards, fines, or judgments, relating to the death or bodily injury to persons, injury to property, other loss, damage, or expense to the extent that any of the above arise out of, pertain to, or relate to the negligence, recklessness, willful misconduct or breach of this Agreement by SLDMWA or anyone acting under its direction or control or on its behalf in the course of its performance under this Agreement other than Consultant. SLDMWA's duty shall

include the duty to defend the indemnitees as required by Civil Code section 2778, which duty shall arise from the need for defense and is not contingent upon a finding of liability for indemnification, and SLDMWA shall employ counsel reasonably acceptable to Consultant for this defense obligation. SLDMWA shall not be obligated under the Agreement to indemnify Consultant to the extent that the damage is caused by the active or sole negligence or willful misconduct of Consultant or its agent or servants.

C. Where any claim results from the joint negligence, gross negligence, willful misconduct or breach of any provision of this Agreement by SLDMWA and Consultant, the amount of such claim for which SLDMWA or Consultant is liable as indemnitor under this Article shall equal: (i) the proportionate part that the amount of such claim attributable to such indemnitor's negligence, gross negligence, willful misconduct or breach of any provision of this Agreement bears to, and (ii) the amount of the total claim attributable to the joint negligence, gross negligence, willful misconduct or breach of any provision of this Agreement at issue.

D. Consultant and SLDMWA each agree to promptly serve notice on the other party of any claims arising hereunder, and shall cooperate in the defense of any such claims.

E. The acceptance by SLDMWA or its representatives of any certificate of insurance providing for coverage of any kind shall in no event be deemed a waiver of any of the provisions of this Article. None of the foregoing provisions shall deprive SLDMWA of any action, right or remedy otherwise available by law.

F. Except to the extent of any insurance coverage, neither Consultant nor SLDMWA shall be responsible to the other for any form of consequential damages, including, but not limited to losses of use, sale, profits, financing, business and reputation, and attorney fees thereon. Nothing in these provisions or in this Agreement shall waive, release or compromise any insurance requirements or coverages required in Article 9.

ARTICLE 11. INTELLECTUAL PROPERTY INFRINGEMENT

Consultant shall defend, indemnify and hold SLDMWA free and harmless from and against, any loss, cost and expense that SLDMWA incurs because of a claim that any deliverables, materials or equipment (hereinafter "Product") provided pursuant to this Agreement infringes on the intellectual property right of others.

ARTICLE 12. LIMITATION OF LIABILITY

Except as otherwise set forth in Article 10 of this Agreement, in no event will Consultant be liable to SLDMWA for any incidental, indirect, special, consequential or punitive damages or lost profits of SLDMWA. The aggregate total liability of Consultant arising from or related to SLDMWA's engagement of Consultant shall not exceed the recoveries from insurance provided or, if none, an amount equivalent to the fee paid by SLDMWA to Consultant for its services under this Agreement.

ARTICLE 13. USE AND OWNERSHIP OF WORK PRODUCT

As used in this Agreement, the term "Work Product" means any and all deliverables or materials fixed in a tangible medium of expression, including software code, written procedure, written documents, abstracts and summaries thereof, or any portions or components of the foregoing created, written, developed, conceived, perfected or designed in connections with the services provided under this Agreement. SLDMWA shall retain all rights, title and interest in and to the Work Product, including all intellectual property rights therein and any and all enhancements, improvements and derivative works thereof, and Consultant obtains no rights therein.

ARTICLE 14. TERMINATION OF AGREEMENT

This Agreement may be terminated by either party upon 30 days' written notice, with or without cause, upon written notification to the other party. Following such termination, SLDMWA shall pay Consultant all unpaid sums due for services performed under this Agreement to the date of termination, plus reasonable expenses for winding down the services. Following such payment, SLDMWA shall have the right to immediate possession of all documents, files (including electronic files), and other Work Product. No termination of the Agreement shall excuse or otherwise relieve Consultant of its responsibilities under the Agreement, including, without limitation, the standard of care for its work and services and its indemnity obligations. All of such responsibilities under the Agreement with respect to work and/or services performed prior to the date of termination shall survive any termination.

ARTICLE 15. RECORDS AND AUDIT

SLDMWA or SLDMWA's authorized representative shall have access, upon reasonable notice and during normal business hours during the term of the Agreement and for a period of two (2) years thereafter, to Consultant's books and records and all other documentation pertaining to Consultant's services under this Agreement for the purpose of auditing and verifying the cost of such services or for any other reasonable purpose. Such access includes the right to make excerpts, transcriptions and photocopies at SLDMWA's expense.

ARTICLE 16. DISPUTE RESOLUTION

Consultant and SLDMWA shall attempt to resolve conflicts or disputes that arise under this Agreement or that relate in any way to this Agreement or the subject matter of this Agreement in a fair and reasonable manner. The parties agree to attempt to mediate through a professional mediator any conflicts or disputes not otherwise resolved by the parties, with the costs of mediation shared equally by the parties. If the mediation does not settle the conflict or dispute, the parties may agree in writing to binding arbitration, or the matter may proceed in litigation before a court of competent jurisdiction. Neither party shall commence or pursue arbitration or litigation prior to (1) the completion of mediation proceedings, and (2) prior to completion of Consultant's services under this Agreement.

ARTICLE 17. ADDITIONAL PROVISIONS

A. Successors and Assigns: SLDMWA and Consultant each binds itself, its partners, successors, assigns and legal representatives to the other party hereto and to the partners, successors, assigns and legal representatives of such other party in respect to all covenants, agreements and obligations contained in the Agreement. Consultant shall not assign the Agreement or sublet it in whole or part without the written consent of SLDMWA, nor shall Consultant assign any moneys due or to become due to it hereunder without the prior written consent of SLDMWA.

B. Unenforceability of any Clause: If any clause or provision of the Agreement is held to be unenforceable or invalid, then that provision of the Agreement shall be stricken and all other provisions of this Agreement shall remain in full force and effect and shall not be effected thereby.

C. Waiver of Breach: Failure by one party to notify the other of a breach of any provision of this Agreement shall not constitute a waiver of any continuing breach. Failure by one party to enforce any of its rights under this Agreement shall not constitute a waiver of those rights. The waiver by either Party of a breach or violation of any provision of this Agreement shall not operate as, or be construed to be, a waiver of any subsequent breach of the same or any other provision hereof.

D. Entire Agreement: The Agreement, including all exhibits, represents the entire and integrated agreement between SLDMWA and Consultant and supersedes all prior negotiations, representations or agreements, either written or oral. No changes, amendments, alterations or modifications to this Agreement will be effective unless in writing and executed in the same manner as the Agreement.

E. Interpretation: The Agreement shall be construed and interpreted in accordance with the laws of the State of California.

F. Headings: The titles of sections of these General Conditions are for convenience only and no presumption or implication of the intent of the parties as to the construction of this Agreement shall be drawn therefrom.

ARTICLE 18. ADDITIONAL PROVISIONS FOR TASK ORDER CONTRACTS

In addition to all of the foregoing provisions, the following apply when this Agreement is designated as a "Task Order Contract".

A. Where this Agreement is indicated to be a Task Order Contract, the Agreement will consist of the individual projects defined by Task Orders entered into by the Parties during the term of and pursuant to this Agreement. Each Task Order will be numbered sequentially and will be similar in format to **Exhibit D**, entitled "Task Order Format," attached hereto and incorporated herein by this reference. Each Task Order will specifically define the scope of work for each specific project on which SLDMWA desires to retain Consultant's services. Each Task Order will also specify (1) the date on which the work covered by the Task Order is to begin; (2) the date on which the work covered by the Task Order is to be completed; (3) the estimated charges that SLDMWA can expect to pay to Consultant for Consultant's services pursuant to such Task Order;

and (4) the names of the persons who will be SLDMWA's and Consultant's respective principal representatives for the management and performance of the specific services covered by said Task Order.

B. The specific services covered by each separate Task Order will be undertaken by Consultant only upon receipt of a Task Order signed by an authorized representative of SLDMWA and accepted by an authorized representative of Consultant.

C. Consultant will commence performing the services specified by each Task Order on the commencement date specified in the Task Order, and will complete such services within the time and monetary limitations specified in the Task Order. If Consultant, in the course of performing its services under any given Task Order, determines it will be unable to complete the services within the time schedule or authorized limit of charges specified in the Task Order, it will promptly so notify SLDMWA of such determination. Within fourteen (14) days of said notification, SLDMWA will inform Consultant as to how SLDMWA chooses to proceed.

D. All invoices for services shall identify the Task Order number.

E. SLDMWA will have the right to terminate Consultant's services under any specific Task Order at any time by giving notice in writing to Consultant. Consultant will not be entitled to payment for any cost related to the terminated part of services covered by the Task Order and incurred after the effective date of termination except for costs directly related to work performed by Consultant in terminating; provided that such work is authorized in advance by SLDMWA's representatives under such Task Order. SLDMWA also will reimburse Consultant for all expenses incurred by Consultant in satisfying commitments for materials, equipment and services for use in the terminated work which were made by Consultant prior to such termination. Such expenses may include the cost of returning or disposing of unused materials and equipment and terminating agreements for services by third parties. Consultant, however, will use its best efforts to minimize such costs. This paragraph provides the full and exclusive compensation to Consultant in the event of a terminated Task Order or termination of a Task Order Contract.

F. The limitation of liability in Article 12 is modified such that, if the conduct by Consultant giving rise to the loss occurs under one or more Task Orders, the aggregate total liability of Consultant arising from or related to SLDMWA's engagement of Consultant shall not exceed the recoveries from insurance provided or, if none, an amount equivalent to the fee paid by SLDMWA to Consultant for its services under the applicable Task Orders.

EXHIBIT C

FEES, HOURLY RATES AND REIMBURSABLE COSTS/EXPENSES

Fees, hourly rates, and reimbursable costs/expenses will be described in acceptable detail in sequential Task Orders.

EXHIBIT D
TASK ORDER FORMAT

[TITLE]
Detailed Scope of Work

TASK 1 – [TITLE]

[Description]

TASK 2 – [TITLE]

[Description]

Basis for Payment:

Budget Maximum:

Estimate of Time Schedule:

SLDMWA Project Lead: [Name] [Email]

Consultant Project Lead: [Name] [Email]

Special Instructions:

Accepted:

<u>San Luis & Delta-Mendota Water Authority</u>	<u>Consultant</u>
By: _____ Federico Barajas Executive Director San Luis & Delta-Mendota Water Authority Date: _____	By: _____ [NAME] [TITLE] [ORGANIZATION] Date: _____

Attachment 4: Six Groundwater Sustainability Plans for the for the Delta-Mendota Subbasin

The Adopted GSPs can be found at:

www.deltamendota.org

and

www.sgma.water.gov

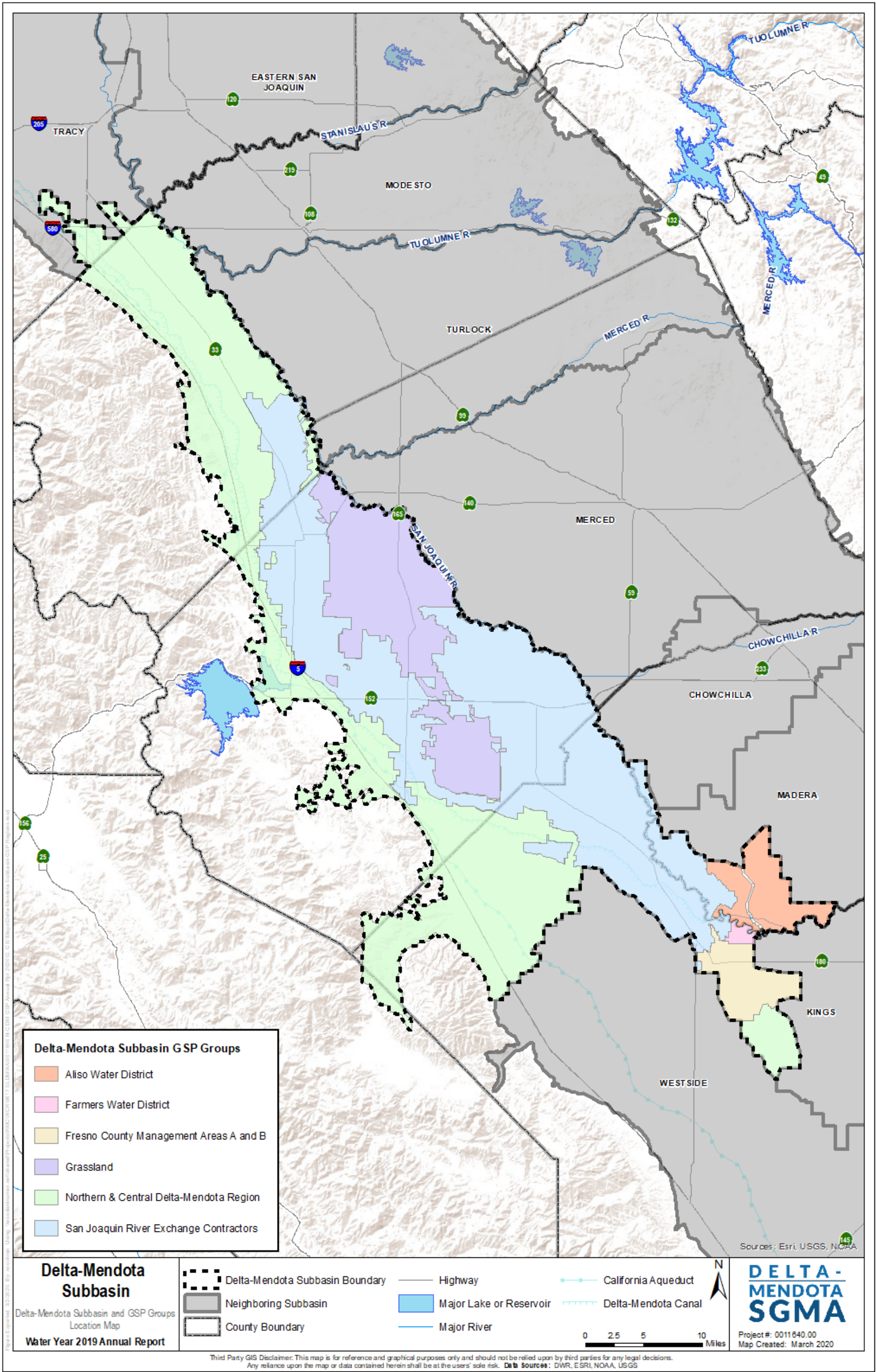


Figure 1. Delta-Mendota Subbasin and GSP Regions

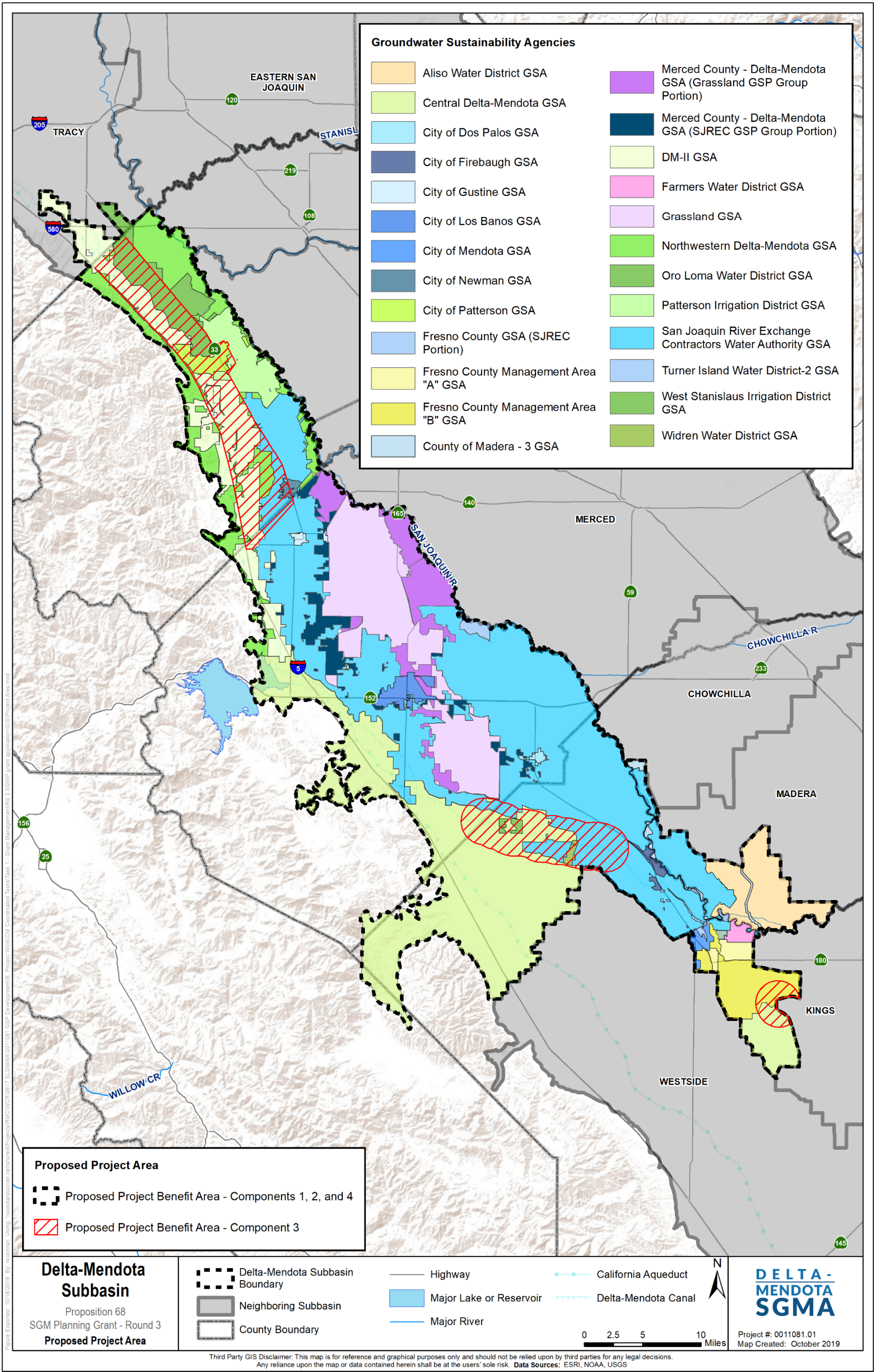


Figure 1. Proposed Project Area

Project Status Memorandum

To: Claire Howard

From: Gavin O'Leary

Subject: North and Central GSA Regions Well Census and Inventory Project Update

Date: 12/15/2020

Updates:

- We still need the well data contacts identified for some GSAs (listed below). This survey should take a little over 1 minute to complete.
 - <https://forms.office.com/Pages/ResponsePage.aspx?id=n2XPpmAj-U-ejQRfSENK2s5ozkkm2H9MrYT3GpcRSoVUM1VUQUFQOTdaR1c5ODkySTIQUk1aUzVUSC4u>
 - Patterson ID GSA
 - City of Patterson GSA
 - Northwestern GSA
 - Oro Loma GSA
 - For those that have identified well data wizards we will be contacting them soon
- Central Region is currently having us process the results of their landowner survey and we hope to have some preliminary results soon.
- SGMA monitoring network wells for the Northern and Central Regions (35 wells), that existed in the DMS, have been migrated over to the well census project as the first 'verified' wells.

GSP Implementation Schedule
San Luis & Delta-Mendota Water Authority

NORTHERN & CENTRAL DELTA-MENDOTA REGION GSP IMPLEMENTATION 3-MONTH LOOK-AHEAD

TASK				RESPONSIBLE PARTY	START	END	DEC				JAN				FEB				MAR				
							WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5
BASIN-SCALE COORDINATION																							
Annual Report																							
WY2020 Annual Report				Basin GSAs / W&C	10/20/20	4/1/21																	
Intra-Basin Coordination																							
Coordination Committee				Basin GSAs	Monthly (2nd Monday)																		
DM Technical Working Group				Basin GSAs	As-needed																		
DMS Working Group				Basin GSAs	As-needed																		
SGM Grant Program Implementation Grant Application				Basin GSAs / W&C	9/15/20	1/8/21																	
Inter-Basin Coordination																							
Inter-Basin Coordination Meetings				Basin GSAs	TBD																		
Prop 68 Coordination																							
Grant Administration ^(a)				WSID / W&C	6/1/20	4/1/22																	
Well Census and Inventory				Basin GSAs / P&P	7/15/20	12/31/21																	
Subsidence Characterization ^(a)				Basin GSAs	12/21/20	4/1/22																	
N-C REGION COORDINATION / ADMINISTRATION																							
Annual Report																							
WY2020 N-C Region Annual Report				W&C	10/20/20	4/1/21																	
N-C Coordination Meetings																							
Northern and Central Region Mngmt Committees Meetings				GSAs	Monthly																		
Northern Region Management Committee Meetings				GSAs	As-needed																		
Central Region Management Committee Meetings				GSAs	As-needed																		
Technical/Finance Working Group Meetings				GSAs	TBD																		
Quarterly GSP Progress Checks																							
GSP Implementation Progress Reports				GSAs	Quarterly																		
Quarterly GSP Implementation Update Reports				W&C	Quarterly																		
N-C REGION GSP IMPLEMENTATION																							
Water Level Monitoring																							
Data Consolidation/Upload to DMS/SGMA Portal				GSAs / W&C	10/31/20	12/31/20																	
Install New Monitoring Wells				GSAs	7/1/20	4/1/21																	
Interconnected Surface Water Monitoring																							
Install/Identify New Monitoring Wells				WSID / PID / NWDM	3/1/20	3/31/21																	
Subsidence Monitoring																							
Collect Subsidence Data				USBR / GSAs	12/1/20	2/28/21																	
Data QA/QC				GSAs / W&C	3/1/21	3/31/21																	
Data Consolidation/Upload to DMS				GSAs / W&C	3/1/21	3/31/21																	
Projects ^(a)																							
Los Banos Creek Recharge and Recovery Project				SLWD	PD Complete	TBD																	
Kaljian Drainwater Reuse Project				SLWD	PD Fall 2020	TBD																	
Orestimba Creek Recharge and Recovery Project				DPWD	PD Complete	TBD																	
NVERRWP – Increased Modesto and Turlock Portions ^(b)				DPWD	Complete																		
Percolation Ponds for Stormwater Capture and Recharge				City of Patterson	TBD	TBD																	
WSID Lateral 4-North Recapture and Recirculation Reservoir ^(c)				WSID	FS in 2021	TBD																	
Revision to TRID Lower Aquifer Pumping ^(d)				TRID	On-going																		

GSP Implementation Schedule
San Luis & Delta-Mendota Water Authority

NORTHERN & CENTRAL DELTA-MENDOTA REGION GSP IMPLEMENTATION 3-MONTH LOOK-AHEAD

TASK				RESPONSIBLE PARTY	START	END	DEC				JAN				FEB				MAR				
							WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5
	Management Actions ^(a)																						
		Lower Aquifer Pumping Rules for Minimizing Subsidence		GSAs	6/25/20	6/30/21																	
		Maximize Use of Other Water Supplies		GSAs	6/25/20	6/30/21																	
		Increasing GSA Access to and Input on Well Permits		GSAs	6/11/20	6/30/21																	
		Drought Contingency Planning in Urban Areas		GSAs	2/1/20	7/1/21																	
		Fill Data Gaps		GSAs	2/1/20	12/31/25																	
	Additional GSP Activities																						
		USGS / Basin Model		TBD	3/1/20	4/1/21																	
		Project Management and Communication		SLDMWA / EKI	3/1/20	4/1/21																	
		As-Needed Technical Support		EKI / W&C	3/1/20	4/1/21																	

Abbreviations																			
DMS = Data Management System				GSP = Groundwater Sustainability Plan				QA/QC = Quality Assurance/Quality Control				USBR = United States Bureau of Reclamation							
DM = Delta Mendota				NVRWP = North Valley Regional Recycled Water Program				SLDMWA = San Luis & Delta-Mendota Water Authority				USGS = United States Geological Survey							
DPWD = Del Puerto Water District				P&MA = Projects and Management Actions				SLWD = San Luis Water District				W&C = Woodard & Curran							
EKI = EKI Environment & Water, Inc.				PD = Preliminary Design				TBD = to be determined				WSID = West Stanislaus Irrigation District							
FS = Feasibility Study				PID = Patterson Irrigation District				TRID = Tranquillity Irrigation District											
GSA = Groundwater Sustainability Agency				P&P = Provost & Pritchard															

- Notes
- (a) Prop 68 Grant Coordination activities extend through 4/1/2022; Projects and Management Actions extend through 2025.
 - (b) Portion of project is complete. Increased supply of recycled water expected.
 - (c) Needs to be coordinated with Orestimba and Del Puerto Creek projects.
 - (d) In operation starting in 2017.



MEMORANDUM

TO: Northern and Central Delta-Mendota Activity Agreement Management Committees

CC: Scott Petersen, John Brodie, and Claire Howard, San Luis & Delta-Mendota Water Authority

FROM: Leslie Dumas and Natalie Cochran

DATE: December 14, 2020

RE: Proposed Changes to the Northern & Central Delta-Mendota GSP Region Representative Monitoring Networks

The purpose of this memorandum is to document proposed changes to the representative monitoring networks developed as part of the Northern & Central Delta-Mendota Region GSP. Woodard & Curran led individual meetings with designated monitoring entities throughout the Northern and Central Delta-Mendota Regions in October and November 2020 to discuss challenges faced during spring 2020 groundwater level and summer 2020 groundwater quality monitoring events and to identify and discuss any requested modifications to the representative monitoring networks. Revisions were requested to the groundwater levels, groundwater quality, and interconnected surface water monitoring networks. No revisions to the land subsidence representative monitoring network were requested.

Following approval and required documentation of representative monitoring networks revisions by each monitoring entity, Woodard & Curran will facilitate incorporation of the resulting modifications in the Delta-Mendota DMS and DWR's SGMA Portal.

1. GROUNDWATER LEVELS REPRESENTATIVE MONITORING NETWORK

The following subsections document requested revisions to the groundwater levels representative monitoring network by designated monitoring entity and revised sustainable management criteria.

1.1 Monitoring Location Revisions

Requested revisions to the groundwater levels representative monitoring network by designated monitoring entity are listed below. Note that during Water Year 2020, SLDMWA continued to conduct regular groundwater level monitoring under the CASGEM Program and Delta-Mendota Canal Pump-in Program (Warren Act wells). As of December 2020, SLDMWA staff are in the process of determining SLDMWA's role in future groundwater level monitoring within the Delta-Mendota Subbasin. The designated monitoring entities identified below will be notified prior to the seasonal high monitoring event for Water Year 2021 (starting in February 2021) of SLDMWA's and their respective groundwater level monitoring responsibilities as part of the GSP moving forward.



GSA	Proposed Representative Monitoring Network Revisions
City of Patterson	DMS ID 02-001 (MP037.32L) to be removed and replaced with Keystone well
Del Puerto Water District	No revisions requested
Eagle Field Water District	DMS ID 07-006 (MP094.26L) to be removed and replaced with MP093.27L
Mercy Springs Water District	DMS ID 07-011 (MP099.24L) to be removed, replacement well not yet identified
Panoche Water District	No revisions requested
Pacheco Water District	No revisions requested
Patterson Irrigation District	No revisions requested
San Luis Water District	DMS ID 07-004 (MP081.08R) to be removed, replacement well not yet identified Add Little Panoche Creek TSS well
Santa Nella County WD	No revisions requested
Stanislaus County	No revisions requested
Tranquillity Irrigation District	No revisions requested
Volta CSD	No revisions requested
West Stanislaus ID	No revisions requested
Widren Water District	DMS ID 08-001 to be removed and replaced with Well M-1/MP102.04L

Table 1 includes the requested groundwater levels representative monitoring network revisions as listed above as well as the responsible monitoring entity and revision status for all wells in the groundwater levels representative monitoring network. **Figure 1** and **Figure 2** show requested groundwater levels representative monitoring network revisions in the Upper Aquifer and Lower Aquifer, respectively.



TABLE 1. REQUESTED REPRESENTATIVE MONITORING NETWORK REVISIONS, GROUNDWATER LEVELS

DMS ID	Local ID	Aquifer	Responsible Monitoring Entity ¹	Overlying Agency	Requested Well Revision?	If so, what well?	Construction Available?	Aquifer Designation for Well Revision	Comments
01-001	MP030.43R	Lower	SLDMWA	Del Puerto WD	No	-	-	-	
01-002	MP033.71L	Lower	SLDMWA	Del Puerto WD	No	-	-	-	
01-003	MP045.78R	Lower	SLDMWA	Del Puerto WD	No	-	-	-	
01-004	MC10-2	Upper	SLDMWA	Del Puerto WD	No	-	-	-	
01-005	MP058.28L	Upper	SLDMWA	Del Puerto WD	No	-	-	-	
01-006	91	Lower	SLDMWA	Del Puerto WD	No	-	-	-	
01-007	MP021.12L	Lower	SLDMWA	Del Puerto WD	No	-	-	-	
01-008	MP051.66L	Lower	SLDMWA	Del Puerto WD	No	-	-	-	
02-001	MP037.32L	Upper	SLDMWA	City of Patterson	Yes	Keystone well	Yes	Upper	Revision requested due to well access concerns
02-002	WELL 02 - NORTH 5TH ST	Lower	City of Patterson	City of Patterson	No	-	-	-	
03-001	MW-2	Upper	SLDMWA	Patterson ID	No	-	-	-	
03-002	MW-3	Upper	Patterson ID	Patterson ID	No	-	-	-	
03-003	WSJ003	Upper	Patterson ID	Patterson ID	No	-	-	-	
04-001	121	Lower	SLDMWA	West Stanislaus ID	No	-	-	-	
06-001	P259-1	Lower	SLDMWA	Stanislaus County	No	-	-	-	
06-002	P259-3	Upper	SLDMWA	Stanislaus County	No	-	-	-	
06-003	WSID 3	Lower	SLDMWA	West Stanislaus ID	No	-	-	-	
06-004	MP031.31L1-L2Well1	Upper	SLDMWA	West Stanislaus ID ²	No	-	-	-	
07-002	MC15-1	Lower	SLDMWA	San Luis WD	No	-	-	-	
07-003	MC15-2	Upper	SLDMWA	San Luis WD	No	-	-	-	
07-004	MP081.08R	Upper	SLDMWA	San Luis WD	Yes	Not selected yet	-	-	Revision requested due to well access concerns
07-005	MP091.68R	Lower	SLDMWA	Pacheco WD	No	-	-	-	
07-006	MP094.26L	Lower	SLDMWA	Eagle Field WD	Yes	MP093.27L (Well 500)	Yes	Lower	Unable to retrieve water quality sample, revision requested to both groundwater level and groundwater quality monitoring networks to streamline monitoring activities
07-007	MC18-1	Lower	SLDMWA	Panoche WD	No	-	-	-	
07-008	PWD 48	Lower	SLDMWD	Panoche WD	No	-	-	-	Break in casing or issue with pump discovered in September 2020; Revision will be evaluated after condition assessment of PWD 48
07-009	KRCTID03	Upper	Tranquillity ID	Tranquillity ID	No	-	-	-	
07-010	KRCTID02	Upper	Tranquillity ID	Tranquillity ID	No	-	-	-	
07-011	MP099.24L	Upper	SLDMWA	Mercy Springs WD	Yes	Not selected yet	-	-	Issues with pump due to crystalized salts or corrosion, revision requested to both groundwater level and groundwater level monitoring networks to streamline monitoring activities; Three alternative wells available in surrounding area, to be selected following status check on pumps
07-012	GDA003	Upper	Panoche WD	Panoche WD	No	-	-	-	



DMS ID	Local ID	Aquifer	Responsible Monitoring Entity ¹	Overlying Agency	Requested Well Revision?	If so, what well?	Construction Available?	Aquifer Designation for Well Revision	Comments
07-013	Little Panoche Creek	Both	San Luis WD	San Luis WD	-	-	Yes	-	Additional nested monitoring well funded by DWR's Technical Support Services Program
07-014	TW-4	Lower	Tranquillity ID	Tranquillity ID	No	-	-	-	
07-015	TW-5	Lower	Tranquillity ID	Tranquillity ID	No	-	-	-	
07-016	Well 01	Lower	Santa Nella County WD	Santa Nella County WD	No	-	-	-	
07-017	Well 1	Upper	SLDMWA	Volta CSD	No	-	-	-	
07-018	WSJ001	Upper	Tranquillity ID	Tranquillity ID	No	-	-	-	
08-001	MP102.04R	Upper	SLDMWA	Widren WD	Yes	Well M-1/MP102.04L	Yes	-	Well collapsed and abandoned in August 2020; Working to get Well M-1/MP102.04L operational and will have more information in January 2021

¹ Responsible monitoring entity as of December 2020. Subject to change based on discussion among SLDMWA staff regarding its future role in groundwater level monitoring in the Delta-Mendota Subbasin.
² Due to a GSA boundary revision requested by Northwestern Delta-Mendota GSA and West Stanislaus Irrigation District GSA in August 2020, West Stanislaus Irrigation District has become the overlying agency.

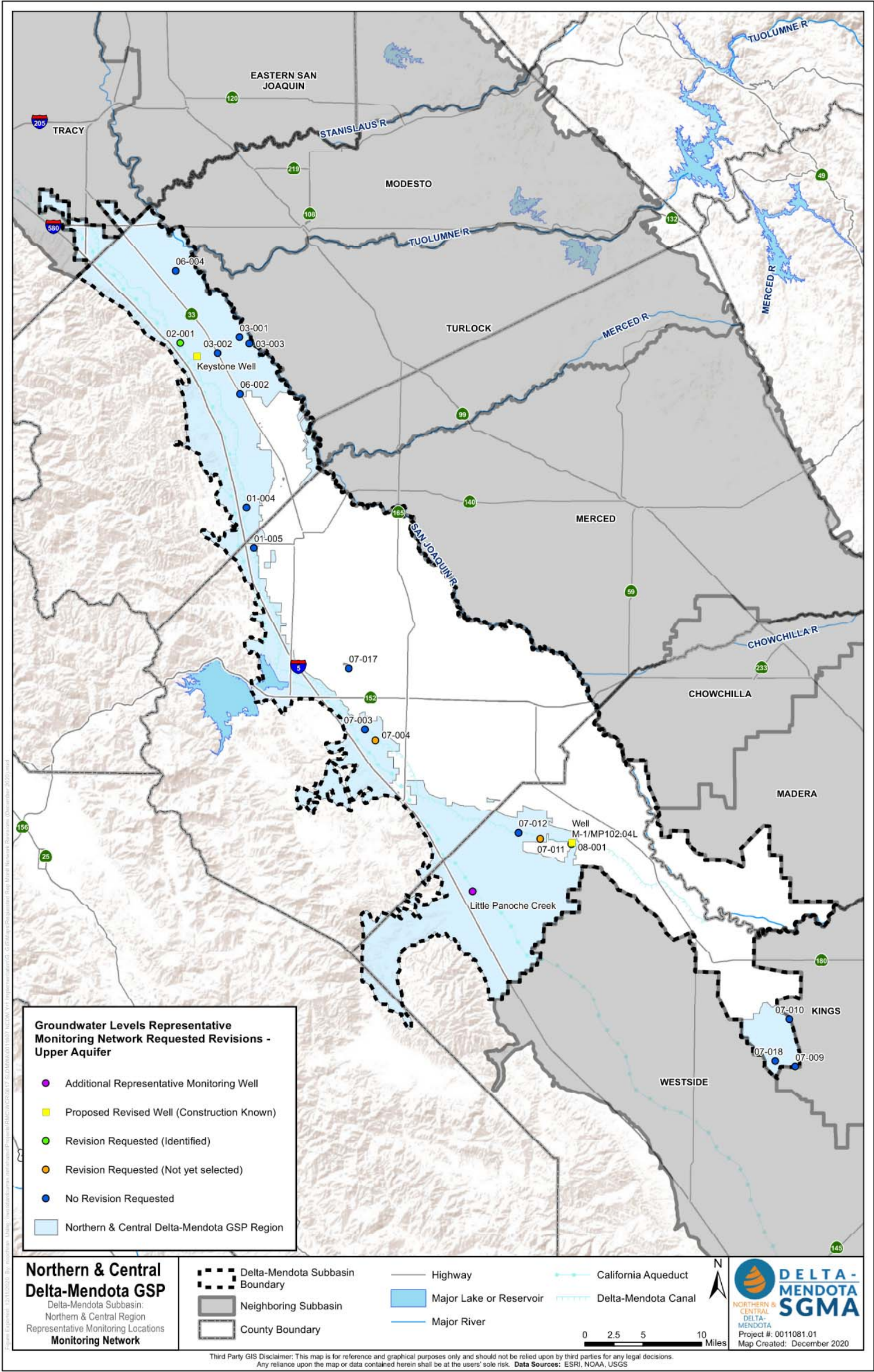


FIGURE 1. GROUNDWATER LEVELS REPRESENTATIVE MONITORING NETWORK REQUESTED REVISIONS, UPPER AQUIFER

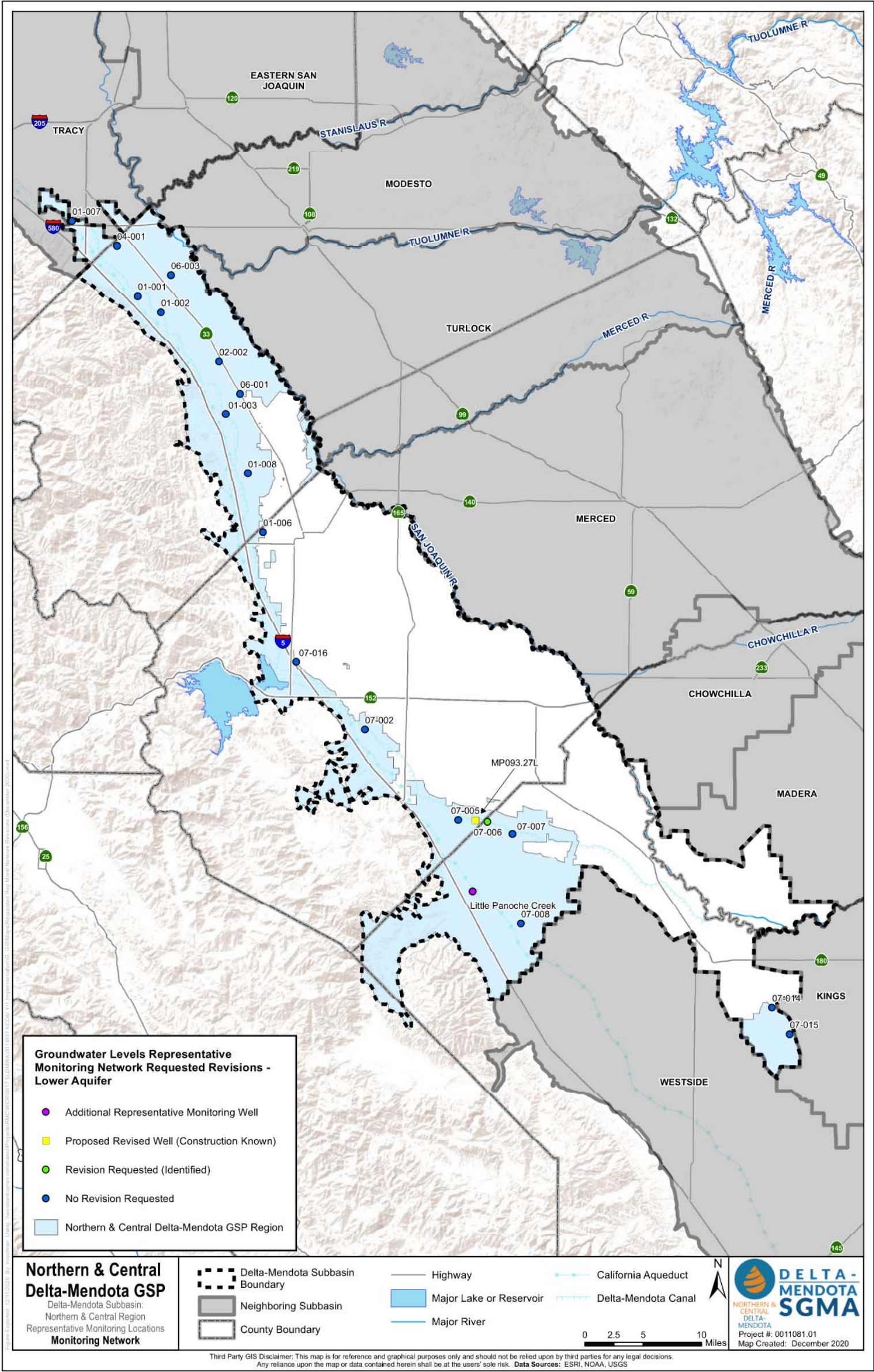


FIGURE 2. GROUNDWATER LEVELS REPRESENTATIVE MONITORING NETWORK REQUESTED REVISIONS, LOWER AQUIFER



1.2 Revised Sustainable Management Criteria

As of December 2020, replacement wells for the groundwater levels representative monitoring network have only been identified for DMS ID 02-001, 07-006, 08-001. DMS ID 07-013 (Little Panoche Creek well) was installed in July 2020 and therefore insufficient groundwater level data are available to established quantitative sustainable management criteria. **Table 2** and **Table 3** show revised minimum thresholds for the groundwater levels representative monitoring network in the Upper Aquifer and Lower Aquifer, respectively. **Table 4** and **Table 5** show revised measurable objectives for the groundwater levels representative monitoring network in the Upper Aquifer and Lower Aquifer, respectively. **Figure 3**, **Figure 4**, and **Figure 5** include the hydrographs for the Keystone well (new DMS ID 02-001), MP093.27L/Well 500 (new DMS ID 07-006), and Well M-1/102.04L (new DMS ID 08-001) respectively, with the calculated minimum thresholds and measurable objectives.

TABLE 2. MINIMUM THRESHOLDS FOR GROUNDWATER LEVELS REPRESENTATIVE MONITORING NETWORK - REQUESTED REVISIONS, UPPER AQUIFER

Narrative Description				
The minimum threshold is the hydrologic low over the available hydrograph record.				
Numeric Minimum Thresholds – Chronic Lower of Groundwater Levels in Upper Aquifer				
DMS ID	Local ID	Minimum Threshold (feet above msl, NAVD88)	Replacement Well	Revised Minimum Threshold (feet above msl, NAVD88) ¹
01-004	MC10-2	158.8	-	-
01-005 ²	MP058.28L	86	-	-
02-001	MP037.32L	-49.1	Keystone well	-19.16
03-001 ³	MW-2	28.72	-	-
03-002 ³	MW-3	7.66	-	-
03-003 ³	WSJ003	32.93	-	-
06-002	P259-3	28.6	-	-
06-004	MP031.31L1-L2Well1	14.8	-	-
07-003	MC15-2	62.4	-	-
07-004	MP081.08R	58.2	-	-
07-009	KRCDTID03	60.3	TBD	TBD
07-010	KRCDTID02	72.7	-	-
07-011	MP099.24L	-52.63	TBD	TBD
07-012	GDA003	-41.1	-	-
07-013	Little Panoche Creek	-	-	TBD
07-017 ²	Well 1	75.4	-	-
07-018	WSJ001	60.3	-	-
08-001 ⁴	MP102.04R	-15.9	Well M-1/MP102.04L	50.65

¹ TBD = To be determined

² Minimum thresholds value revised since submittal of GSP to reflect removal of proxy data and availability of historic record.

³ Minimum thresholds value revised since submittal of GSP to reflect confusion between depth to water and water surface elevation measurements.

⁴ DMS ID modified from 07-013 to reflect monitoring responsibilities performed by Widren Water District GSA.



TABLE 3. MINIMUM THRESHOLDS FOR GROUNDWATER LEVELS REPRESENTATIVE MONITORING NETWORK - REQUESTED REVISIONS, LOWER AQUIFER

Narrative Description				
The minimum threshold is 95 percent of the hydrologic low for the available hydrograph record.				
Numeric Minimum Thresholds – Chronic Lower of Groundwater Levels in Lower Aquifer				
DMS ID	Local ID	Minimum Threshold (feet above msl NAVD88)	Replacement Well	Revised Minimum Threshold (feet above msl NAVD88) ¹
01-007 ²	MP021.12L	-16.2	-	-
01-001 ²	MP030.43R	-42.6	-	-
01-002	MP033.71L	-34.3	-	-
06-003	WSID 3	-8.6	-	-
02-002	WELL 02 - NORTH 5TH ST	-17.4	-	-
06-001 ²	P259-1	-49.6	-	-
01-003	MP045.78R	-20.7	-	-
04-001	121	-6.1	-	-
01-008	MP051.66L	-42.6	-	-
01-006	91	72.3	-	-
07-016 ²	Well 01	-2.32	-	-
07-002 ²	MC15-1	1.49	-	-
07-005	MP091.68R	-80.4	-	-
07-006	MP094.26L	-77.8	MP093.27L (Well 500)	-83.76
07-007	MC18-1	-50.8	-	-
07-008	PWD 48	-87.4	-	-
07-013	Little Panoche Creek	-	-	TBD
07-014	TW-4	-126.8	-	-
07-015	TW-5	-146.8	-	-

¹ TBD = To be determined

² Minimum thresholds value revised since submittal of GSP to reflect removal of proxy data and availability of historic record.



**TABLE 4. MEASURABLE OBJECTIVES FOR GROUNDWATER LEVELS
REPRESENTATIVE MONITORING NETWORK - REQUESTED REVISIONS, UPPER
AQUIFER**

Narrative Description				
The measurable objective is set at the lowest value of three parameters: the average historic seasonal high over the available hydrograph, Spring 2012 seasonal high, or Spring 2017 seasonal high.				
Numeric Measurable Objectives – Chronic Lower of Groundwater Levels in Upper Aquifer				
DMS ID	Local ID	Measurable Objective (feet above msl, NAVD88)	Replacement Well	Revised Measurable Objective (feet above msl, NAVD88) ¹
01-004	MC10-2	160.8	-	-
01-005 ²	MP058.28L	107.5	-	-
02-001	MP037.32L	22	Keystone Well	-19.16
03-001 ³	MW-2	35.22	-	-
03-002 ³	MW-3	34.22	-	-
03-003 ³	WSJ003	37.26	-	-
06-002	P259-3	40.3	-	-
06-004	MP031.31L1-L2Well1	38.9	-	-
07-003	MC15-2	71.6	-	-
07-004	MP081.08R	90.1	-	-
07-009	KRCDTID03	70.5	TBD	TBD
07-010	KRCDTID02	96.3	-	-
07-011	MP099.24L	12.1	TBD	TBD
07-012	GDA003	24.7	-	-
07-013	Little Panoche Creek	-	TBD	TBD
07-017 ²	Well 1	88.9	-	-
07-018	WSJ001	70.5	-	-
08-001 ⁴	MP102.04R	34.9	Well M-1/ MP102.04L	88.65

¹ TBD = To be determined

² Measurable objective value revised since submittal of GSP to reflect removal of proxy data and availability of historic record.

³ Measurable objective value revised since submittal of GSP to reflect confusion between depth to water and water surface elevation measurements.

⁴ DMS ID modified from 07-013 to reflect monitoring responsibilities performed by Widren Water District GSA.



**TABLE 5. MEASURABLE OBJECTIVES FOR GROUNDWATER LEVELS
REPRESENTATIVE MONITORING NETWORK - REQUESTED REVISIONS, LOWER
AQUIFER**

Narrative Description				
The measurable objective is set at the lowest value of three parameters: the average historic seasonal high over the available hydrograph, Spring 2012 seasonal high, or Spring 2017 seasonal high.				
Numeric Measurable Objectives – Chronic Lower of Groundwater Levels in Lower Aquifer				
DMS ID	Local ID	Measurable Objective (feet above msl, NAVD88)	Replacement Well	Revised Measurable Objective (feet above msl, NAVD88) ¹
01-001 ²	MP030.43R	-11.2		
01-002	MP033.71L	6.6		
01-003	MP045.78R	63.8		
01-006	91	84.4		
01-007 ²	MP021.12L	12.3		
01-008	MP051.66L	8.5		
02-002	WELL 02 - NORTH 5TH ST	24.7		
04-001	121	7.8		
06-001 ²	P259-1	11.2		
06-003	WSID 3	31.3		
07-002 ²	MC15-1	14.35		
07-005	MP091.68R	-34.3		
07-006	MP094.26L	-28.8	MP093.27L (Well 500)	-10.23
07-007	MC18-1	-2		
07-008	PWD 48	-49		
07-013	Little Panoche Creek	-	-	TBD
07-014	TW-4	-28.2		
07-015	TW-5	-27.2		
07-016 ²	Well 01	73.9		

¹ TBD = To be determined

² Measurable objective value revised since submittal of GSP to reflect removal of proxy data and availability of historic record.

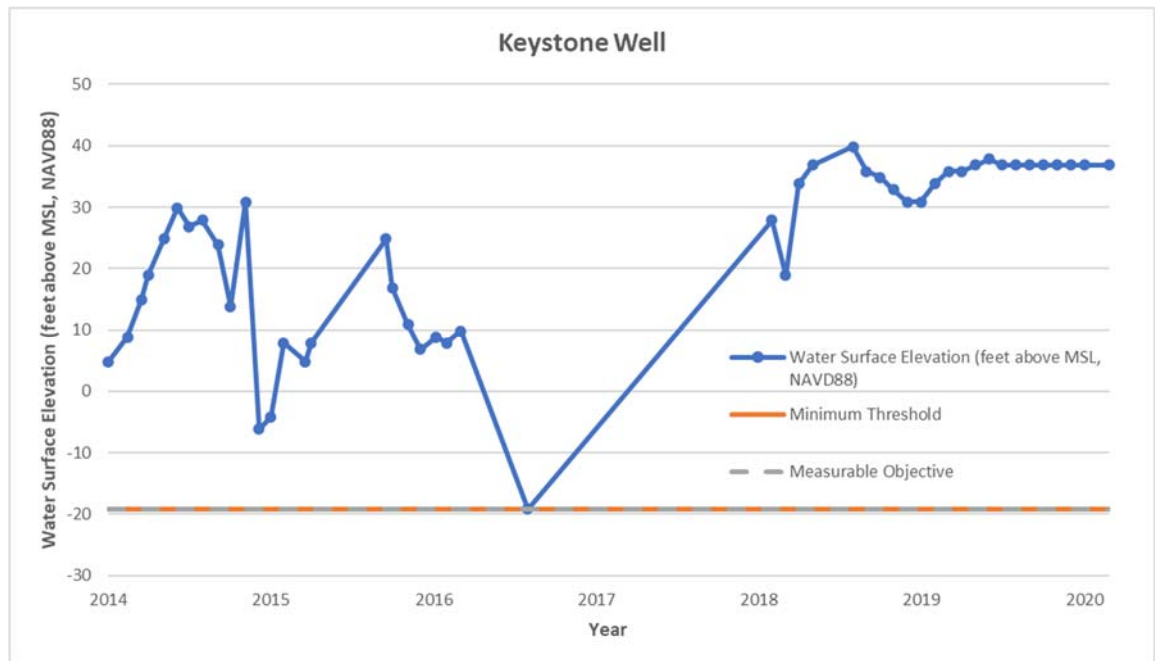


FIGURE 3. HYDROGRAPH FOR KEYSTONE WELL

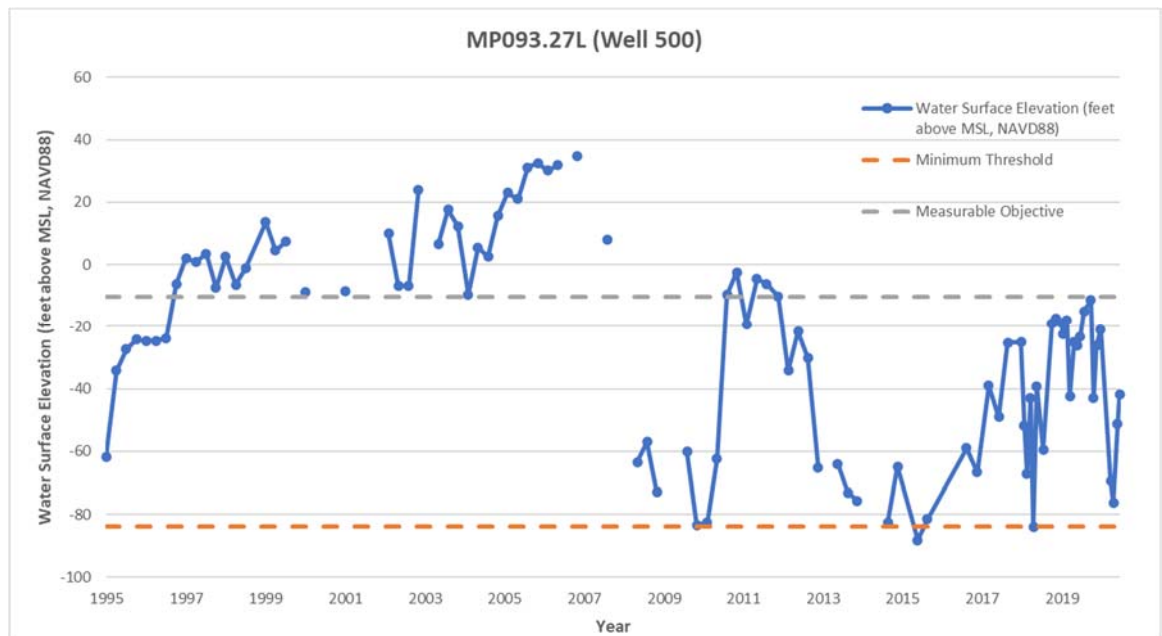


FIGURE 4. HYDROGRAPH FOR MP093.27L

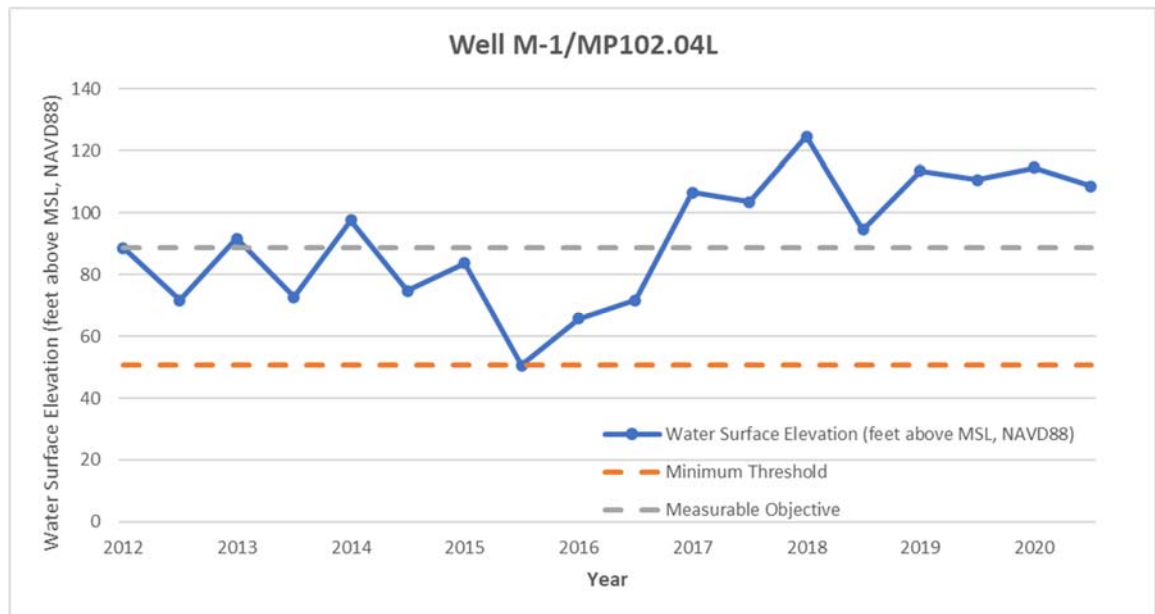


FIGURE 5. HYDROGRAPH FOR WELL M-1/MP102.04L



2. GROUNDWATER QUALITY REPRESENTATIVE MONITORING NETWORK

The following subsections document requested revisions to the groundwater quality representative monitoring network by designed monitoring entity and revised sustainable management criteria.

2.1 Monitoring Location Revisions

Requested revisions to the groundwater quality representative monitoring network by designated monitoring entity are listed below. Each entity is responsible for collecting annual groundwater quality samples between May and August testing for TDS, nitrate as N, and boron.

GSA	Proposed Representative Monitoring Network Revisions
City of Patterson	DMS ID 02-001 (MP037.32L) to be removed and replaced with Keystone well
Del Puerto Water District	DMS ID 01-005 to be removed and replaced with small well on Sandhu's property
Eagle Field Water District	DMS ID 07-006 (MP094.26L) to be removed and replaced with MP093.27L (Well 500)
Mercy Springs Water District	DMS ID 07-011 (MP099.24L) to be removed, replacement well not yet identified
Panoche Water District	No revisions requested
Pacheco Water District	DMS ID 07-005 to be removed contingent upon available construction details for MP092.20R
Patterson Irrigation District	DMS ID 03-002 to be removed and replaced with MW-1
San Luis Water District	DMS ID 07-004 (MP081.08R) to be removed, replacement well not yet identified Add Little Panoche Creek TSS well
Santa Nella County WD	No revisions requested
Stanislaus County	DMS IDs 06-001, 06-002, and 06-004 to be removed following completion of Well Census and Inventory Project
Tranquillity Irrigation District	DMS ID 07-009 to be removed, replacement not yet selected DMS ID 07-010 to be removed and replaced with TW-4 (upper component)
Volta CSD	No revisions requested
West Stanislaus ID	No revisions requested
Widren Water District	DMS ID 08-001 to be removed and replaced with Well M-1/MP102.04L

Table 6 includes the requested groundwater quality representative monitoring network revisions as listed above as well as the responsible monitoring entity and revision status for all wells in the groundwater quality representative monitoring network. **Figure 6** and **Figure 7** show requested groundwater quality representative monitoring network revisions in the Upper Aquifer and Lower Aquifer, respectively.



TABLE 6. REQUESTED REPRESENTATIVE MONITORING NETWORK REVISIONS, GROUNDWATER QUALITY

DMS ID	Local ID	Aquifer	Responsible Monitoring Entity	Requested Well Revision?	If so, what well?	Construction Available?	Aquifer Designation for Well Revision	Comments
01-001	MP030.43R	Lower	Del Puerto WD	No	-	-	-	
01-002	MP033.71L	Lower	Del Puerto WD	No	-	-	-	
01-003	MP045.78R	Lower	Del Puerto WD	No	-	-	-	
01-004	MC10-2	Upper	USGS/Del Puerto WD	No	-	-	-	
01-005	MP058.28L	Upper	Del Puerto WD	Yes	Small well on Sandhu's property	Yes	-	Revision requested due to well access concerns; Del Puerto WD to provide construction details and historic data available
01-006	91	Lower	Del Puerto WD	No	-	-	-	
01-007	MP021.12L	Lower	Del Puerto WD	No	-	-	-	
01-008	MP051.66L	Lower	Del Puerto WD	No	-	-	-	
02-001	MP037.32L	Upper	City of Patterson	Yes	Keystone well	Yes	Upper	Revision requested due to well access concerns
02-002	WELL 02 - NORTH 5TH ST	Lower	City of Patterson	No	-	-	-	
03-001	MW-2	Upper	Patterson ID	No	-	-	-	
03-002	MW-3	Upper	Patterson ID	Yes	MW-1	Yes	Lower	Revision requested due to sampling safety concerns
03-003	WSJ003	Upper	Patterson ID	No	-	-	-	
04-001	121	Lower	West Stanislaus ID	No	-	-	-	
06-001	P259-1	Lower	USGS/Stanislaus County	Yes	Not selected yet	-	-	Evaluation of potential revision will take place following completion of the Well Census and Inventory project
06-002	P259-3	Upper	USGS/Stanislaus County	Yes	Not selected yet	-	-	Evaluation of potential revision will take place following completion of the Well Census and Inventory project
06-003	WSID 3	Lower	West Stanislaus ID	No	-	-	-	
06-004	MP031.31L1-L2Well1	Upper	West Stanislaus ID ²	Yes	Not selected yet	-	-	Evaluation of potential revision will take place following completion of the Well Census and Inventory project
07-002	MC15-1	Lower	USGS/San Luis WD	No	-	-	-	
07-003	MC15-2	Upper	USGS/San Luis WD	No	-	-	-	
07-004	MP081.08R	Upper	San Luis WD	Yes	Not selected yet	-	-	Revision requested due to well access concerns
07-005	MP091.68R	Lower	Pacheco WD	Yes	MP092.20R	No	Unknown	Continued sampling of MP091.68R dependent on purchase of pump by Pacheco Water District to perform groundwater quality sampling
07-006	MP094.26L	Lower	Eagle Field WD	Yes	MP093.27L (Well 500)	Yes	Lower	Revision requested due to inability to retrieve water quality sample
07-007	MC18-1	Lower	USGS/Panoche WD	No	-	-	-	
07-008	PWD 48	Lower	Panoche WD	No	-	-	-	Break in casing or issue with pump discovered in September 2020; Revision will be evaluated after condition assessment of PWD 48



DMS ID	Local ID	Aquifer	Responsible Monitoring Entity	Requested Well Revision?	If so, what well?	Construction Available?	Aquifer Designation for Well Revision	Comments
07-009	KRCDTID03	Upper	Tranquillity ID	Yes	Not selected yet	-	-	Revision requested due to inability to purge the well; Tranquillity Irrigation District will look into submitting a TSS application for an Upper Aquifer replacement well
07-010	KRCDTID02	Upper	Tranquillity ID	Yes	TW-4 (upper component)	-	-	Revision requested due to inability to purge the well
07-011	MP099.24L	Upper	Mercy Springs WD	Yes	Not selected yet	-	-	Issues with pump due to crystalized salts or corrosion, revision requested to both groundwater level and groundwater level monitoring networks to streamline monitoring activities; Three alternative wells available in surrounding area, to be selected following status check on pumps
07-012	GDA003	Upper	Panoche WD	No	-	-	-	
07-013	Little Panoche Creek	Both	San Luis WD	-	-	Yes	-	Additional nested monitoring well funded by DWR's Technical Support Services Program
07-014	TW-4	Lower	Tranquillity ID	No	-	-	-	
07-015	TW-5	Lower	Tranquillity ID	No	-	-	-	
07-016	Well 01	Lower	Santa Nella County WD	No	-	-	-	
07-017	Well 1	Upper	Volta CSD	No	-	-	-	
07-018	WSJ001	Upper	Tranquillity ID	No	-	-	-	
08-001 ¹	MP102.04R	Upper	Widren WD	Yes	Well M-1/MP102.04L	Yes	-	Well collapsed and abandoned in August 2020; Working to get Well M-1/MP102.04L operational and will have more information in January 2021

¹ DMS ID modified from 07-013 to reflect monitoring responsibilities performed by Widren Water District GSA
² Due to a GSA boundary revision requested by Northwestern Delta-Mendota GSA and West Stanislaus Irrigation District GSA in August 2020, West Stanislaus Irrigation District has become the responsible monitoring entity.

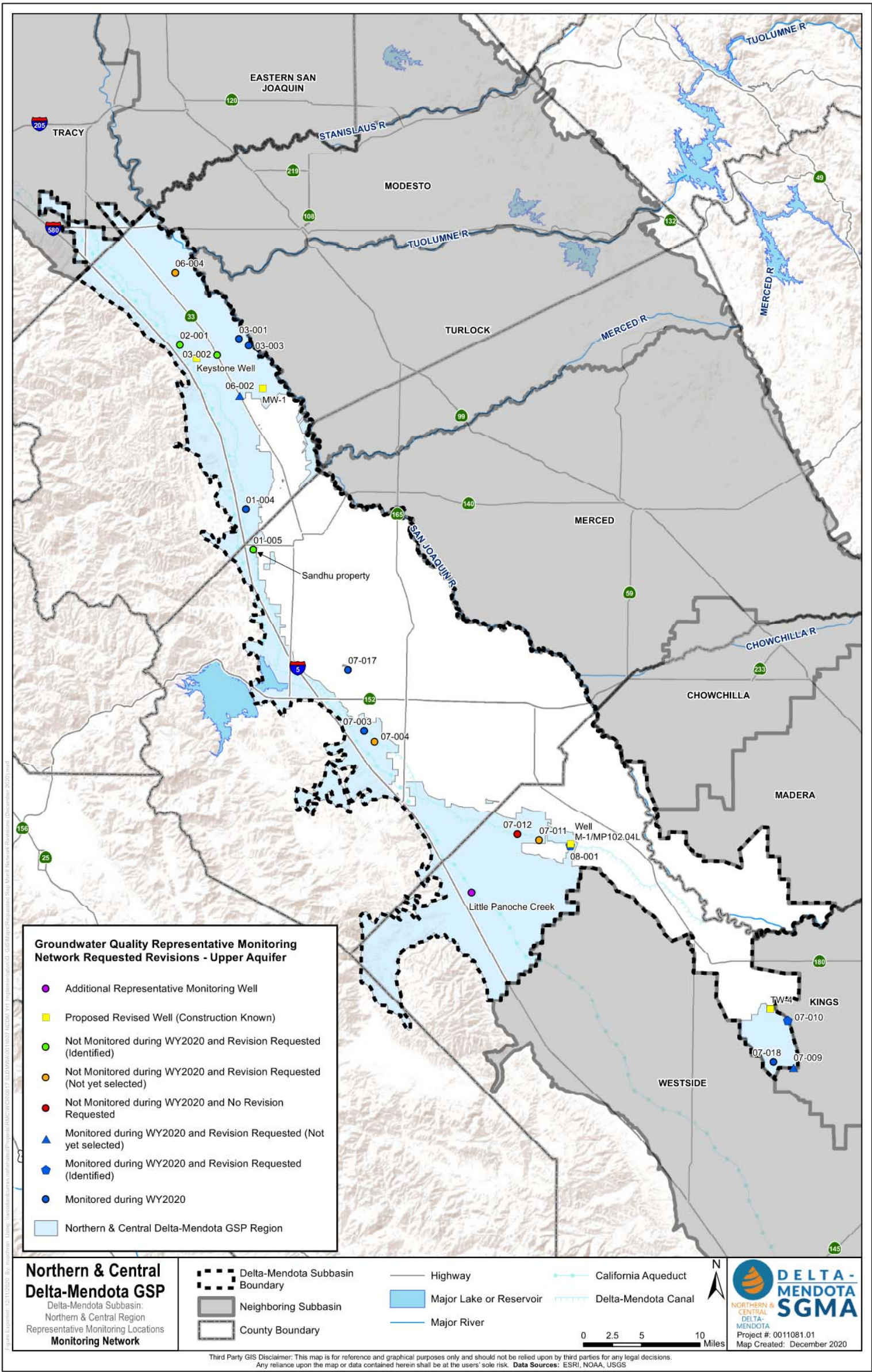


FIGURE 6. GROUNDWATER QUALITY REPRESENTATIVE MONITORING NETWORK REQUESTED REVISIONS, UPPER AQUIFER

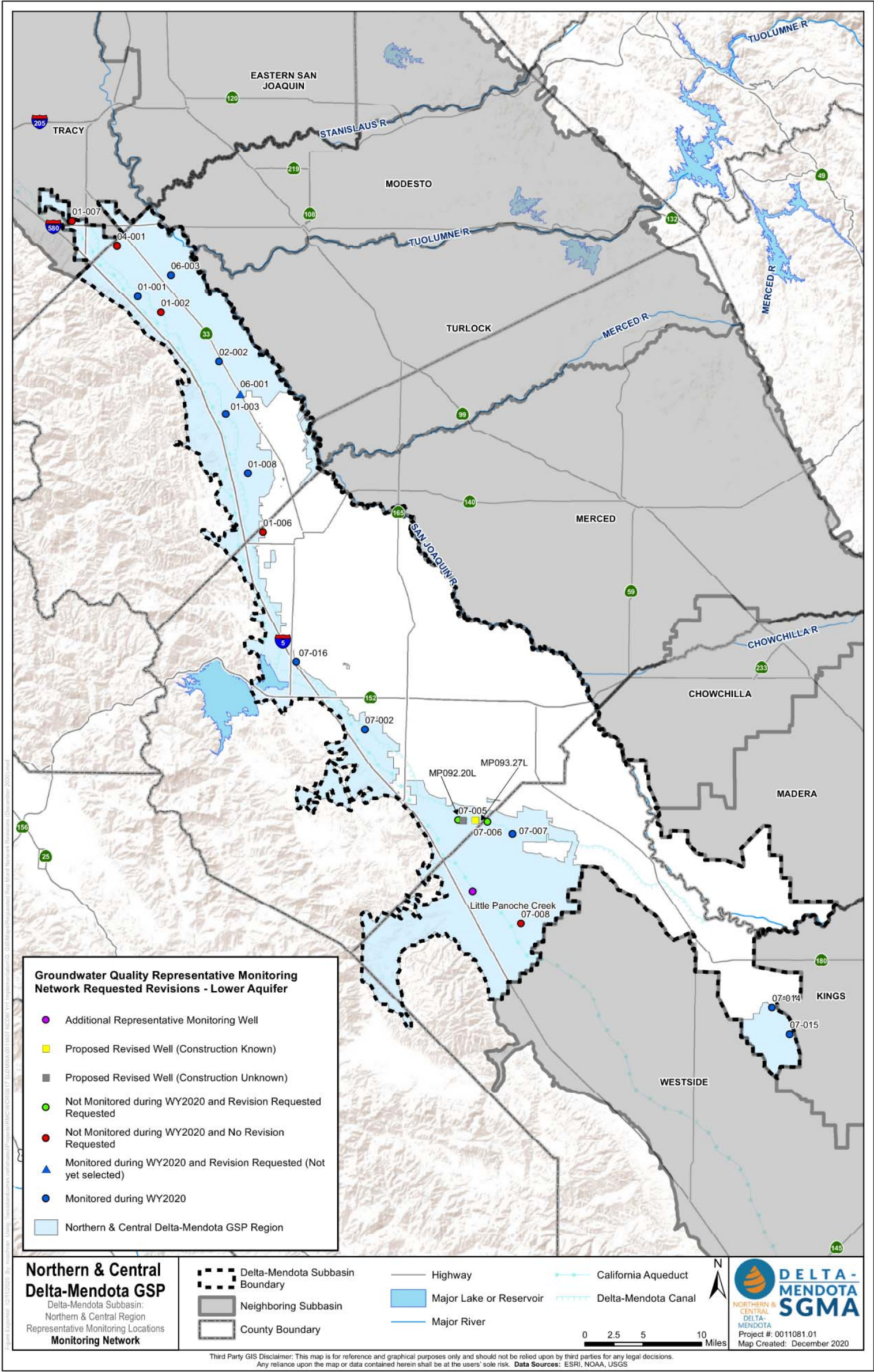


FIGURE 7. GROUNDWATER QUALITY REPRESENTATIVE MONITORING NETWORK REQUESTED REVISIONS, LOWER AQUIFER



2.2 Revised Sustainable Management Criteria

Table 7 and **Table 8** show revised minimum thresholds for the groundwater quality representative monitoring network in the Upper Aquifer and Lower Aquifer, respectively. **Table 9** and **Table 10** show revised measurable objectives for the groundwater quality representative monitoring network in the Upper Aquifer and Lower Aquifer, respectively.

**TABLE 7. MINIMUM THRESHOLDS FOR GROUNDWATER QUALITY - REQUESTED REVISIONS, UPPER AQUIFER**

Narrative Description								
The minimum threshold is set as the upper Secondary MCL for TDS, Primary MCL for nitrate as N, and WQO for irrigation for boron or the current groundwater quality where it exceeds the afore-mentioned criteria as of December 2018.								
Numeric Minimum Thresholds – Degraded Water Quality in Upper Aquifer								
DMS ID	Local ID	Minimum Threshold (mg/L)			Replacement Well ¹	Revised Minimum Threshold (mg/L) ¹		
		TDS	Nitrate as N	Boron		TDS	Nitrate as N	Boron
01-004	MC10-2	2,500	60	1.7	-	-	-	-
01-005	MP058.28L	2,500	60	1.7	Small well on Sandu's property	2,500	60	1.7
02-001	MP037.32L	4,000	80	3	Keystone well	4,000	80	3
03-001	MW-2	4,000	80	3	-	-	-	-
03-002	MW-3	4,000	80	3	MW-1	2,500	60	1.7
03-003	WSJ003	4,000	80	3	-	-	-	-
06-002	P259-3	2,500	60	1.7	TBD	TBD	TBD	TBD
06-004	MP031.31L1-L2Well1	4,000	80	3	TBD	TBD	TBD	TBD
07-003	MC15-2	2,700	90	1	-	-	-	-
07-004	MP081.08R	2,700	90	1	TBD	TBD	TBD	TBD
07-009	KRCdTID03	1,000	10	2.2	TBD	TBD	TBD	TBD
07-010	KRCdTID02	1,000	10	2.2	TW-4 (upper component)	1,000	10	2.2
07-011	MP099.24L	3,500	13	6	TBD	TBD	TBD	TBD
07-012	GDA003	3,500	13	6	-	-	-	-
07-013	Little Panoche Creek	-	-	-	-	3,500	13	6
07-017	Well 1	1,000	60	0.9	-	-	-	-
07-018	WSJ001	1,000	10	2.2	-	-	-	-
08-001 ²	MP102.04R	3,500	13	6	Well M-1/ MP012.04L	3,500	13	6

¹ TBD = To be determined² DMS ID modified from 07-013 to reflect monitoring responsibilities performed by Widren Water District GSA

**TABLE 8. MINIMUM THRESHOLDS FOR GROUNDWATER QUALITY - REQUESTED REVISIONS, LOWER AQUIFER**

Narrative Description								
The minimum threshold is set as the upper Secondary MCL for TDS, Primary MCL for nitrate as N, and WQO for irrigation for boron or the current groundwater quality where it exceeds the afore-mentioned criteria as of December 2018.								
Numeric Minimum Thresholds – Degraded Water Quality in Lower Aquifer								
DMS ID	Local ID	Minimum Threshold (mg/L)			Replacement Well ¹	Revised Minimum Threshold (mg/L) ¹		
		TDS	Nitrate as N	Boron		TDS	Nitrate as N	Boron
01-001	MP030.43R	2,000	50	3	-	-	-	-
01-002	MP033.71L	2,000	50	3	-	-	-	-
01-003	MP045.78R	4,000	70	0.7	-	-	-	-
01-006	91	4,000	70	0.7	-	-	-	-
01-007	MP021.12L	2,000	50	3	-	-	-	-
01-008	MP051.66L	4,000	70	0.7	-	-	-	-
02-002	WELL 02 - NORTH 5TH STREET	2,000	50	3	-	-	-	-
04-001	121	4,000	70	0.7	-	-	-	-
06-001	P259-1	4,000	70	0.7	TBD	TBD	TBD	TBD
06-003	WSID 3	2,000	50	3	-	-	-	-
07-002	MC15-1	1,200	18	0.8	-	-	-	-
07-005	MP091.68R	2,600	10	6	MP092.20R	2,600	10	6
07-006	MP094.26L	2,600	10	6	MP093.27L/ Well 500	2,600	10	6
07-007	MC18-1	2,600	10	6	-	-	-	-
07-008	PWD 48	2,600	10	6	-	-	-	-
07-013	Little Panoche Creek	-	-	-	-	2,600	10	6
07-014	TW-4	1,000	10	1.1	-	-	-	-
07-015	TW-5	1,000	10	1.1	-	-	-	-
07-016	Well 01	1,000	17	0.7	-	-	-	-

¹ TBD = To be determined



TABLE 9. MEASURABLE OBJECTIVES FOR GROUNDWATER QUALITY - REQUESTED REVISIONS, UPPER AQUIFER

Narrative Description								
The measurable objective is set as the current groundwater quality conditions by GSP subregion.								
Numeric Measurable Objectives – Degraded Water Quality in Upper Aquifer								
DMS ID	Local ID	Measurable Objective (mg/L)			Replacement Well ¹	Revised Measurable Objective (mg/L) ¹		
		TDS	Nitrate as N	Boron		TDS	Nitrate as N	Boron
01-004	MC10-2	2,500	60	1.7	-	-	-	-
01-005	MP058.28L	2,500	60	1.7	Small well on Sandu's property	2,500	60	1.7
02-001	MP037.32L	4,000	80	3	Keystone well	4,000	80	3
03-001	MW-2	4,000	80	3	-	-	-	-
03-002	MW-3	4,000	80	3	MW-1	2,500	60	1.7
03-003	WSJ003	4,000	80	3	-	-	-	-
06-002	P259-3	2,500	60	1.7	TBD	TBD	TBD	TBD
06-004	MP031.31L1-L2Well1	4,000	80	3	TBD	TBD	TBD	TBD
07-003	MC15-2	2,700	90	1	-	-	-	-
07-004	MP081.08R	2,700	90	1	TBD	TBD	TBD	TBD
07-009	KRCDTID03	800	1	2.2	TBD	TBD	TBD	TBD
07-010	KRCDTID02	800	1	2.2	TW-4 (upper component)	800	1	2.2
07-011	MP099.24L	3,500	13	6	TBD	TBD	TBD	TBD
07-012	GDA003	3,500	13	6	-	-	-	-
07-013	Little Panoche Creek	-	-	-	-	3,500	13	6
07-017	Well 1	1,000	60	0.9	-	-	-	-
07-018	WSJ001	800	1	2.2	-	-	-	-
08-001 ²	MP102.04R	3,500	13	6	Well M-1/ MP012.04L	3,500	13	6

¹ TBD = To be determined² DMS ID modified from 07-013 to reflect monitoring responsibilities performed by Widren Water District GSA



TABLE 10. MEASURABLE OBJECTIVES FOR GROUNDWATER QUALITY - REQUESTED REVISIONS, LOWER AQUIFER

Narrative Description								
The measurable objective is set as the current groundwater quality conditions by GSP subregion.								
Numeric Measurable Objectives – Degraded Water Quality in Lower Aquifer								
DMS ID	Local ID	Measurable Objective (mg/L)			Replacement Well ¹	Revised Measurable Objective (mg/L) ¹		
		TDS	Nitrate as N	Boron		TDS	Nitrate as N	Boron
01-001	MP030.43R	2,000	50	3	-	-	-	-
01-002	MP033.71L	2,000	50	3	-	-	-	-
01-003	MP045.78R	4,000	70	0.6	-	-	-	-
01-006	91	4,000	70	0.6	-	-	-	-
01-007	MP021.12L	2,000	50	3	-	-	-	-
01-008	MP051.66L	4,000	70	0.6	-	-	-	-
02-002	WELL 02 - NORTH 5TH STREET	2,000	50	3	-	-	-	-
04-001	121	4,000	70	0.6	-	-	-	-
06-001	P259-1	4,000	70	0.6	TBD	TBD	TBD	TBD
06-003	WSID 3	2,000	50	3	-	2,000	50	3
07-002	MC15-1	1,200	18	0.8	-	-	-	-
07-005	MP091.68R	2,600	10	6	MP092.20R	2,600	10	6
07-006	MP094.26L	2,600	10	6	MP093.27L/Well 500	2,600	10	6
07-007	MC18-1	2,600	10	6	-	-	-	-
07-008	PWD 48	2,600	10	6	-	-	-	-
07-013	Little Panoche Creek	-	-	-	-	-	-	-
07-014	TW-4	775	1	1.1	-	-	-	-
07-015	TW-5	775	1	1.1	-	-	-	-
07-016	Well 01	1,000	17	0.2	-	-	-	-

¹ TBD = To be determined



3. LAND SUBSIDENCE REPRESENTATIVE MONITORING NETWORK

As of December 2020, no revisions have been requested for the land subsidence representative monitoring network. **Table 11** summarizes the existing land subsidence representative monitoring network with no requested revisions.



TABLE 11. LAND SUBSIDENCE REPRESENTATIVE MONITORING NETWORK

DMS ID	Local ID	Monitoring Agency	Site Type	County	Management Area	Monitoring Frequency	GSA/Agency
02-003	Floragold Well	City of Patterson	Benchmark	Stanislaus	N/A	Every other year during even years	City of Patterson
02-008	Well 11	City of Patterson	Benchmark	Stanislaus	N/A	Every other year during even years	City of Patterson
02-005	Well 2	City of Patterson	Benchmark	Stanislaus	N/A	Every other year during even years	City of Patterson
02-006	Well 4	City of Patterson	Benchmark	Stanislaus	N/A	Every other year during even years	City of Patterson
02-007	Well 6	City of Patterson	Benchmark	Stanislaus	N/A	Every other year during even years	City of Patterson
03-004	Locust Avenue Well	Patterson Irrigation District	Benchmark	Stanislaus	WSID-PID	Baseline survey in 2019; Subsequent surveys in 2020 and 2023	City of Patterson
03-005	Pumping Plant No. 2	Patterson Irrigation District	Benchmark	Stanislaus	WSID-PID	Baseline survey in 2019; Subsequent surveys in 2020 and 2023	Patterson ID
03-006	River Station	Patterson Irrigation District	Benchmark	Stanislaus	WSID-PID	Baseline survey in 2019; Subsequent surveys in 2020 and 2023	Patterson ID
01-010	Subsidence Monitoring Point #1	USBR / SLDMWA	Benchmark	Stanislaus	N/A	Every other year during even years	Outside subbasin, closest to DM-II (DPWD)
01-011	Subsidence Monitoring Point #2	USBR / SLDMWA	Benchmark	Stanislaus	N/A	Every other year during even years	DM-II (DPWD)
01-012	Subsidence Monitoring Point #3	USBR / SLDMWA	Benchmark	Stanislaus	N/A	Every other year during even years	DM-II (DPWD)
01-013	Subsidence Monitoring Point #4	USBR / SLDMWA	Benchmark	Stanislaus	N/A	Every other year during even years	DM-II (DPWD)
01-014	Subsidence Monitoring Point #5	USBR / SLDMWA	Benchmark	Stanislaus	N/A	Every other year during even years	DM-II (DPWD)
02-004	Subsidence Monitoring Point #6	USBR / SLDMWA	Benchmark	Stanislaus	N/A	Every other year during even years	DM-II (DPWD)
04-002	WSID 1	West Stanislaus Irrigation District	Benchmark	Stanislaus	WSID-PID	Baseline survey in 2019; Subsequent surveys in 2020 and 2023	West Stanislaus ID
04-003	WSID 11	West Stanislaus Irrigation District	Benchmark	Stanislaus	WSID-PID	Baseline survey in 2019; Subsequent surveys in 2020 and 2023	West Stanislaus ID
04-004	WSID 21	West Stanislaus Irrigation District	Benchmark	Stanislaus	WSID-PID	Baseline survey in 2019; Subsequent surveys in 2020 and 2023	West Stanislaus ID
01-015	Subsidence Monitoring Point #7	USBR / SLDMWA	Benchmark	Stanislaus	N/A	Every other year during even years	DM-II (DPWD)
06-006	Subsidence Monitoring Point #8	USBR / SLDMWA	Benchmark	Stanislaus	N/A	Every other year during even years	Northwestern Delta-Mendota (Stanislaus Co.)
01-016	Subsidence Monitoring Point #9	USBR / SLDMWA	Benchmark	Stanislaus	N/A	Every other year during even years	DM-II (DPWD)
01-017	Subsidence Monitoring Point #10	USBR / SLDMWA	Benchmark	Merced	N/A	Every other year during even years	DM-II (DPWD)
07-021	Subsidence Monitoring Point #11	USBR / SLDMWA	Benchmark	Merced	N/A	Every other year during even years	Central Delta-Mendota (San Luis WD)
01-009	P252	University NAVSTAR Consortium (UNAVCO)	CGPS	Merced	N/A	Every other year during even years	DM-II (DPWD)
07-022	Subsidence Monitoring Point #12	USBR / SLDMWA	Benchmark	Merced	N/A	Every other year during even years	Central Delta-Mendota (San Luis WD)
07-023	Subsidence Monitoring Point #13	USBR / SLDMWA	Benchmark	Merced	N/A	Every other year during even years	Outside NCDM Region, closest to San Luis WD
07-020	MP104.18 ¹	San Luis Water District	Benchmark	Fresno	N/A	Every other year during even years	Central Delta-Mendota (San Luis WD)
07-024	Subsidence Monitoring Point #14	USBR / SLDMWA	Benchmark	Fresno	N/A	Every other year during even years	Central Delta-Mendota (Panoche WD)
07-025	Subsidence Monitoring Point #15	USBR / SLDMWA	Benchmark	Fresno	N/A	Every other year during even years	Central Delta-Mendota (Panoche WD)
07-019	AG-24	Tranquillity Irrigation District	Benchmark	Fresno	TRID	Annual	Central Delta-Mendota (Tranquillity ID)
07-026	TID A	Tranquillity Irrigation District	Benchmark	Fresno	TRID	Annual	Central Delta-Mendota (Tranquillity ID)
07-027	TID B	Tranquillity Irrigation District	Benchmark	Fresno	TRID	Annual	Central Delta-Mendota (Tranquillity ID)

¹ Local ID incorrectly stated as 104.20-R in the Northern & Central Delta Mendota GSP (November 2019).



4. INTERCONNECTED SURFACE WATER REPRESENTATIVE MONITORING NETWORK

West Stanislaus Irrigation District has requested the removal of WSID Pumping Plant 1 Intake Level Sensors (DMS ID 04-001-ISW) from the interconnected surface water representative monitoring network due to the gauge not being well correlated with river stage and flow. **Table 12** summarizes the existing wells in the interconnected surface water representative monitoring network with no revisions. **Table 13** includes the selected stream gauges in the interconnected surface water representative monitoring network with the requested revision.



TABLE 12. INTERCONNECTED SURFACE WATER REPRESENTATIVE MONITORING NETWORK

DMS ID	State Well Number	CASGEM ID (if applicable)	Local ID	Aquifer	Well Use	Responsible Monitoring Entity	Requested Well Revision?
03-001		375015N1211011W001	MW-2	Upper	Monitoring	Patterson ID	No
03-003	05S/08E-16R		WSJ003	Upper	Irrigation	Patterson ID	No

TABLE 13. SELECTED STREAM GAUGES WITH REQUESTED REVISIONS

DMS ID	Local ID	Description	Agency	Revision Requested?	Comments
03-003-ISW	PID Transducer		Patterson Irrigation District	No	
04-001-ISW	WSID Pumping Plant 1 Intake Level Sensors	At end of gravity-fed canal, two miles inland from San Joaquin River.	West Stanislaus Irrigation District	Yes	Requested removal, not well correlated with river stage or flow
06-001-ISW	SMN	San Joaquin River above Merced River near Newman	United States Geological Survey	No	
06-002-ISW	NEW	San Joaquin River near Newman	United States Geological Survey	No	
06-003-ISW	SCL	San Joaquin River near Crows Landing	United States Geological Survey	No	
06-004-ISW	SJP	San Joaquin River near Patterson	California Data Exchange Center (DWR)	No	
06-005-ISW	MRB	San Joaquin River near Maze Rd Bridge	California Data Exchange Center (DWR)	No	
06-006-ISW	VNS	San Joaquin River near Vernalis	California Data Exchange Center (DWR) and United States Geological Survey	No	



5. NEXT STEPS

In order to implement the requested revisions to the groundwater levels, groundwater quality, and interconnected surface water representative monitoring networks, the following steps must be taken by each identified party:

1. **Representative Monitoring Entities** – Review this memorandum and confirm to Woodard & Curran that requested revisions have been correctly captured. Well construction documentation or a plan to obtain/confirm well construction must be provided to Woodard & Curran for replacement wells.
2. **Woodard & Curran** – In coordination with Houston Engineering, Woodard & Curran will incorporate requested revisions to the Delta-Mendota Subbasin DMS including well site information and available historical data. The revisions to the networks will be incorporated into the WY2020 Annual Report.
3. **Woodard & Curran** – Woodard & Curran will coordinate with DWR to incorporate requested revisions to the SGMA Portal's Monitoring Network Module and upload the required well site information and available historical data.
4. **SLDMWA/Woodard & Curran** – Following implementation of the requested revisions and determination of SLDMWA's monitoring responsibilities moving forward, representative monitoring entities will be notified prior to February 1, 2021 of any additions to their monitoring responsibilities.