

Eastern San Joaquin Groundwater Sustainability Plan

GWA Board

May 11, 2022



**EASTERN SAN JOAQUIN
GROUNDWATER AUTHORITY**



Agenda

- A. Discussion / Action Items:
 - 1. Approval of the April 13, 2022, Meeting Minutes (Attachment 1 – Page)
 - 2. DWR SGMA GSP Implementation Grant Round 1
 - 3. Response to DWR GSP Comments; Schedule, Content and Approach
 - 4. FY 2022-23 Budget
- III. Staff/DWR Reports
 - A. Staff Reports
 - B. DWR Report (Attachment 4 – Page)
- IV. Directors' Comments and Project Status Reports
- V. Public Comment (non-agendized items)
- VI. Future Agenda Items

A.2. SGMA Implementation Grant Round 1

- NSJWCD North System \$3.9M
- City of Stockton \$300K
- MRWPA/County \$3.3M
- Total = \$7.6M



A.2. SGMA Implementation Grant Round 1

- Letter of Acceptance
- Draft Contract Pending
- Local Project Sponsor Agreements

Motion Needed

“Accept the grant and direct the Secretary to sign and submit the letter of acceptance”

Sent by U.S. Mail and Email to:
sgwp@water.ca.gov

Ms. Carmel Brown
Manager of Regional Assistance
Department of Water Resources
1416 Ninth Street, P.O. Box 942836
Sacramento, California 94236

SUBJECT: COMMITMENT TO ACCEPT THE BUDGET ACT OF 2021 SUSTAINABLE
GROUNDWATER MANAGEMENT (SGM) GRANT PROGRAM SGM ACT (SGMA)
IMPLEMENTATION – ROUND 1 GRANT

Dear Ms. Brown:

This letter is confirming the Eastern San Joaquin Groundwater Authority (GWA) as the Grantee to accept the “Budget Act of 2021 SGM Grant Program SGMA Implementation – Round 1 Grant” award of up to \$7.6 million for geophysical investigations and groundwater recharge program activities. The GWA is staffed by San Joaquin County (County) staff and receives correspondence at the County’s address. The GWA gives the Department of Water Resources (DWR) authorization to utilize DocuSign to process signatures electronically for all transactions related to this award. The purpose of this letter is to also meet the first condition set forth within the Grant Agreement Execution Conditions and Additional Requirements Attachment provided by the DWR.

We kindly request that all reimbursement checks be sent to the following address:

Eastern San Joaquin Groundwater Authority
c/o San Joaquin County Public Works Department
Attn: Water Resources Division
1810 E. Hazelton Avenue, Stockton, CA 95205

Any questions regarding the GWA’s grant award or related project management work may be directed to Matt Zidar, Water Resources Coordinator, at (209) 953-7460 or by email at mzidar@sjgov.org. Thank you for your assistance.

Sincerely,

KRIS BALAJI, PMP, P.E.



A.3 Response to DWR GSP Comments

Approach to DWR Comment Response

- Prepare Responses Separate from GSP Edits
 - TM1 – Response to Deficiencies 1a, 1b and 1c (WY type designation, PMAs and SMC for subsidence and ISWs; including Water Available for Recharge analysis and Plan B adaptive management options)
 - ✓ • TM2 – Response to Deficiencies 1d & 1e (shallow wells and drinking water impacts)
 - ✓ • TM3 – Response to Deficiency 1f (groundwater quality)
 - ✓ • TM4 – Response to Deficiency 2 (subsidence comments)
- Prepare Redline-Strikeout GSP



A.3 Response to DWR GSP Comments Schedule

Date	Group	Agenda items	Deliverables/Notes/Questions
5/5/2022	TAC/Legal	<ol style="list-style-type: none"> 1. DWR Response <ol style="list-style-type: none"> a. Status b. Schedule and Scope 2. TAC budget discussion and FY 22_23 Work elements 3. Exec Order <ol style="list-style-type: none"> a. GSA responses and approaches b. EHD approach 	<ol style="list-style-type: none"> 1.b work plan schedule, scope 2. Staff brief on budget elements
5/6/2022		Send out draft TMs 2 (Def 1de), 3 (Def tf) and 4 (Def 2) for review	
5/11/2022	Steering	<ol style="list-style-type: none"> 1. Draft Budget - Preliminary Technical work and budget Assumptions and Costs 2. Status of DWR comment. Discuss any Policy issue; discuss scope and approach to implementing PMAs 	Develop high-level scope and costs for PMAs
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6/2/2022	TAC/Legal	<ol style="list-style-type: none"> 1. Accept comments/discuss draft TMs 2-4 2. Discuss comments on draft TM1 3. Present redline/strikeout edits to GSP 	Receive and discuss responses, direct sending to GSAs for comment. Comments from TAC due by 6/9
6/16/2022	Steering/Board	Receive 6/2 TAC results for GSA review, discuss GSA comments, direct final draft CA e-i. Final Budget	Mail out for meeting materials is 6/10
6/17/2022		Mail all TMs & Redline GSP to GSAs for review	GSA comments on TMS due by 7/1 along with schedule for adoption
6/23/2022	TAC/Legal	CA a, b, c and d; GWL and SMC Memo Reconcile/discuss GSA Comments on CA e-f and finalize	Direct sending to GSAs CA a, b, c, d, Comments due from GSA 7/1/2022
7/1/2022		Comments on TMs and Redline GSP due	
7/13/2022		Compile final response package, send to GWA Board	All documents finalized by 7/11
7/20/2022	GWA Board	Action on Response Package	
7/27/2022		Upload revised/amended GSP to SGMA Portal	

TM 1- Corrective Action a-c Modeling ESJWRM Update

- Big Question: Where, when and under what conditions will the Minimum Thresholds be exceeded
- Applying the Modeling to respond to DWR recommended Corrective Actions
 - Projected Conditions Baseline with Climate Change
 - Category A Projects
 - Demand Reduction Scenarios – “Plan B Demand Reduction”

Category A Projects

- Planned project, known water available for recharge (firm rights)
- TM 1 Assumptions- sent to all local project sponsor to quantify assumptions for simulating projects in ESJ GSP

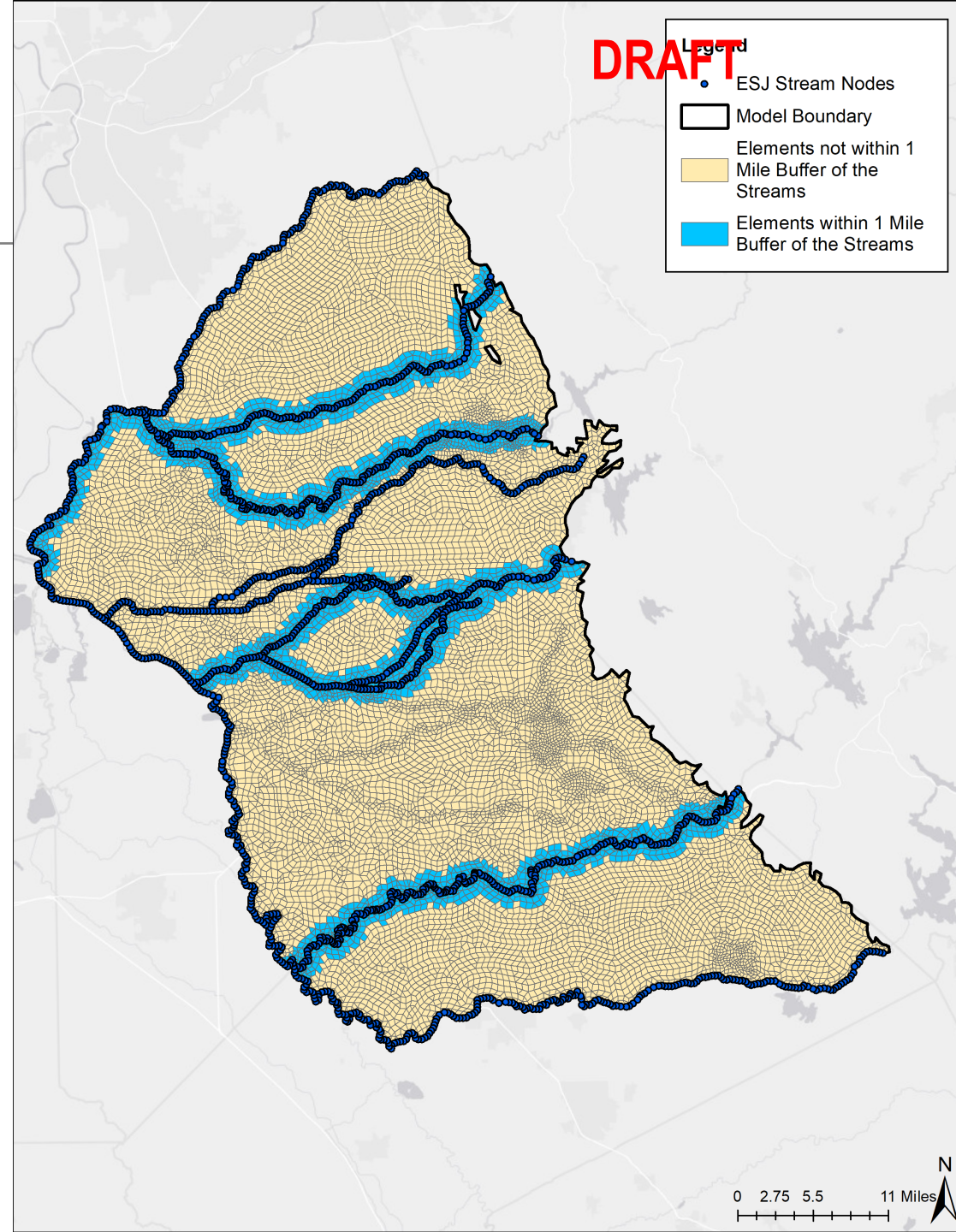
TM 1- Corrective Action a-c

Plan B Adaptive Management Options

- Groundwater Extraction Fee with Land Use Modifications
- Rotational Fallowing or Permanent Fallowing of Crop Lands
- Conservation Programming for Demand Reduction
- Mandatory Demand Reduction
- Other?

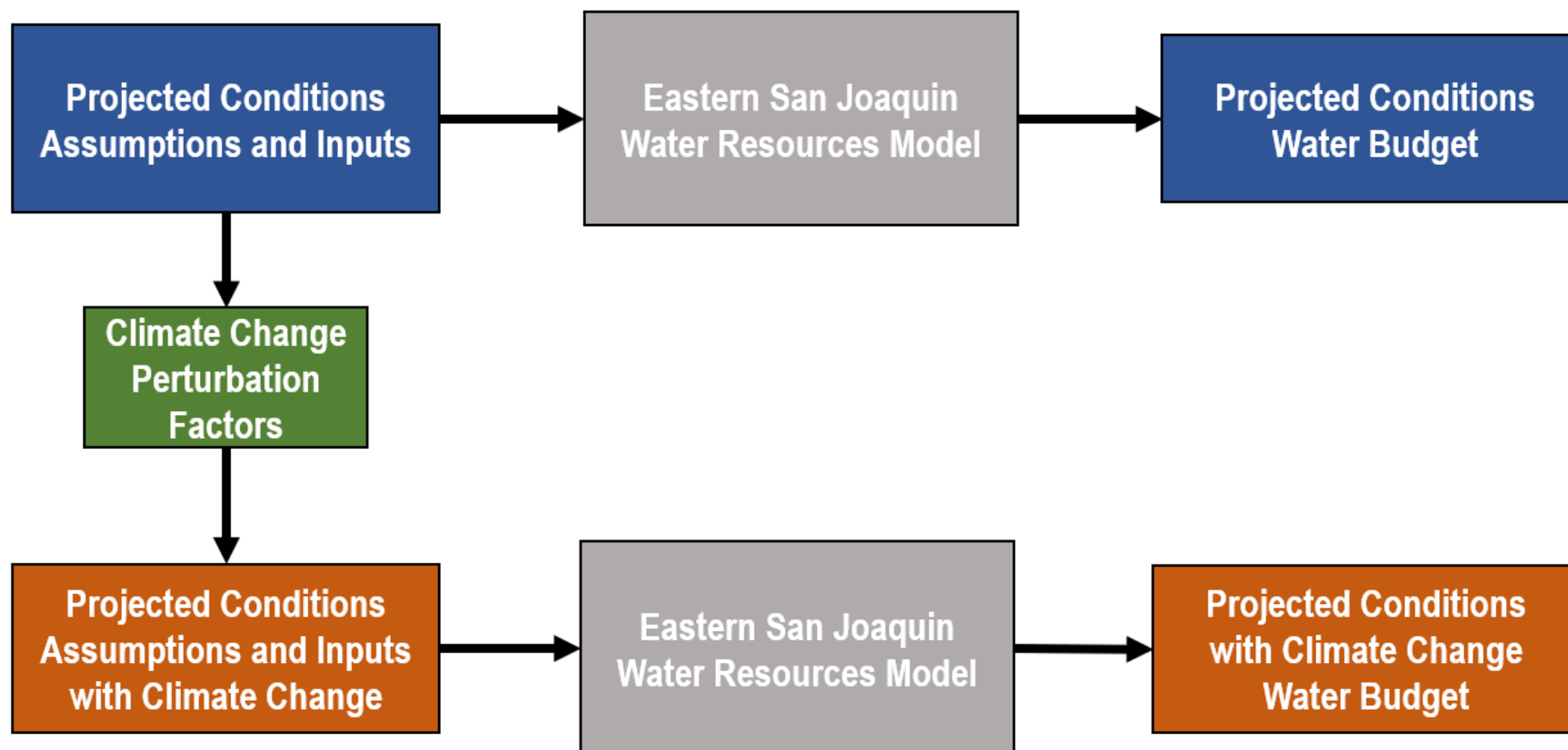
Demand Reduction Scenarios

- How much would demand need to reduce in order to achieve Subbasin sustainability?
- Based on scenarios ran for GSP:
 - Urban demand decrease by percentage across all major Subbasin cities
 - Ag demand decrease by percentage
 - Based on ag pumping by element
 - Limited to elements at least 1 mile from major streams crossing Subbasin



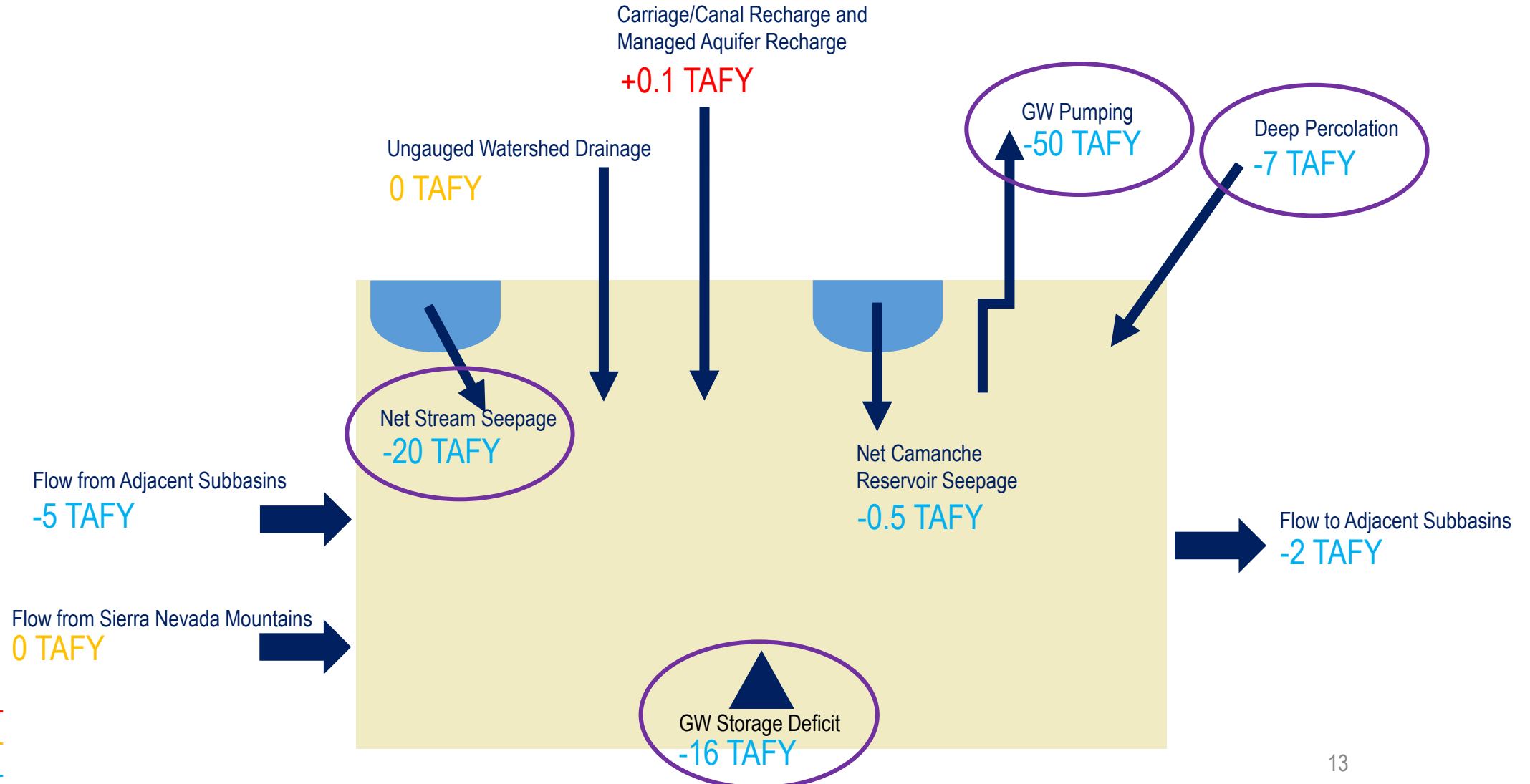
Projected Conditions Baseline with Climate Change

- Projected conditions model + the impact of climate change on:
 - Climate: Precipitation and Evapotranspiration
 - Hydrology: Unimpaired and impaired streams



Hydrologic Groundwater Budget Comparison

Potential Effects of Demand Reduction

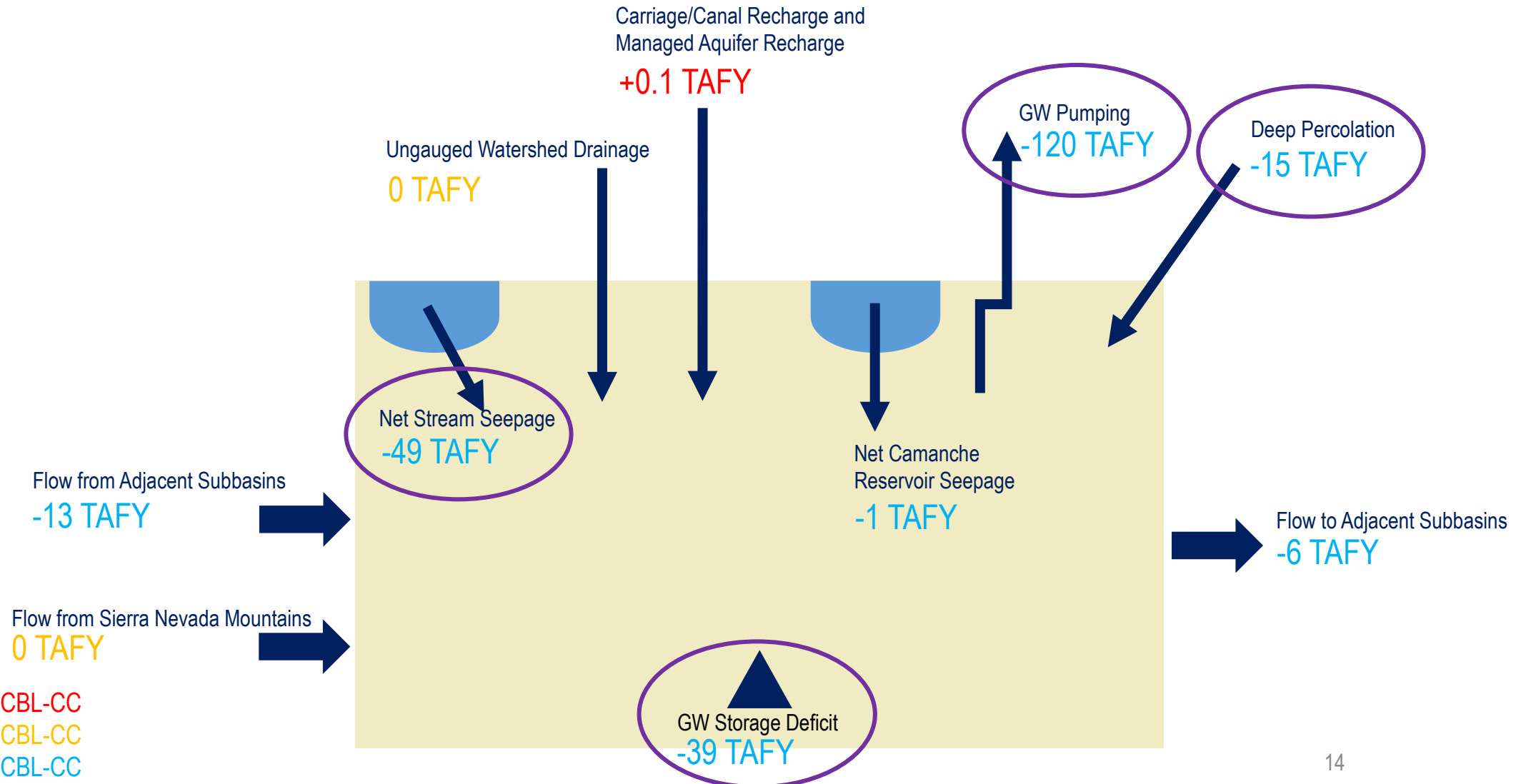


PCBL-DR > PCBL
PCBL-DR = PCBL
PCBL-DR < PCBL

Note: Difference of Projected Conditions Baseline with Demand Reduction (PCBL-DR) Minus Projected Conditions Baseline (PCBL)

Hydrologic Groundwater Budget Comparison

Potential Effects of Demand Reduction with Climate Change



A.4 FY 2022-23 Budget

- Budget Development
 - Known Revenues Except for the **GSA Member Cost Allocation**
 - Forecast/Plan Expenses
 - Determine Member Cost Total
 - Apply Cost Allocation Method
- Revenues
- Expenses
 - Current Work in Progress
 - Required vs Desired
 - **Variable expenses**

Revenue

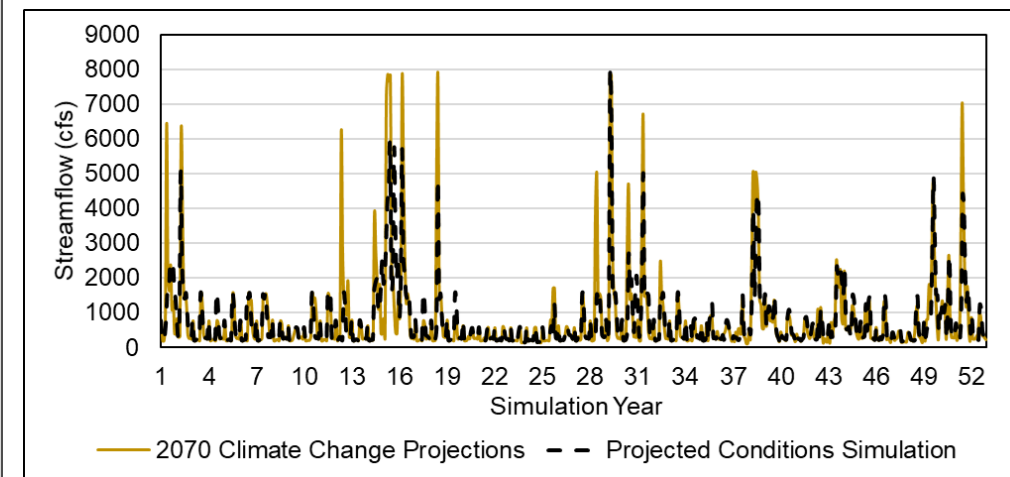
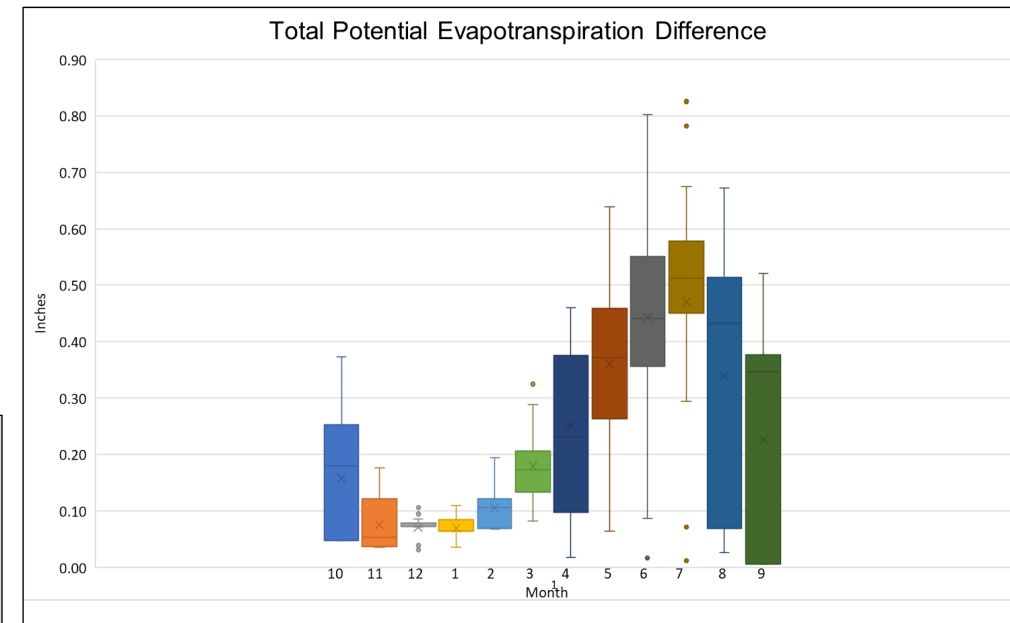
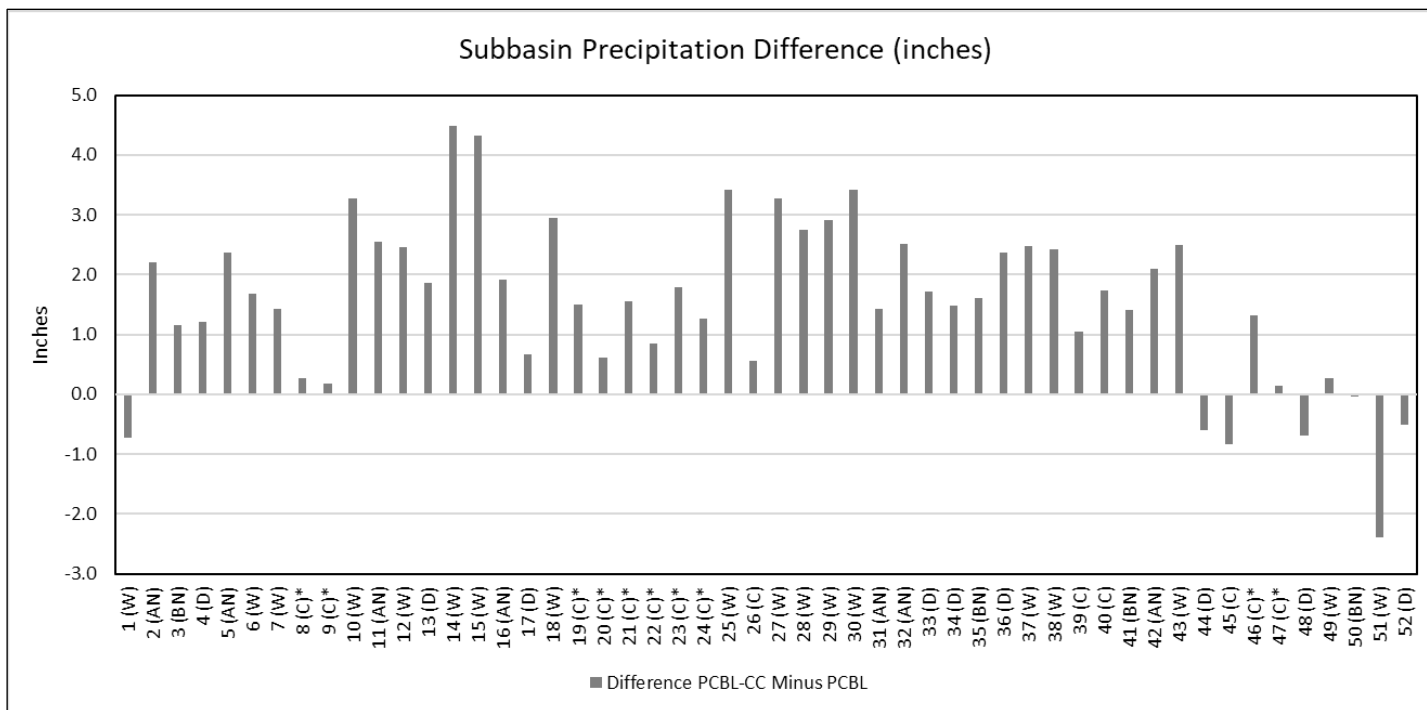
- Interest Income
- **GWA GSAs Cost Allocation**
- Other Govt Aid From Zone 2
- State (DWR) Sustainable GW Grant (Well)
- P68 Implementation Grant (WAF & FF)
- SGMA Implementation Grant Round 1
- Carry Over (use of fund balance)
- Allocated from Reserve

Expenses

- General Office
- Management and Administration
- Technical and Engineering Services
- Work in Progress
- Reserve Expenditure

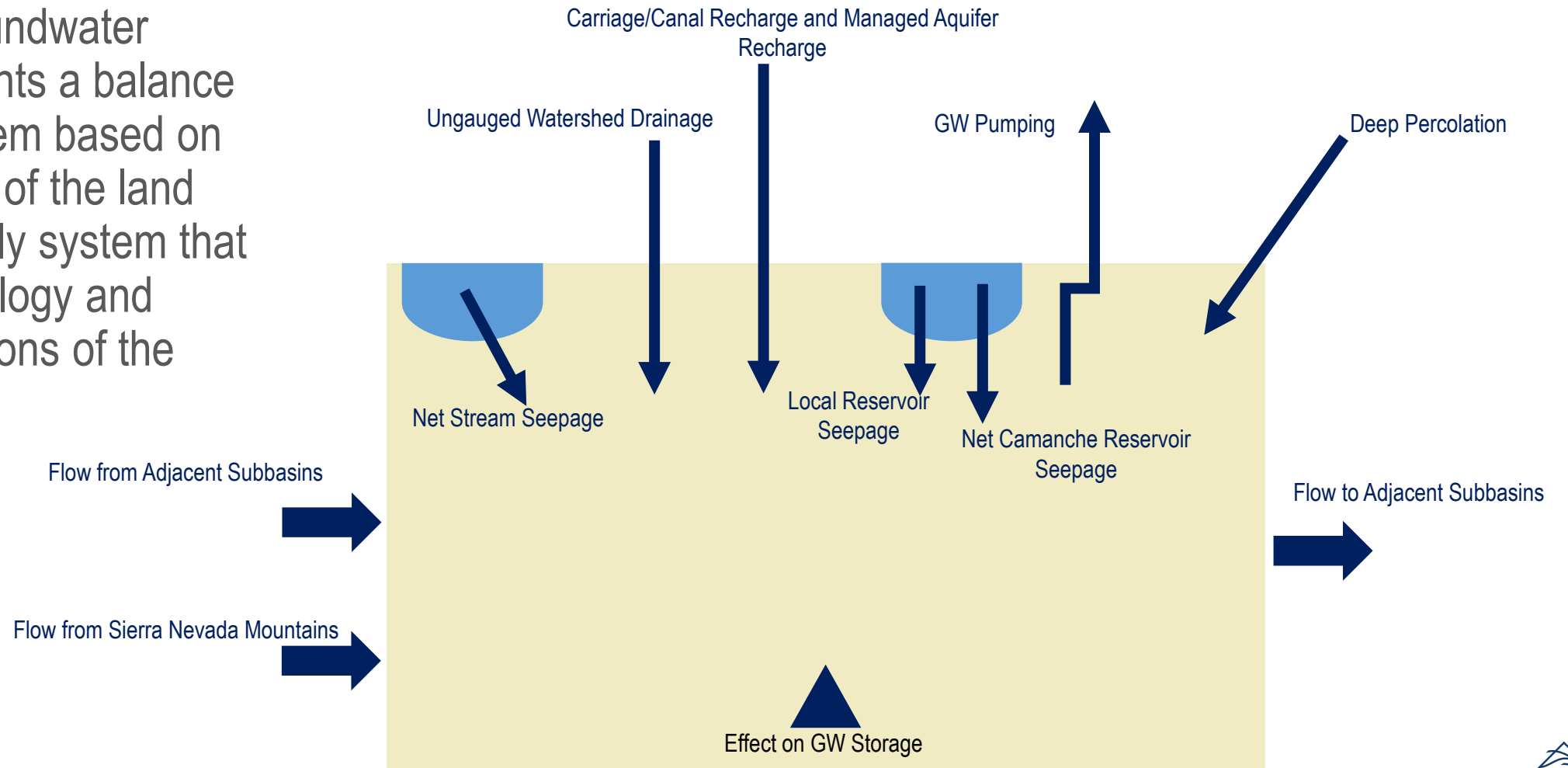
Climate Change Impacts on ESJ Subbasin

- Increased Precipitation (+10%)
- Increased Evapotranspiration (+8%)
- Increased Stream Inflows (+1% overall)
 - Varies by stream and impaired/unimpaired



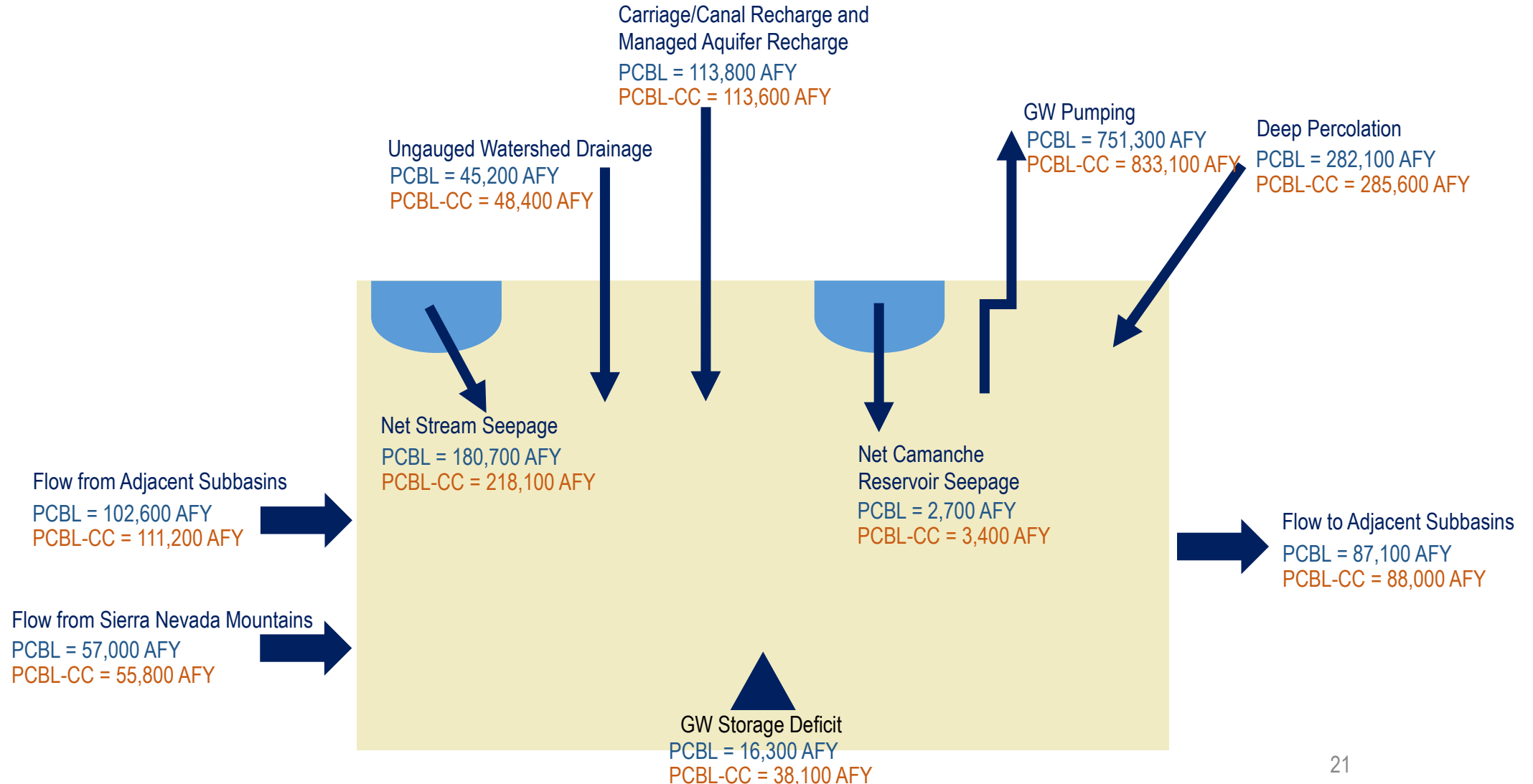
Hydrologic Groundwater Budget

- Hydrologic groundwater budget represents a balance of the GW system based on all components of the land and water supply system that affect the hydrology and physical conditions of the GW system



Hydrologic Groundwater Budget Comparison

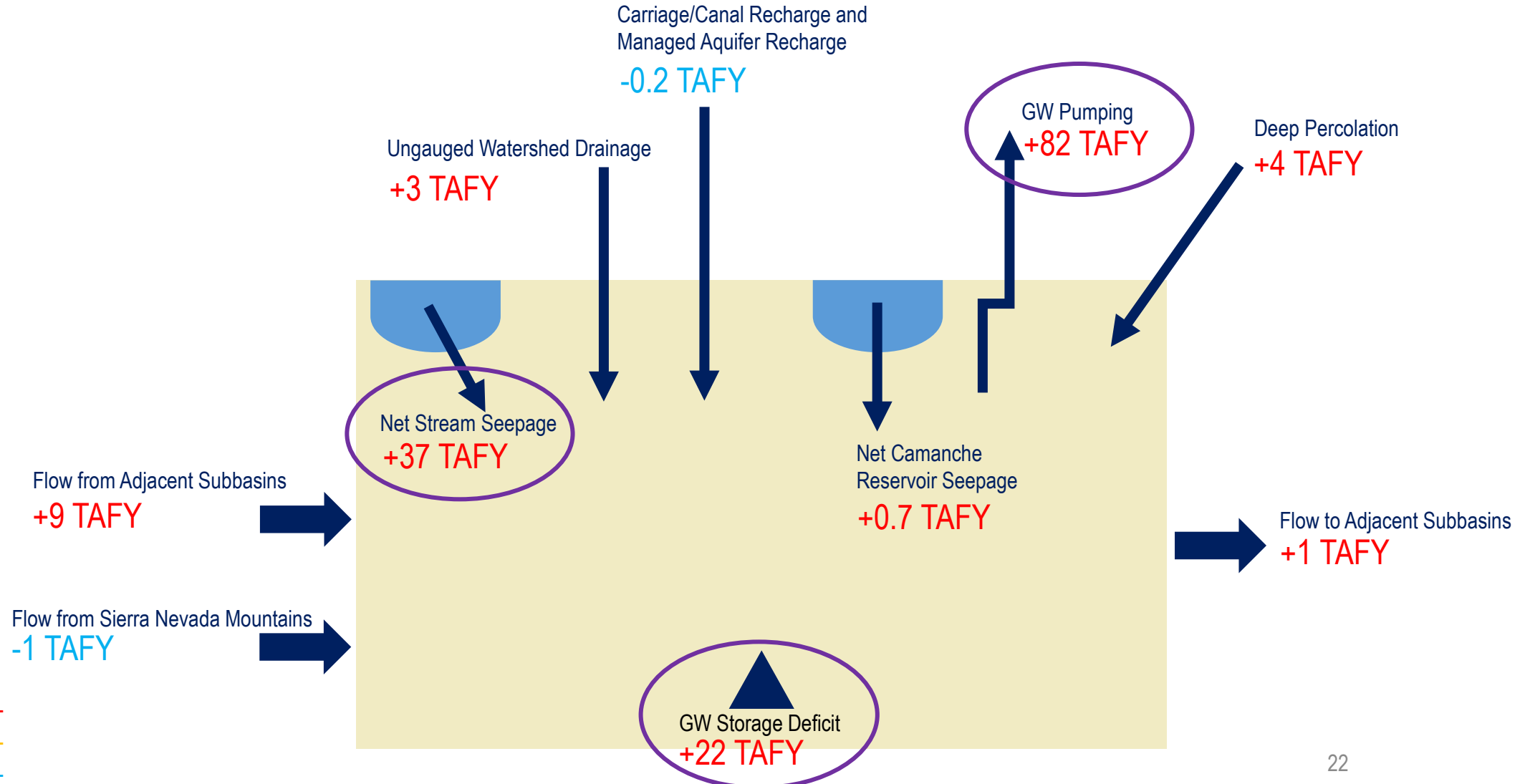
Projected Conditions Baseline with and without Climate Change



Note: Comparison of Projected Conditions Baseline with Climate Change (PCBL-CC) and Projected Conditions Baseline (PCBL)

Hydrologic Groundwater Budget Comparison

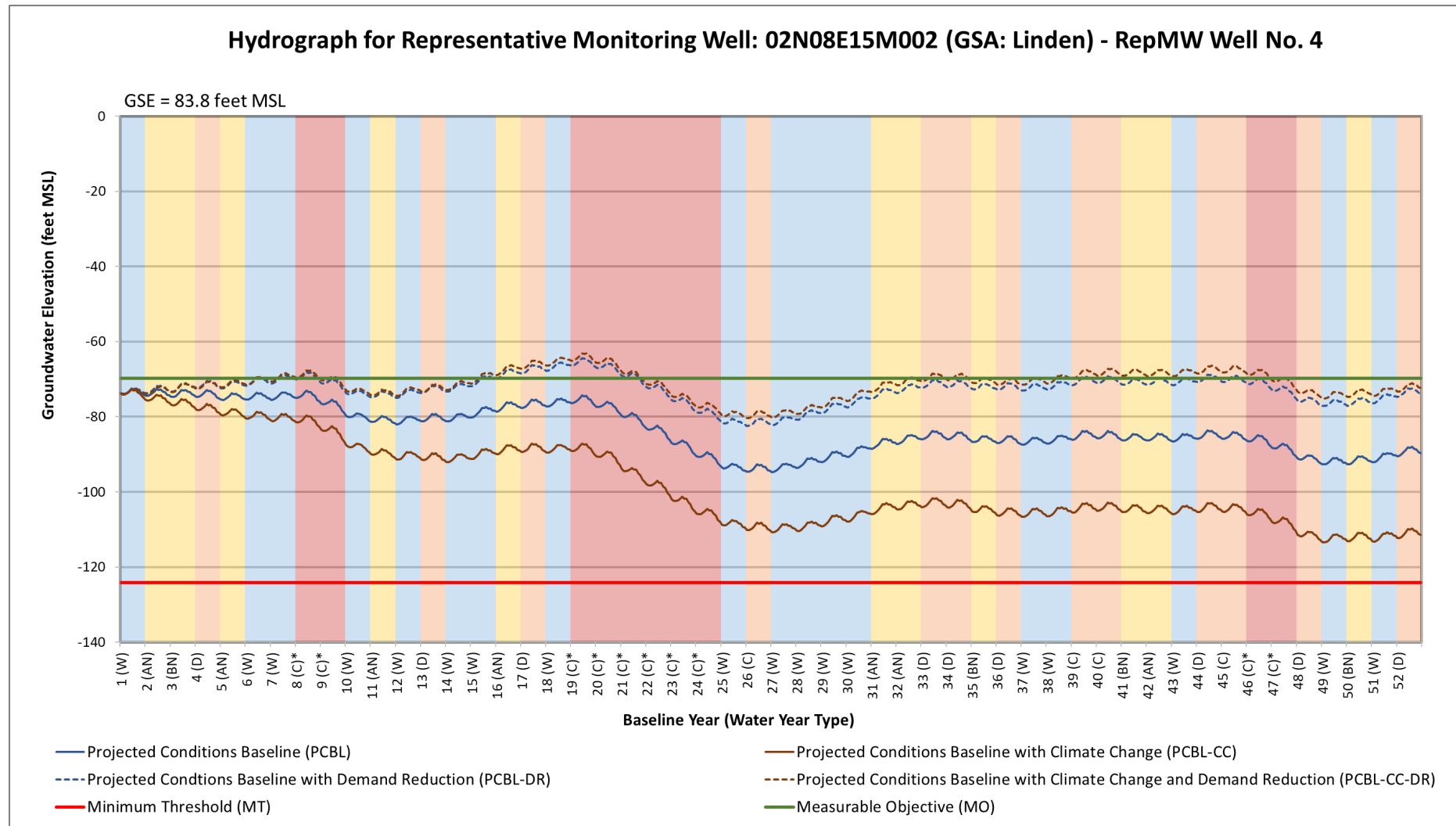
Potential Effects of Climate Change



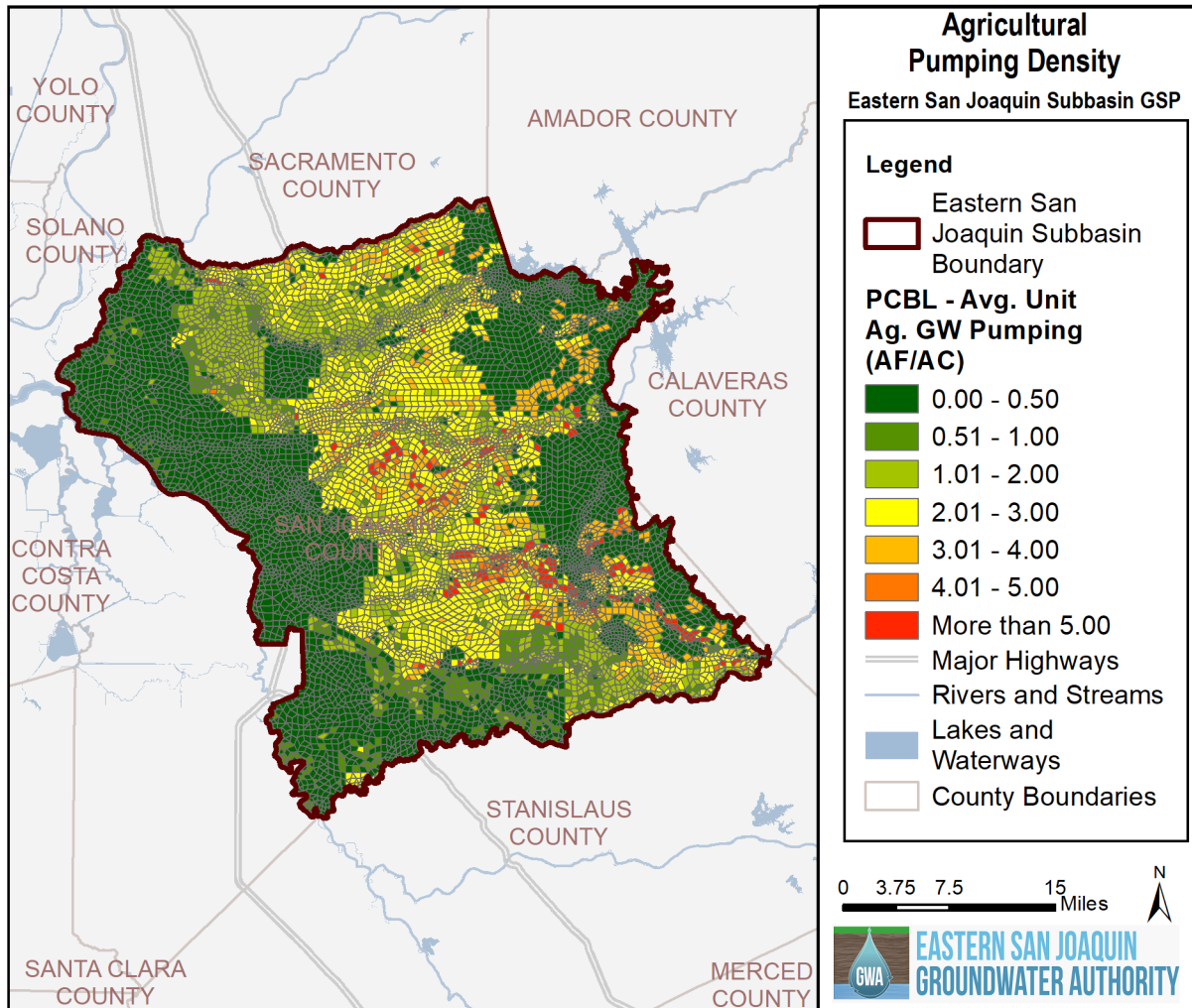
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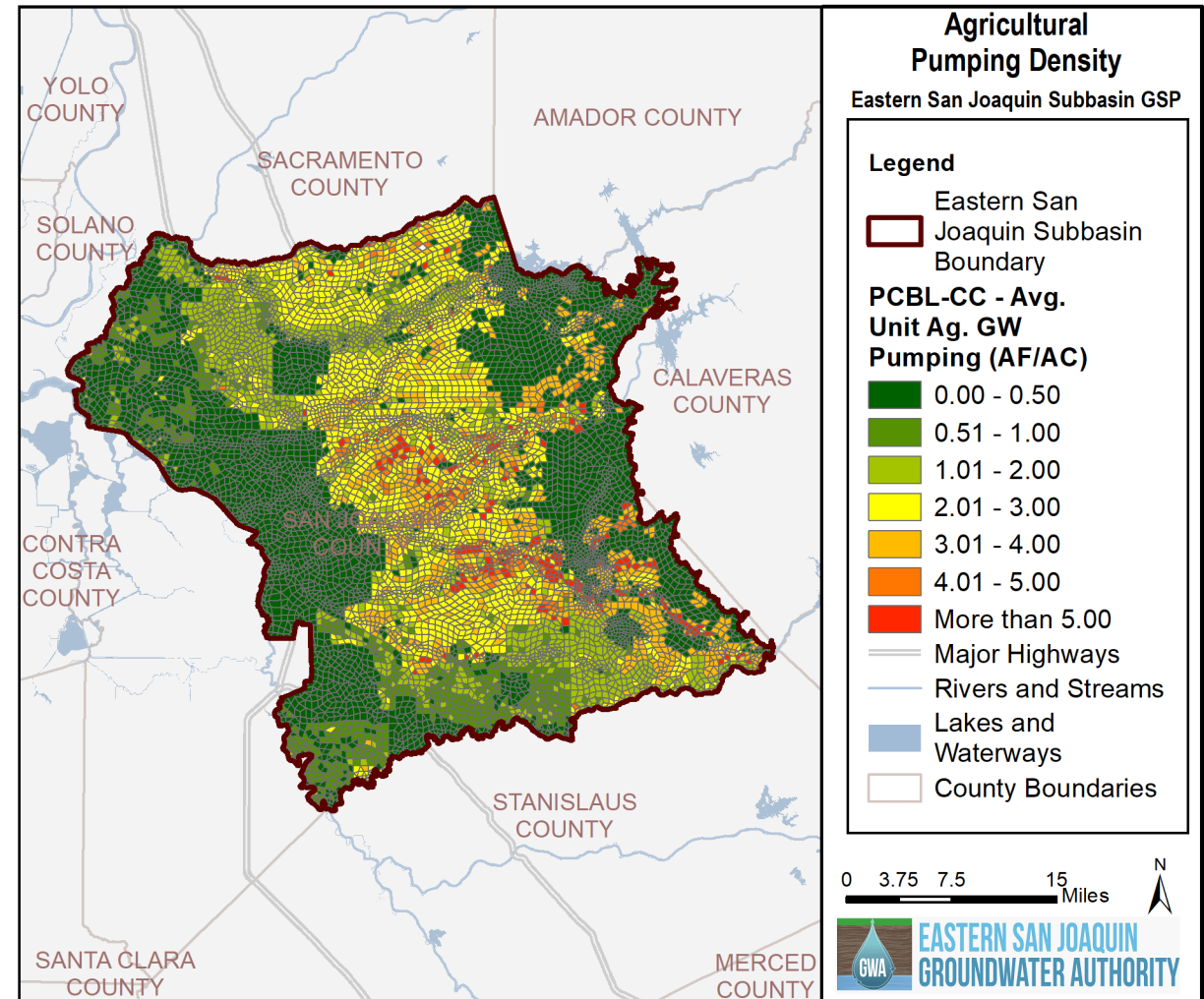
Representative Monitoring Network Hydrographs



Agricultural Groundwater Pumping Density



Projected Conditions Baseline



Projected Conditions Baseline with Climate Change

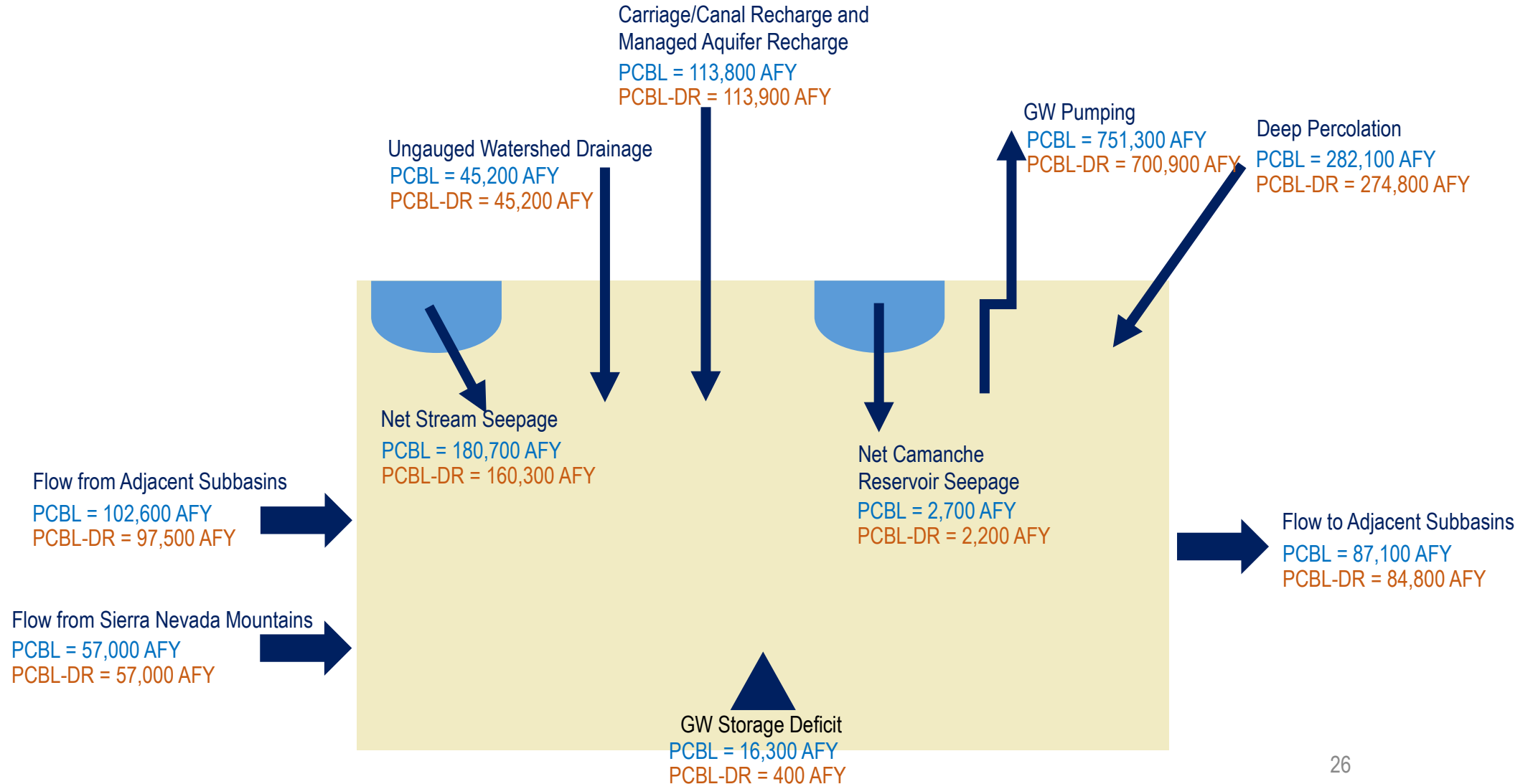
Updated Demand Reduction Scenarios

- Started from GSP reduction percentages
- Since updated PCBL storage deficit is lower than it was in the GSP PCBL, demand reductions are less

Percent Reduction	GSP Scenario on GSP PCBL	PCBL-DR	PCBL-CC-DR
Ag GW Pumping <2 AF/acre	0%	0%	0%
Ag GW Pumping 2-3 AF/acre	15%	10%	20%
Ag GW Pumping >=3 AF/acre	25%	15%	30%
Urban Demand	10%	10%	10%

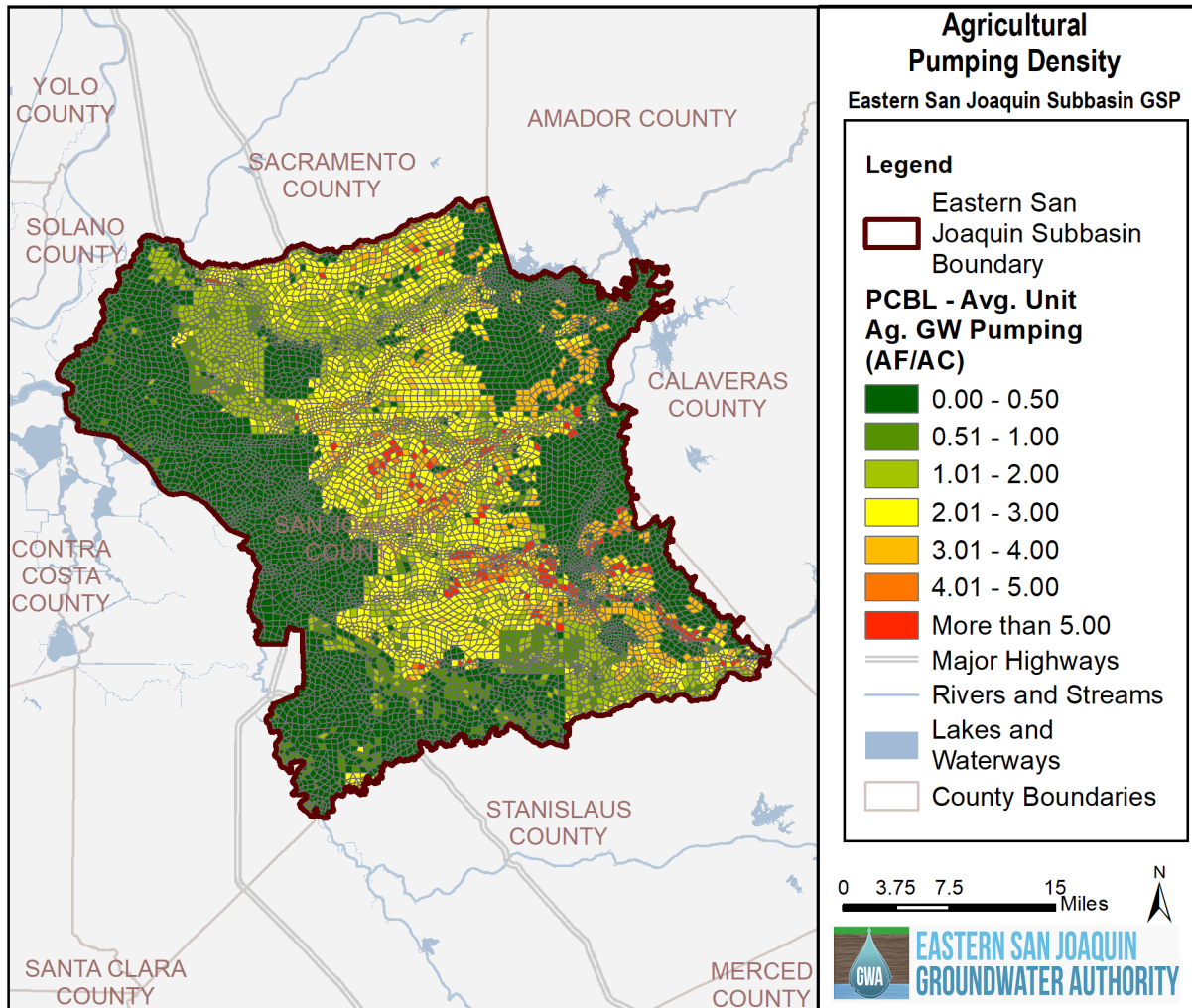
Hydrologic Groundwater Budget Comparison

Projected Conditions Baseline with and without Demand Reduction

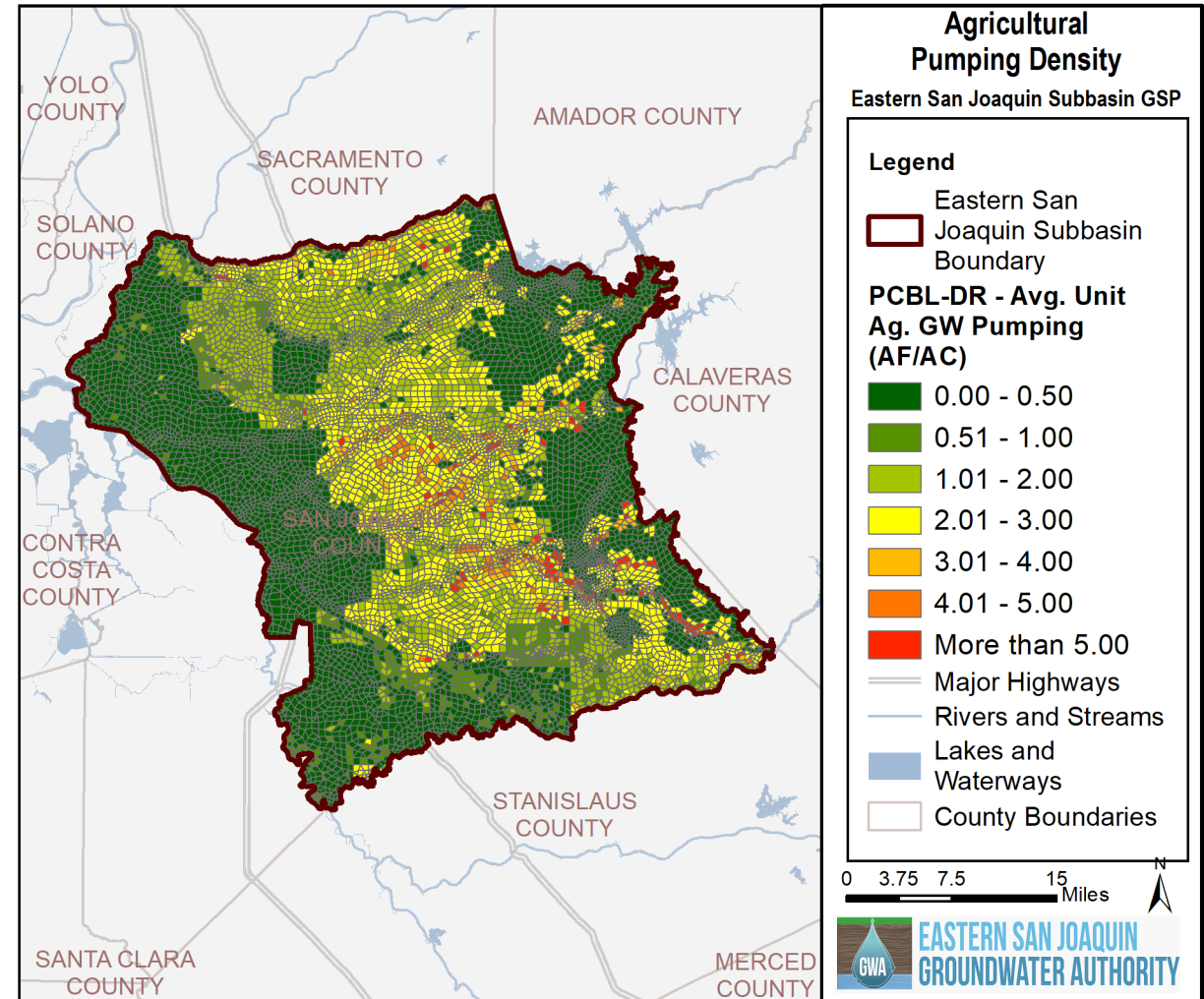


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Agricultural Groundwater Pumping Density



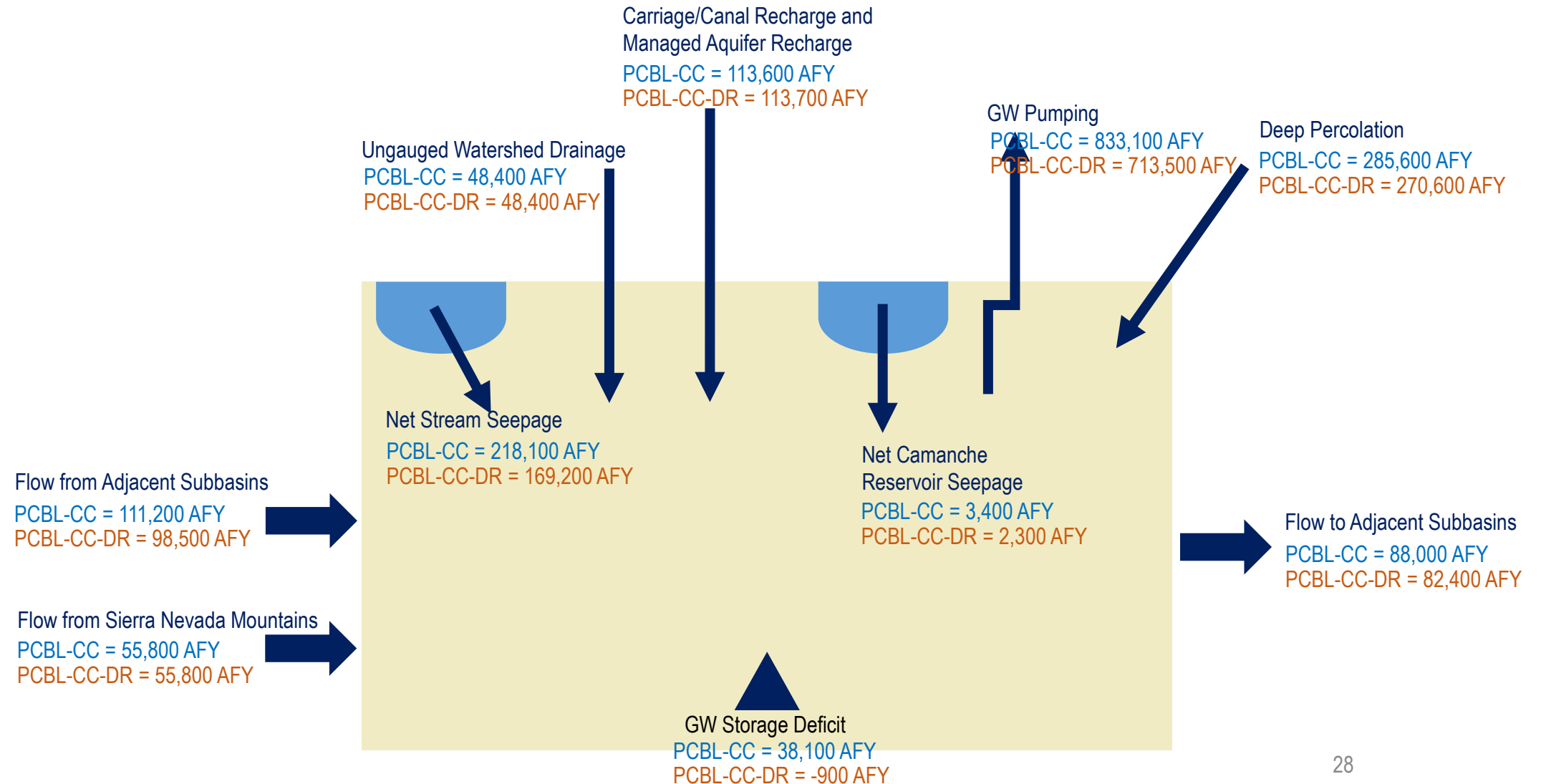
Projected Conditions Baseline



Projected Conditions Baseline + Demand Reduction

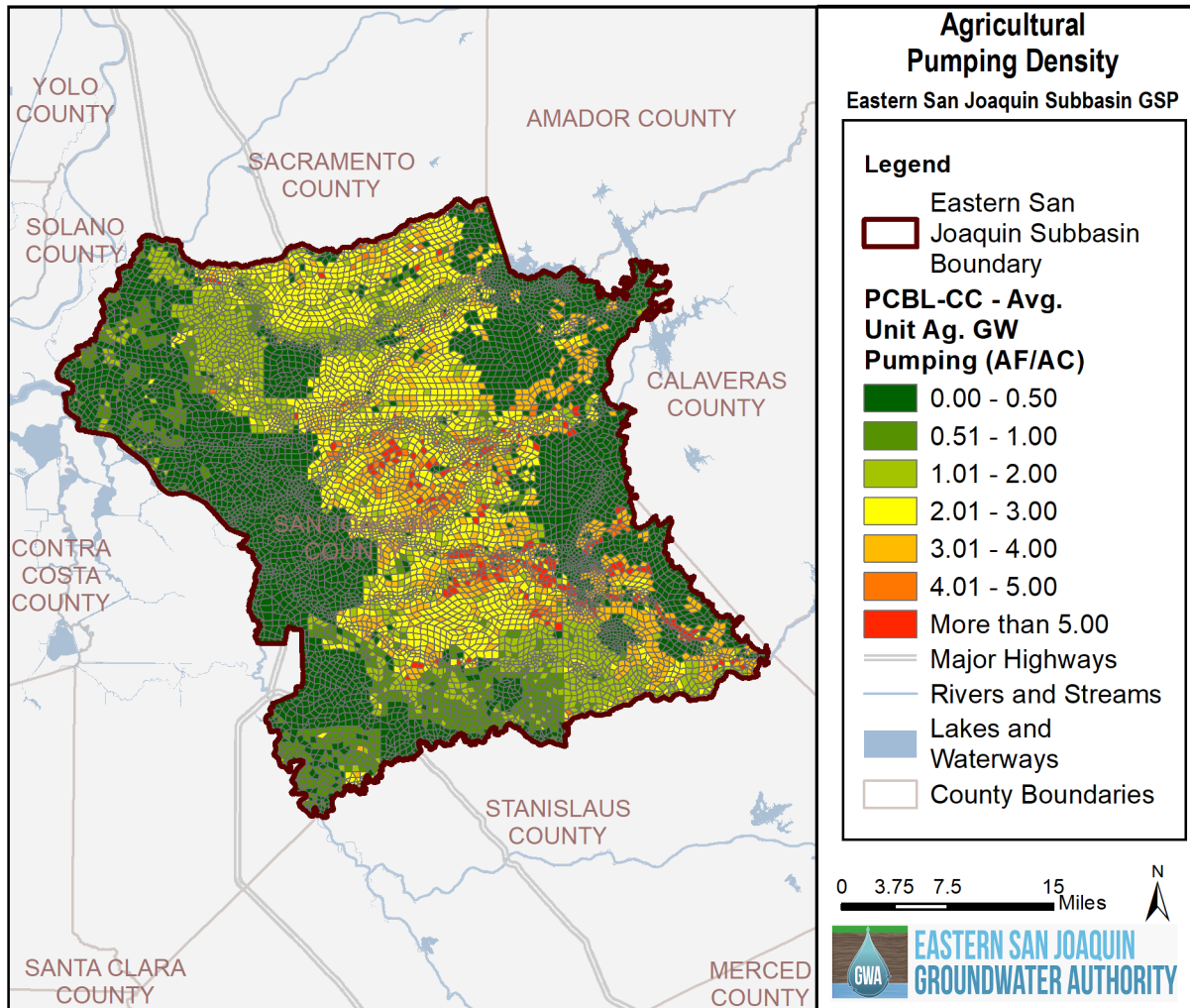
Hydrologic Groundwater Budget Comparison

Projected Conditions Baseline with Climate Change with and without Demand Reduction

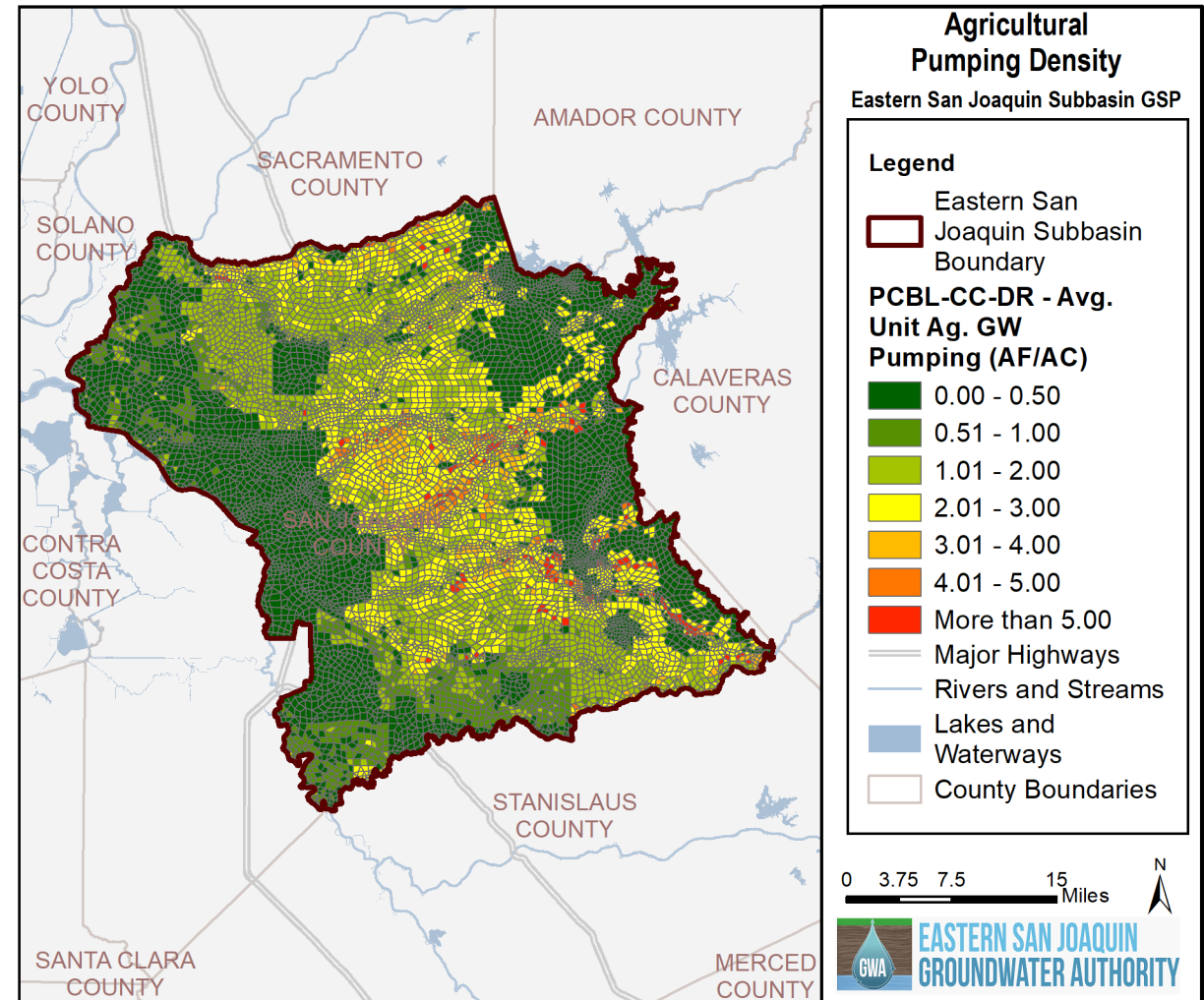


Note: Comparison of Projected Conditions Baseline with Climate Change with Demand Reduction (PCBL-CC-DR) and Projected Conditions Baseline with Climate Change (PCBL-CC)

Agricultural Groundwater Pumping Density



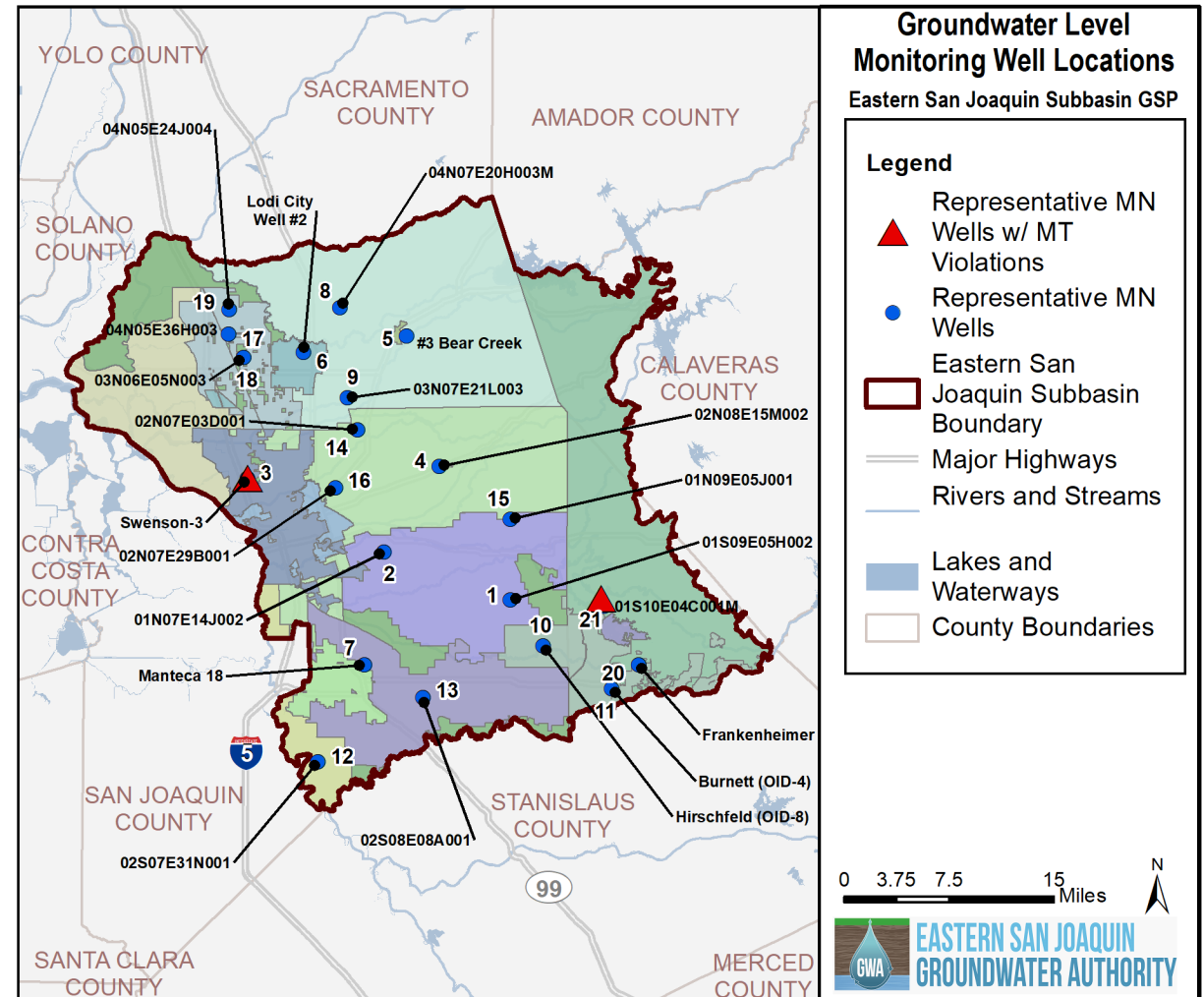
Projected Conditions Baseline with Climate Change



Projected Conditions Baseline with Climate Change + Demand Reduction

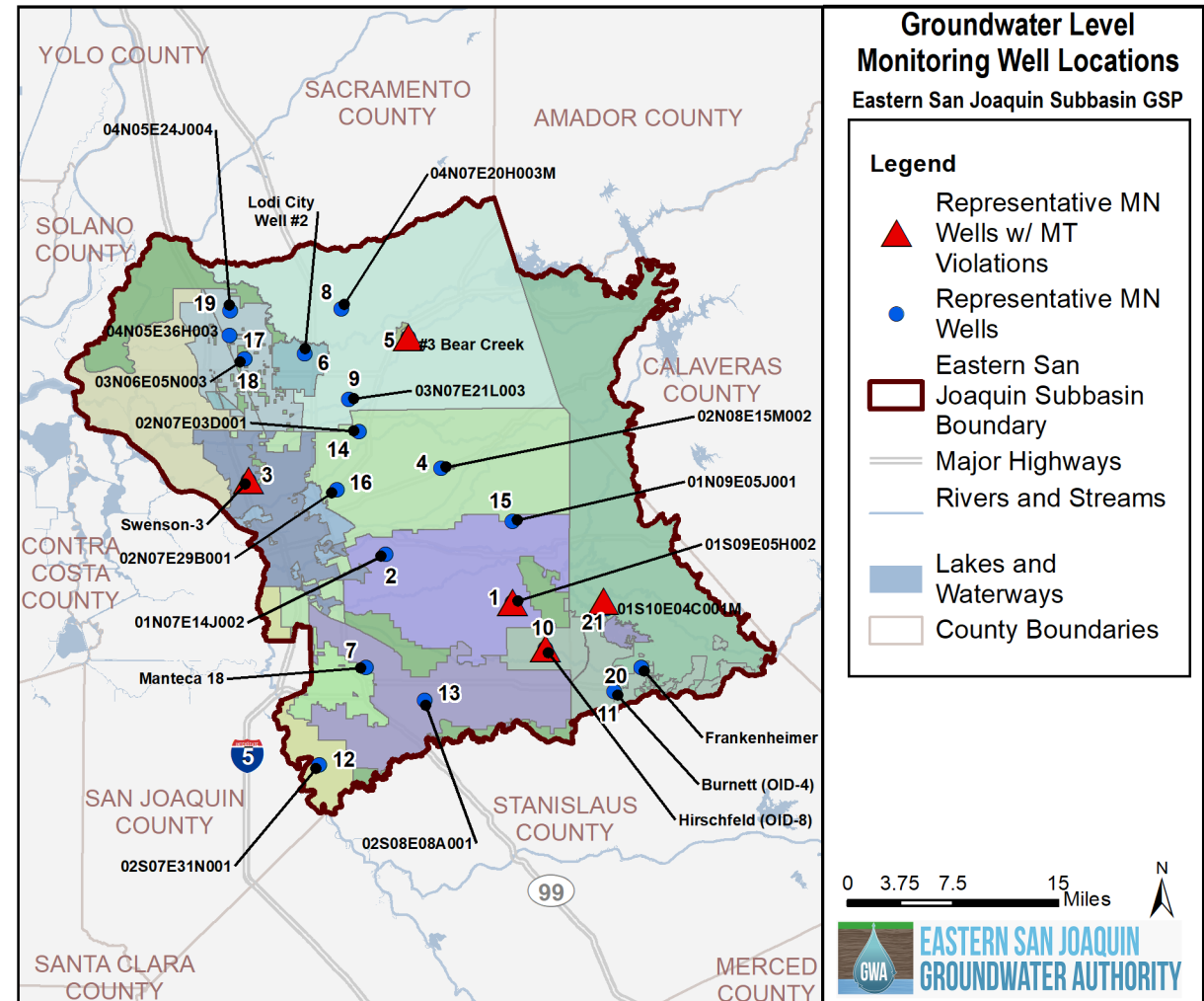
Hydrograph Locations Exceeding MTs – PCBL

- Total Number of Months
 - 624 Months
- Number of Months Exceed MTs
 - Well 3 – 48 Months (8%)
 - Well 21 – 314 Month (50%)



Hydrograph Locations Exceeding MTs – PCBL-CC

- Total Number of Months
 - 624 Months
- Number of Months Exceed MTs
 - Well 1 – 151 Months (24%)
 - Well 3 – 48 Months (8%)
 - Well 5 – 52 Months (8%)
 - Well 10 – 113 Months (18%)
 - Well 21 – 512 Month (82%)



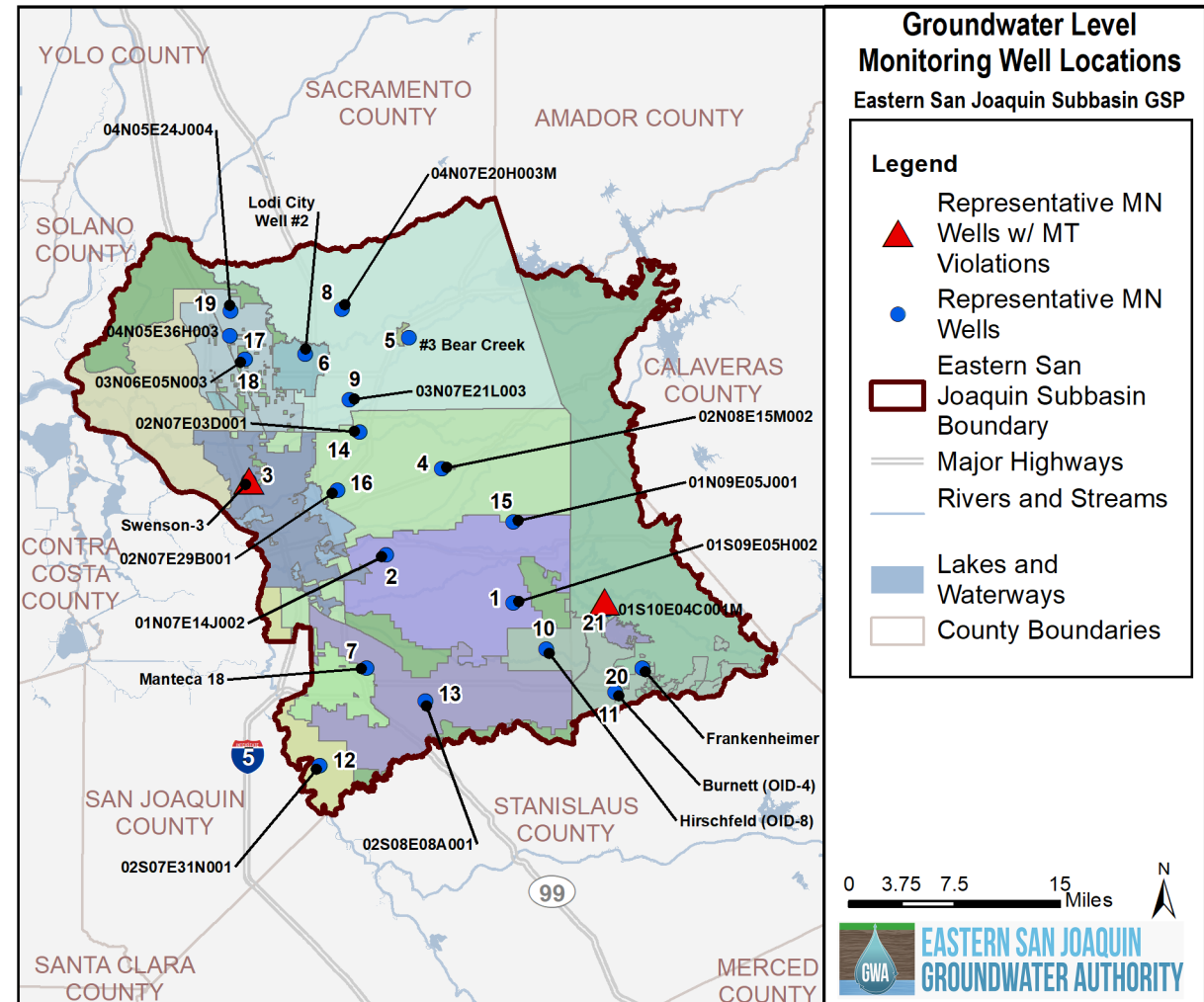
Hydrograph Locations Exceeding MTs – DR

■ PCBL-DR

- Total Number of Months
 - 624 Months
- Number of Months Exceed MTs
 - Well 3 – 35 Months (6%)
 - Well 21 – 12 Month (2%)

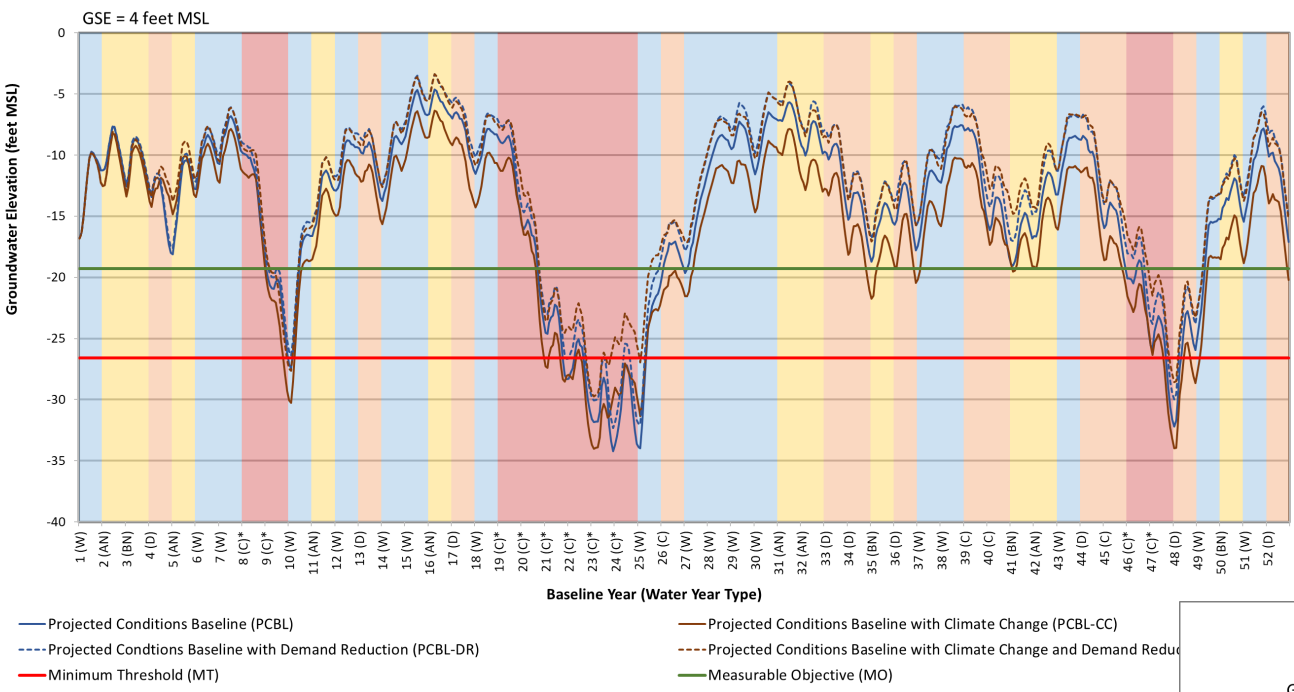
■ PCBL-CC-DR

- Total Number of Months
 - 624 Months
- Number of Months Exceed MTs
 - Well 3 – 19 Months (3%)

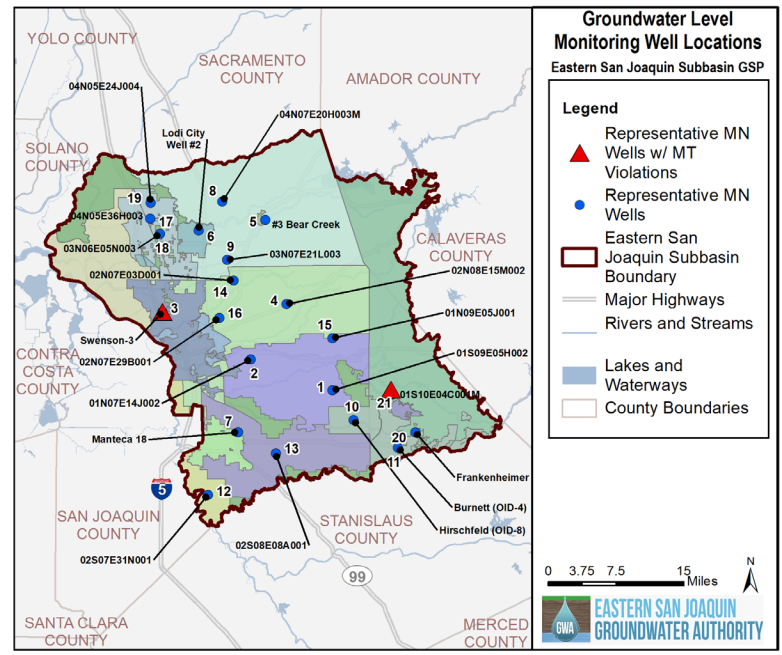
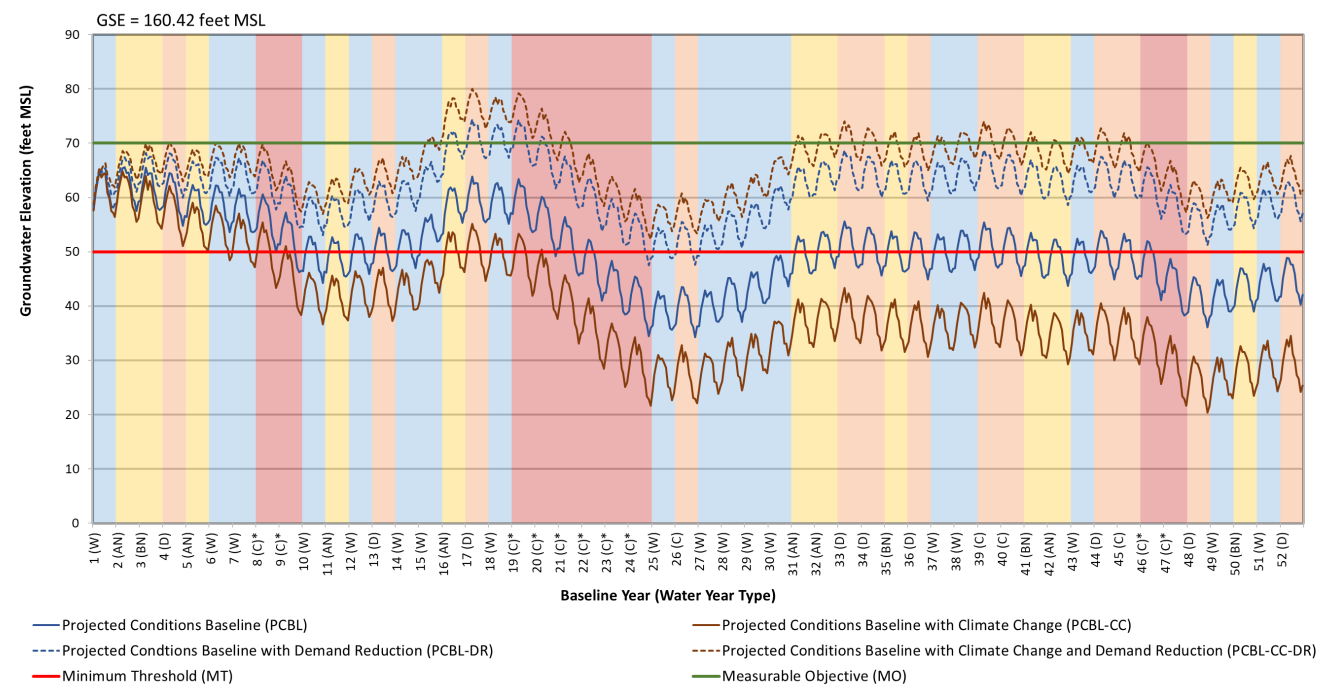


Hydrograph for Representative Monitoring Well: Swenson-3 (GSA: Stockton) - RepMW Well No. 3

DRAFT



Hydrograph for Representative Monitoring Well: 01S10E04C001 (GSA: Eastside) - RepMW Well No. 21



Water Available for Recharge – Other Supplies

- Stormwater runoff
- Recycled water
- Water supplies from others banked in ESJ (EBMUD, Valley Water, others)

Water Available for Recharge – Current Water Rights

Summary of Current Water Rights and Contracts¹

District/Agency	Source River/Reservoir	Wet Year Quantity	Dry Year Quantity	Comments
SEWD	Calaveras/ New Hogan	40,115	<40,115	Firm, dry ²
		27,000	<27,000	Estimated unused portion of CCWD's 43,500 af allocation
	Stanislaus/ New Melones	75,000	<75,000	Interim, subject to other users requirements and availability
WID	Mokelumne/ Camanche	60,000	39,000	Firm
		See note ³	0	Nonfirm
NSJWCD	Mokelumne/ Camanche	20,000	0	Subject to EBMUD supply and future requirements
CSJWCD	Stanislaus/ New Melones	80,000	<80,000	49,000 af firm supply, 31,000 af interim supply subject to other user's requirements
SSJID/OID	Stanislaus/ New Melones	320,000	<320,000,	Estimated use in County. ⁴
CDWA	Delta	226,000	226,000	Estimated based on current demand.
SDWA	Delta	225,000	225,000	
City of Tracy	Delta Mendota Canal/CVP	10,000	10,000	CVP Contract and water purchase agreements with Local Irrigation Districts
		7,500	7,500	
West Side ID	San Joaquin River	30,000	30,000	Dependent on flow
	Delta Mendota Canal/CVP	7,500	7,500	CVP Contract
Plain View WD	Delta Mendota Canal/CVP	21,000	21,000	CVP Contract
Banta-Carbona WD	Delta Mendota Canal/CVP	25,000	25,000	CVP Contract
	San Joaquin River	30,000	30,000	Depends on flow
Hospital WD	Delta Mendota Canal/CVP	34,000	34,000	CVP Contract



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(209) 468-3089
ESJgroundwater@sjgov.org
esjgroundwater.org

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Sincerely,

KRIS BALAJI, PMP, P.E.
Secretary
Eastern San Joaquin Groundwater Authority

c: Fritz Buchman, Deputy Director/Development
Matt Zidar, Water Resources Coordinator

DEPARTMENT OF WATER RESOURCES

1416 NINTH STREET, P.O. BOX 942836
SACRAMENTO, CA 94236-0001
(916) 653-5791



Mr. Kris Balaji
Secretary
Eastern San Joaquin Groundwater Authority
1810 East Hazelton Ave
Stockton, CA 95205

Award Notification for Budget Act of 2021 Sustainable Groundwater Management (SGM) Grant Program SGM Act (SGMA) Implementation – Round 1 Grant

Dear Mr. Kris Balaji:

Congratulations! We are pleased to inform you that the proposal, Eastern San Joaquin Subbasin Sustainable Groundwater Management Grant Application, filed by your agency, has been recommended by the Department of Water Resources (DWR) for funding in the amount of **\$7.6 million** for the Budget Act of 2021 SGM Grant Program SGMA Implementation – Round 1 grant solicitation. This award is conditioned upon the execution of a Grant Agreement between DWR and your agency. A copy of the draft Grant Agreement has been or will be sent by your assigned DWR Grant Manager for your review and comments. We kindly ask that you refrain from publicly announcing your funding until after DWR issues its press release announcing these awards on **May 2, 2022**.

We also invite you to join us at an award ceremony on **May 4, 2022**, at 11:30 AM – 12:30 PM in Sacramento at the SAFE Credit Union Convention Center during the Spring 2022 ACWA Conference. If you would like to attend this ceremony, please RSVP by **May 2** by emailing DWR's Public Affairs Office at Allison.Armstrong@water.ca.gov.

Your timely attention is directed to the following requirements:

Within 14 calendar days of the date of this award letter:

Award Acceptance – Please submit a letter on official letterhead signed by the authorized representative (agreement signatory); include in your letter:

- Confirm your agency as the Grantee to accept the grant award in the amount specified above.
- Confirm the proper billing address for your organization to receive reimbursement checks.
- DWR electronic signature authorization: Provide your consent for DWR to use DocuSign to process signatures electronically to expedite all grant-related documents requiring a signature.
- Grantee electronic signature authorization:
 - If you consent to use DocuSign for your agency/organization, include a statement in your letter consenting to the use of DocuSign for all transactions related to this award.

Mr. Kris Balaji

April 28, 2022

Page 2

- If you do not consent to use DocuSign, state in your letter that you are declining the use of DocuSign for your agency (Note: DWR can send documents for original (wet) signatures via email or mail, but this can delay the process significantly, especially during situations such as the COVID-19 public health emergency.)

Within 30 calendar days of the date of this award letter:

Authorizing Resolution – Please submit an authorizing resolution for this agreement within the next 30 days of this letter if you have not already provided a resolution that meets the requirements to enter into, amend, and submit invoices and deliverables for the grant.

Following receipt of your award acceptance letter as outlined above, the assigned DWR Grant Manager will provide you with a draft agreement and work with you to finalize and execute the agreement.

Your timely attention to these requirements is critical to execute the Grant Agreement. Failure to do so may result in DWR revoking the grant award. Please submit the required information in the time periods specified to sgwp@water.ca.gov. The subject line of the email should include “Eastern San Joaquin Groundwater Authority ANL Items”.

Please contact Maria Jochimsen at Maria.Jochimsen@water.ca.gov or SGWP@water.ca.gov for any questions regarding the required materials.

Again, congratulations on this well-deserved grant award. The SGM Grant Team appreciates your time and effort to respond to this grant solicitation and we look forward to working with you to execute and implement your grant agreement. We will be reaching out in the coming months to ask for your feedback so that we can continuously improve our programs.

Sincerely,

Carmel Brown

Carmel Brown, P.E.,
Manager, Financial Assistance Branch
Division of Regional Assistance

Draft Schedule

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6/16/2022	Steering/Board	<p>Receive 6/2 TAC results for GSA review, discuss GSA comments, direct final draft CA e-i.</p> <p>Final Budget</p>	Mail out for meeting materials is 6/10
6/17/2022		Mail all TMs & Redline GSP to GSAs for review	GSA comments on TMS due by 7/1 along with schedule for adoption
6/23/2022	TAC/Legal	<p>CA a, b, c and d; GWL and SMC Memo</p> <p>Reconcile/discuss GSA Comments on CA e-f and finalize</p>	Direct sending to GSAs CA a, b, c, d, Comments due from GSA 7/1/2022
7/1/2022		Comments on TMs and Redline GSP due	
7/13/2022		Compile final response package, send to GWA Board	All documents finalized by 7/11
7/20/2022	GWA Board	Action on Response Package	
7/27/2022		Upload revised/amended GSP to SGMA Portal	

Draft

Table 1. FY 2022-23 Budget Scenarios

	Required			Desired		
	FY 22-23	6221100802		FY 22-23	6221100802	
	Contract /ODC	Staff	Total	Contract /ODC	Staff	Total
Revenue						
Interest Income						
GWA GSAs Cost Allocation	\$ 261,000		\$ 261,000	\$ 813,000		\$ 813,000
Other Govt Aid From Zone 2	\$ 225,000		\$ 225,000	\$ 225,000		\$ 225,000
State (DWR) Sustainable GW Grant (Well)	\$ 175,000		\$ 175,000	\$ 175,000		\$ 175,000
P68 Implementation Grant (WAF & FF)	\$ 402,000		\$ 402,000	\$ 402,000		\$ 402,000
SGMA Impl Grant Round 1			\$ -	\$ 7,600,000		
Carry Over (use of fund balance)	\$ 200,100		\$ 200,100	\$ 200,100		\$ 200,100
Allocated from Reserve	\$ -		\$ -	\$ -		\$ -
TOTAL REVENUES	\$ 1,263,100		\$ 1,263,100	\$ 9,415,100		\$ 9,415,100
Expense						
General Office						
Supplies	\$ 500		\$ 500	\$ 500		\$ 500
Office Expenses - General	\$ 500		\$ 500	\$ 500		\$ 500
Office Supplies-Purch-ISF			\$ -			\$ -
Website Maintenance	\$ 5,000		\$ 5,000	\$ 5,000		\$ 5,000
Advertising			\$ -			\$ -
Rents Structures & Grounds	\$ 4,800		\$ 4,800	\$ 4,800		\$ 4,800
Small Tools & Instruments			\$ -			\$ -
Postage	\$ 1,000		\$ 1,000	\$ 1,000		\$ 1,000
Auditor's Payroll & A/P Charges	\$ 1,000		\$ 1,000	\$ 1,000		\$ 1,000
	\$ 12,800	\$ -	\$ 12,800	\$ 12,800	\$ -	\$ 12,800
Management and Administration						
Meetings (Clerk and Records)		\$ 20,000	\$ 20,000		\$ 20,000	\$ 20,000
Budget, Contract Administration and Accounting		\$ 30,000	\$ 30,000		\$ 30,000	\$ 30,000
Professional Services PW Admin		\$ 60,000	\$ 60,000		\$ 60,000	\$ 60,000
Professional Services: GWA Legal	\$ 15,000		\$ 15,000	\$ 15,000		\$ 15,000
Professional Services: County Legal	\$ 12,000		\$ 12,000	\$ 12,000		\$ 12,000
Professional Services Public Outreach		\$ 15,000	\$ 15,000	\$ 40,000	\$ 15,000	\$ 55,000
Interbasin Coordination		\$ 2,000	\$ 2,000		\$ 2,000	\$ 2,000
Grant writing			\$ -	12,000	3,000	\$ 15,000
	\$ 27,000	\$ 127,000	\$ 154,000	\$ 79,000	\$ 130,000	\$ 209,000
Technical and Engineering Services						
2023 Annual Report	\$ 40,000	\$ 5,000	\$ 45,000	\$ 40,000	\$ 5,000	\$ 45,000
Groundwater Data Collection		\$ 16,000	\$ 16,000		\$ 16,000	\$ 16,000
Implementation of Instrumentation (Representative Wells)	\$ -	\$ -	\$ -	\$ 24,000	\$ 4,000	\$ 28,000
Monitoring Network Evaluation	\$ -	\$ 6,400	\$ 6,400	\$ 125,000	\$ 40,000	\$ 165,000
DMS Implementation		\$ 12,000	\$ 12,000	\$ 150,000	\$ 25,000	\$ 175,000
Response and Coordination for DWR review		\$ 8,000	\$ 8,000		\$ 8,000	\$ 8,000
Model Devel & Support		\$ 7,500	\$ 7,500	\$ 130,000	\$ 24,000	\$ 154,000
Grant Funded (SGMA Imple Grant Award)			\$ -			\$ -
Grant Administration			\$ -		\$ 100,000	\$ 100,000
Mokelumne River Water Rights Development			\$ -	\$ 3,000,000	\$ 300,000	\$ 3,300,000
NSJWCD North Systems			\$ -	\$ 3,900,000		\$ 3,900,000
City of Stockton Geophysical Survey			\$ -	\$ 300,000		\$ 300,000
	\$ 40,000	\$ 54,900	\$ 94,900	\$ 7,669,000	\$ 522,000	\$ 8,191,000
Work in Progress						
Professional Services (WC A-18-01) Shallow Wells	\$ 175,000		\$ 175,000	\$ 175,000		\$ 175,000
Professional Services (WC A-20-01)	\$ 472,000		\$ 472,000	\$ 472,000		\$ 472,000
Funding and Financing (Prop 68)	\$ 125,000	\$ 15,000	\$ 140,000	\$ 125,000	\$ 15,000	\$ 140,000
Water Accounting Framework	\$ 100,000	\$ 15,000	\$ 115,000	\$ 100,000	\$ 15,000	\$ 115,000
	\$ 872,000	\$ 30,000	\$ 902,000	\$ 872,000	\$ 30,000	\$ 902,000
Reserved Expenditure						
Reserve- dedication	\$ 100,000		\$ 100,000	\$ 100,000		\$ 100,000
			\$ -			\$ -
	\$ 100,000	\$ -	\$ 100,000	\$ 100,000	\$ -	\$ 100,000
TOTAL EXPENSES	\$ 1,051,800	\$ 211,900	\$ 1,263,700	\$ 8,732,800	\$ 682,000	\$ 9,414,800
			Reserve Balance			\$ 9,414,800
Reserve			\$ 270,000			\$ 270,000
FY 22/23 Reserve Contribution			\$ 100,000			\$ 100,000
			\$ 370,000			\$ 370,000

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Table 2 - Required Cost Allocation Based 60/40 w/ Membership Minimum and East Side Z2 Adj (Old Format)

	1	2	3	4	5	6	7	8
				GSA Funding				
GSA	Total Pumping-Projected (AFY)	Population (2017)	Minimum	Pumping	Population	EastSide GSA Non-Zone 2 Adjustment	Total	%
CDWA	9,611	1,629	\$ 8,500	\$ 901	\$ 136	\$ (1,000)	\$ 8,537	3.3%
CSJWCD	138,809	8,047	\$ 8,500	\$ 13,019	\$ 671	\$ (1,000)	\$ 21,190	8.1%
Eastside SJ GSA	63,500	10,498	\$ 8,500	\$ 5,956	\$ 876	\$ 15,000	\$ 30,331	11.6%
LCSD	1,153	1,558	\$ 8,500	\$ 108	\$ 130	\$ (1,000)	\$ 7,738	3.0%
LCWD	485	2819	\$ 8,500	\$ 45	\$ 235	\$ (1,000)	\$ 7,781	3.0%
Lodi	14,520	58,174	\$ 8,500	\$ 1,362	\$ 4,852	\$ (1,000)	\$ 13,714	5.3%
Manteca	18,985	64,279	\$ 8,500	\$ 1,781	\$ 5,361	\$ (1,000)	\$ 14,642	5.6%
NSJWCD	146,158	21,977	\$ 8,500	\$ 13,708	\$ 1,833	\$ (1,000)	\$ 23,041	8.8%
OID	39,952	1,890	\$ 8,500	\$ 3,747	\$ 158	\$ (1,000)	\$ 11,405	4.4%
SDWA	4,532	7,136	\$ 8,500	\$ 425	\$ 595	\$ (1,000)	\$ 8,520	3.3%
SEWD	165,025	41,134	\$ 8,500	\$ 15,478	\$ 3,431	\$ (1,000)	\$ 26,408	10.1%
SJC #1	74,448	16,859	\$ 8,500	\$ 6,982	\$ 1,406	\$ (1,000)	\$ 15,889	6.1%
SJC #2	8,183	39,779	\$ 8,500	\$ 767	\$ 3,318	\$ (1,000)	\$ 11,585	4.4%
SSJ GSA	60,031	38,080	\$ 8,500	\$ 5,630	\$ 3,176	\$ (1,000)	\$ 16,306	6.2%
Stockton	23,035	277,120	\$ 8,500	\$ 2,160	\$ 23,114	\$ (1,000)	\$ 32,774	12.6%
WID GSA	31,238	8,488	\$ 8,500	\$ 2,930	\$ 708	(1,000)	\$ 11,138	4.3%
	799,665	599,467	\$ 136,000	\$ 75,000	\$ 50,000	\$ -	\$ 261,000	100.0%

Table 3 Percentage

	% Split	GW	Pop
		60%	40%
Medium Cost			
Need	\$ 261,000	\$ 156,600	\$ 104,400
Balance after Minimum	\$ 125,000	\$ 75,000	\$ 50,000
	\$ 136,000		

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Table 3 - Desired Scenarios, Cost Allocation Based 60/40 w/ Minimum and East Side Z2 Adjustment

	1	2	3	4	5	6	7	8
						GSA Funding		
GSA	Total Pumping-Projected (AFY)	Population (2017)	Minimum	Pumping	Population	EastSide GSA Non-Zone 2 Adjustment	Total	%
CDWA	9,611	1,629	\$ 8,500	\$ 4,882	\$ 736	\$ (1,000)	\$ 13,118	1.6%
CSJWCD	138,809	8,047	\$ 8,500	\$ 70,510	\$ 3,635	\$ (1,000)	\$ 81,645	10.0%
Eastside SJ GSA	63,500	10,498	\$ 8,500	\$ 32,256	\$ 4,742	\$ 15,000	\$ 60,498	7.4%
LCSD	1,153	1,558	\$ 8,500	\$ 586	\$ 704	\$ (1,000)	\$ 8,789	1.1%
LCWD	485	2819	\$ 8,500	\$ 246	\$ 1,273	\$ (1,000)	\$ 9,020	1.1%
Lodi	14,520	58,174	\$ 8,500	\$ 7,376	\$ 26,279	\$ (1,000)	\$ 41,155	5.1%
Manteca	18,985	64,279	\$ 8,500	\$ 9,644	\$ 29,037	\$ (1,000)	\$ 46,181	5.7%
NSJWCD	146,158	21,977	\$ 8,500	\$ 74,243	\$ 9,928	\$ (1,000)	\$ 91,671	11.3%
OID	39,952	1,890	\$ 8,500	\$ 20,294	\$ 854	\$ (1,000)	\$ 28,648	3.5%
SDWA	4,532	7,136	\$ 8,500	\$ 2,302	\$ 3,224	\$ (1,000)	\$ 13,026	1.6%
SEWD	165,025	41,134	\$ 8,500	\$ 83,827	\$ 18,582	\$ (1,000)	\$ 109,908	13.5%
SJC #1	74,448	16,859	\$ 8,500	\$ 37,817	\$ 7,616	\$ (1,000)	\$ 52,933	6.5%
SJC #2	8,183	39,779	\$ 8,500	\$ 4,157	\$ 17,970	\$ (1,000)	\$ 29,626	3.6%
SSJ GSA	60,031	38,080	\$ 8,500	\$ 30,494	\$ 17,202	\$ (1,000)	\$ 55,196	6.8%
Stockton	23,035	277,120	\$ 8,500	\$ 11,701	\$ 125,185	\$ (1,000)	\$ 144,386	17.8%
WID GSA	31,238	8,488	\$ 8,500	\$ 15,868	\$ 3,834	\$ (1,000)	\$ 27,202	3.3%
	799,665	599,467	\$ 136,000	\$ 406,200	\$ 270,800	\$ -	\$ 813,000	100.0%
							\$ 813,000	

Table 3 Percentage

	% Split	GW	Pop
		60%	40%
Low Cost			
Need and without minimum	\$ 813,000	\$ 487,800	\$ 325,200
Balance after Minimum	\$ 677,000	\$ 406,200	\$ 270,800
Minimums total	\$ 136,000		

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Table 4 Classes Cost Allocation for Required

		Total			
Combined GW and Population	Agency Type Per Class (Ag/Ur)	Agency Name	Agency Per Class	Cost/GSA Cost	Total Cost Per Pumping Class
5	3 - Ag	CSJWCD; NSJWCD; SEWD	3	\$ 40,450	\$ 121,350
4	2 - Ag	Eastside SJ; SJC #1	2	\$ 26,950	\$ 53,900
3	3 - Ag	WID; SSI; OID	3	\$ 16,850	\$ 50,550
2	3 - Ur	Lodi; Manteca; Stockton	3	\$ 7,575	\$ 22,725
1	3 - Ur 2 - Ag	LCSD; LCWD; SJC #2; CDWA; SDWA	5	\$ 2,525	\$ 12,625
Total					\$ 261,150

Table 5 Classes Cost Allocation for Desired

		Total			
Combined GW and Population	Agency Type Per Class (Ag/Ur)	Agency Name	Agency Per Class	Cost/GSA Cost	Total Cost Per Pumping Class
5	3 - Ag	CSJWCD; NSJWCD; SEWD	3	\$ 125,800	\$ 377,400
4	2 - Ag	Eastside SJ; SJC #1	2	\$ 83,800	\$ 167,600
3	3 - Ag	WID; SSI; OID	3	\$ 52,400	\$ 157,200
2	3 - Ur	Lodi; Manteca; Stockton	3	\$ 23,550	\$ 70,650
1	3 - Ur 2 - Ag	LCSD; LCWD; SJC #2; CDWA; SDWA	5	\$ 7,850	\$ 39,250
Total					\$ 812,100

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**Table 6 Comparison of Cost Allocation Based 60/40 w/ Membership
Minimum and East Side Z2 Adj**

GSA	Desired		Required	
	Total	%	Total	%
CDWA	\$ 13,118	1.6%	\$ 8,537	3.3%
CSJWCD	\$ 81,645	10.0%	\$ 21,190	8.1%
Eastside SJ GSA	\$ 60,498	7.4%	\$ 30,331	11.6%
LCSD	\$ 8,789	1.1%	\$ 7,738	3.0%
LCWD	\$ 9,020	1.1%	\$ 7,781	3.0%
Lodi	\$ 41,155	5.1%	\$ 13,714	5.3%
Manteca	\$ 46,181	5.7%	\$ 14,642	5.6%
NSJWCD	\$ 91,671	11.3%	\$ 23,041	8.8%
OID	\$ 28,648	3.5%	\$ 11,405	4.4%
SDWA	\$ 13,026	1.6%	\$ 8,520	3.3%
SEWD	\$ 109,908	13.5%	\$ 26,408	10.1%
SJC #1	\$ 52,933	6.5%	\$ 15,889	6.1%
SJC #2	\$ 29,626	3.6%	\$ 11,585	4.4%
SSJ GSA	\$ 55,196	6.8%	\$ 16,306	6.2%
Stockton	\$ 144,386	17.8%	\$ 32,774	12.6%
WID GSA	\$ 27,202	3.3%	\$ 11,138	4.3%
	\$ 813,000		\$ 261,000	

Table 7 Comparison of Totals (by Class)

Combined GW and Population	Agency Type Per Class (Ag/Ur)	Agency Name	Agency Per Class	Desired		Required	
				Cost/GSA Cost	Total Revenue for pumping class	Cost/GSA Cost	Total Revenue for pumping class
5	3 - Ag	CSJWCD; NSJWCD; SEWD	3	\$ 125,800	\$ 377,400	\$ 40,450	\$ 121,350
4	2 - Ag	Eastside SJ; SJC #1	2	\$ 83,800	\$ 167,600	\$ 26,950	\$ 53,900
3	3 - Ag	WID; SSJ; OID	3	\$ 52,400	\$ 157,200	\$ 16,850	\$ 50,550
2	3 - Ur	Lodi; Manteca; Stockton	3	\$ 23,550	\$ 70,650	\$ 7,575	\$ 22,725
1	3 - Ur 2 - Ag	LCSD; LCWD; SJC #2; CDWA; SDWA	5	\$ 7,850	\$ 39,250	\$ 2,525	\$ 12,625
Total					\$ 812,100		\$ 261,150