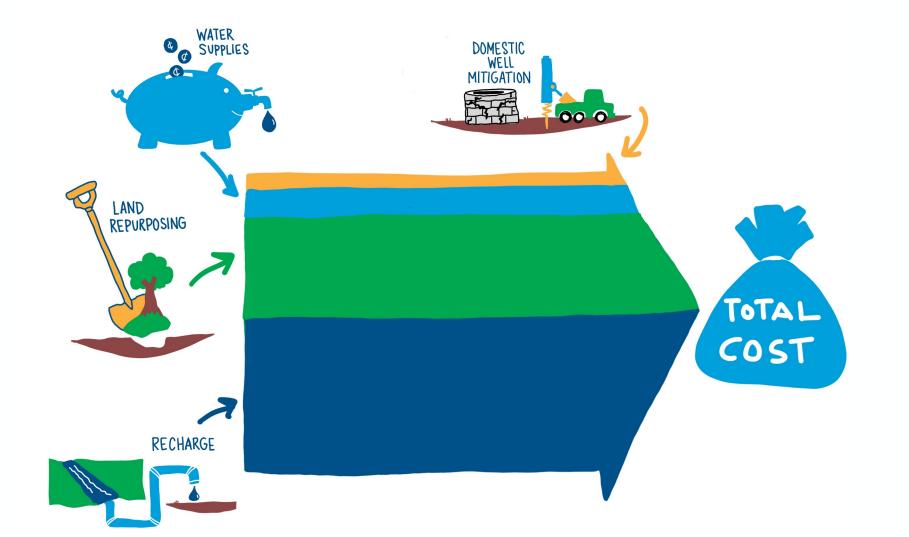




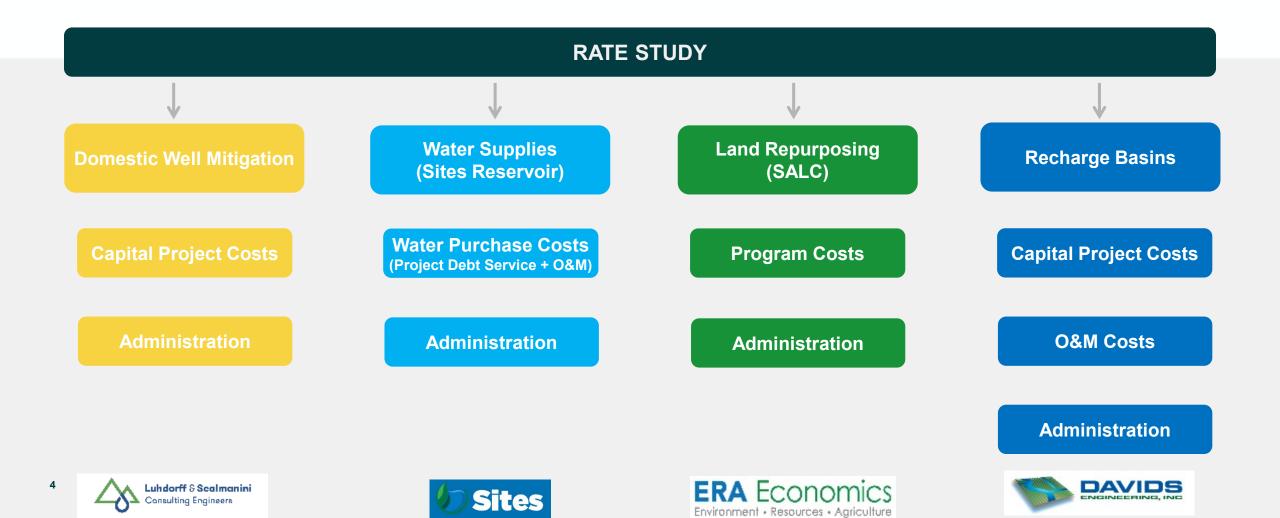
**Recharge Costs in Rate Study** 

- Overview of GSP Projects and Management Actions
- Rate Study Costs Components
- Debt Financing
- What We Know
- What We Decided
- What We Are Accomplishing
- Where We Are Headed
- What is the Cost of Recharge

### **GSP** Projects and Management Actions



# **Rate Study Cost Components**





**Debt Financing Recharge Facilities** 

- Domestic Well Mitigation Program, Water Purchases, and SALC have relatively steady annualized cash needs lending themselves to cash funding
- Raftelis recommends debt financing Recharge facilities
- Significant short term capital costs for long-term benefits
- Favorable borrowing environment
- Reduce very large upfront payments to lower annual costs
- Working in conjunction with County Municipal Advisors and Bond Counsel on the terms, timing, and structuring of debt
- GSAs are new territory for the bond market
- Will be conservative in borrowing estimates

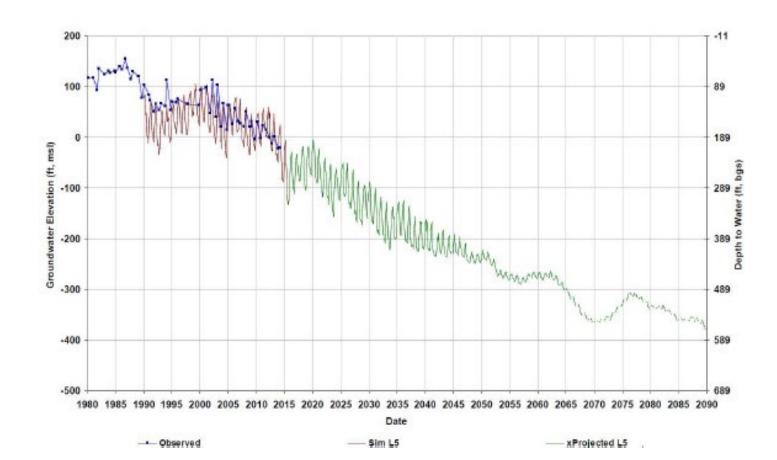


### What We Know

MCSim - Projected

Appendix E.3.

#### SAMPLE WELL



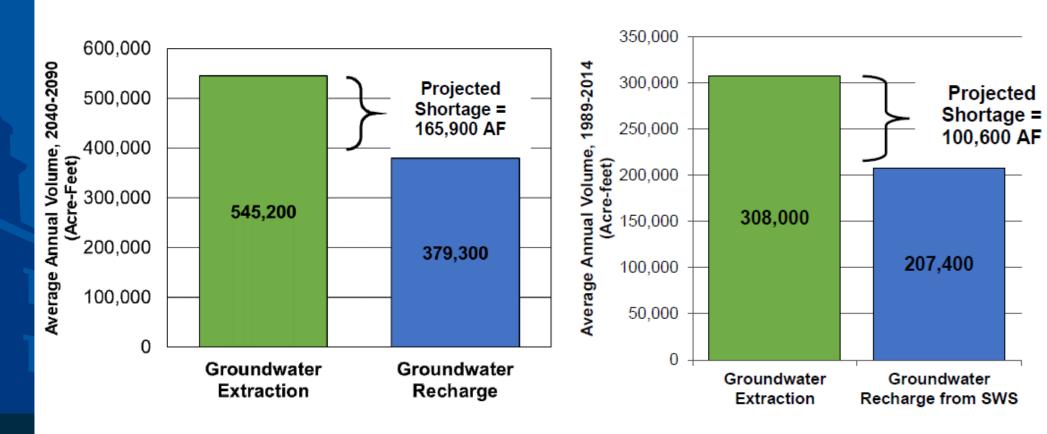


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### What We Know

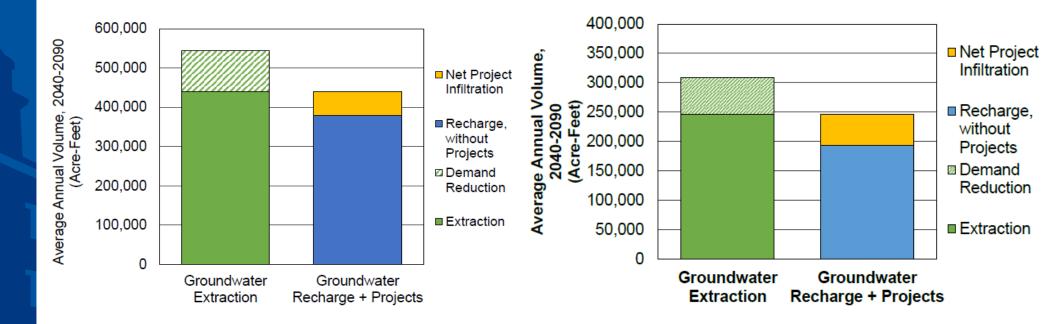


Madera Subbasin

Chowchilla Subbasin



### What We Decided



Madera Subbasin

Chowchilla Subbasin

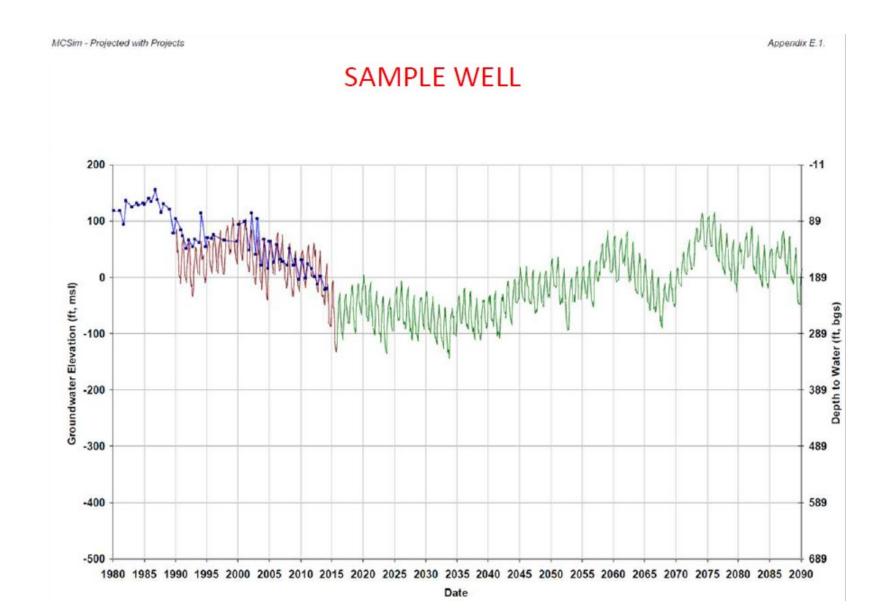
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### What We Decided





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# What We Are Accomplishing

#### Madera County GSA only

### **Engaged in a comprehensive Recharge Study**

- Successfully secured two recharge grants from the Department of Water Resources (DWR)
- Madera Subbasin
- Chowchilla Subbasin
- Engaged in design of both projects
- Engaged in an Emergency Recharge Plan
- Implement allocation
- Continue discussions on water market
- Continued stakeholder collaboration and outreach
- Engaged in a rate study



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## Where We Are Headed

Complete current phase of Recharge Study

Complete design of two DWR grant projects (Madera and Chowchilla)

**Complete Emergency Recharge Plan** 

Initiate preliminary design of projects 2-5 (Madera and Chowchilla)

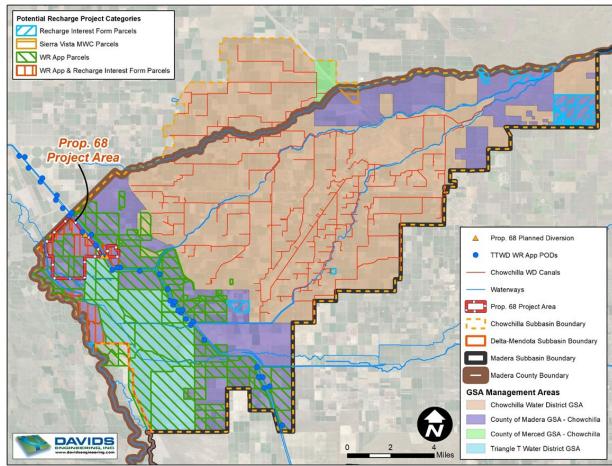
#### **Complete Rate Study**

- Recharge
- Land repurposing (SALC)
- Domestic well mitigation
- Other water supplies and transfers
- Implement allocation
- Continue discussions on water market
- Continued stakeholder collaboration and outreach



### What is the cost of recharge?

Geographic scope More water = more land Permanent infrastructure Planning Design **Environmental review** Permitting Construction Water rights Governance One party vs. many parties



Document Path: C:\\_DE\OneDrive - Davids Engineering\\_DE\_Projects\1165.11 - Madera County Recharge Study\GIS\Maps\Chowchilla\_Pot\_Recharge\_APN\_Map 210319.mxd

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### What is the cost of recharge (Cont).....

_	Preliminary Infrastructure Counts							Estimated Project Cost by Potential Funding Source							
						I	Estimated								
			Dedicated	Pipelir	ne P		Project Cost	$\mathbf{N}$						Estimated	
	Project	PODs	Basins	(linear fee <mark>t</mark> )		(4)			Grants		Madera County		Private (5)	Annual O&M	
	1	4	1	6	,000	\$	6,564,042	\$	4,197,600	\$	700,842	\$	1,665,600	\$	73,000
	2	11	2	46	,040	\$	27,955,000	\$	-	\$	25,815,211	\$	2,139,789	\$	387,000
	3	11	2	46	040	\$	28,660,000	\$	-	\$	26,520,211	\$	2,139,789	\$	398,000
	4	11	2	46	040	\$	29,345,000	\$	-	\$	27,205,211	\$	2,139,789	\$	408,000
	5	12	1	50	,225	\$	28,853,000	\$			niact co	_1			f
										, r /	MANT CO	C • T	C CONA		

Madera Subbasin

#### 

Preliminary Infrastructure Counts															
	Project	PODs	Dedicated Basins	Pipeline (linear feet)		Estimated Total Project Cost		Grants	М	adera County GSA		Private		stimated inual O&M	
	1	4	2	18,80	0	\$ 6,904,197	\$	4,197,600	\$	794,016	\$	1,912,581	\$	104,000	Chowchilla
	2	7	2	29,46	9	\$ 17,800,000	\$	-	\$	17,080,000	\$	720,000	\$	267,000	
	3	8	1	19,41	ŀ	\$ 14,362,000	\$	-	\$	14,002,000	\$	360,000	\$	215,000	Subbasin
	4	11	1	38,990		\$ 22,780,000	\$	-	\$	22,420,000	\$	360,000	\$	342,000	
	5	1	1	16,704	4	\$ 4,851,000	\$	-	\$	4,251,000	\$	600,000	\$	73,000	
	TOTALS	31	7	123,374	4	\$ 66,697,197	\$	4,197,600	\$	58,547,016	\$	3,952,581	\$	1,001,000	

\*Costs subject to change pending further design

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TOTALS



What does your \$190M investment get you?

- Approximately 2.5M AF of recharge over the life of the projects
- Over 300,000 linear feet of new 27" PVC pipe
- Over 350 new turnouts to growers
- 71 new pump stations with fish screens
- 15 new dedicated recharge basins
- Part of achieving sustainability



# **Next Steps in Rate Study**

- Scenario analyses with GSA staff and consulting teams
- Annual cash needs by subbasin (financial plan)
- Rate modeling with GSA staff
- Preliminary and revised rates and charges by subbasin
- Rate Study report

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- Rate notice authorization
  - Public Hearing for rate adoption
- Implemented for CY 2022 and collected FY 2022-23