

Code	Timeframe	based on knowledge of similar projects
S	< 5 yrs	
M	5 - 10 yrs	
L	> 10 yrs	
	AFY Provided	acre-feet per year, potential or actual number if known
L	< 1000	
M	1000 - 5000	
H	> 5000	
U	UNKNOWN	
	Est. Cost	based on knowledge of similar projects
L	< \$100K	K = 1,000
M	\$100K - \$10M	M = 1,000,000
H	> \$10M	
	Feasibility	based on knowledge of similar projects
L	low feasibility - difficult due to technical, political, environmental issues	
M	moderate feasibility - will take some negotiations, public acceptance	
H	high feasibility - could be implemented immediately	

Paso Robles Groundwater Basin Steering Committee
Solutions Subcommittee
Solutions Discussion Worksheet
July 14, 2013

1.	Conservation			Time	AFY	Est. Cost	Feasibility	Responsibility
1. 1	Urban – Paso Robles, Atascadero, Templeton, San Miguel							
1. 1.1			Reduce per capita consumption to offset growth in service area.	S	H	M	M	
1. 1.2			Limit pumping to winter time water use.	S	H	H	L	
1. 1.3			Participate in California Urban Water Conservation Council policies and practices.	S	M	L	H	
1. 2	Agriculture – Irrigated Crops							
1. 2.1	Perennial crops							
1. 2.1.1	Vineyards							
1. 2.1.1.1			Reduce water usage on a per acre basis.	S	H	M	M	
1. 2.1.1.2			Identify and implement BMPs, including frost protection BMPs	S	M	L	M	
1. 2.1.2	Other perennial crops							
1. 2.1.2.1			Reduce water usage on a per acre basis applicable to each crop.	S	L	M	M	
1. 2.1.2.2			Identify and implement-specific BMPs.	S	L	L	M	
1. 2.2	Annual crops							
1. 2.2.1			Reduce water usage on a per acre basis applicable to each crop.	S	M	M	M	
1. 2.2.2			Identify and disseminate specific BMPs.	S	M	L	M	
1. 2.3	Agricultural processing, including wineries							
1. 2.3.1			Reduce water usage on a per unit basis for each type of ag processing.	S	L	M	M	
1. 2.3.2			Identify and implement specific BMPs.	S	L	L	M	
1. 2.4	For all irrigated crops and ag processing facilities							
1. 2.4.1			Conduct regular outreach activities.	S	U	M	H	
1. 2.4.2			Conduct outreach for County's groundwater level monitoring program.	S	U	L	H	
1. 2.4.3			Identify BMPs and set targets to measure success.	S	U	L	H	
1. 2.4.4			Install water meters on irrigation and ag processing wells.	S	M	M	M	
1. 3	Rural Residential							
1. 3.1			Reduce water usage on a per household basis.	S	M	L	M	
1. 3.2			Identify and implement specific BMPs.	S	M	L	H	
1. 3.3			Conduct regular outreach activities.	S	U	L	H	
1. 3.4			Install water meters on domestic wells.	S	L	M	M	
1. 4	Rural – Non-domestic (Golf courses, industrial, equestrian pastures, recreational, etc.)							
1. 4.1			Reduce water usage on a per unit basis applicable to each operation.	S	L	M	M	
1. 4.2			Identify and implement-specific BMPs for non-domestic uses.	S	L	L	M	
1. 4.3			Conduct regular outreach activities.	S	U	M	H	
1. 4.4			Install water meters on non-domestic wells.	S	L	M	M	

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2.	Supplemental Water		Timeframe	AFY	Est. Cost	Feasibility	Responsibility
2.1	Nacimiento Water - 6,095 AFY unsubscribed and available for purchase						
2.1.1	Expansion of current infrastructure						
2.1.1.1	Urban and Urban - Non-Domestic						
2.1.1.1.1	Paso Robles						
2.1.1.1.1.1		Build water treatment plant to full capacity of 4,000 AFY.	M	M	H	M	
2.1.1.1.1.2		Structure operations to use alluvial water first, Naci water second and basin last.	S	M	M	M	
2.1.1.1.1.3		Connect the Paso Robles/Templeton system to Atascadero by installing 1,400 feet of pipe.	S	L	M	L	
2.1.1.1.1.4		Increase alluvial well pumping to maximize use of Salinas River appropriation.	S	L	M	L	
2.1.1.1.2	San Miguel						
2.1.1.1.2.1		Develop a San Miguel turnout and utilize Nacimiento Water.	M	L	M	L	
2.1.1.1.3	Atascadero						
2.1.1.1.3.1		Utilize the full allocation (2,000 AFY) by fully utilizing the existing percolation ponds.	S	M	M	H	
2.1.1.1.4	Templeton						
2.1.1.1.4.1		Maximize the use of the full allocation.	S	L	M	H	
2.1.1.1.5	All Urban						
2.1.1.1.5.1		Maximize use of remaining unsubscribed allocation in other ways.	S	H	M	L	
2.1.1.1.6	Monterey County						
2.1.1.1.6.1		Negotiate with Monterey Co for additional Naci water to utilize full hydraulic capacity of pipeline.	L	H	H	M	
2.1.1.2	Agriculture - Irrigated crops						
2.1.1.2.1		Agriculture to use Nacimiento water.	L	H	H	M	
2.1.1.3	Rural Residential						
2.1.1.3.1		Wheel water through existing community systems or build infrastructure to deliver water.	L	H	M	M/L	
2.1.2	Injection						
2.1.2.1		Implement injection where it will replenish groundwater basin.	L	M	H/M	L	
2.1.3	Recharge						
2.1.3.1		All areas -Develop recharge basins.	L	M	M		
2.1.4	Other options						
2.1.4.1		Develop other carryover storage options.	L	L	H	L	
2.1.4.2		Deliver unsubscribed allocation directly to area of concern.	L	H	H	L	
2.2	Other water sources						
2.2.1	Exchanges - All areas						
2.2.1.1		Exchange or bank Nacimiento water with Santa Margarita Lake to benefit basin.	S	H	M	M	
2.2.1.2		Exchange or bank Nacimiento water with Lopez Lake to benefit basin.	M	U	M	L	
2.2.1.3		Exchange or bank Nacimiento water with State Water Project.	M	H	M	L	
2.2.2	New Off / On Stream Storage						
2.2.2.1		Jack Creek Dam	L	H	H	L	
2.2.2.2		Santa Rita Creek Dam	L	H	H	L	
2.2.2.3		Other new dam locations	L	H	H	L	
2.2.2.4		Salinas Dam - Santa Margarita Lake - Raise and reinforce to increase storage.	L	M	H	L	
2.2.2.5		Other streams	L	U	H	L	
2.2.2.5.1		Alluvial flow capture (Estrella River, HuerHuero Creek, etc.)	L	U	H	L	
2.2.3	Basin creeks						
2.2.3.1		Establish a high flow waterway management system.	L	U	M	L	
2.2.3.2		Establish live stream water flow throughout the watershed areas	M	U	M	L	
2.2.4	Salinas River						
2.2.4.1		Develop high flow waterway system management system.	L	U	H	L	
2.2.5	State Water Project - Up to 15,273 AFY available						
2.2.5.1		Connect Shandon to State Water and set up distribution system.	S	L	M	H	
2.2.5.2		Connect San Miguel/Paso Robles /Templeton /Atascadero to SWP.	L	H	M	L	
2.2.5.3		Turnout the SWP Coastal Branch at the City of San Luis/Nacimiento junction.	M	H	M	L	
2.2.5.4		Connect Creston to SWP.	L	L	H	M	
2.2.5.5		Agriculture - Direct delivery	L	H	H	M	
2.2.5.6		Rural Residential - Direct delivery	L	H	H	M/L	
2.2.6	Desalination						
2.2.6.2		Desalinization (sea water or brackish).	L	H	H	L	
2.2.7	Precipitation Enhancement						
2.2.7.1		Cloud seeding	S	M	M	M	

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3.	Recycled Water		Timeframe	AFY	Est. Cost	Feasibility	Responsibility
3. 1		Urban and Urban Non-Domestic					
3. 1.1		Paso Robles, San Miguel, Templeton, Atascadero					
3. 1.1.1		Upgrade wastewater treatment plants for distribution to end users.	M	H	H	H	
3. 1.1.2		Install grey water reuse systems onsite	S	L	M	M	
3. 2		Agriculture					
3. 2.1		Install grey water reuse systems onsite.	M	M	M	M	
3. 3		Rural Residential					
3. 3.1		Install grey water reuse systems onsite.	S	L	L	M	

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4.	Management		Timeframe	AFY	Est. Cost	Feasibility	Responsibility
4. 1	Groundwater management						
4. 1.1		Prohibit groundwater exports from the Basin.	M	U		M	
4. 1.2		Develop an equitable allocation of safe yield for all overlayers.	S	M	M	M	
4. 1.3		Establish baseline conditions.	S	N/A	M	H	
4. 1.4		Continuously monitor status of basin to determine whether solutions are effective.	S	N/A	M	H	
4. 1.5		Manage pumping from all wells in the basin.	M	M	M	M	
4. 1.6		Provide a potable water source for use in trucking water to homes for emergency purposes.	S	L	L	H	
4. 1.7		Groundwater banking.	L	M	H	M	
4. 2	Alternative Governance Structures						
4. 2.1	All Areas						
4. 2.1.1		Create a basin-wide groundwater management district management system.	S	H	M	H	
4. 2.1.2		Do nothing.	S	0	H	L	
4. 2.2	Rural Residential						
4. 2.2.1		Connect rural residential properties adjacent to urban water providers.	M	M	M	M	
4. 2.2.2		Create small community systems for rural communities.	M	L	M	L	
4. 2.2.3		Create a rural water district.	L	L	M	L	
4. 2.3	Agriculture - Irrigated Crops						
4. 2.3.1		Create irrigation districts or other management authorities to convey water to agricultural users.	L	H	H	M	
4. 3	Land Use Management						
4. 3.1	Ordinances and Policies - Agriculture						
4. 3.1.1		Implement ordinances to prohibit subdivisions of land or General Plan Amendments in the Basin.	S	L	L	H	
4. 3.1.2		Implement landscaping ordinance (ag processing).	S	U	L	H	
4. 3.1.3		Establish policies and funding to take irrigated agricultural acreage out of production.	S	U	M	L	
4. 3.1.4		Establish ordinances to protect recharge areas and watersheds.	M	U	M	M	
4. 3.1.5		Encourage the segments of the ag industry that are comparatively water neutral.	S	U	M	M	
4. 3.1.6		Encourage existing low water use crops to remain.	S	U	M	M	
4. 3.1.7		Encourage projects that detain or slow runoff.	S	U	M	H	
4. 3.1.8		Enforce erosion and sediment control plan per current grading ordinance.	S	U	M	M	
4. 3.1.9		Enact urgency ordinance for new/expanded ag to limit per parcel water use to sustainable level.	S	U	M	M	
4. 3.1.10		Require hold harmless notice when land sold that basin in decline and not rely on for intensive use.	S	U	L	M	
4. 3.1.11		Enact urgency ordinance for new/expanded users that they provide guarantees to maintain residential water supply.	S	U	M	L	
4. 3.1.12		Enact urgency moratorium restricting new wells to no greater than 6 inch casing.	S	U	L	L	
4. 3.1.13		Adopt urgency plan for fair and equitable allocation of groundwater that protects residential users.	S	U	M	L	
4. 3.1.14		Enact urgency moratorium on all ag overhead irrigation, including for frost protection.	S	U	L	L	
4. 3.1.15		Enact urgency moratorium banning construction of all reservoirs for storage of irrigation water.	S	U	L	M	
4. 3.2	Ordinances and Policies - Rural Residential						
4. 3.2.2		Implement landscaping ordinance.	S	L	L	H	
4. 3.2.3		Require new development to be water neutral.	S	L	L	H	
4. 3.2.4		Encourage projects that detain or slow runoff.	S	U	L	H	
4. 3.2.5		Implement Low Impact Development standards.	S	U	L	H	
4. 3.2.6		Enforce erosion and sediment control plan per current grading ordinance.	S	U	L	M	
4. 3.2.7		Require hold harmless notice when land sold that basin in decline and not rely on for intensive use.	S	U	L	H	