
GSP Planning Workshop

**Merced Irrigation-Urban GSA
Merced Subbasin GSA
Turner Island Water District GSA**

January 11, 2018



Introductions

Over

A wide-angle landscape photograph showing a vast, open field in the foreground, transitioning into rolling green hills in the middle ground. A prominent yellow field, possibly a cornfield, is visible in the mid-ground. In the background, a range of blue mountains stretches across the horizon under a bright blue sky filled with fluffy white clouds. A tall, silver utility tower stands on the left side of the middle ground. The overall scene is bright and clear, suggesting a sunny day.

Workshop Goals

Over

A scenic landscape featuring rolling green hills in the foreground, a large yellow field in the middle ground, and a blue sky with white clouds in the background. A utility tower is visible on the left side of the image.

Workshop Goals

- Brief GSA Boards on plan to develop a Groundwater Sustainability Plan for the Merced Subbasin by January 2020
- Receive input on planned public and stakeholder engagement process
- Identify Next Steps and Upcoming GSA Decisions



Presentation Overview

Over

A scenic landscape featuring rolling green hills in the foreground, a large yellow field in the middle ground, and a blue sky with scattered white clouds. In the distance, there are more hills and a few trees. A utility pole is visible on the left side of the image.

Presentation Overview

- Progress to Date (Phase 1 Update)
- GSP Development Approach: Phase 2 Workplan, Budget, and Schedule
- Public and Stakeholder Outreach Process
- Questions and Discussion



Progress to Date

Phase 1 – Early Implementation Actions

Over



Phase 1: SGWP Grant Application & GSP Early Implementation Actions

Grant Application

- Application for Groundwater Sustainability Plan (GSP) funding
- Application for 3 Projects Benefitting Severely Disadvantaged Communities (SDACs)
- DWR funding to be announced in January

Early Implementation Actions

- Stakeholder & Public Outreach Plan Development
- Coordination with Neighboring Basins
- Merced GSA Governance and Decision-Making

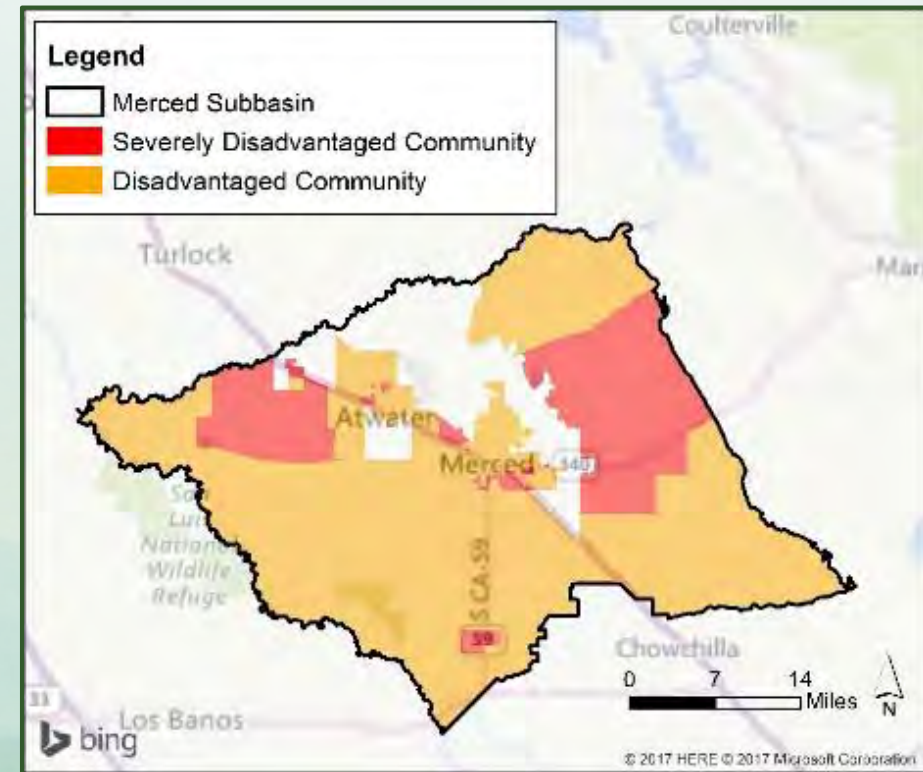
Stakeholder and Public Outreach

- Website launched
- Taking applications for stakeholder committee
- Meetings to start in April/May

Severely Disadvantaged Community (SDAC) Projects

Three Projects

1. Planada Groundwater Recharge Basin Pilot Project (\$400k)
2. El Nido Groundwater Monitoring Wells (\$400k)
3. Meadowbrook Intertie Feasibility Study (\$100k)



Groundwater Sustainability Plan Development

Phase 2 Workplan

Over



Phase 2: GSP Development

Funding

- Requested \$1.5M (total project cost of \$1.73M)
- Requested 100% cost share waiver since basin includes more than 50% DACs
- Awaiting DWR funding announcement

Workplan


- Meets regulatory requirements and follows DWR guidance
- Includes technical work + public outreach + interbasin coordination
- Ready to start immediately to complete 18 month schedule

GSAs' Role

- Coordinating Committee working closely with consulting team; will keep GSA leadership up-to-date
- Decision milestones along the way
- Must formally adopt GSP by January 31, 2020

Phase 2 – GSP Development

13 Tasks:

1. Plan Area and Authority
 2. Data Management System
 3. Basin Settings
 4. Sustainable Management Criteria
 5. Monitoring Networks
 6. Sustainability Thresholds
 7. Water Accounting Framework
 8. Management Program
 9. GSP Implementation
 10. GSP Compilation and Preparation
 11. Coordination and Outreach
 12. Interbasin Coordination
 13. Program Management
- 

Key Milestones for GSA Input

Sustainable Management Criteria & Thresholds

Water Accounting Framework

Management Actions and Projects



Task 1 –Plan Area and Authority

- Document GSA authority, jurisdiction, organization, and decision-making
- Document surficial conditions, jurisdictions, land use, well density, and communities dependent on groundwater
- Review and document existing groundwater management and general plans and relationship to GSP



Task 2 – Enhance Data Management System (DMS)

- Evaluate existing DMS
- Prepare methods for inputting data into the DMS
- Establish appropriate interfaces for users to interact with the DMS, input data, coordinate DMS with cooperating agencies,
- Update existing hydrologic database to address DWR reporting needs
- Data Entry and QA/QC

Task 3 –Basin Settings

- Review existing monitoring information for use in the basin setting and monitoring network use
- Prepare the hydrogeologic conceptual model, groundwater conditions and water budget portions of the GSP
- Update groundwater model to include new data, expand coverage, validate data, and calibration as needed
- *Builds upon information in the MAGPI Groundwater Management Plan, and existing Merced Water Resources Model*

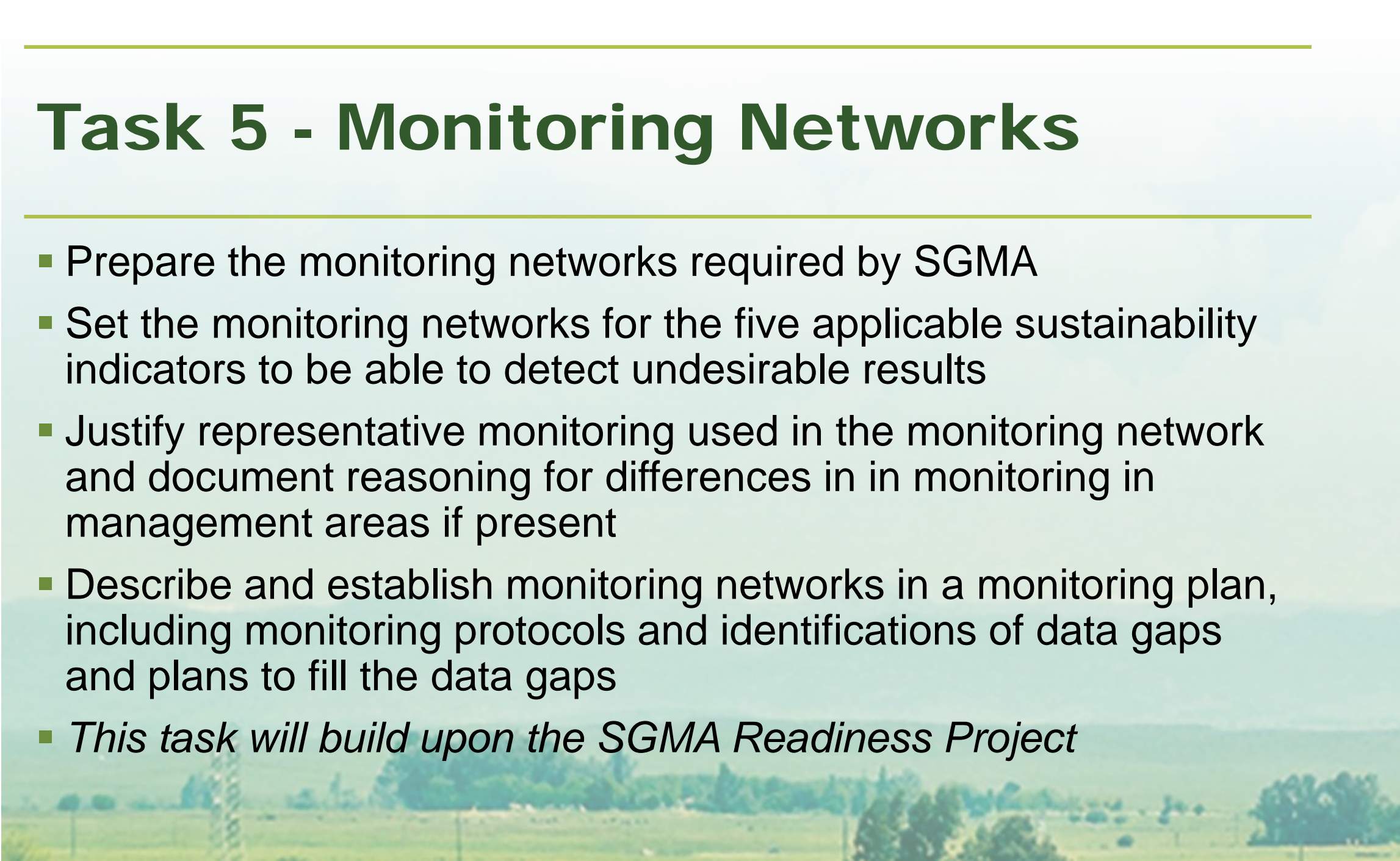
Task 4 –Sustainable Management Criteria

- GSP sustainability goal(s)
- Undesirable results narrative
- Evaluate presence or absence of undesirable results
- Define Management Areas



Key
Input
Item

Task 5 - Monitoring Networks

- Prepare the monitoring networks required by SGMA
 - Set the monitoring networks for the five applicable sustainability indicators to be able to detect undesirable results
 - Justify representative monitoring used in the monitoring network and document reasoning for differences in in monitoring in management areas if present
 - Describe and establish monitoring networks in a monitoring plan, including monitoring protocols and identifications of data gaps and plans to fill the data gaps
 - *This task will build upon the SGMA Readiness Project*
- 

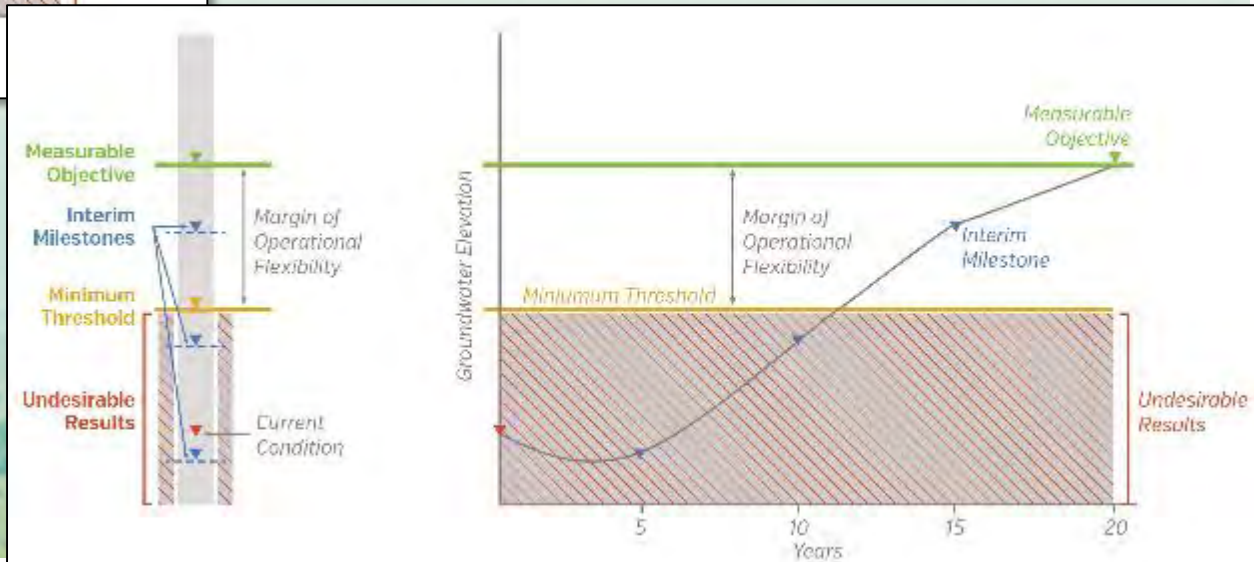
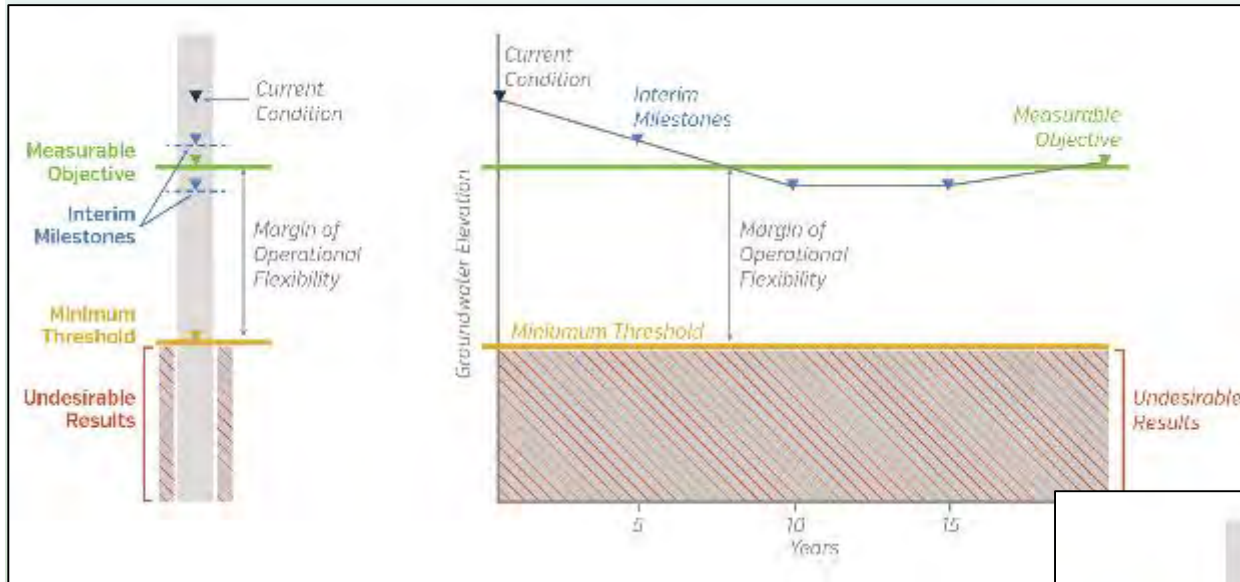
Task 6 –Sustainability Thresholds

- Prepare the sustainability thresholds
 - minimum thresholds,
 - measurable objectives,
 - interim milestones,
 - margin of operational flexibility
- Document use of representative thresholds and management areas
- Develop rationale to show that thresholds selected prevent undesirable results



Key
Input
Item

Task 6 - Sustainability Thresholds



Task 7 –Water Accounting Framework

- Lay out the water accounting framework and documents any allocation strategies adopted during GSP development
- Water accounting frameworks help GSP partner GSAs and management areas track the effects of projects and management, and apportion credit for actions taken
- *Merced Water Resources Model can be used to develop water budgets to support water accounting framework*



Key
Input
Item

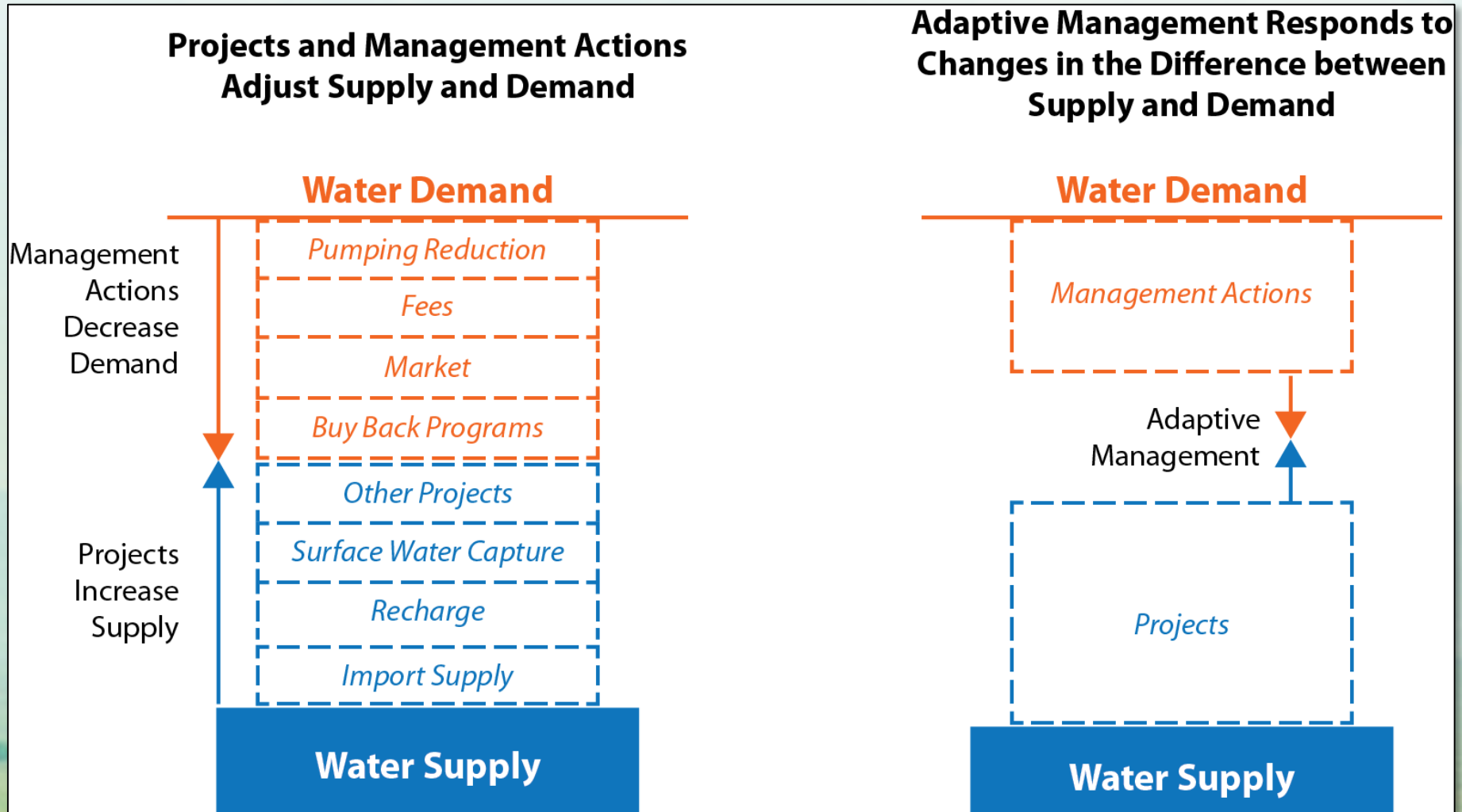
Task 8 –Management Program

- Set up the management program portion of the GSP by collecting, documenting, and evaluating projects, management actions, and adaptive management options
- Evaluate potential management actions to determine their effectiveness in preventing future undesirable results
- *The Merced Water Resources Model will be used to evaluate effectiveness of management portfolios*



Key
Input
Item

Task 8 -Management Program



Task 9 – Develop GSP Implementation Plan

- Document how the GSP will be implemented over time, and meets regulatory evaluation components
 - Schedule of GSP implementation
 - Implementation cost estimates
 - Funding approach
 - Effects of undesirable results on beneficial uses
 - Potential effects of GSP implementation
 - Data management plan
 - Groundwater model update plan

Task 10 – Compile and Prepare GSP

- Prepare:
 - Administrative draft GSP
 - Public draft GSP
 - Final draft GSP



Task 11 – Conduct Coordination and Outreach

- Coordination and outreach during GSP development
 - Stakeholder committee meetings
 - Public and DAC outreach meetings
 - GSA Board meetings
 - Ongoing coordination and conference calls



Task 12 – Interbasin Coordination

- Coordinate with neighboring basins
- Consider conditions at Subbasin boundaries
- *Merced Water Resources Model will be used to evaluate interbasin flows and monitoring objectives and thresholds*

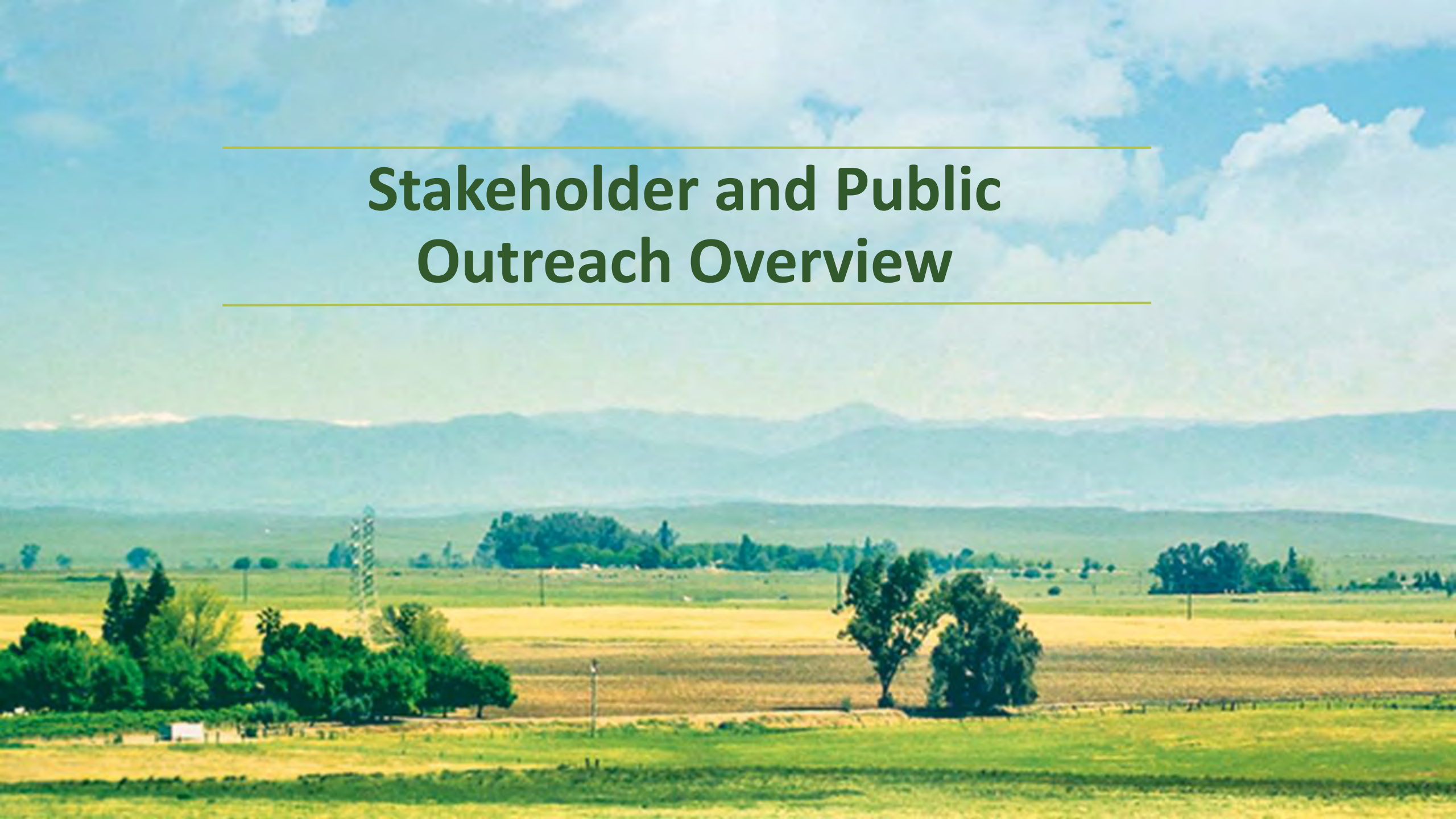


Task 13 –Program Management

- Grant Management – quarterly reports, check ins with grant manager, completion report
- Project management - QA/QC protocols, billing statements, schedule and budget management, management of subconsultants,
- Project coordination – with lead agency, subconsultants, understand changes in SGMA, and others as needed

Preliminary Projected Expenditure

Task	2018				2019			
	Q1 Jan-Mar	Q2 Apr-Jun	Q3 Jul-Sept	Q4 Oct-Dec	Q1 Jan-Mar	Q2 Apr-Jun	Q3 Jul-Sept	Q4 Oct-Dec
Task 1: Project Management and Coordination	\$ 7,800	\$ 7,800	\$ 7,800	\$ 7,800	\$ 7,800	\$ 7,800	\$ 7,800	\$ 7,800
Task 2: Plan Area and Authority	\$ 37,200	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Task 3: Data Management System	\$ 40,500	\$ 20,500	\$ 8,700	\$ 8,700	\$ 6,000	\$ 6,000	\$ 6,000	\$ 6,000
Task 4: Data, Plan Area, and Basin Setting	\$ 11,400	\$ 31,500	\$ 83,000	\$ 99,600	\$ -	\$ -	\$ -	\$ -
Task 5: Sustainability Criteria	\$ -	\$ 4,800	\$ 19,600	\$ 19,500	\$ 8,800	\$ -	\$ -	\$ -
Task 6: Monitoring Networks	\$ -	\$ -	\$ 53,200	\$ 30,500	\$ -	\$ -	\$ -	\$ -
Task 7: Sustainability Thresholds	\$ -	\$ -	\$ -	\$ 63,600	\$ -	\$ -	\$ -	\$ -
Task 8: Water Accounting Framework	\$ -	\$ 11,000	\$ 33,000	\$ 33,000	\$ 22,000	\$ -	\$ -	\$ -
Task 9: Management Program	\$ -	\$ 23,100	\$ 69,300	\$ 69,300	\$ 69,300	\$ -	\$ -	\$ -
Task 10: GSP Implementation	\$ -	\$ -	\$ 26,100	\$ 41,400	\$ 25,800	\$ 18,700	\$ -	\$ -
Task 11: GSP Compilation and Preparation	\$ 3,000	\$ 19,800	\$ 19,800	\$ 19,800	\$ 19,800	\$ 29,300	\$ 39,900	\$ 11,400
Task 12: Coordination and Outreach	\$ 45,900	\$ 45,900	\$ 45,900	\$ 45,900	\$ 45,900	\$ 45,900	\$ 45,900	\$ 45,900
Task 13: Interbasin Agreements and Coordination	\$ 26,700	\$ 26,700	\$ 26,700	\$ 26,700	\$ 26,700	\$ -	\$ -	\$ -
TOTAL GSP BUDGET	\$ 172,500	\$ 191,100	\$ 393,100	\$ 465,800	\$ 232,100	\$ 107,700	\$ 99,600	\$ 71,100
Primary Focus	Data Gathering Basin Setting Outreach Kickoff Set up DMS		HCM Water Budgets Numerical Model Monitoring Network	Sustainability Criteria Measurable Objectives Development Actions and Projects Implementation Plan	GSP Compilation Public Review		Adoption Period Prep for DWR Submittal	

A wide-angle photograph of a rural landscape. The foreground is a lush green field. In the middle ground, there are several clusters of trees, including a tall, thin tower on the left and a large, dense group of trees in the center. The background features rolling hills and a range of mountains under a bright blue sky with scattered white clouds. The title text is centered over the upper portion of the image, framed by two thin green horizontal lines.

Stakeholder and Public Outreach Overview

Requirements for GSP Outreach

- **Identify Stakeholders** (encourage involvement of diverse social, cultural, and economic elements of the population within the basin)
- **Hold Public Meetings**
- **Provide Opportunities for Public Input**
- **Document the Public Involvement Process**
- **Inform the Public about the progress of the GSP**




Levels of Involvement / Engagement and Decision-Making



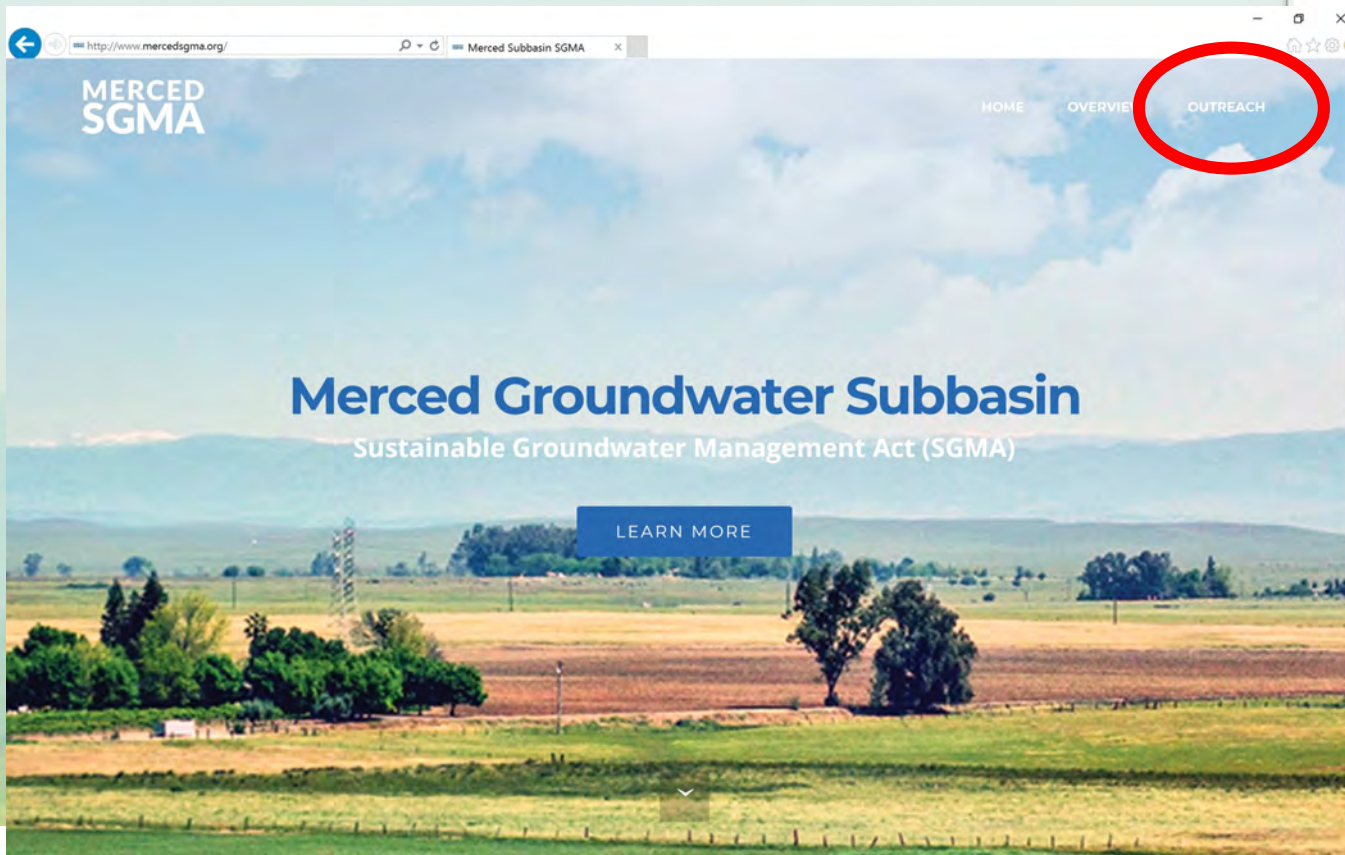
- GSA Leadership (*this group*) – overall authority for decision-making, GSP development and implementation
- Steering / Coordinating Committee – day-to-day plan development and recommendations to decision-makers
- Stakeholder Committee – input and engagement from diverse stakeholders to guide plan development
- Public workshops – involvement by Councils and Boards, DACs, SDACs

Stakeholder Committee Role

- Multi-disciplinary group comprised of organizations representing interested parties
 - Forum for testing ideas and providing information
 - Responsible for providing feedback and communicating to their constituencies
 - Recommendations considered by Coordinating Committee and GSA Leadership
 - Periodic in-person meetings (every one to two months) open to the public
- 

Currently Accepting Applications to Volunteer

- Go to www.mercedsgma.org
- Requested by February 12, 2018



Merced Groundwater Sustainability Plan (GSP) Stakeholder Committee
Application for Volunteers

The Groundwater Sustainability Agencies for the Merced Groundwater Subbasin are seeking volunteers to participate on the Stakeholder Committee. Ideal candidates will have a demonstrated commitment to community service and civic leadership, prior experience participating constructively on similar task forces or advisory committees, and an understanding of water issues. Volunteers are expected to make a firm commitment to participate in monthly meetings and review groundwater planning documents and other information during groundwater sustainability planning through 2019. The Stakeholder Committee will be appointed from the pool of applications received. Applications are due by **February 12, 2018** and should be submitted via email to the Merced Subbasin GSAs c/o Samantha Salvia, Woodard & Curran, ssalvia@woodardcurran.com, 415-321-3423.

Name: _____ Organization: _____

Mailing Address: _____

Preferred Phone: (Mobile/Work/Home) _____

Email Address: _____

Disciplines/Perspectives: (check all that apply)

<input type="checkbox"/> Groundwater Users	<input type="checkbox"/> Environmental Interests
<input type="checkbox"/> Community / Neighborhood Interests	<input type="checkbox"/> Other Institutional Interests
<input type="checkbox"/> Flood Management Interests	<input type="checkbox"/> Disadvantaged Community and Environmental Justice Interests
<input type="checkbox"/> Agricultural Interests	
<input type="checkbox"/> Other Business Interests (non-agriculture)	

Relevant Prior Experience (Task Forces, Advisory Committees, water issues):

Additional Comments:

For more information please visit: www.MercedSGMA.org

QUESTIONS AND DISCUSSION



GSP Planning Workshop

**Merced Irrigation-Urban GSA
Merced Subbasin GSA
Turner Island Water District GSA**

January 11, 2018

