


Salinas Valley Basin GSA

Implementation Chapter Update

Presented to Forebay Area
Subbasin Committee
May 5, 2021






Introduction to Implementation Chapter

- Different than other GSP chapters
- Purpose:
 - To organize the tasks that need to be undertaken and put them in one place
 - To lay out a clear path for GSP implementation so that the GSA and stakeholders understand what will occur in the years ahead
 - To give DWR confidence that the GSA is committed to implementing the GSP and understands the level of effort needed to do so



Items Included in Implementation Chapter

- Data, Monitoring, and Reporting
 - Annual monitoring and reporting
 - Updating the Data Management System
 - Improving monitoring networks
 - Addressing identified data gaps in the hydrogeologic conceptual model
- Communication and Engagement
- Road Map for Refining and Implementing Projects and Management Actions
- 5-year Update
- Start-up Budget and Funding Strategy
- Implementation Schedule

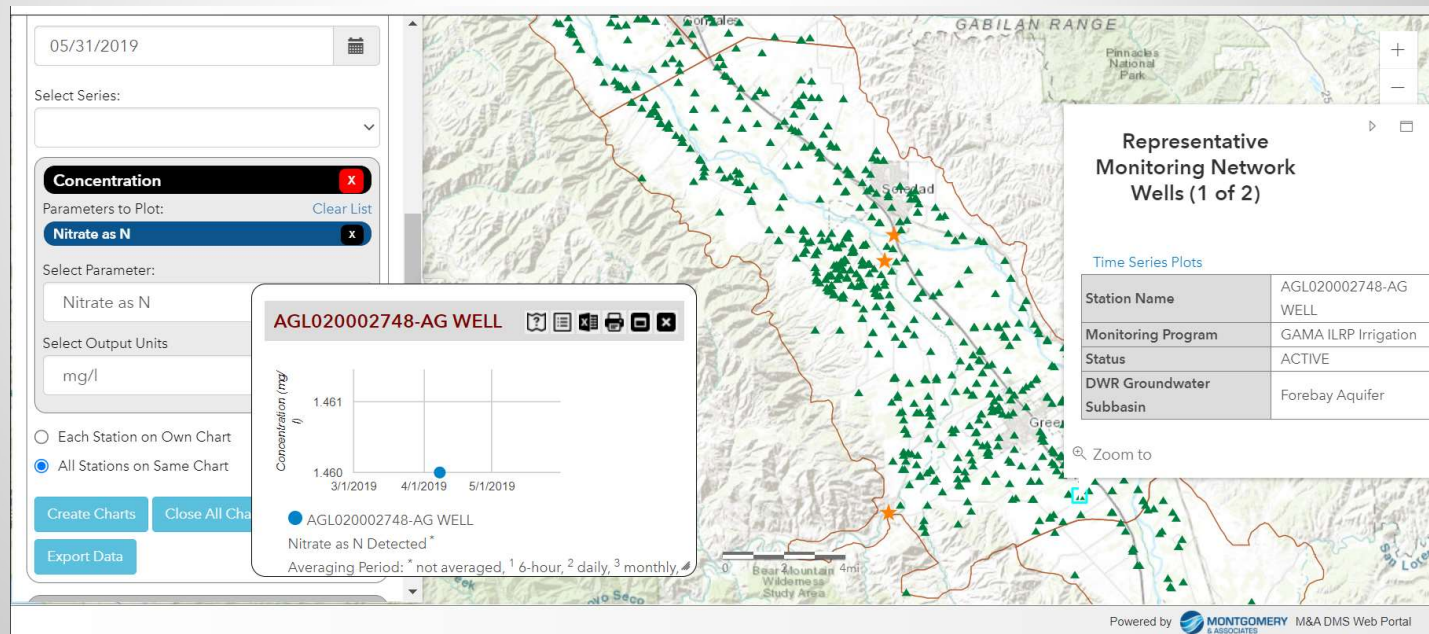



Data, Monitoring, and Reporting: Annual Monitoring and Reporting

- Groundwater elevation monitoring network consists of the 11 existing CASGEM wells and 48 additional wells
- Groundwater elevation and extraction data will come from MCWRA
- Groundwater quality monitoring network consists of 53 public water system supply wells and 619 ILRP wells (323 – irrigation, 296 – on-farm domestic)
 - Network will be adjusted to include wells in Ag Order 4.0
 - Data will be downloaded from GeoTracker GAMA annually
- Land subsidence InSAR data will be downloaded annually, if available
- Interconnected surface water monitoring is in the process of being established

Data, Monitoring, and Reporting: Updating the Data Management System (DMS)


- As data is received and downloaded for Annual Reports, it will also be added to the DMS and Web Map, similar to what is being done for the 180/400-Foot Subbasin





Data, Monitoring, and Reporting: Improving Monitoring Networks

- Groundwater elevation, quality, subsidence monitoring networks provide adequate coverage of the Subbasin
- GEMS provides sufficient coverage but with slightly different boundaries and will be expanded
- Interconnected surface water network will consist of 3 existing wells and one new shallow well, which are located nearby USGS gauges or a MCWRA River Series measurement location



Data, Monitoring, and Reporting: Address Gaps in the Hydrogeologic Conceptual Model (HCM)

- Aquifer properties assessment
 - To understand groundwater flow directions and magnitude, and they can help delineate the differences between the Arroyo Seco Cone and the greater Forebay Subbasin
 - To develop better estimates of aquifer properties, the SVBGSA will identify up to three wells for aquifer testing
- Lithologic and hydrostratigraphic data collection for Deep Aquifers
 - To improve the understanding of the aquifer properties and potential groundwater-surface water relationships and help map the vertical and horizontal extents of the Deep Aquifers
 - Data gaps can be filled during the drilling and installation of new monitoring wells
- These data will inform future development location decisions, injection or recharge project locations, and overall groundwater management directions to continue to use the aquifer sustainably under all climatic and future development conditions



Communication and Stakeholder Engagement

► Communication on GSP Implementation

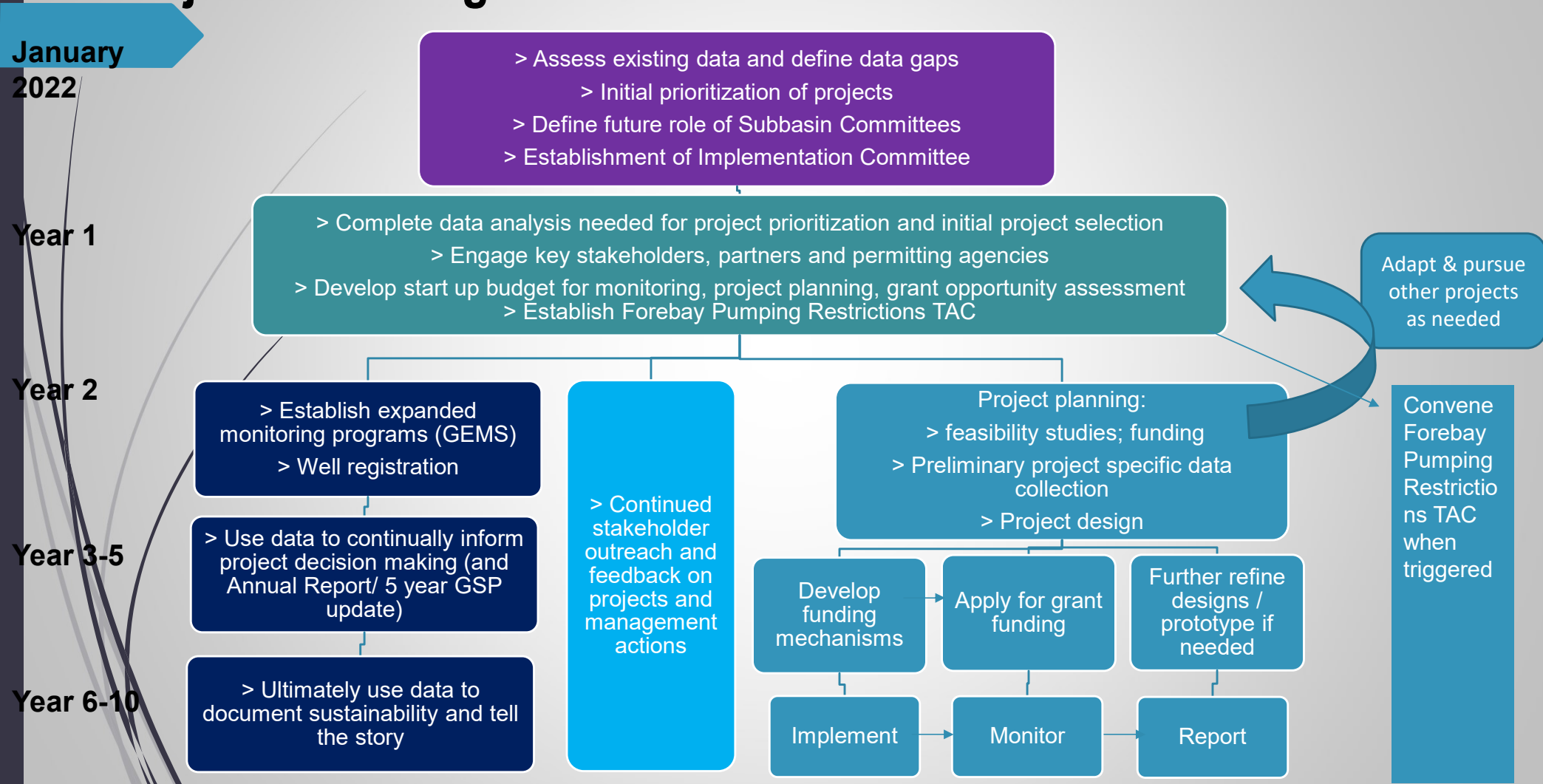
- Annually, as data are analyzed for the annual report, SVBGSA will undertake additional outreach to share the data, analysis, and its relevance for projects, management actions, and other implementation activities.
- Reaching sustainability through projects and management actions will involve:
 - Engagement of stakeholders and other decision-making processes, including the Forebay Subbasin Committee (under discussion)
 - Outreach to interested and potentially affected stakeholders through engagement strategies



Communication and Stakeholder Engagement

- Engagement in Governance and Partnerships
 - Includes involvement with the Integrated Planning Committee
- General Outreach on Groundwater
 - Further pursue outreach to ensure stakeholders are aware of SVBGSA efforts
 - Promote broader awareness of groundwater conditions and management through means such as workshops, Map Portal, FAQs
- Engagement of Underrepresented Communities
 - Engage more constructively with Underrepresented Communities, including activities such as workshops, identifying their concerns and needs for engagement, planning listening sessions around GSA milestones, developing “resource hub” for support, and convening partnership group on domestic entities

Projects & Management Actions: Timeline



Forebay Projects & Management Actions Road Map

DRAFT

January 2022
Year 1
Year 2
Year 3-5
Year 6-10

FOREBAY PUMPING RESTRICTIONS TAC

Establish TAC and its guiding principles, membership, and decision making process

Convene annually and develop potential pumping restrictions when triggered

IMPLEMENTATION ACTIONS

Data collection

Engage key agencies and stakeholders

Expand groundwater level monitoring network

Expand GEMS

Begin well registration

Establish Domestic Water Partnership and Local Groundwater Elevation Trigger

Use data for project decision making

Ultimately use data to document sustainability and tell the story

RESERVOIR REOPERATION PROJECTS

Develop TAC when triggered

Collaborate with MCWRA on the following:

Further analyze and compare other projects that would result in reservoir reoperation

Examine and alter if needed water rights and permitting

Model benefits to UV groundwater

Analyze flood mitigation potential, habitat impacts, recharge benefits, and interaction with other projects

RECHARGE AND RIVER PROJECTS

Multi benefit Stream Channel Improvements begin immediately under existing permits

For Overland Flow MAR, If needed or if work in other subbasins can be leveraged:

Outreach to landowners

Identify suitable sites and do site analysis if needed

Permitting

Apply for grants/establish funding mechanism

MANAGEMENT ACTIONS

If needed or if work in other subbasins can be leveraged:

Promote Ag BMPs through workshops or extension work

Develop program to fallow/retire land in areas of declining elevations



5-year Update

- First update set for 2027
- Used to assess progress towards sustainability goal or to show how sustainability has been maintained
- Should include any significant new information or changes that have been made after GSP is submitted in 2022

Start-up Budget and Funding Strategy

- Builds on January Funding Workshop
- SVBGSA Operational Fee
 - Based on connections and irrigated acreage
- Start-up Budget
 - Start to filling data gaps, monitoring, reporting, communication and stakeholder engagement, and undertake project planning activities
- Funding for Projects and Management Actions

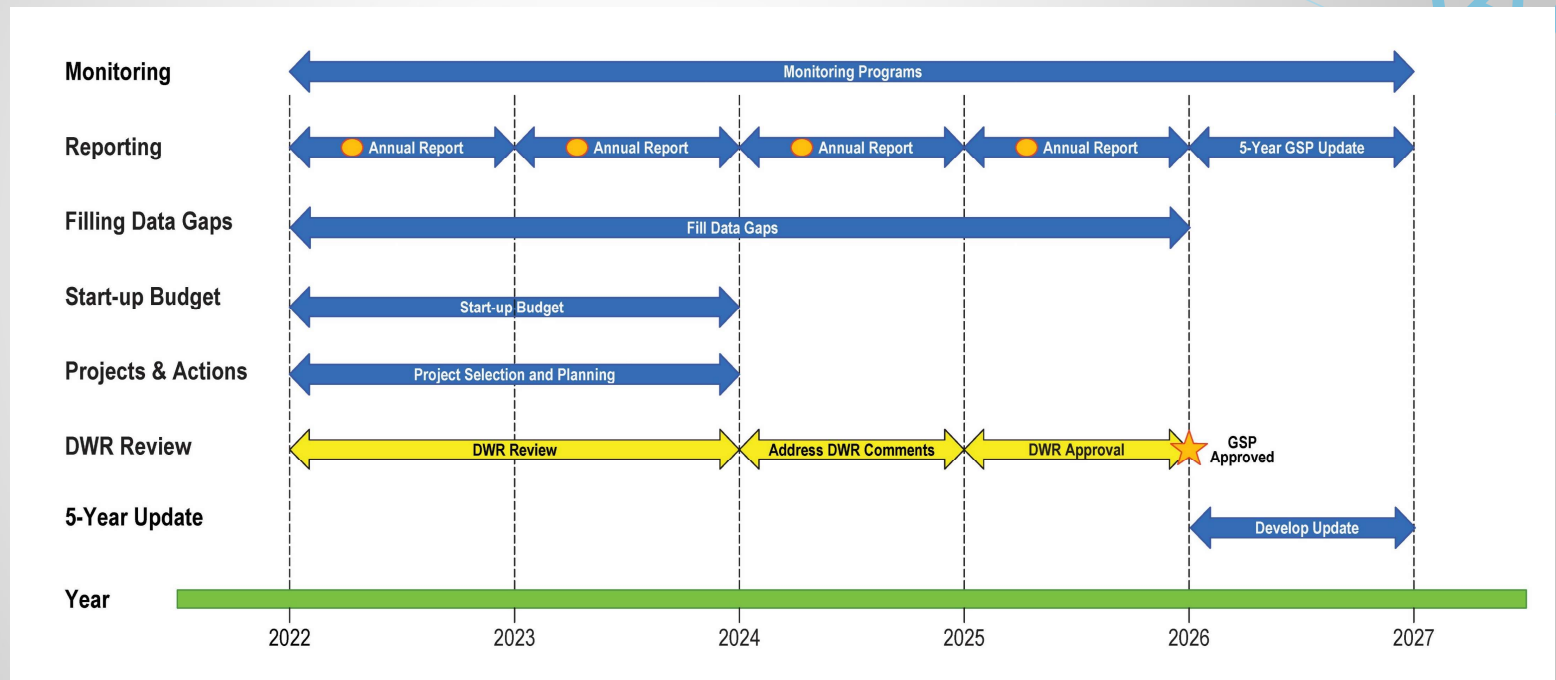




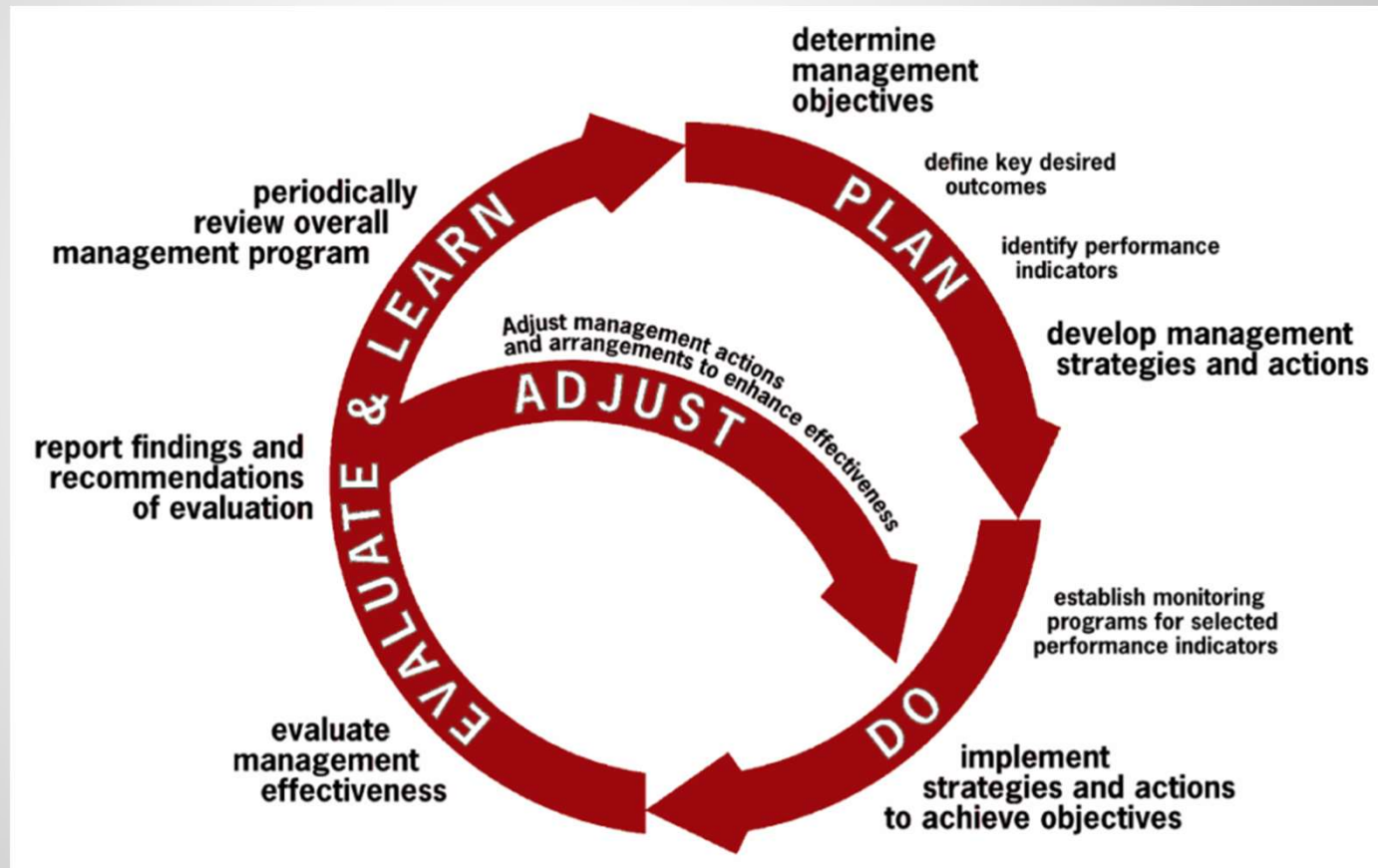
Funding Strategy for Projects and Management Actions

- **Grant funding** – SVBGSA will pursue grants to the extent possible.
- **Contributions from partner agencies, organizations, and companies** – Where appropriate, SVBGSA will work with partners to solicit contributions for joint implementation.
- **Benefit assessment (218 vote)** – For projects with considerable capital cost or that benefit multiple subbasins, SVBGSA could hold a 218 vote to levy an assessment based upon the special benefits conferred from a specific project. Before doing so, SVBGSA will undertake a benefits analysis.
- **Fee** – Fees may be collected for a variety of purposes, such as funding a regulatory program or providing a product or service. Fees cannot exceed the cost of running the program or providing the product or service.
- **Fines and Penalties** – With the establishment of an ordinance, SVBGSA has the authority to impose fines and penalties, such as may be associated with a regulatory program. Funds must be put back into the program.
- **Special tax** – SVBGSA has the authority to levy a special tax for a specific purpose, such as a parcel tax or some sales tax components. This requires a 2/3 vote of the electorate.

Implementation Schedule



Adaptive Management





Questions

