

Salinas Valley Basin GSA


Implementation Chapter Update



Presented to Langley Area
Subbasin Committee
May 5, 2021

Prepared by






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

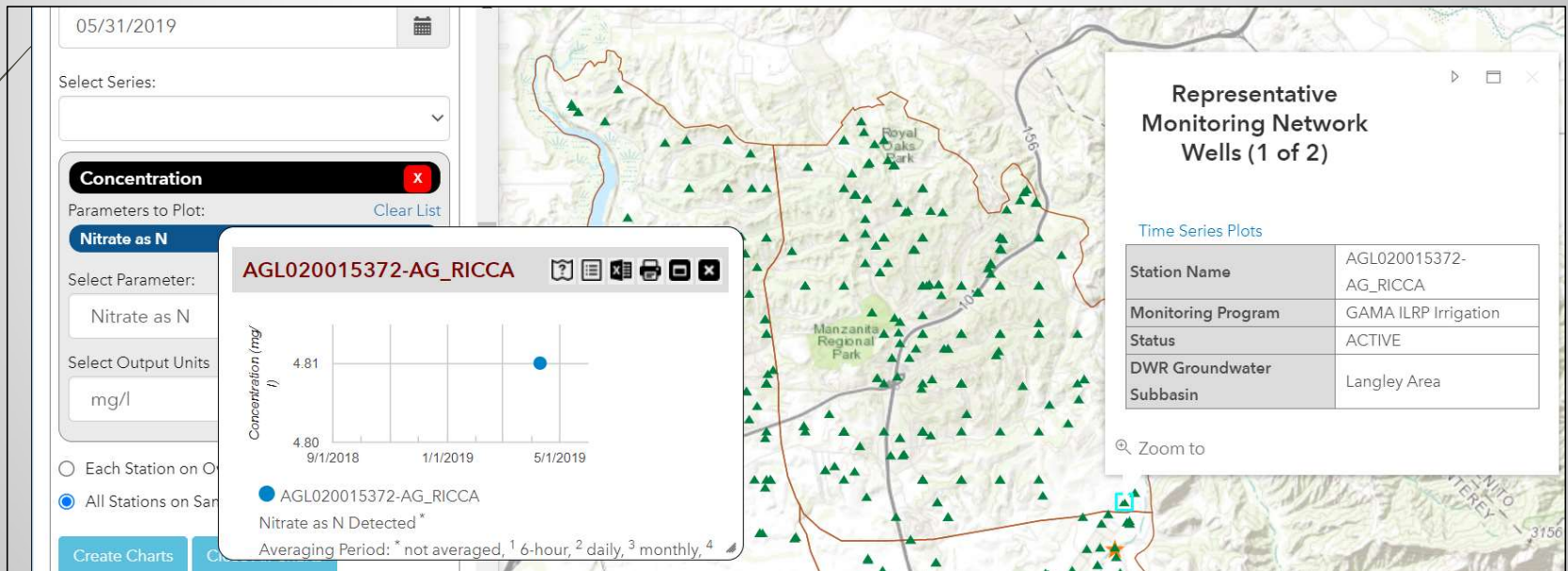



Data, Monitoring, and Reporting: Annual Monitoring and Reporting

- ▶ Groundwater elevation monitoring network consists of the 3 existing CASGEM wells and 13 additional wells
- ▶ Groundwater elevation, extraction, and seawater intrusion data will come from MCWRA
- ▶ Groundwater quality monitoring network consists of 192 public water system supply wells and 15 ILRP wells (12 – irrigation, 3 – on-farm domestic)
 - ▶ Network will be adjusted to include wells in Ag Order 4.0
 - ▶ Data will be downloaded from GeoTracker GAMA annually and analyzed
- ▶ 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 and Web Map


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





Data, Monitoring, and Reporting: Improving Monitoring Networks

- ▶ Seawater intrusion, groundwater quality and subsidence monitoring networks provide adequate coverage of the Subbasin
- ▶ Groundwater elevation monitoring network needs at least 4 new wells to fill data gaps
- ▶ Groundwater storage data gaps require MCWRA and SVBGSA will work together to expand GEMS to cover the entire subbasin
- ▶ Interconnected surface water network will consist of one new shallow well, which will correspond with the USGS Gabilan Creek stream gauge



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

- ▶ Aquifer properties assessment
 - ▶ Aquifer properties are important to understand groundwater flow directions and magnitude, and to better inform the model and improve model results
 - ▶ To develop better estimates of aquifer properties, the SVBGSA will identify up to three wells for aquifer testing
- ▶ Lithologic and hydrostratigraphic data collection
 - ▶ This will help improve the understanding of the aquifer properties and potential groundwater-surface water relationships, and help map the underlying granite bedrock
 - ▶ 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 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 Langley 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

Langley Projects & Management Actions Road Map

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

IMPLEMENTATION ACTIONS

- Data collection
- Engage key agencies and stakeholders
- 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

PUMPING ALLOCATIONS AND CONTROL

- Outreach and stakeholder engagement
- Establish allocation structure
- Develop pumping controls

RECHARGE PROJECTS

- Outreach to landowners
- Identify suitable sites and do site analysis if needed
- Permitting
- Apply for grants/establish funding mechanism

CROSS-BOUNDARY PROJECTS

If/when other subbasins move forward with these

- CSIP expansion and ES floodplain enhancement and recharge
- Work to ensure Langley interests are accounted for in design and implementation of project

Projects & Management Actions: Timeline

January
2022

- > Assess existing data and define data gaps
- > Initial prioritization of projects
- > Define future role of Subbasin Committees
- > Establishment of Implementation Committee

Year 1

- > Complete data analysis needed for project prioritization and initial project selection
- > Engage key stakeholders, partners and permitting agencies
- > Develop start up budget for monitoring, project planning, grant opportunity assessment
- > Begin development of pumping allocations

Adapt & pursue other projects as needed

Year 2

- > Establish expanded monitoring programs (GEMS)
- > Well registration

- > Continued stakeholder outreach and feedback on projects and management actions

Project planning:

- > feasibility studies; funding
- > Preliminary project specific data collection
- > Project design

Finish development of pumping allocations and enact controls if necessary

Year 3-5

- > Use data to continually inform project decision making (and Annual Report/ 5 year GSP update)

Develop funding mechanisms

Apply for grant funding

Further refine designs / prototype if needed

Year 6-10

- > Ultimately use data to document sustainability and tell the story

Implement

Monitor

Report



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



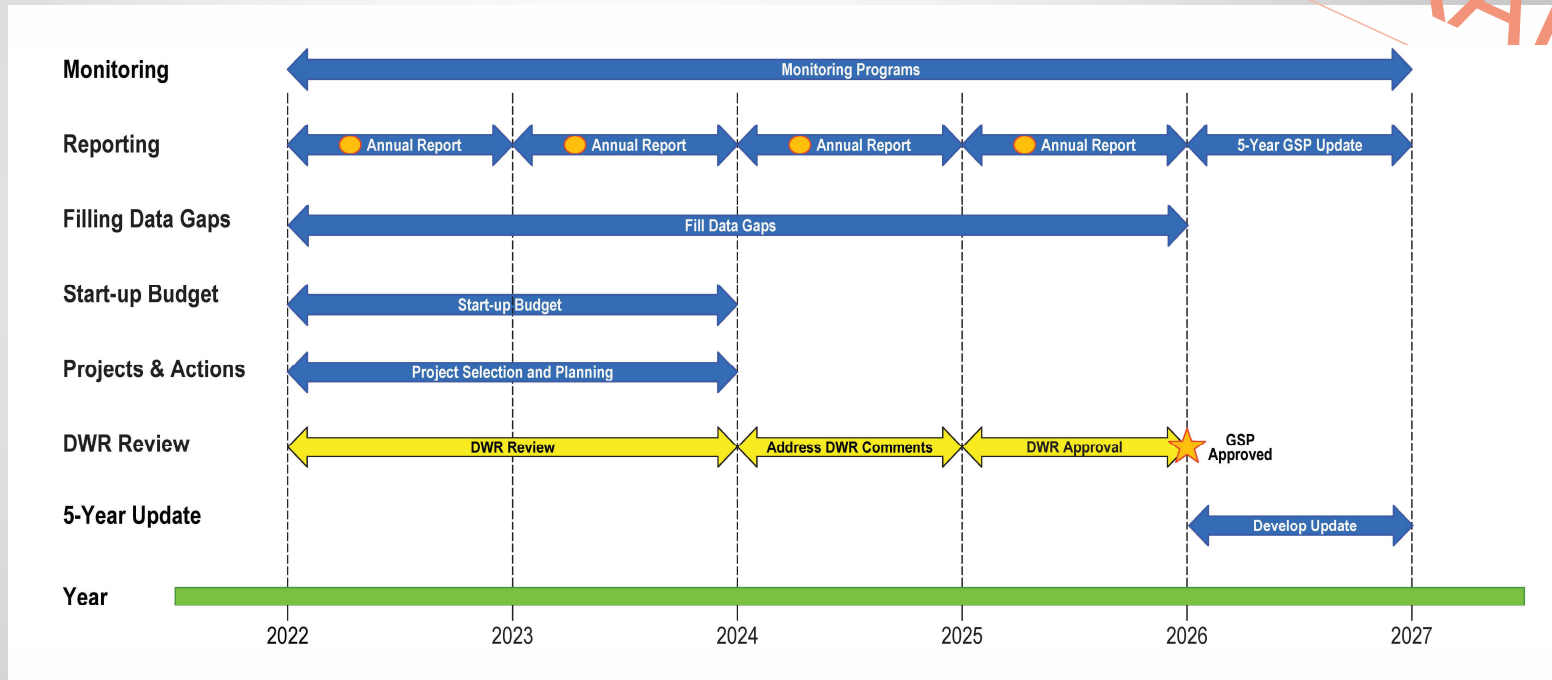


Funding Strategy for Projects and Management Actions

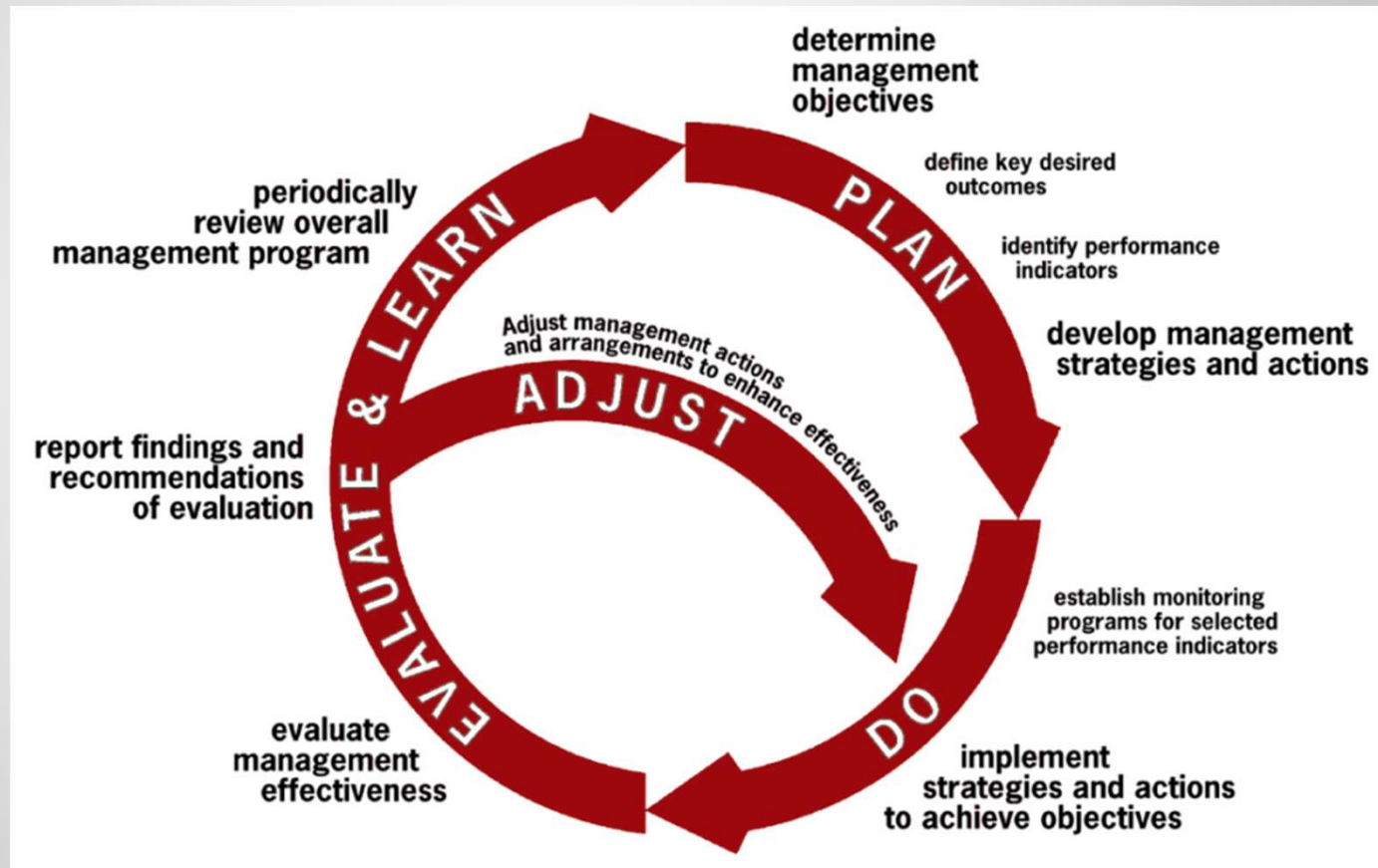
- ▶ **Grant funding** – SVBGSA will pursue grants to the extent possible.
- ▶ **Contributions from partner agencies, organizations, and companies** – Where appropriate, SVBGSA will work with partners to solicit contributions for joint implementation.
- ▶ **Benefit assessment (218 vote)** – For projects 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. This includes pumping fees. 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

DRAFT



Adaptive Management





Questions

