

10. Plan Implementation

This section describes in general how the NASb GSAs will implement our GSP. Successful implementation requires committed human resources, sufficient and sustained funding, and specific actions to be undertaken in appropriate timeframes.

10.1 Plan Implementation Staffing

The NASb GSAs have entered into an MOA for the implementation of this GSP, which will include management of the Subbasin along with projects and management actions. The GSAs have designated the SGA GSA as the lead agency with DWR and as the GSA Coordinator. The role of the coordinator includes ensuring that all required submittals to the State are provided in a timely fashion, that the GSAs meet and coordinate on a regular basis for successful GSP implementation and coordinate activities and findings with adjacent subbasins. SGA has been an ongoing groundwater management agency with permanent staffing since 1998, so it is well-positioned to serve in this role. The GSAs have designated the West Placer GSA as the GSA Administrator. The administrator will serve in an important coordination and documentation role for the GSAs as well as to ensure that effective outreach continues during GSP implementation. Placer County has assigned a senior-level planner to serve in this role. Each GSA is committed to actively serving on the GSA Committee and will provide either in-kind staffing or consulting support services to implement the GSP. **Appendix A** provides a copy of the GSP Implementation MOA.

10.2 Implementation Costs and Funding

Table 10-1 provides an estimate of the shared common expenses over the first five years of GSP implementation, which is subject to change. Note that these expenses do not include the in-kind time that each GSA will contribute or other expenses related to groundwater management that each GSA may perform that is unique to its area. The estimate also does include expenses that other agencies will provide for projects and management actions. For example, the conjunctive use expansion expenses will be borne by participating agencies developing the Sacramento Regional Water Bank. Finally, the budget below does not include the small number of new monitoring wells needed that were identified as potential data gaps. At this time, the NASb GSAs are pursuing assistance through the DWR Technical Support Services Program (TSS) to construct new monitoring wells that were identified as data gaps. The TSS will fund the construction of monitoring wells at no cost to GSAs, other than for local in-kind assistance in completing the project. In the event that support is not provided, the GSP Implementation MOA includes a 20 percent contingency budget of the total estimated budget that could be used for that purpose.

Table 10-1 also provides the funding contributions of each GSA to cover the five-year budget. The NASb GSAs have agreed to use their relative geographic areas within the NASb to determine the funding distribution for the first five years of implementation.

Table 10-1. Five-year Budget and Funding Sources

Budget Item Description/Year	2022	2023	2024	2025	2026
Regulatory Requirements					
Groundwater Level Monitoring	\$7,300	\$7,500	\$7,700	\$7,900	\$8,100
Biennial Water Quality Monitoring	\$0	\$25,000	\$0	\$25,000	\$0
Annual Reports	\$65,000	\$50,000	\$40,000	\$40,000	\$40,000
5-Year GSP Assessment/Update	\$0	\$0	\$0	\$125,000	\$125,000
Modeling Support and Update	\$20,000	\$20,000	\$20,000	\$150,000	\$90,000
Data Management System Maintenance and Upgrades	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Program Management and Administrative Expenses					
NASb GSA Coordination Meetings	\$3,800	\$3,800	\$3,800	\$3,800	\$3,800
Public Outreach	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Website Maintenance	\$4,000	\$4,500	\$5,000	\$5,500	\$6,000
GIS Mapping Support	\$3,800	\$4,000	\$4,200	\$4,400	\$5,000
Lead Agency Administration	\$6,200	\$6,500	\$6,900	\$14,800	\$16,000
Projects and Management Actions					
Well Permit/Construction Practices	\$12,500	\$12,500			
Domestic/Shallow Well – Data/Communication Program	\$12,500	\$12,500			
GDE Assessment Program	\$20,000	\$10,000	\$10,000	\$ 7,500	\$ 7,500
Total Shared Costs					
Annual Estimated Cost	\$166,100	\$167,300	\$108,600	\$394,900	\$312,400
5-year Total Cost					\$1,149,300
Average Annual 5-year Cost	\$229,860	\$229,860	\$229,860	\$229,860	\$229,860
Estimated Average Annual Contribution by GSAs					
SGA	\$83,171	\$83,171	\$83,171	\$83,171	\$83,171
West Placer	\$76,912	\$76,912	\$76,912	\$76,912	\$76,912
SSWD	\$44,521	\$44,521	\$44,521	\$44,521	\$44,521
Sutter County	\$13,583	\$13,583	\$13,583	\$13,583	\$13,583
RD1001	\$11,673	\$11,673	\$11,673	\$11,673	\$11,673

10.3 Implementation Activities

Groundwater management is a continuous ongoing process in the NASb. **Table 10-2** provides a partial list of the implementation actions needed for successful management of the Subbasin.

Table 10-2. Summary of Implementation Actions

Monitoring	
Groundwater Elevation Monitoring	
<ol style="list-style-type: none"> 1. Continue ongoing semi-annual monitoring of the groundwater elevation monitoring network. 2. Conduct confirmation water level monitoring as needed. 3. Download transducer data semi-annually. 	
Groundwater Quality Monitoring	
<ol style="list-style-type: none"> 1. Download public supply well water quality monitoring data for TDS and Nitrates from the State DDW by December 31 of each year for MT and MO evaluation. 2. Download data for Arsenic, Hexavalent Chromium, Iron, and Manganese from DDW as it becomes available for individual public supply wells and observe for trends. If future upward trends emerge for these constituents, assess if establishing sustainable management criteria for them would be beneficial. 3. Collect water quality samples in the shallow water quality monitoring network in the Fall of odd numbered years (e.g., 2023). 	
Subsidence Monitoring	
<ol style="list-style-type: none"> 1. No current action required unless water level MT exceedances are occurring or if optional DWR InSAR monitoring indicates a potential undesirable result. 	
Other Monitoring	
<ol style="list-style-type: none"> 1. Collect additional monitoring data (e.g., surface water stages) from CDEC on an as-needed basis (e.g., during preparation of Annual Report). 	
Data Management	
<ol style="list-style-type: none"> 1. Upload groundwater elevation data on an ongoing basis to CASGEM (or other applicable State SGMA database) within one month after semi-annual monitoring. 2. Upload water quality data from shallow monitoring well network by December 31 of each year that it is collected. 3. Update NASb Data Management System with appropriate data by December 31 of each year. 	
Data Analysis	
Sustainability Indicators	
<ol style="list-style-type: none"> 1. Review all representative groundwater levels in comparison to MOs and MTs by December 31 each year for potential emergence of undesirable results. 2. Calculate the public water supply wells TDS and N rolling averages to determine if the Subbasin in meeting MOs and MTs by January 31 each year. 3. Review shallow monitoring network TDS and N data to determine if the Subbasin in meeting MOs and MTs by January 31 of each year following its collection. 	
Annual Report	
<ol style="list-style-type: none"> 1. Complete the recurring Annual Report for review by GSAs by February 28 each year and submit to DWR by April 1 each year. 	
CoSANA Groundwater Model	
<ol style="list-style-type: none"> 1. In 2025, a comprehensive assessment and update of the CoSANA model will begin. This will be coordinated with the South American and Cosumnes subbasins. Update to the model will include the use of the most updated urban water supplier demand projections, the latest climate change projections (using multiple future projection scenarios), consideration of an extreme scenario, consideration of the model recommendations in Section 6 of the CoSANA model report included in Appendix P of the GSP. 	
Coordination and Outreach	
<ol style="list-style-type: none"> 1. Continue quarterly meetings of the NASb GSAs. 	

2. Hold at least one public meeting each year in which basin conditions will be presented and upcoming year activities will be described. The meeting will be scheduled when the Annual Report has been completed each year.
3. Meet with each adjacent subbasin at least annually. The meeting will be scheduled as the Annual Report is being prepared, so that any observations about potential concerns near common boundaries can be discussed.
4. Meet with County and City land use planning staff of respective counties once each year to share the results of the Annual Report and discuss any upcoming anticipated changes to land use designations or General Plans. The meetings will be scheduled shortly after the Annual Report is submitted.
5. Continue quarterly meetings of the Regional Contamination Issues Committee to identify and report on potential emerging issues of contamination or constituents of concern. The committee is facilitated by SGA staff and includes State and Federal regulatory agencies, local water agencies, responsible parties, and members of the public.

Other Management Activities

1. Fill the data gaps noted in the monitoring well network by December 31, 2024.
2. Track implementation of urban area conjunctive use program as part of Annual Report preparation. Identify if there are barriers to its planned expansion.
3. Work with the Regional Water Authority in its development of the Sacramento Regional Water Bank to ensure that it is consistent with achieving the sustainability goal of the NASb.
4. Begin technical work on well construction practices (e.g., depth and spacing) to protect the most sensitive beneficial uses and users of groundwater in the NASb. Work will commence in early 2022 and be completed by the end of 2023. This will require a cooperative effort with local permitting agencies.
5. Commence shallow/domestic well analysis in early 2022 and conclude by early 2024.
6. Commence GDE assessment management action in early 2022 and conclude major assessment by early 2024. Continue annual monitoring of GDE health.
7. Track progress on supplemental projects on an annual basis. Update progress and any information on newly proposed supplemental projects in the Annual Report.