

GSP Periodic Evaluation Description

- Required under Water Code § 10728.2
- GSP Regulations § 356.4 details components of an Evaluation
 - Is implementation meeting sustainability goals?
 - Compare current GW conditions over the evaluation cycle to SMCs
 - Demonstrate that progress over the evaluation period will achieve the sustainability goal
 - Provide an assessment of the monitoring network
 - Any other topics regarding the GSP that have changed during the evaluation period
- Due every 5 years or whenever the Plan is amended
- Evaluation due January 2027
- Draft Periodic Evaluation has been completed as much as possible and will be updated closer to the due date (Fall 2026)

Periodic Evaluation Outline

EXECUTIVE SUMMARY

SECTION 1: NEW INFORMATION COLLECTED

SECTION 2: GROUNDWATER CONDITIONS RELATIVE TO SUSTAINABLE MANAGEMENT CRITERIA

Recommended Corrective Actions

Amendments to Sustainable Management Criteria

Current Conditions Relative to Sustainable Management

Progress Toward Achieving Sustainability

Impacts to Beneficial Uses and Users

2.1 Groundwater Levels

2.2 Groundwater Storage

2.4 Water Quality

2.5 Land Subsidence

2.6 Interconnected Surface Water

SECTION 3: STATUS OF PROJECTS AND MANAGEMENT ACTIONS

3.1 Tier I: Existing and Ongoing Projects and Management Actions

- High Capacity Well Metering
- Monitoring and Reporting
- Data Management and Modeling
- Education and Outreach
- Well Permit Ordinances
- Water Reuse
- Sierra Brooks –Wildland Urban Interface Fuels Reduction

3.2 Tier II: Potential Projects and Management Actions

Agricultural Efficiency Improvements

3Well Inventory

Groundwater Recharge / Managed Aquifer Recharge

Tier II PMAs Not Yet Initiated

SECTION 4: BASIN SETTING BASED ON NEW INFORMATION OR CHANGES IN WATER USE

- Hydrogeologic Conceptual Model
- Groundwater Conditions
- Water Use Changes and Associated Water Budget
- Model Updates

SECTION 5: MONITORING NETWORKS

- Groundwater Levels
- Groundwater Quality
- Interconnected Surface Water
- Land Subsidence
- Data Gaps Summary and Strategy

SECTION 6: GSA AUTHORITIES AND ENFORCEMENT ACTIONS

SECTION 7: OUTREACH, ENGAGEMENT, AND COORDINATION WITH OTHER AGENCIES

SECTION 8: OTHER INFORMATION

- Consideration of Adjacent Basins
- Challenges Not Previously Discussed
- Legal Challenges

Periodic Evaluation Outline and Status

Periodic Evaluation Section		Current Status and Information Sources
1	New Information Collected	Complete — Update as new information is available
2	GW Conditions Relative to SMCs	In progress, 80% Complete, waiting on additional data and analysis
3	Status of PMAs	Complete — Update as new information is available
4	Basin Setting	In progress – 25% complete
5	Monitoring Networks	75% Complete – Reviewing existing network based on newly collected information
6	GSA Authorities & Enforcement Actions	90% Complete
7	Outreach, Engagement, & Coordination	In progress, 50% complete
8	Other Information	In progress – 50% complete
9	Summary	Not yet started

Corrective Actions from GSP Determination addressed in PE

Recommended Corrective Action	Activities Completed to Address Recommended Corrective Action	Periodic Evaluation Section
1) Investigate the basin fill and bedrock units and identify the appropriate principal aquifer(s)	Reviewed available geologic and well data and defined the principal aquifer	Section 4 – Basin Setting Hydrogeologic Conceptual Model
(2) Provide more information about how data from the adjacent Chilcoot Subbasin will be utilized by the GSA during plan implementation	SVGMD reviewed groundwater level data from the Chilcoot Subbasin (via SGMA Portal/CASGEM) and confirmed minimal hydraulic connectivity.	Section 4 – Basin Setting Water Budget
(3) Provide additional information on the chronic lowering of groundwater levels sustainable management criteria, including the specific level(s) where effects that the GSA considers significant and unreasonable would constitute specific undesirable results that the GSA seeks to avoid by managing groundwater levels to avoid these minimum thresholds.	PE has added more specific quantitative criteria for the SMCs defining undesirable results as >5% of wells where the minimum threshold (4476-5061 MSL) is exceeded.	Section 2.1.1 – SMCs for Groundwater Levels

Corrective Actions from GSP Determination addressed in PE

Recommended Corrective Action	Activities Completed to Address Recommended Corrective Action	Periodic Evaluation Section
(4) Providing a rationale for why water quality conditions in 2021 were selected	The 2021 dataset was selected as the baseline because it represents the first comprehensive and quality-assured sampling event conducted under standardized methods across the Basin. Earlier data from 2015 were incomplete and not spatially representative. Analysis confirms 2021 concentrations are within historical ranges and suitable for trend evaluation.	Section 2.4.1 – SMCs for Water Quality
(5) Clarify the definition of undesirable results for land subsidence and establishing sustainable management criteria based on surface elevation changes	Subsidence monuments have been added to the monitoring network to collect data to allow direct measurement of surface elevation changes	Section 2.5.1 – SMCs for Subsidence

Corrective Actions from GSP Determination addressed in PE

Recommended Corrective Action	Activities Completed to Address Recommended Corrective Action	Periodic Evaluation Section
(6) Continue to fill data gaps, collect additional data, coordinate with resources agencies and interested parties to understand beneficial uses that may be impacted by depletions of interconnected surface water caused by pumping, and potentially refine sustainable management criteria	Installed shallow wells near wetlands and recharge projects. Data will be collected over the next 5 years to address data gaps and further characterize impacts from groundwater pumping.	Section 2.6.1 – SMCs for Interconnected Surface Water
(7) Providing updates to the monitoring network	Inventory of all monitoring wells with construction details completed, water-quality network defined with updated sampling frequency	Section 6 - Monitoring Networks

Work Completed Under DWR Grant

Component 2: GSP Updates

- Periodic Evaluation Draft
- Annual Reports
- Updates to Model
 - Modified model to better simulate observed climatic and hydrologic conditions
 - Ran scenarios for climate change, irrigation efficiencies and groundwater recharge
- Improvements to Data Management System and Updates to DMS Manual
- Updates to Monitoring Network to Address Data Gaps
 - Addition of shallow wells near wetlands and recharge projects
 - Additional monitoring wells near recharge projects
 - Addition of 4 subsidence monuments and use of monthly satellite data for subsidence

- Updates to Monitoring Network (cont.)
 - Conducted additional water quality monitoring
 - Updated GDE maps and inventory of special status bird species

Component 3: Well Inventory

- Reviewed County records and other information for 574 wells to update locations and well construction information
- Incorporated new information into model and DMS

Component 4: Irrigation Efficiencies

- Farm Assessments
- Installation of high efficiency sprinklers, soil moisture sensors and other equipment to reduce groundwater pumping due to decrease in demand

Component 5: Groundwater Recharge

- Identification of suitable locations for groundwater recharge
- Issuance of 2 180-day temporary permits and 1 5-year permit to allow diversion for recharge
- Design, construction and implementation of 4 recharge projects near Smithneck and Staverville Creeks and 3 in-lieu recharge projects near Little Last Chance Creek