

## **Appendix ES-A**

### **Summary of Sections that Meet GSP Regulations §356.4**

Table 1. Summary of Sections that Meet GSP Regulations §356.4

<b>GSP Regulations §356.4</b>	<b>GSP Amendment 1</b>	<b>GSP 2025 Evaluation</b>
<p>(a) A description of current groundwater conditions for each applicable sustainability indicator relative to measurable objectives, interim milestones and minimum thresholds.</p>	<p>2020 groundwater conditions are compared to SMC in Chapter 8 (8.6.2, 8.6.3.2, 8.7.2, 8.7.3.2, 8.8.2, 8.9.2, 8.10.2, 8.11.2, 8.11.3.2). In GSP Amendment 1, the Depletion of ISW included in Chapter 5 was completed using the SVIHM. Additionally, the SMC approach is changed for Reduction in Groundwater Storage and Depletion of ISW, but the intent of the SMC is not changed. Therefore, since the 2020 GSP established minimum thresholds for these indicators based on 2017 conditions, the updated minimum thresholds also are based on 2017 conditions.</p>	<p>Section 2 of the GSP 2025 Evaluation includes current conditions through WY 2023 (last available year of data prior to drafting). Groundwater conditions are compared to the measurable objectives, 2025 interim milestones, and minimum thresholds for each sustainability indicator. Section 2 also describes the revisions to SMC included in GSP Amendment 1.</p>
<p>(b) A description of the implementation of any projects or management actions, and the effect on groundwater conditions resulting from those projects or management actions.</p>	<p>A description of the actions taken toward implementing projects and management actions are described in Chapter 10 (Section 10.1.3), as of 2022 when GSP Amendment 1 was drafted. MCWRA's well destruction program has prevented further vertical migration of seawater intrusion through well destruction. Other activities contribute significant steps that advance the planning, modeling, and funding of projects and management but have yet to result in changes to groundwater conditions. GSP Amendment 1 notes that SVBGSA's receipt of a \$7.6 million SGM Implementation Grant will fund implementation of projects and further feasibility studies.</p>	<p>Section 3 of the GSP 2025 Evaluation updates the GSP Amendment 1's description of implementation of projects and management actions with progress through the end of 2024.</p>
<p>(c) Elements of the Plan, including the basin setting, management areas, or the identification of undesirable results and the setting of minimum thresholds and measurable objectives, shall be reconsidered and revisions proposed, if necessary.</p>	<p>The basin setting description generally consists of the same information as the 2020 GSP. Revisions include clarifications and additions based on new information and analyses, as noted in section (d) below. No management areas have been added.</p> <p>Chapter 2 Communications and Public Engagement developed based on previous Chapter 11 and additional information to address DWR Recommended Corrective Action 1 on how SVBGSA will provide additional information on the required, ongoing communications elements.</p> <p>Chapter 4 Hydrogeologic Conceptual Model includes greater description on ISW and GDEs in discharge areas. Greater detail added to address DWR Recommended Corrective Action 2 on the hydraulic connectivity between the Salinas River, the non-principal shallow sediments, and principal aquifers. Greater detail added to address DWR Recommended Corrective Action 3 on how SVBGSA plans to conduct field reconnaissance for GDE identification.</p> <p>Regarding the SMC, the minimum thresholds, measurable objectives, and interim milestones for the expanded groundwater level monitoring network are added to GSP Amendment 1 (Sections 8.6.2 and 8.6.3.2). The approach and measurement method are updated for Reduction in Groundwater Storage SMC (Sections 8.7) and for ISW SMC (Sections 8.11)</p>	<p>The GSP 2025 Evaluation summarizes revisions to the elements of the GSP included in GSP Amendment 1. New data collected and analyses conducted since then are described and recommended for inclusion in a future amendment, such as the revisions to the Hydrogeologic Conceptual Model.</p>

	<p>in GSP Amendment 1 (for example, shifting the Storage SMC from extraction to calculated storage change). The intent of the minimum thresholds, measurable objectives, and undesirable results is not changed (for example, basin the Storage SMC on 2017 conditions). In Chapter 5 Groundwater Conditions, the change in storage calculation was revised to include aquifer specific storage change calculations for the 180-Foot and 400-Foot Aquifers. Chapter 5 also includes another calculation for the whole Subbasin to adequately compare current conditions to the SMC presented in Chapter 8. In addition, the storage change calculated for the Subbasin is used for the water budget, as explained in (d).</p> <p>The undesirable results statement for Degraded Groundwater Quality has been updated based on DWR's review of the 2020 GSP.</p> <p>The analysis of groundwater quality is updated to include review of all Title 22 constituents, not just those identified as present within the Subbasin. Chapter 5 Groundwater Conditions is updated to include data up to 2020, which was the most recent at the time GSP Amendment 1 development began. The water quality analysis included in Chapter 5 was updated to include all the wells that have been historically monitored in the Subbasin and those that continue to be monitored today under the DDW and ILRP monitoring programs. This analysis of all constituents is used to update the Water Quality SMC. The intent of the SMC is still the same as in the 2020 GSP, but the analysis is updated to include all Title 22/Basin Plan constituents and all wells that have been sampled in the Subbasin, thus providing a better representation of historical and current conditions. 10.1.1 explains how the monitoring networks were expanded.</p>	
<p>(d) An evaluation of the basin setting in light of significant new information or changes in water use, and an explanation of any significant changes. If the Agency's evaluation shows that the basin is experiencing overdraft conditions, the Agency shall include an assessment of measures to mitigate that overdraft</p>	<p>Chapter 3 Basin Setting includes an additional section on the County Public Policy of Safe and Clean Water (3.8) and updates on County ordinances (Section 3.6.5).</p> <p>Chapter 4 Hydrogeologic Conceptual Model includes a new analysis and greater description of the shallow sediments and their connection to underlying aquifers (Section 4.4.1.1), which addresses Corrective Action #2 of DWR's review of the 2020 GSP. In addition, new data on the Deep Aquifers, new analyses on the locations of interconnected surface water (Section 4.4.5.1), and a new section on groundwater dependent ecosystems (Section 4.4.5.2) are added to the Hydrogeologic Conceptual Model.</p> <p>Chapter 5 Groundwater Conditions now includes a new water use section (Section 5.7) that discusses the different types and quantities of water used in the Subbasin. The data included in this section ranges from 2017 (current conditions in the 2020 GSP) to 2020 (current conditions in GSP Amendment 1) to show how water use has changed since GSP submittal.</p>	<p>The GSP 2025 Evaluation summarizes new information collected in Section 1 and describes changes to the understanding of the basin setting based on this new information in Section 4. Updated water use is included in Section 2. Section 3 provides an update on projects and management actions that would be needed to mitigate overdraft conditions.</p>

	<p>Chapter 5 also includes an updated calculation for historical change in groundwater storage based on observed groundwater elevations.</p> <p>Chapter 6 Water Budgets use the annual average calculated change in storage based on observed conditions due to model uncertainties. The calculated change in storage is also used for the projected water budget because the simulated projected change in storage is anticipated to be similar to simulated historical change in storage change due to assumptions of static land use and similar urban pumping. The long-term sustainable yield and overdraft are based on anticipated extraction, change in storage based on observed groundwater elevation declines that occurred for similar levels of extraction, and change in storage based on observed seawater intrusion that occurred with similar levels of extraction.</p> <p>Chapter 9 Projects and Management Actions includes a section (Section 9.9) that addresses mitigation of overdraft. Chapter 10 GSP Implementation includes progress on projects and management actions, including to mitigate overdraft. As the GSP Amendment 1 was only undertaken 2 years after submittal of the 2020 GSP, most actions are planning, modeling, and funding of projects and management actions; however, SVBGSA recently secured funding to begin implementation of certain projects.</p>	
<p>(e) A description of the monitoring network within the basin, including whether data gaps exist, or any areas within the basin are represented by data that does not satisfy the requirements of Sections 352.4 and 354.34(c). The description shall include the following:</p> <p>(1) An assessment of monitoring network function with an analysis of data collected to date, identification of data gaps, and the actions necessary to improve the monitoring network, consistent with the requirements of Section 354.38.</p> <p>(2) If the Agency identifies data gaps, the Plan shall describe a program for the acquisition of additional data sources, including an estimate of the timing of that acquisition, and for incorporation of newly obtained information into the Plan.</p> <p>(3) The Plan shall prioritize the installation of new data collection facilities and analysis of new data based on the needs of the basin.</p>	<p>Chapter 7 Monitoring Networks includes the groundwater level monitoring network that is expanded in GSP Amendment 1. GSP Amendment 1 notes that as of 2022, data gaps still existed, particularly in the Deep Aquifers, as is noted in the Chapter (Section 7.2.2). The groundwater storage monitoring network is the same as the groundwater level monitoring network. Monitoring of the Deep Aquifers was also a data gap for seawater intrusion monitoring network (Section 7.4.2). For ISW, 2 existing monitoring wells will be used to monitor shallow groundwater elevations as proxies for stream depletion due to pumping and 2 new wells will be identified or drilled to fill the remaining data gaps (Section 7.7.2). There are no data gaps in the water quality or subsidence monitoring networks. Although not used to measure sustainability indicators, the surface water use from the SWRCB's eWRIMS and groundwater pumping from MCWRA's GEMS are also included under Other Monitoring Networks (Section 7.8) in GSP Amendment 1. The eWRIMS network does not have data gaps, but GEMS has some potential data gaps regarding its accuracy and reliability (Section 7.8.1.2). The steps needed to improve the monitoring networks that have data gaps are included in Chapter 10 (10.2.3).</p> <p>SVBGSA received \$7.6 million under the SGM Implementation Grant, which includes funds for filling data gaps.</p>	<p>Section 5 of the GSP 2025 Evaluation includes an assessment of the GSP monitoring networks. It describes the wells added to the monitoring network within GSP Amendment 1, which filled most monitoring network data gaps. The GSP 2025 Evaluation includes further revisions to the monitoring networks completed since 2022, including newly installed wells; these are recommended for inclusion in a future amendment. The Deep Aquifers Study identified additional groundwater level monitoring network data gaps, which SVBGSA and partner agencies plan to fill.</p>

<p>(f) A description of significant new information that has been made available since Plan adoption or amendment, or the last five-year assessment. The description shall also include whether new information warrants changes to any aspect of the Plan, including the evaluation of the basin setting, measurable objectives, minimum thresholds, or the criteria defining undesirable results</p>	<p>Additional existing Deep Aquifer wells have been added to the groundwater level and seawater intrusion monitoring networks (Sections 7.2, 7.4). The Groundwater Level SMC for the Deep Aquifers are now included in Chapter 8 (Section 8.6).</p> <p>Groundwater conditions data up to 2020 has been added to GSP Amendment 1. No new information warrants significant changes to the basin setting, measurable objectives, minimum thresholds, or the criteria defining undesirable results.</p>	<p>Section 1 of the GSP 2025 Evaluation summarizes significant new information collected. Section 2 includes groundwater conditions data up to 2023 with respect to the SMC. No new information warrants significant changes to the basin setting, measurable objectives, minimum thresholds, or the criteria defining undesirable results at this time.</p>
<p>(g) A description of relevant actions taken by the Agency, including a summary of regulations or ordinances related to the Plan</p>	<p>Chapter 10 (Section 10.1) includes a new section on progress towards implementation of the GSP. Chapter 3 Description of Plan Area (Section 3.7) now includes a section on new regulations, ordinances, enforcement, and legal action.</p>	<p>Sections 6 and 7 of the GSP 2025 Evaluation summarize relevant actions taken by the Agency included in GSP Amendment 1 and since then with respect to GSA administration, legal action, funding, authorities, coordination, and outreach.</p>
<p>(h) Information describing any enforcement or legal actions taken by the Agency in furtherance of the sustainability goal for the basin</p>	<p>No enforcement or legal actions have been taken by SVBGSA, as noted in a new section in Chapter 3 (Section 3.7).</p>	<p>No enforcement or legal actions have been taken by SVBGSA, as noted in Section 6.7 of the GSP 2025 Evaluation.</p>
<p>(i) A description of completed or proposed Plan amendments</p>	<p>SVBGSA is submitting GSP Amendment 1 to DWR as an amendment to the GSP submitted in 2020. This will enable SVBGSA to complete 5-year assessments for all 6 of its subbasins simultaneously, beginning in 2027.</p>	<p>The GSP 2025 Evaluation describes GSP Amendment 1.</p>
<p>(j) Where appropriate, a summary of coordination that occurred between multiple Agencies in a single basin, Agencies in hydrologically connected basins, and land use agencies</p>	<p>Chapter 1 Introduction includes new sections to summarize coordination between GSAs (Section 1.3.1) and SVBGSA coordination with land use agencies (Section 1.3.2). Chapter 9 Projects and Management Actions includes a new implementation action titled Water Quality Coordination Group, which outlines how SVBGSA will address Recommended Corrective Action 4 and coordinate with water quality regulatory agencies and programs.</p>	<p>Section 7 of the GSP 2025 Evaluation describes GSA coordination.</p>
<p>(k) Other information the Agency deems appropriate, along with any information required by the Department to conduct a periodic review as required by Water Code Section 10733</p>	<p>GSP Amendment 1 includes an updated water budget based on provisional versions of the SVIHM and SVOM released in 2021.</p>	<p>Section 4.4 of the GSP 2025 Evaluation includes an updated water budget based on provisional versions of the SVIHM and SVOM released in 2024.</p>