

AUGUST 2021

CHAPTER 5: PLAN
IMPLEMENTATION

SISKIYOU COUNTY FLOOD CONTROL & WATER
CONSERVATION DISTRICT

Scott Valley Groundwater Sustainability Plan

PUBLIC DRAFT REPORT



**SISKIYOU COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
GROUNDWATER SUSTAINABILITY AGENCY
SCOTT RIVER VALLEY GROUNDWATER SUSTAINABILITY PLAN**

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Chapter 5. Plan Implementation

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Note: Appendix 5-B will be provided when available.

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69 Groundwater management has been conducted in the Scott River Valley Basin (Basin)
70 for decades. As described in prior sections, a variety of project and management actions
71 (PMAs) are currently, or have previously been, implemented, that support groundwater
72 levels, groundwater storage and interconnected surface waters. Existing and planned
73 PMAs will contribute to the attainment of the groundwater sustainability goal in the Basin
74 over the planning horizon of this Groundwater Sustainability Plan (GSP). These PMAs,
75 as described in Chapter 4, enable the continued use of groundwater and protection of
76 groundwater uses and users into the future.

77 In this section, the GSP implementation plan for the Basin is defined. Elements of this
78 plan include:

- 79 1) Management and Administration
 - 80 a. GSA management, administration, legal and day-to-day operations.
 - 81 b. Reporting, including preparation of annual reports and 5-year evaluations
 - 82 and updates.
 - 83
- 84 2) Implementation
 - 85 a. Implementation of the GSP monitoring program activities described in
 - 86 Chapter 3.
 - 87 b. Technical support, including model updates, data collection and other
 - 88 technical analysis.
 - 89 c. Projects and Management Actions (PMAs) as described in Chapter 4.
 - 90
- 91 3) Outreach and Education
 - 92 a. Coordination activities with stakeholders and entities in the Basin.
 - 93 b. Ongoing outreach activities to stakeholders
 - 94

95 Cost estimates and funding methods for GSP implementation are also presented in this
96 section.

97 **5.1. DESCRIPTION OF GSP IMPLEMENTATION ELEMENTS**

98 The following tasks and functions will be required for implementation of this GSP:

99 **5.1.1 Management and administration**

100 **GSA management, administration, legal and day-to-day operations**

101 GSA functions associated with the management and administration of the GSP
102 implementation activities are covered under this category, which includes the
103 administrative, technical and finance staff support and related expenses, office supplies
104 and materials, insurance, and grant writing to support funding for specific projects and/or
105 management actions. GSA staff will provide work products, administrative support, staff
106 leadership, and management for the GSA.

107 As the GSP implementation begins in February 2022, staffing support and ongoing
108 administrative and management needs will be further evaluated so that the budget can
109 be refined, as necessary. Staffing needs will be reevaluated annually during the early
110 years of GSP implementation to gain a better understanding of the support required and
111 associated costs.

112 GSA administration activities include coordination meetings with other organizations on
113 projects or studies, email communications for updating GSA stakeholders about ongoing
114 activities within the Basin, administration of projects implemented by the GSA, and
115 general oversight and coordination. Other oversight and administrative activities will occur
116 on an as-needed basis.

117 The GSA is responsible for, and authorized to take, appropriate action to achieve
118 sustainable management of groundwater within the Basin based on the authority granted
119 under Section 6 of the California Water Code. On an as-needed basis, the GSA may seek
120 legal services to assist in the interpretation of legal requirements and provide legal advice
121 during GSP implementation.

122 **Reporting, including preparation of annual reports and 5-year evaluations and**
123 **updates**

124 As part of GSP implementation starting in 2022, the GSA must prepare and submit to
125 DWR annual reports and 5-year assessments. Annual reports will be submitted to DWR
126 by April 1st of each year and an initial 5-year GSP assessment and update will be due to
127 DWR by April 2027. Requirements for each of these reports are explained below.

128 ***Annual Reporting***

129 Per Water Code Sections 10727.2, 10728, and 10733.2, SGMA regulations require the
130 GSAs to submit an annual report on the implementation of the GSP to the Department of
131 Water Resources (DWR). Development of the annual report will begin at the beginning of
132 each water year, October 1, to assess the previous water year. The report will be
133 submitted to DWR on April 1st of the following calendar year. A template for annual
134 reporting is provided as Appendix 5-B. The annual reports will be completed in a format
135 consistent with Section 356.2 of the SGMA regulations and will include three key sections:

136 ***General Information***

137 General information will include a map of the Basin and an executive summary that
138 includes a description of the sustainability goal, ongoing PMAs in the subbasin, jointly
139 funded PMAs and their progress, as well as an updated implementation schedule.

140 ***Basin Conditions***

141 This section will describe the current groundwater conditions and monitoring results, used
142 to evaluate how groundwater conditions have changed in the Basin during the previous
143 year. SGMA regulations require the following key components to be included in this
144 section:

- 145 • Groundwater elevation data from monitoring wells, including (1) groundwater
146 elevation contour maps for the principal aquifer in the Basin depicting seasonal

- 147 high and low groundwater conditions, and (2) hydrographs of historical-to-current-
148 reporting-year data showing groundwater elevations and water year type.
- 149 • Groundwater extractions during the preceding water year summarized by water
150 use sector, including a map showing the general location and volume of
151 groundwater extractions, as well as the method of measurement (direct or
152 estimate) and accuracy of measurements. Metering of groundwater extraction is
153 only included as a voluntary action and this information will be collected as the
154 PMA is implemented, also based on availability of funding.
 - 155 • Surface water supply for managed groundwater recharge or in-lieu use, including
156 the annual volume and sources for the preceding water year.
 - 157 • Total water uses by water use sector and water source type, including the method
158 of measurement (direct or estimate) and accuracy of measurements.
 - 159 • Maps of changes in groundwater storage for the principal aquifer and a graph
160 depicting historical-to--current-reporting-year water year type, groundwater use,
161 annual change in groundwater in storage, and the cumulative change in
162 groundwater storage for the Basin.

163 This information may change over time to incorporate potentially revised GSA priorities
164 and to reflect new Basin conditions and applicable SGMA requirements.

165 *Plan Implementation Progress*

166 The progress made toward achieving interim milestones, as well as implementation of
167 PMAs, will be explained in this section, along with a summary of plan implementation
168 progress and sustainability progress.

169 ***Periodic Evaluations every Five Years***

170 Per Water Code Sections 10727.2, 10728, 10728.2, 10733.2, and 10733.8, SGMA
171 regulations require the GSA to provide a written assessment of GSP implementation and
172 progress towards meeting the sustainability goal at least every five years. A similar
173 evaluation must also be submitted whenever the GSP is amended. The five-year
174 assessment reports will be completed in a format consistent with Section 356.4 of the
175 SGMA regulations and include the following elements:

176 *Sustainability Evaluation*

177 The overall Basin sustainability and current groundwater conditions for each applicable
178 sustainability indicator will be described, including progress toward achieving interim
179 milestones and measurable objectives, and an evaluation of groundwater elevations at
180 each of the representative monitoring points (RMPs) in relation to minimum thresholds.

181 *Plan Implementation Progress*

182 This section will describe the current implementation status of PMAs, along with the effect
183 on groundwater conditions resulting from their implementation, if applicable.

184 *Reconsideration of GSP Elements*

185 Elements of the GSP may require revision due to one or more of the following: collection
186 of additional monitoring data during GSP implementation; implementation of PMAs;

187 significant changes in groundwater uses or supplies and/or land uses. Such new
188 information may require revision to the following GSP elements: Basin setting, water
189 budgets, monitoring network, SMC, or PMAs.

190 *Monitoring Network Description*

191 This section will provide an assessment of the monitoring network's function, an analysis
192 of data collected to date, a discussion of data gaps and the needs to address them, and
193 identification of areas within the Basin that are not monitored in a manner commensurate
194 with the requirements of Sections 352.4 and 354.34(c) of the SGMA regulations.

195 *Consideration of New Information for Basin Setting and SMC*

196 New information made available after GSP adoption will be described and evaluated. If
197 new information would warrant a change to the GSP, including a re-evaluation of the
198 Basin setting and SMC, then corresponding revised descriptions will be included in the
199 five-year evaluation report.

200 *Regulations or Ordinances*

201 If DWR adopts new regulations that impacts GSP implementation, the update will also
202 identify and address those requirements that may require updates to the GSP.

203 *Legal or Enforcement Actions*

204 Any enforcement or legal actions taken by the GSA or their member agencies to
205 contribute to attainment of the sustainability goal for the Basin will be summarized.

206 *Plan Amendments*

207 Each five-year assessment report will include a description of amendments to the GSP,
208 including adopted amendments, amendments that are underway during development of
209 the report, and recommended amendments for future adoption.

210 *Coordination*

211 A summary of coordination that has occurred between Basin, with different agencies in
212 the Basin, or with agencies with jurisdiction over land use and well construction will be
213 incorporated in the five-year assessment report.

214 The five-year assessments will also include any other information deemed appropriate by
215 the GSA to support DWR in its periodic review of GSP implementation, as required by
216 Water Code Section 10733.

217

218 **5.1.2 Implementation**

219 **Implementation of the monitoring program activities described in Chapter 3**

220 This category covers the functions associated with monitoring activities, including logistics
221 and coordination with third party entities performing monitoring in the GSP Monitoring
222 Network and any related monitoring data management. The GSP Monitoring Networks

223 for groundwater level and groundwater quality, including the agencies performing that
224 monitoring, are detailed in Chapter 3.

225 To address data gaps (extended data gap section is presented in Appendix 3-A) that are
226 identified during GSP implementation, improvements to or expansion of the GSP
227 Monitoring Network may be necessary. In that event, additional monitoring wells,
228 monitoring well instrumentation; sampling and in-situ measurements; sample analysis;
229 and associated data management and analysis may be required in the future. Costs for
230 those facilities and activities are not addressed in this section.

231 Monitoring and data-related activities include:

- 232 • Groundwater Elevation Monitoring.
- 233 • Groundwater Quality Monitoring.
- 234 • Streamflow Monitoring.
- 235 • Monitoring data management (including data management system (DMS)
236 maintenance), data validation (QA/QC), data entry and security, and data sharing.

237

238 **Technical support, including SVIHM model updates, SMC tracking, other data**
239 **analysis and technical support**

240 **SVIHM updates** – Management activities and ongoing performance evaluation of the
241 SMC are informed by SVIHM model output, which will require periodic updates and
242 refinements as more data become available. Model updates and refinements help
243 maintain, and potentially improve, the model functionality and its capabilities in providing
244 more representative simulation results. These activities include incorporation of new
245 model tools and features, data input and model parameter updates, calibration updates
246 as additional data from the monitoring network and stream gauges is obtained, use of
247 SVIHM to update water budgets, assess water usage, and assess the status of Basin-
248 wide storage volumes, and related work to support ongoing simulations of PMAs,
249 including recharge projects.

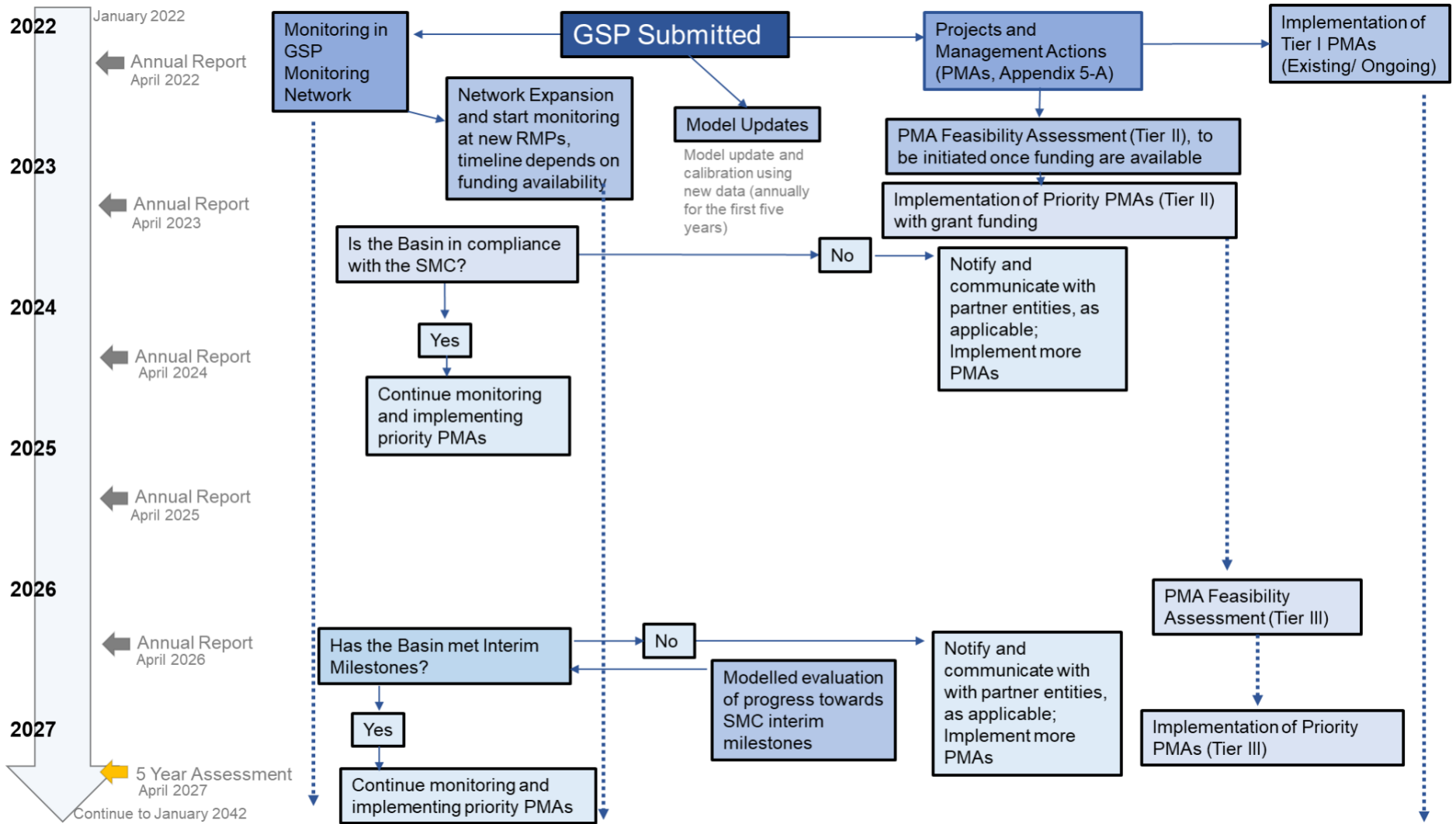
250 **SMC tracking** – synthesis of data to analyze and track the status of compliance with SMC
251 at the representative monitoring points (RMP) wells in the Monitoring Network. This
252 information will comprise an essential element of the annual reports and 5-year updates.
253 A template for SMC tracking based on the annual report requirements from DWR is
254 available in Appendix 5-B

255 **Data analysis** – Additional data analysis and associated technical support, outside of the
256 GSA’s resource capabilities, will be needed for annual reporting and 5-year GSP update
257 and outreach activities. The GSA will also have an ongoing need for technical support
258 for the Basin management, such as vulnerability assessments for climate change,
259 hydrologic technical support, assessment of managed aquifer recharge opportunities,
260 economic and funding mechanisms assessments, and studies to address data gaps. It is
261 anticipated that the GSA may also require various planning and programmatic support
262 assistance for ongoing GSP- and SGMA-related requirements.

263 Results of the monitoring program activities inform GSA actions and next steps. The
264 flowchart shown in **Error! Reference source not found.** illustrates the process and

265 decision points for the first five years of GSP implementation. This process will be refined,
266 as necessary, throughout the first five years of GSP implementation and will be updated
267 in parallel with the five-year evaluations. Further detail on the prioritization and
268 implementation timeline of PMAs can be found in the discussion of PMAs below, and in
269 Appendix 5-A.

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271 Figure 1: GSP implementation process for the first 5-years implementation. The road map is expected to be similar for the following 5-years cycles.

272

273 **Projects and Management Actions described in Chapter 4.**

274 Chapter 4 of this GSP identifies three different tiers of projects and management actions
275 (PMAs) in the Basin, as follows:

- 276 1. Tier I: Existing PMAs that are currently being implemented and are anticipated to
277 continue to be implemented.
- 278 2. Tier II: PMAs planned for near-term initiation and implementation (2022–2027) by
279 individual member agencies.
- 280 3. Tier III: Additional PMAs that may be implemented in the future, as necessary
281 (initiation and/or implementation 2027–2042).

282 The PMAs listed in Chapter 4 reflect a collection of potential options that may be
283 employed to support the sustainability goals outlined in this plan. Although PMAs have
284 been categorized into three tiers based on the anticipated timeframe for initiation and
285 implementation, **these categorizations may change as additional monitoring data,
286 information, and sources of funding are gained and as conditions change.** Tier I
287 PMAs are anticipated to continue to be implemented throughout the GSP implementation
288 period. A preliminary strategy for PMA prioritization and associated criteria, have been
289 developed for PMAs. As a first step in Plan implementation, PMAs identified in the Tier II
290 category will be ranked using criteria including the effectiveness, completeness,
291 complexity, cost, uncertainty, and level of support for the project or management action.
292 A full description of the criteria used in this evaluation and associated scoring system can
293 be found in Appendix 5-A as well as a preliminary PMA assessment table. This
294 preliminary prioritization step will be initiated immediately after submission of the GSP to
295 provide the GSA with enough time to evaluate projects feasibility and include the selected
296 projects into future funding requests. The GSA is expected to continue to refine this
297 prioritization as more information on the feasibility, costs and anticipated benefits
298 becomes available for these PMAs.

299 The management actions that will be undertaken by the GSA or in partnership with other
300 entities active in the basin, include:

- 301 • A variety of coordination activities, including:
- 302 ○ Coordination with agencies with local land use authority
 - 303 ○ Coordination with entities sponsoring major beneficial projects
 - 304 ○ Coordination to support water use efficiency measures
 - 305 ○ Coordination with Siskiyou County Environmental Health Division

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311 **5.1.3 Outreach**

312 **Coordination activities with other entities**

313 The GSA will need to budget for ongoing coordination during GSP implementation.
314 Coordination will be required with the following entities on the following topical areas:

- 315 • With agencies in the Basin with land use jurisdiction to identify and communicate
316 regarding activities that may impact Basin sustainability.
- 317 • With water supply agencies, such as irrigation districts or municipal providers, to
318 obtain updated information regarding water use efficiency programs, encourage
319 such programs, and obtain information regarding the impacts of those programs
320 on water demands.
- 321 • With entities sponsoring projects, such as recharge or efficiency improvements, in
322 the Basin that will provide benefits to attainment of sustainability goals and
323 objectives, including support for grant funding.
- 324 • With any other entities working in the Basin to support the sustainability goal and
325 aspirational watershed goal, as applicable.

326 To achieve this coordination, the GSA will need to develop governance and
327 communication processes to support these activities efficiently and effectively.

328

329 **Outreach to stakeholders**

330 Activities under this element of the GSP implementation plan include continuation of
331 education, outreach, and engagement with stakeholders, building off the framework and
332 activities established in the Communication and Engagement Plan, as described in
333 Chapter 1. Such activities performed during GSP implementation include maintaining the
334 Basin webpage on the County website and the online/social media presence, community
335 meetings, workshops, and public events. These activities may also include electronic
336 newsletters, informational surveys, coordination with entities conducting outreach to
337 diverse communities in the Basin, and development of brochures and print materials.
338 Decisions regarding the nature and extent of these outreach activities will be made by the
339 GSA.

340 **5.2 ESTIMATE OF GSP IMPLEMENTATION COSTS**

341 The implementation costs for the Scott River Valley GSP will include funding for functions
342 associated with the GSP implementation elements described above, including GSA
343 management and administration, monitoring, technical support, data management,
344 coordination, reporting, management actions, and outreach. GSP implementation costs
345 will also cover the building of sufficient fiscal reserves to address other potential costs for
346 the twenty-year implementation horizon.

347 Implementation of the GSP over the 20-year planning horizon is projected to cost between
348 \$120,000 and \$210,000 per year. Table 1 summarizes the breakdown of these costs by
349 implementation element. These costs are based on the best available estimates at the
350 time of Plan development and may vary throughout the period of Plan implementation.
351 Grant awards may offset some costs. If the GSA develops additional projects or

352 management actions during the GSP implementation period, the cost estimates will be
 353 refined and reported to DWR through the annual reports or five-year periodic
 354 assessments.

355 Development of this GSP was funded largely through a Proposition 1 Groundwater Grant
 356 Program and Proposition 68 Grant. The GSA will pursue additional grant funding for GSP
 357 implementation as it is available. In the following analysis, it is assumed that the GSA will
 358 identify other sources of funding to cover GSP implementation costs.

359 Table 1: Summary of Annual GSP Operation and Implementation Costs [PRELIMINARY]

GSP Implementation Tasks	Recurring Annual Cost
GSA Management, Administration, Legal and Day-to-Day Operations \$10,000-\$25,000	
Administrative Staff Support /Accounting	TBD
GSA management and staff support	TBD
Legal support	TBD
Data management	
Monitoring and Technical Support	
Technical Work: SVIHM maintenance	\$40,000-\$80,000
Monitoring, data analysis and management	\$45,000-\$60,000
GSP Reporting	
Annual Reports	\$10,000-\$15,000
5-Year GSP Assessments	\$10,000
GSP Management Actions	
Management Action – Coordination activities	TBD
Ongoing Outreach Activities to Stakeholders	
Outreach & Education	\$10,000-\$20,000
Contingency	
Contingency (10%)	
Total	\$120,000-\$210,000

360 **Financial Reserves and Contingencies**

361 To mitigate financial risks associated with expense overruns due to unanticipated
 362 expenditures and actual expenses exceeding estimated costs, the GSAs may carry a
 363 general reserve with no restrictions on the types of expenses for which it can be used.
 364 Adoption of a financial reserves policy is authorized by SGMA Sections 10730(a) and
 365 10730.2(a)(1). A reserve for operations usually targets a specific percentage of annual
 366 operating costs and may consider factors such as billing frequency and the recurrence of
 367 expenses to address cash flow constraints.

368 **Total Implementation Costs Through 2042**

369 The total annual cost is estimated at \$135,000 to \$230, 000 based on the best available
 370 information at the time of Plan preparation and submittal. These costs include a grant
 371 writing component in addition to the costs of GSP implementation, discussed above and
 372 presented by major budget category in Table 1.

373

374 **5.3 SCHEDULE FOR IMPLEMENTATION**

375 The final GSP will be presented to the GSA Board for adoption in November or December
 376 2021 and will be submitted to DWR no later than January 31, 2022. The preliminary
 377 schedule for agency administration, management, and coordination activities, GSP
 378 reporting, and community outreach and education are provided in Table 2. While most
 379 activities are continuous during GSP implementation, annual reports will be submitted to
 380 DWR by April 1st of each year and periodic five-year assessment reports will be submitted
 381 to DWR by April 1st every 5 years after the initiation of Plan implementation in 2022 (i.e.,
 382 assessment report submittal in 2027, 2032, 2037, and 2042).

383

Table 2: GSP Implementation Schedule

	Start	2022-2042																				
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
Data Management and Reporting																						
Milestones																						
GSP Submitted to DWR	January 2022	•																				
Groundwater Sustainability Goal Attained	January 2042																					•
Reporting																						
Annual Reporting	April 2022	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
5-Year Evaluations	April 2027						•					•					•					
Monitoring																						
Monitoring: Groundwater (all)	Quarterly or Continuous																					
Monitoring: Streamflow	Continuous																					
Monitoring: stream transects	Continuous																					
Groundwater Quality Monitoring Network Expansion	January 2022																					
Data Management	Continuous																					
Outreach and Education																						
Stakeholder Outreach and Education	Continuous																					
Projects and Management Actions																						
Tier I PMAs: ongoing	January 2022																					
Tier II PMAs Feasibility study and prioritization upon funding availability	January 2022	•																				
Tier II PMAs Implementation of highly prioritized PMAs (based on funding availability)	January 2023		•																			
Tier III PMAs Feasibility Study (based on funding availability)	January 2023			•																		

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389 **5.4 FUNDING SOURCES AND MECHANISMS**

390 SGMA authorizes GSAs to charge fees, such as pumping and permitting fees, to fund the
391 costs of groundwater management and sustainability programs.

392 The GSA will pursue various funding opportunities from state and federal sources for GSP
393 implementation. As the GSP implementation proceeds, the GSA will further evaluate
394 funding mechanisms and fee criteria and may perform a cost-benefit analysis of fee
395 collection to support consideration of potential refinements. A funding-options-analysis
396 was conducted by SCI Consulting Group and the results of this analysis are presented as
397 technical memorandum in Appendix 5-C. This technical memorandum summarizes the
398 estimated costs for implementation, the recommended path to identify and prioritize
399 funding during GSP implementation, and general funding recommendations. The
400 recommended approach to funding is summarized in the “game plan”, included on page
401 31 of Appendix 5-C, and shown below.

402 Game Plan:

- 403 1. Conduct community outreach regarding the Plan and its implementation.
- 404 2. Pursue use of existing revenue sources to fund implementation.
- 405 3. Pursue Grants and Loan Opportunities to fund implementation
- 406 4. Implement Regulatory Fees to offset eligible implementation costs.

407 If additional revenue is needed:

- 408 5. Conduct a survey and stakeholder outreach to better evaluate
 - 409 a. Community priorities and associated messaging.
 - 410 b. Optimal rate.
 - 411 c. Preference of non-balloted property related fee versus special tax.
- 412 6. Use results of surveys, stakeholder input and other analyses to develop a
413 community outreach plan.
- 414 7. Implement community outreach
- 415 8. Implement a property related fee or special tax balloting:
 - 416 a. Include a cost escalator schedule or mechanism
 - 417 b. Include the use of rate zones or other distinguishing factors.
 - 418 c. Do not include a rate expiration date (also known as a “Sunset Clause”).
 - 419 d. Include a Discount Program to encourage better groundwater management
420 by well owners.

421
422 Table 3 presents examples of potential financing options and the degree of certainty
423 associated with each funding option. The “game plan” reflects an approach and order of
424 priority given to seeking funding sources. The GSA is the lead in developing these funding
425 sources, in partnership with other entities and agencies where appropriate. A working
426 group will be convened in the first year of GSP implementation to identify and evaluate
427 these funding sources.

428

429 Table 3: Potential Funding Sources for GSP Implementation.

Funding Source	Certainty
Feepayers ¹	High – User fees pay for operation and maintenance (O&M) of a utility’s system. Depends upon rate structure adopted by the project proponent and the Proposition 218 rate approval process. Can be used for project implementation as well as project O&M.
General Funds or Capital Improvement Funds (of Project Proponents)	High – General or capital improvement funds are set aside by agencies to fund general operations and construction of facility improvements. Depends upon agency approval.
Special taxes, assessments, and user fees (within Project Proponent service area or area of project benefit)	High - Monthly user fees, special taxes, and assessments can be assessed by some agencies should new facilities directly benefit existing customers. Depends upon the rate structure adopted by the project proponent and the Proposition 218 rate approval process.
Bonds	Low – Revenue bonds can be issued to pay for capital costs of projects allowing for repayment of debt service over 20 to 30-year timeframe. Depends on the bond market and the existing debt of project proponents. Not anticipated in the Basin.
Integrated Regional Water Management (IRWM) implementation grants administered by the California Department of Water Resources (DWR)	Medium – Proposition 1, IRWM Implementation Grants.
Proposition 68 grant programs administered by various state agencies	Medium – Grant programs funded through Proposition 68, which was passed by California voters in June 2018, administered by various state agencies are expected to be applicable to fund GSP implementation activities. These grant programs are expected to be competitive, where \$74 million has been set aside for Groundwater Sustainability statewide.
Disadvantaged Community (DAC) Involvement Program	Medium –DWR’s DAC Involvement Program This program is not guaranteed to be funded in the future.

430 [1] Feepayers can be well-owners or property owners depending on the selected
 431 approach.