

Memorandum

DATE: December 9, 2016

SUBJECT: **Proposed Modifications to the Final Draft of the Basin Analysis Report for the Napa Valley Subbasin**

On November 30, 2016, Napa County published the Final Draft of the report *Napa Valley Groundwater Sustainability, A Basin Analysis Report for the Napa Valley Subbasin* (Basin Analysis Report) developed in response to regulations for Groundwater Sustainability Plans (GSPs) and Alternatives to GSPs, adopted by the California Office of Administrative Law on August 15, 2016.

On December 5, 2016, the California Department of Water Resources (DWR) published a guidance document (Alternative Elements Guide, or Guide) that local agencies are encouraged to use to indicate how an Alternative to a GSP, such as the Basin Analysis Report, addresses specific elements of the GSP regulations. DWR also allows for local agencies to use a table that the agency has developed for this purpose.

The DWR Guide is enclosed showing which portions of the Basin Analysis Report correspond to the elements identified by DWR. An additional column has been added to the Guide to indicate where modifications to the Final Draft Basin Analysis Report are proposed to ensure that specific elements are addressed prior to submittal to DWR. The additional column will be removed from the Guide following finalization of the Basin Analysis Report.

The proposed modifications are summarized below:

- A. Add text to specifically designate Steve Lederer (Director of Public Works) and David Morrison, (Director of Planning, Building, and Environmental Services) as co-plan managers, for continued implementation of the Sustainable Groundwater Management Act for the Napa Valley Subbasin. (Section 1.3 Agency Information)
- B. Add text to summarize the County's expenditures for groundwater sustainability programs and affirm the County's commitment to continued funding in the future. (Section 9 Sustainable Groundwater Management)
- C. Add text to specify which federal and state agencies have jurisdiction over lands within the Napa Valley Subbasin. (Section 2.1 Napa Valley Subbasin Setting and Boundaries)
- D. Add boundaries for federal and state lands within the Subbasin to Figure 2-1. (Section 2.1 Napa Valley Subbasin Setting and Boundaries)
- E. Add Figure 2-2c depicting the density of water supply wells per square mile in the Subbasin. (Section 2.1 Napa Valley Subbasin Setting and Boundaries)
- F. Insert hyperlinks to provide internet addresses for supplemental existing County documents referenced in the Basin Analysis Report. (Section 9 Sustainable Groundwater Management)

Alternative Elements Guide - Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin

California Code of Regulations - GSP Regulation Sections	GSP Elements	Document which attachment(s) contains the applicable GSP Element.	Document which section(s), page number(s), or briefly describe why that GSP Element does not apply to the entity.	Additions to Final Draft Basin Analysis Report to be made prior to submittal to DWR
Article 5 - Plan Contents				
SubArticle 1	Administrative Information			
§ 354.4.	General Information			
	(a) An executive summary written in plain language that provides an overview of the Plan and description of groundwater conditions in the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Executive Summary	
	(b) A list of references and technical studies relied upon by the Agency in developing the Plan. Each Agency shall provide to the Department electronic copies of reports and other documents and materials cited as references that are not generally available to the public	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 11	
§ 354.6.	Agency Information			
	When submitting an adopted Plan to the Department, the Agency shall include a copy of the information provided pursuant to Water Code Section 10723.8, with any updates, if necessary, along with the following information:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 1.3	
	(a) The name and mailing address of the Agency.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 1.3	
	(b) The organization and management structure of the Agency, identifying persons with management authority for implementation of the Plan.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 1.3	
	(c) The name and contact information, including the phone number, mailing address and electronic mail address, of the plan manager.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 1.3	Specifically designate Steve Lederer and David Morrison as Co-Plan Managers
	(d) The legal authority of the Agency, with specific reference to citations setting forth the duties, powers, and responsibilities of the Agency, demonstrating that the Agency has the legal authority to implement the Plan.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 1.3	
	(e) An estimate of the cost of implementing the Plan and a general description of how the Agency plans to meet those costs.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 9	Add text to summarize the County's expenditures for groundwater sustainability programs and affirm the County's commitment to provide continued funding in the future.
§ 354.8.	Description of Plan Area			
	Each Plan shall include a description of the geographic areas covered, including the following information:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 1, Section 2.1, Section 5.1, Section 6.1.4	
	(a) One or more maps of the basin that depict the following, as applicable:			
	(1) The area covered by the Plan, delineating areas managed by the Agency as an exclusive Agency and any areas for which the Agency is not an exclusive Agency, and the name and location of any adjacent basins.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Figure 2-1	
	(2) Adjudicated areas, other Agencies within the basin, and areas covered by an Alternative.		Not applicable, as described in Section 1	
	(3) Jurisdictional boundaries of federal or state land (including the identity of the agency with jurisdiction over that land), tribal land, cities, counties, agencies with water management responsibilities, and areas covered by relevant general plans.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Figure 2-1	Add polygons to Figure 2-1 showing federal and state lands, and city jurisdictions within the Napa Valley Subbasin.
	(4) Existing land use designations and the identification of water use sector and water source type.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Figure 6-14, Figure 6-16	
	(5) The density of wells per square mile, by dasymetric or similar mapping techniques, showing the general distribution of agricultural, industrial, and domestic water supply wells in the basin, including de minimis extractors, and the location and extent of communities dependent upon groundwater, utilizing data provided by the Department, as specified in Section 353.2, or the best available information.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Figure 2-2c	Add Figure 2-2c depicting the density of wells per square mile.
	(b) A written description of the Plan area, including a summary of the jurisdictional areas and other features depicted on the map.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 2.1	Add text to specify which federal and state agencies have jurisdiction over lands within the Napa Valley Subbasin
	(c) Identification of existing water resource monitoring and management programs, and description of any such programs the Agency plans to incorporate in its monitoring network or in development of its Plan. The Agency may coordinate with existing water resource monitoring and management programs to incorporate and adopt that program as part of the Plan.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3 and Appendix C	
	(d) A description of how existing water resource monitoring or management programs may limit operational flexibility in the basin, and how the Plan has been developed to adapt to those limits.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 7.6, 9.2, 9.5, and 9.6	
	(e) A description of conjunctive use programs in the basin.		Not Applicable	
	(f) A plain language description of the land use elements or topic categories of applicable general plans that includes the following:			
	(1) A summary of general plans and other land use plans governing the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 5	
	(2) A general description of how implementation of existing land use plans may change water demands within the basin or affect the ability of the Agency to achieve sustainable groundwater management over the planning and implementation horizon, and how the Plan addresses those potential effects.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 5	
	(3) A general description of how implementation of the Plan may affect the water supply assumptions of relevant land use plans over the planning and implementation horizon.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 9.5.1	
	(4) A summary of the process for permitting new or replacement wells in the basin, including adopted standards in local well ordinances, zoning codes, and policies contained in adopted land use plans.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 9.3	
	(5) To the extent known, the Agency may include information regarding the implementation of land use plans outside the basin that could affect the ability of the Agency to achieve sustainable groundwater management.		Not Applicable	
	(g) A description of any of the additional Plan elements included in Water Code Section 10727.4 that the Agency determines to be appropriate.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin", Napa County Water Efficient Landscape Ordinance, Well construction standards	Section 9.2	Insert hyperlinks in Section 9 for supplemental, existing County documents and provide copies to DWR.

California Code of Regulations - GSP Regulation Sections	GSP Elements	Document which attachment(s) contains the applicable GSP Element.	Document which section(s), page number(s), or briefly describe why that GSP Element does not apply to the entity.	Additions to Final Draft Basin Analysis Report to be made prior to submittal to DWR
§ 354.10.	Notice and Communication			
	Each Plan shall include a summary of information relating to notification and communication by the Agency with other agencies and interested parties including the following:			
	(a) A description of the beneficial uses and users of groundwater in the basin, including the land uses and property interests potentially affected by the use of groundwater in the basin, the types of parties representing those interests, and the nature of consultation with those parties.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 1.2	
	(b) A list of public meetings at which the Plan was discussed or considered by the Agency.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 1.2.1	
	(c) Comments regarding the Plan received by the Agency and a summary of any responses by the Agency.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Appendix L	
	(d) A communication section of the Plan that includes the following:			
	(1) An explanation of the Agency's decision-making process.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 1.2.2	
	(2) Identification of opportunities for public engagement and a discussion of how public input and response will be used.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 1.2.3, Section 9.4.1	
	(3) A description of how the Agency encourages the active involvement of diverse social, cultural, and economic elements of the population within the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 9.4	
	(4) The method the Agency shall follow to inform the public about progress implementing the Plan, including the status of projects and actions.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 9.4	
SubArticle 2	Basin Setting			
§ 354.14.	Hydrogeologic Conceptual Model			
	(a) Each Plan shall include a descriptive hydrogeologic conceptual model of the basin based on technical studies and qualified maps that characterizes the physical components and interaction of the surface water and groundwater systems in the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 2.2, Section 2.3	
	(b) The hydrogeologic conceptual model shall be summarized in a written description that includes the following:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 2.3	
	(1) The regional geologic and structural setting of the basin including the immediate surrounding area, as necessary for geologic consistency.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 2.3	
	(2) Lateral basin boundaries, including major geologic features that significantly affect groundwater flow.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 2.3	
	(3) The definable bottom of the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 2.3	
	(4) Principal aquifers and aquitards, including the following information:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 2.3	
	(A) Formation names, if defined.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 2.3	
	(B) Physical properties of aquifers and aquitards, including the vertical and lateral extent, hydraulic conductivity, and storativity, which may be based on existing technical studies or other best available information.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 2.3	
	(C) Structural properties of the basin that restrict groundwater flow within the principal aquifers, including information regarding stratigraphic changes, truncation of units, or other features.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 2.3	
	(D) General water quality of the principal aquifers, which may be based on information derived from existing technical studies or regulatory programs.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 4.1.3	
	(E) Identification of the primary use or uses of each aquifer, such as domestic, irrigation, or municipal water supply.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 5	
	(5) Identification of data gaps and uncertainty within the hydrogeologic conceptual model	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 6.6	
	(c) The hydrogeologic conceptual model shall be represented graphically by at least two scaled cross-sections that display the information required by this section and are sufficient to depict major stratigraphic and structural features in the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Figures 2-5a, 2-5b, 2-6, 2-7, 2-8, 2-9, 2-10, 2-11, 2-12, 2-13	
	(d) Physical characteristics of the basin shall be represented on one or more maps that depict the following:			
	(1) Topographic information derived from the U.S. Geological Survey or another reliable source.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Figure 2-2a	
	(2) Surficial geology derived from a qualified map including the locations of cross-sections required by this Section.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Figures 2-4a and 2-4b	
	(3) Soil characteristics as described by the appropriate Natural Resources Conservation Service soil survey or other applicable studies.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Figure 6-18	
	(4) Delineation of existing recharge areas that substantially contribute to the replenishment of the basin, potential recharge areas, and discharge areas, including significant active springs, seeps, and wetlands within or adjacent to the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Figures 2-17 and 2-19	
	(5) Surface water bodies that are significant to the management of the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Figure 2-1 and Figure 2-2a	

California Code of Regulations - GSP Regulation Sections	GSP Elements	Document which attachment(s) contains the applicable GSP Element.	Document which section(s), page number(s), or briefly describe why that GSP Element does not apply to the entity.	Additions to Final Draft Basin Analysis Report to be made prior to submittal to DWR
§ 354.16.	Groundwater Conditions			
	Each Plan shall provide a description of current and historical groundwater conditions in the basin, including data from January 1, 2015, to current conditions, based on the best available information that includes the following:			
	(a) Groundwater elevation data demonstrating flow directions, lateral and vertical gradients, and regional pumping patterns, including:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 4.1.1 and 4.1.2	
	(1) Groundwater elevation contour maps depicting the groundwater table or potentiometric surface associated with the current seasonal high and seasonal low for each principal aquifer within the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin", "Napa County Groundwater Conditions and Groundwater Monitoring Recommendations"	Basin Analysis Report Figures 4-4 and 4-5, Appendix B Figures 7-1 and 7-2; Napa County Groundwater Conditions Report Figure 4-8	
	(2) Hydrographs depicting long-term groundwater elevations, historical highs and lows, and hydraulic gradients between principal aquifers.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Figure 4-3a, 4-3b, 4-6, and 4-7	
	(b) A graph depicting estimates of the change in groundwater in storage, based on data, demonstrating the annual and cumulative change in the volume of groundwater in storage between seasonal high groundwater conditions, including the annual groundwater use and water year type.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Figures 6-28a and 6-28b	
	(c) Seawater intrusion conditions in the basin, including maps and cross-sections of the seawater intrusion front for each principal aquifer.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 4.3	
	(d) Groundwater quality issues that may affect the supply and beneficial uses of groundwater, including a description and map of the location of known groundwater contamination sites and plumes.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 4.1.3 and 4.1.4	
	(e) The extent, cumulative total, and annual rate of land subsidence, including maps depicting total subsidence, utilizing data available from the Department, as specified in Section 353.2, or the best available information.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 4.4	
	(f) Identification of interconnected surface water systems within the basin and an estimate of the quantity and timing of depletions of those systems, utilizing data available from the Department, as specified in Section 353.2, or the best available information.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Figure 4-19 and Appendix B Figures 7-8	
	(g) Identification of groundwater dependent ecosystems within the basin, utilizing data available from the Department, as specified in Section 353.2, or the best available information.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 4.7	
§ 344.18.	Water Budget			
	(a) Each Plan shall include a water budget for the basin that provides an accounting and assessment of the total annual volume of groundwater and surface water entering and leaving the basin, including historical, current and projected water budget conditions, and the change in the volume of water stored. Water budget information shall be reported in tabular and graphical form.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 6.4, 6.5, 6.6, and 6.7	
	(b) The water budget shall quantify the following, either through direct measurements or estimates based on data:			
	(1) Total surface water entering and leaving a basin by water source type.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 6.6 and 6.7	
	(2) Inflow to the groundwater system by water source type, including subsurface groundwater inflow and infiltration of precipitation, applied water, and surface water systems, such as lakes, streams, rivers, canals, springs and conveyance systems.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 6.6 and 6.7	
	(3) Outflows from the groundwater system by water use sector, including evapotranspiration, groundwater extraction, groundwater discharge to surface water sources, and subsurface groundwater outflow.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 6.6 and 6.7	
	(4) The change in the annual volume of groundwater in storage between seasonal high conditions.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 6.7 and 6.8 (Note: the water budget results (Section 6.7) are based on an October to September water year approach. The groundwater level change in storage analysis (Section 6.8) compares seasonal high groundwater level conditions.)	
	(5) If overdraft conditions occur, as defined in Bulletin 118, the water budget shall include a quantification of overdraft over a period of years during which water year and water supply conditions approximate average conditions.		Not Applicable	
	(6) The water year type associated with the annual supply, demand, and change in groundwater stored.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 6.7, 6.8, and 6.10	
	(7) An estimate of sustainable yield for the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 6.10	

California Code of Regulations - GSP Regulation Sections	GSP Elements	Document which attachment(s) contains the applicable GSP Element.	Document which section(s), page number(s), or briefly describe why that GSP Element does not apply to the entity.	Additions to Final Draft Basin Analysis Report to be made prior to submittal to DWR
	(c) Each Plan shall quantify the current, historical, and projected water budget for the basin as follows:			
	(1) Current water budget information shall quantify current inflows and outflows for the basin using the most recent hydrology, water supply, water demand, and land use information.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 5 and Sections 6.6 and 6.7	
	(2) Historical water budget information shall be used to evaluate availability or reliability of past surface water supply deliveries and aquifer response to water supply and demand trends relative to water year type. The historical water budget shall include the following:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 5 and Sections 6.6 and 6.7	
	(A) A quantitative evaluation of the availability or reliability of historical surface water supply deliveries as a function of the historical planned versus actual annual surface water deliveries, by surface water source and water year type, and based on the most recent ten years of surface water supply information.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 5.2	
	(B) A quantitative assessment of the historical water budget, starting with the most recently available information and extending back a minimum of 10 years, or as is sufficient to calibrate and reduce the uncertainty of the tools and methods used to estimate and project future water budget information and future aquifer response to proposed sustainable groundwater management practices over the planning and implementation horizon.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 5 and Sections 6.6 and 6.7	
	(C) A description of how historical conditions concerning hydrology, water demand, and surface water supply availability or reliability have impacted the ability of the Agency to operate the basin within sustainable yield. Basin hydrology may be characterized and evaluated using water year type.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 6.10	
	(3) Projected water budgets shall be used to estimate future baseline conditions of supply, demand, and aquifer response to Plan implementation, and to identify the uncertainties of these projected water budget components. The projected water budget shall utilize the following methodologies and assumptions to estimate future baseline conditions concerning hydrology, water demand and surface water supply availability or reliability over the planning and implementation horizon:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 6.3 and 6.7.2	
	(A) Projected hydrology shall utilize 50 years of historical precipitation, evapotranspiration, and streamflow information as the baseline condition for estimating future hydrology. The projected hydrology information shall also be applied as the baseline condition used to evaluate future scenarios of hydrologic uncertainty associated with projections of climate change and sea level rise.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 6.3 and 6.7.2	
	(B) Projected water demand shall utilize the most recent land use, evapotranspiration, and crop coefficient information as the baseline condition for estimating future water demand. The projected water demand information shall also be applied as the baseline condition used to evaluate future scenarios of water demand uncertainty associated with projected changes in local land use planning, population growth, and climate.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 6.7.2	
	(C) Projected surface water supply shall utilize the most recent water supply information as the baseline condition for estimating future surface water supply. The projected surface water supply shall also be applied as the baseline condition used to evaluate future scenarios of surface water supply availability and reliability as a function of the historical surface water supply identified in Section 354.18(c)(2)(A), and the projected changes in local land use planning, population growth, and climate.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 6.7.2	
	(d) The Agency shall utilize the following information provided, as available, by the Department pursuant to Section 353.2, or other data of comparable quality, to develop the water budget:			
	(1) Historical water budget information for mean annual temperature, mean annual precipitation, water year type, and land use.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 6.1, 6.4, 6.5, 6.6, and 6.7	
	(2) Current water budget information for temperature, water year type, evapotranspiration, and land use.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 6.1, 6.2, 6.4, 6.5, 6.6, and 6.7	
	(3) Projected water budget information for population, population growth, climate change, and sea level rise.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 6.1, 6.3, 6.4, 6.5, 6.6, and 6.7	
	(e) Each Plan shall rely on the best available information and best available science to quantify the water budget for the basin in order to provide an understanding of historical and projected hydrology, water demand, water supply, land use, population, climate change, sea level rise, groundwater and surface water interaction, and subsurface groundwater flow. If a numerical groundwater and surface water model is not used to quantify and evaluate the projected water budget conditions and the potential impacts to beneficial uses and users of groundwater, the Plan shall identify and describe an equally effective method, tool, or analytical model to evaluate projected water budget conditions.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 6.4	
	(f) The Department shall provide the California Central Valley Groundwater-Surface Water Simulation Model (C2VSIM) and the Integrated Water Flow Model (IWFM) for use by Agencies in developing the water budget. Each Agency may choose to use a different groundwater and surface water model, pursuant to Section 352.4.			
§ 344.20.	Management Areas			
	(a) Each Agency may define one or more management areas within a basin if the Agency has determined that creation of management areas will facilitate implementation of the Plan. Management areas may define different minimum thresholds and be operated to different measurable objectives than the basin at large, provided that undesirable results are defined consistently throughout the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.6	
	(b) A basin that includes one or more management areas shall describe the following in the Plan:			
	(1) The reason for the creation of each management area.		Not Applicable	
	(2) The minimum thresholds and measurable objectives established for each management area, and an explanation of the rationale for selecting those values, if different from the basin at large.		Not Applicable	
	(3) The level of monitoring and analysis appropriate for each management area.		Not Applicable	
	(4) An explanation of how the management area can operate under different minimum thresholds and measurable objectives without causing undesirable results outside the management area, if applicable.		Not Applicable	
	(c) If a Plan includes one or more management areas, the Plan shall include descriptions, maps, and other information required by this Subarticle sufficient to describe conditions in those areas.		Not Applicable	

California Code of Regulations - GSP Regulation Sections	GSP Elements	Document which attachment(s) contains the applicable GSP Element.	Document which section(s), page number(s), or briefly describe why that GSP Element does not apply to the entity.	Additions to Final Draft Basin Analysis Report to be made prior to submittal to DWR
SubArticle 3	Administrative Information			
§ 354.24.	Sustainability Goal			
	Each Agency shall establish in its Plan a sustainability goal for the basin that culminates in the absence of undesirable results within 20 years of the applicable statutory deadline. The Plan shall include a description of the sustainability goal, including information from the basin setting used to establish the sustainability goal, a discussion of the measures that will be implemented to ensure that the basin will be operated within its sustainable yield, and an explanation of how the sustainability goal is likely to be achieved within 20 years of Plan implementation and is likely to be maintained through the planning and implementation horizon.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.1	
§ 354.26.	Undesirable Results			
	(a) Each Agency shall describe in its Plan the processes and criteria relied upon to define undesirable results applicable to the basin. Undesirable results occur when significant and unreasonable effects for any of the sustainability indicators are caused by groundwater conditions occurring throughout the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.2	
	(b) The description of undesirable results shall include the following:			
	(1) The cause of groundwater conditions occurring throughout the basin that would lead to or has led to undesirable results based on information described in the basin setting, and other data or models as appropriate.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.2	
	(2) The criteria used to define when and where the effects of the groundwater conditions cause undesirable results for each applicable sustainability indicator. The criteria shall be based on a quantitative description of the combination of minimum threshold exceedances that cause significant and unreasonable effects in the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.2	
	(3) Potential effects on the beneficial uses and users of groundwater, on land uses and property interests, and other potential effects that may occur or are occurring from undesirable results.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.2	
	(c) The Agency may need to evaluate multiple minimum thresholds to determine whether an undesirable result is occurring in the basin. The determination that undesirable results are occurring may depend upon measurements from multiple monitoring sites, rather than a single monitoring site.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.2	
	(d) An Agency that is able to demonstrate that undesirable results related to one or more sustainability indicators are not present and are not likely to occur in a basin shall not be required to establish criteria for undesirable results related to those sustainability indicators.		Not Applicable	
§ 354.28.	Minimum Threshold			
	(a) Each Agency in its Plan shall establish minimum thresholds that quantify groundwater conditions for each applicable sustainability indicator at each monitoring site or representative monitoring site established pursuant to Section 354.36. The numeric value used to define minimum thresholds shall represent a point in the basin that, if exceeded, may cause undesirable results as described in Section 354.26.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.4	
	(b) The description of minimum thresholds shall include the following:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.4	
	(1) The information and criteria relied upon to establish and justify the minimum thresholds for each sustainability indicator. The justification for the minimum threshold shall be supported by information provided in the basin setting, and other data or models as appropriate, and qualified by uncertainty in the understanding of the basin setting.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.4	
	(2) The relationship between the minimum thresholds for each sustainability indicator, including an explanation of how the Agency has determined that basin conditions at each minimum threshold will avoid undesirable results for each of the sustainability indicators.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.4	
	(3) How minimum thresholds have been selected to avoid causing undesirable results in adjacent basins or affecting the ability of adjacent basins to achieve sustainability goals.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.4	
	(4) How minimum thresholds may affect the interests of beneficial uses and users of groundwater or land uses and property interests.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.4	
	(5) How state, federal, or local standards relate to the relevant sustainability indicator. If the minimum threshold differs from other regulatory standards, the Agency shall explain the nature of and basis for the difference.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.4	
	(6) How each minimum threshold will be quantitatively measured, consistent with the monitoring network requirements described in Subarticle 4.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.4	

California Code of Regulations - GSP Regulation Sections	GSP Elements	Document which attachment(s) contains the applicable GSP Element.	Document which section(s), page number(s), or briefly describe why that GSP Element does not apply to the entity.	Additions to Final Draft Basin Analysis Report to be made prior to submittal to DWR
	(c) Minimum thresholds for each sustainability indicator shall be defined as follows:			
	(1) Chronic Lowering of Groundwater Levels. The minimum threshold for chronic lowering of groundwater levels shall be the groundwater elevation indicating a depletion of supply at a given location that may lead to undesirable results. Minimum thresholds for chronic lowering of groundwater levels shall be supported by the following:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.4.4	
	(A) The rate of groundwater elevation decline based on historical trends, water year type, and projected water use in the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.4.4	
	(B) Potential effects on other sustainability indicators.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.4.4	
	(2) Reduction of Groundwater Storage. The minimum threshold for reduction of groundwater storage shall be a total volume of groundwater that can be withdrawn from the basin without causing conditions that may lead to undesirable results. Minimum thresholds for reduction of groundwater storage shall be supported by the sustainable yield of the basin, calculated based on historical trends, water year type, and projected water use in the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.4.4	
	(3) Seawater Intrusion. The minimum threshold for seawater intrusion shall be defined by a chloride concentration isocontour for each principal aquifer where seawater intrusion may lead to undesirable results. Minimum thresholds for seawater intrusion shall be supported by the following:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.4.3	
	(A) Maps and cross-sections of the chloride concentration isocontour that defines the minimum threshold and measurable objective for each principal aquifer.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Figures 4-58, 4-64	
	(B) A description of how the seawater intrusion minimum threshold considers the effects of current and projected sea levels.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.4.3	
	(4) Degraded Water Quality. The minimum threshold for degraded water quality shall be the degradation of water quality, including the migration of contaminant plumes that impair water supplies or other indicator of water quality as determined by the Agency that may lead to undesirable results. The minimum threshold shall be based on the number of supply wells, a volume of water, or a location of an isocontour that exceeds concentrations of constituents determined by the Agency to be of concern for the basin. In setting minimum thresholds for degraded water quality, the Agency shall consider local, state, and federal water quality standards applicable to the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.42	
	(5) Land Subsidence. The minimum threshold for land subsidence shall be the rate and extent of subsidence that substantially interferes with surface land uses and may lead to undesirable results. Minimum thresholds for land subsidence shall be supported by the following:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.42	
	(A) Identification of land uses and property interests that have been affected or are likely to be affected by land subsidence in the basin, including an explanation of how the Agency has determined and considered those uses and interests, and the Agency's rationale for establishing minimum thresholds in light of those effects.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.4.4	
	(B) Maps and graphs showing the extent and rate of land subsidence in the basin that defines the minimum threshold and measurable objectives.		Not Applicable	
	(6) Depletions of Interconnected Surface Water. The minimum threshold for depletions of interconnected surface water shall be the rate or volume of surface water depletions caused by groundwater use that has adverse impacts on beneficial uses of the surface water and may lead to undesirable results. The minimum threshold established for depletions of interconnected surface water shall be supported by the following:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.4.1	
	(A) The location, quantity, and timing of depletions of interconnected surface water.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 4.2	
	(B) A description of the groundwater and surface water model used to quantify surface water depletion. If a numerical groundwater and surface water model is not used to quantify surface water depletion, the Plan shall identify and describe an equally effective method, tool, or analytical model to accomplish the requirements of this Paragraph.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 4.2	
	(d) An Agency may establish a representative minimum threshold for groundwater elevation to serve as the value for multiple sustainability indicators, where the Agency can demonstrate that the representative value is a reasonable proxy for multiple individual minimum thresholds as supported by adequate evidence.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.4	
	(e) An Agency that has demonstrated that undesirable results related to one or more sustainability indicators are not present and are not likely to occur in a basin, as described in Section 354.26, shall not be required to establish minimum thresholds related to those sustainability indicators.			
§ 354.30.	Measurable Objectives			
	(a) Each Agency shall establish measurable objectives, including interim milestones in increments of five years, to achieve the sustainability goal for the basin within 20 years of Plan implementation and to continue to sustainably manage the groundwater basin over the planning and implementation horizon.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.5	
	(b) Measurable objectives shall be established for each sustainability indicator, based on quantitative values using the same metrics and monitoring sites as are used to define the minimum thresholds.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.5	
	(c) Measurable objectives shall provide a reasonable margin of operational flexibility under adverse conditions which shall take into consideration components such as historical water budgets, seasonal and long-term trends, and periods of drought, and be commensurate with levels of uncertainty.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.5	
	(d) An Agency may establish a representative measurable objective for groundwater elevation to serve as the value for multiple sustainability indicators where the Agency can demonstrate that the representative value is a reasonable proxy for multiple individual measurable objectives as supported by adequate evidence.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.5	
	(e) Each Plan shall describe a reasonable path to achieve the sustainability goal for the basin within 20 years of Plan implementation, including a description of interim milestones for each relevant sustainability indicator, using the same metric as the measurable objective, in increments of five years. The description shall explain how the Plan is likely to maintain sustainable groundwater management over the planning and implementation horizon.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 8.6.5	
	(f) Each Plan may include measurable objectives and interim milestones for additional Plan elements described in Water Code Section 10727.4 where the Agency determines such measures are appropriate for sustainable groundwater management in the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.2	
	(g) An Agency may establish measurable objectives that exceed the reasonable margin of operational flexibility for the purpose of improving overall conditions in the basin, but failure to achieve those objectives shall not be grounds for a finding of inadequacy of the Plan.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.5	

California Code of Regulations - GSP Regulation Sections	GSP Elements	Document which attachment(s) contains the applicable GSP Element.	Document which section(s), page number(s), or briefly describe why that GSP Element does not apply to the entity.	Additions to Final Draft Basin Analysis Report to be made prior to submittal to DWR
SubArticle 4	Monitoring Networks			
§ 354.34.	Monitoring Network			
	(a) Each Agency shall develop a monitoring network capable of collecting sufficient data to demonstrate short-term, seasonal, and long-term trends in groundwater and related surface conditions, and yield representative information about groundwater conditions as necessary to evaluate Plan implementation.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(b) Each Plan shall include a description of the monitoring network objectives for the basin, including an explanation of how the network will be developed and implemented to monitor groundwater and related surface conditions, and the interconnection of surface water and groundwater, with sufficient temporal frequency and spatial density to evaluate the affects and effectiveness of Plan implementation. The monitoring network objectives shall be implemented to accomplish the following:			
	(1) Demonstrate progress toward achieving measurable objectives described in the Plan.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3, Section 8.6	
	(2) Monitor impacts to the beneficial uses or users of groundwater.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(3) Monitor changes in groundwater conditions relative to measurable objectives and minimum thresholds.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(4) Quantify annual changes in water budget components.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3, Section 8.6	
	(c) Each monitoring network shall be designed to accomplish the following for each sustainability indicator:			
	(1) Chronic Lowering of Groundwater Levels. Demonstrate groundwater occurrence, flow directions, and hydraulic gradients between principal aquifers and surface water features by the following methods:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(A) A sufficient density of monitoring wells to collect representative measurements through depth-discrete perforated intervals to characterize the groundwater table or potentiometric surface for each principal aquifer.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(B) Static groundwater elevation measurements shall be collected at least two times per year, to represent seasonal low and seasonal high groundwater conditions.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(2) Reduction of Groundwater Storage. Provide an estimate of the change in annual groundwater in storage.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(3) Seawater Intrusion. Monitor seawater intrusion using chloride concentrations, or other measurements convertible to chloride concentrations, so that the current and projected rate and extent of seawater intrusion for each applicable principal aquifer may be calculated.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(4) Degraded Water Quality. Collect sufficient spatial and temporal data from each applicable principal aquifer to determine groundwater quality trends for water quality indicators, as determined by the Agency, to address known water quality issues.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(5) Land Subsidence. Identify the rate and extent of land subsidence, which may be measured by extensometers, surveying, remote sensing technology, or other appropriate method.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(6) Depletions of Interconnected Surface Water. Monitor surface water and groundwater, where interconnected surface water conditions exist, to characterize the spatial and temporal exchanges between surface water and groundwater, and to calibrate and apply the tools and methods necessary to calculate depletions of surface water caused by groundwater extractions. The monitoring network shall be able to characterize the following:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(A) Flow conditions including surface water discharge, surface water head, and baseflow contribution.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(B) Identifying the approximate date and location where ephemeral or intermittent flowing streams and rivers cease to flow, if applicable.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(C) Temporal change in conditions due to variations in stream discharge and regional groundwater extraction.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(D) Other factors that may be necessary to identify adverse impacts on beneficial uses of the surface water.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(d) The monitoring network shall be designed to ensure adequate coverage of sustainability indicators. If management areas are established, the quantity and density of monitoring sites in those areas shall be sufficient to evaluate conditions of the basin setting and sustainable management criteria specific to that area.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(e) A Plan may utilize site information and monitoring data from existing sources as part of the monitoring network.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(f) The Agency shall determine the density of monitoring sites and frequency of measurements required to demonstrate short-term, seasonal, and long-term trends based upon the following factors:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(1) Amount of current and projected groundwater use.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(2) Aquifer characteristics, including confined or unconfined aquifer conditions, or other physical characteristics that affect groundwater flow.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	

California Code of Regulations - GSP Regulation Sections	GSP Elements	Document which attachment(s) contains the applicable GSP Element.	Document which section(s), page number(s), or briefly describe why that GSP Element does not apply to the entity.	Additions to Final Draft Basin Analysis Report to be made prior to submittal to DWR
	(3) Impacts to beneficial uses and users of groundwater and land uses and property interests affected by groundwater production, and adjacent basins that could affect the ability of that basin to meet the sustainability goal.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(4) Whether the Agency has adequate long-term existing monitoring results or other technical information to demonstrate an understanding of aquifer response.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(g) Each Plan shall describe the following information about the monitoring network:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(1) Scientific rationale for the monitoring site selection process.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(2) Consistency with data and reporting standards described in Section 352.4. If a site is not consistent with those standards, the Plan shall explain the necessity of the site to the monitoring network, and how any variation from the standards will not affect the usefulness of the results obtained.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(3) For each sustainability indicator, the quantitative values for the minimum threshold, measurable objective, and interim milestones that will be measured at each monitoring site or representative monitoring sites established pursuant to Section 354.36.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(h) The location and type of each monitoring site within the basin displayed on a map, and reported in tabular format, including information regarding the monitoring site type, frequency of measurement, and the purposes for which the monitoring site is being used.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(i) The monitoring protocols developed by each Agency shall include a description of technical standards, data collection methods, and other procedures or protocols pursuant to Water Code Section 10727.2(f) for monitoring sites or other data collection facilities to ensure that the monitoring network utilizes comparable data and methodologies.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 3	
	(j) An Agency that has demonstrated that undesirable results related to one or more sustainability indicators are not present and are not likely to occur in a basin, as described in Section 354.26, shall not be required to establish a monitoring network related to those sustainability indicators.			
§ 354.36.	Representative Monitoring			
	Each Agency may designate a subset of monitoring sites as representative of conditions in the basin or an area of the basin, as follows:			
	(a) Representative monitoring sites may be designated by the Agency as the point at which sustainability indicators are monitored, and for which quantitative values for minimum thresholds, measurable objectives, and interim milestones are defined.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.3	
	(b) Groundwater elevations may be used as a proxy for monitoring other sustainability indicators if the Agency demonstrates the following:			
	(1) Significant correlation exists between groundwater elevations and the sustainability indicators for which groundwater elevation measurements serve as a proxy.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 4.2.3, 7.4, and 7.5	
	(2) Measurable objectives established for groundwater elevation shall include a reasonable margin of operational flexibility taking into consideration the basin setting to avoid undesirable results for the sustainability indicators for which groundwater elevation measurements serve as a proxy.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.5	
	(c) The designation of a representative monitoring site shall be supported by adequate evidence demonstrating that the site reflects general conditions in the area.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 7.3	
§ 354.38.	Assessment and Improvement of Monitoring Network			
	(a) Each Agency shall review the monitoring network and include an evaluation in the Plan and each five-year assessment, including a determination of uncertainty and whether there are data gaps that could affect the ability of the Plan to achieve the sustainability goal for the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 8.6	
	(b) Each Agency shall identify data gaps wherever the basin does not contain a sufficient number of monitoring sites, does not monitor sites at a sufficient frequency, or utilizes monitoring sites that are unreliable, including those that do not satisfy minimum standards of the monitoring network adopted by the Agency.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 8.6.5, 9.6, 10.2	
	(c) If the monitoring network contains data gaps, the Plan shall include a description of the following:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 4.5 and Appendix C	
	(1) The location and reason for data gaps in the monitoring network.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 4.5 and Appendix C	
	(2) Local issues and circumstances that limit or prevent monitoring.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 4.5 and Appendix C	
	(d) Each Agency shall describe steps that will be taken to fill data gaps before the next five-year assessment, including the location and purpose of newly added or installed monitoring sites.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 10.2 and Appendix C	
	(e) Each Agency shall adjust the monitoring frequency and density of monitoring sites to provide an adequate level of detail about site-specific surface water and groundwater conditions and to assess the effectiveness of management actions under circumstances that include the following:			
	(1) Minimum threshold exceedances.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 10.2 and Appendix C	
	(2) Highly variable spatial or temporal conditions.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 10.2 and Appendix C	
	(3) Adverse impacts to beneficial uses and users of groundwater.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 10.2 and Appendix C	
	(4) The potential to adversely affect the ability of an adjacent basin to implement its Plan or impede achievement of sustainability goals in an adjacent basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 10.2 and Appendix C	
§ 354.40.	Reporting Monitoring Data to the Department			
	Monitoring data shall be stored in the data management system developed pursuant to Section 352.6. A copy of the monitoring data shall be included in the Annual Report and submitted electronically on forms provided by the Department.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 8.5	

California Code of Regulations - GSP Regulation Sections	GSP Elements	Document which attachment(s) contains the applicable GSP Element.	Document which section(s), page number(s), or briefly describe why that GSP Element does not apply to the entity.	Additions to Final Draft Basin Analysis Report to be made prior to submittal to DWR
SubArticle 5	Projects and Management Actions			
§ 354.44	Projects and Management Actions			
	a) Each Plan shall include a description of the projects and management actions the Agency has determined will achieve the sustainability goal for the basin, including projects and management actions to respond to changing conditions in the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 9	
	(b) Each Plan shall include a description of the projects and management actions that include the following:			
	(1) A list of projects and management actions proposed in the Plan with a description of the measurable objective that is expected to benefit from the project or management action. The list shall include projects and management actions that may be utilized to meet interim milestones, the exceedance of minimum thresholds, or where undesirable results have occurred or are imminent. The Plan shall include the following:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 9	
	(A) A description of the circumstances under which projects or management actions shall be implemented, the criteria that would trigger implementation and termination of projects or management actions, and the process by which the Agency shall determine that conditions requiring the implementation of particular projects or management actions have occurred.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 9	
	(B) The process by which the Agency shall provide notice to the public and other agencies that the implementation of projects or management actions is being considered or has been implemented, including a description of the actions to be taken.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 9	
	(2) If overdraft conditions are identified through the analysis required by Section 354.18, the Plan shall describe projects or management actions, including a quantification of demand reduction or other methods, for the mitigation of overdraft.		Not Applicable	
	(3) A summary of the permitting and regulatory process required for each project and management action.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 9	
	(4) The status of each project and management action, including a time-table for expected initiation and completion, and the accrual of expected benefits.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 9	
	(5) An explanation of the benefits that are expected to be realized from the project or management action, and how those benefits will be evaluated.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 9	
	(6) An explanation of how the project or management action will be accomplished. If the projects or management actions rely on water from outside the jurisdiction of the Agency, an explanation of the source and reliability of that water shall be included.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 9	
	(7) A description of the legal authority required for each project and management action, and the basis for that authority within the Agency.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 9	
	(8) A description of the estimated cost for each project and management action and a description of how the Agency plans to meet those costs.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 9	Add text to summarize the County's expenditures for groundwater sustainability programs and affirm the County's commitment to continued funding in the future.
	(9) A description of the management of groundwater extractions and recharge to ensure that chronic lowering of groundwater levels or depletion of supply during periods of drought is offset by increases in groundwater levels or storage during other periods.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 9.2, 9.5, and 9.6	
	(c) Projects and management actions shall be supported by best available information and best available science.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 9	
	(d) An Agency shall take into account the level of uncertainty associated with the basin setting when developing projects or management actions.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 9	

California Code of Regulations - GSP Regulation Sections	GSP Elements	Document which attachment(s) contains the applicable GSP Element.	Document which section(s), page number(s), or briefly describe why that GSP Element does not apply to the entity.	Additions to Final Draft Basin Analysis Report to be made prior to submittal to DWR
Article 7	Annual Reports and Periodic Evaluations by the Agency			
§ 356.2	Annual Reports			
	Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan. The annual report shall include the following components for the preceding water year:			
	(a) General information, including an executive summary and a location map depicting the basin covered by the report.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 8.6.1 and 8.6.2	
	(b) A detailed description and graphical representation of the following conditions of the basin managed in the Plan:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 8.6.1 and 8.6.2	
	(1) Groundwater elevation data from monitoring wells identified in the monitoring network shall be analyzed and displayed as follows:	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 8.6.1 and 8.6.2	
	(A) Groundwater elevation contour maps for each principal aquifer in the basin illustrating, at a minimum, the seasonal high and seasonal low groundwater conditions.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 8.6.1 and 8.6.2	
	(B) Hydrographs of groundwater elevations and water year type using historical data to the greatest extent available, including from January 1, 2015, to current reporting year.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 8.6.1 and 8.6.2	
	(2) Groundwater extraction for the preceding water year. Data shall be collected using the best available measurement methods and shall be presented in a table that summarizes groundwater extractions by water use sector, and identifies the method of measurement (direct or estimate) and accuracy of measurements, and a map that illustrates the general location and volume of groundwater extractions.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 8.6.1 and 8.6.2	
	(3) Surface water supply used or available for use, for groundwater recharge or in-lieu use shall be reported based on quantitative data that describes the annual volume and sources for the preceding water year.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 8.6.1 and 8.6.2	
	(4) Total water use shall be collected using the best available measurement methods and shall be reported in a table that summarizes total water use by water use sector, water source type, and identifies the method of measurement (direct or estimate) and accuracy of measurements. Existing water use data from the most recent Urban Water Management Plans or Agricultural Water Management Plans within the basin may be used, as long as the data are reported by water year.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 8.6.1 and 8.6.2	
	(5) Change in groundwater in storage shall include the following:			
	(A) Change in groundwater in storage maps for each principal aquifer in the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 8.6.1 and 8.6.2	
	(B) A graph depicting water year type, groundwater use, the annual change in groundwater in storage, and the cumulative change in groundwater in storage for the basin based on historical data to the greatest extent available, including from January 1, 2015, to the current reporting year.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 8.6.1 and 8.6.2	
	(c) A description of progress towards implementing the Plan, including achieving interim milestones, and implementation of projects or management actions since the previous annual report.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Sections 8.6.1 and 8.6.2	
§ 356.4	Periodic Evaluation by Agency			
	Each Agency shall evaluate its Plan at least every five years and whenever the Plan is amended, and provide a written assessment to the Department. The assessment shall describe whether the Plan implementation, including implementation of projects and management actions, are meeting the sustainability goal in the basin, and shall include the following:			
	(a) A description of current groundwater conditions for each applicable sustainability indicator relative to measurable objectives, interim milestones and minimum thresholds.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 8.6.5	
	(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.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 8.6.5	
	(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.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 8.6.5	
	(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.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 8.6.5	
	(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:			
	(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.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 8.6.5	
	(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.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 8.6.5	
	(3) The Plan shall prioritize the installation of new data collection facilities and analysis of new data based on the needs of the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 8.6.5	
	(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.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 8.6.5	
	(g) A description of relevant actions taken by the Agency, including a summary of regulations or ordinances related to the Plan.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 8.6.5	
	(h) Information describing any enforcement or legal actions taken by the Agency in furtherance of the sustainability goal for the basin.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 8.6.5	
	(i) A description of completed or proposed Plan amendments.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 8.6.5	
	(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.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 8.6.5	
	(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.	"Napa Valley Groundwater Sustainability: A Basin Analysis Report For The Napa Valley Subbasin"	Section 8.6.5	