

Table A-1. Annotated Outline for the Draft SNMP¹

	Section ²	Estimated Number of Pages	Purpose	Recycled Water Policy Requirements ²	Primary Sources of Information	Potential Data Gaps
	Executive Summary	5				
Introduction and Background	1. Introduction and Background	5	<p>This section will identify the purpose and need for the SNMP, the objectives and the organization of the document, and the relationship between the Central Valley-wide SNMP and the Regional/Local SNMPS that may be developed.</p> <p>Clarify that the CV-SNMP addresses the Recycled Water Policy, but that it addresses other central valley-related issues including legacy salt and nitrate accumulation.</p>	<p>This section will include a general discussion of the Recycled Water Policy and the specific SNMP requirements contained in section 6 of the Policy.</p>	<p>The primary sources of information for this section may include:</p> <ul style="list-style-type: none"> • Methodologies developed in the ICM Report and refined in Phase II Task 4 • The regulatory documents listed in section 1.c. • CEQA Scoping meeting documents for the SNMP • Other SNMPS that have been developed in California, including, but not limited to the Santa Ana Region Salt Management Plan 	None identified at this time.
	a. Purpose					
	b. Plan Objectives and Organization					
	c. Regulatory Framework					
	i. Recycled Water Policy					
	ii. Regional Water Quality Control Plan					
iii. Resolution 68-16						
d. SNMP Development and Implementation						
i. Process for the SNMP Development and Approach for Implementation (Appendix A)						
ii. Process for Regional/Local SNMP Development (Appendix B) and Approach for Implementation						
e. SNMP Review and Revision						
Central Valley and Basin Characterization	2. Characterization of the Central Valley¹ (Appendix C)	5	<p>This section will provide an overview of the physical setting of Region 5, including hydrogeologic and hydrologic characteristics of the hydrologic regions and summary information on a basin/subbasin basis, as available.</p> <p>Clarify that this addresses the valley floor as well as all of Region 5 jurisdiction – address this throughout all sections as needed.</p> <p>The information in this section is not intended to duplicate other published documents or to</p>	<p>This section will support the Recycled Water Policy requirements by providing foundational information on a basin-wide basis relating to the management of salt and nitrate at regional and subregional scales for long-term sustainable use of water in California.</p>	<p>This will not be an exhaustive effort, and will refer to previously published works. The primary sources of information would largely cite to:</p> <ul style="list-style-type: none"> • Recycled Water General Permit • ICM Report • CV-SALTS GIS reports and database • DWR’s Bulletin 118 (if available) • DWR’s Water Plan Update (2013) • USGS CVHM Report 	Basins without existing characterization (Bulletin 118) will need to be investigated during the development of a local SNMP.
	a. Overview					
	b. Beneficial Uses and Water Quality Objectives					
	c. Physical Description					
	i. Climate					
	ii. Land Cover and Land Uses					
	iii. Water Sources and Demands					
	Surface Water, Delivered Water, Imported Water, Recycled Water					
	d. Watershed Boundaries					
	e. Basin and Sub-basin Boundaries					

¹ This annotated table of contents illustrates the type of information that may be included within the SNMP. However, given the budget and time constraints, it is critical that the content and level of detail for the SNMP be discussed and agreed upon with the PC and/or EC prior to the development of the SNMP sections. The body of the SNMP will be approximately 100-125 pages.

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	f. Geology g. Hydrogeology/Hydrology h. Aquifers (Water Level Trends, Flow Directions, Changes in Storage, Groundwater Production) i. Recharge Areas		provide detailed site-specific information.			
3.	Characterization of the Watersheds/ Groundwater Basin(s) a. Groundwater Quality b. Surface Water Quality c. Delivered Water Quality d. Imported Water Quality e. Recycled Water Quality	10	<p>This section will provide a general characterization of the groundwater basins within the Region 5 boundary. This section will also inform the Monitoring Program to be developed as part of the Phase III CV-SALTS Workplan.</p> <p>The groundwater portion of this characterization will utilize the delineation of the upper portion of the aquifer that represents a 20-year travel time as well as the lower aquifer where most groundwater production may occur (ICM results).</p> <p>For groundwater and surface water characterization - information from the 303(d) list will be included or referenced.</p>	<p>This section will include a discussion for the following requirement:</p> <ul style="list-style-type: none"> 6.b.(3)(d) – Salt and nutrient source identification, basin/sub-basin assimilative capacity and loading estimates, together with fate and transport of salts and nutrients. 	<p>The primary sources of information for this section may include:</p> <ul style="list-style-type: none"> ICM Report Methodologies developed in the ICM report and refined in Phase II Task 4 <p>This will not include any additional outreach except as related to Task 4.</p>	<p>The groundwater quality database is limited in information related to well construction information, which constrains the ability to associate most of the groundwater quality values with a particular portion of the aquifer. The exception to this is in the Alta Irrigation District area of Kings Subbasin, where some linkage between well construction and water quality measurements will be performed in Phase II Task 4.</p> <p>To date, there is no integrated, refined, higher resolution characterization of salt and nitrate conditions in groundwater in Region 5. The results from the Phase I IAZ analysis will be provided, but have been proven to be too coarse for management purposes.</p>

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Basin Evaluation	4. Basin Evaluation – Water Balance	10	This section will broadly describe water budget components at the Central Valley and regional hydrologic unit scales, along with summaries of water budget components at the IAZ scale. The basis for computing assimilative capacity at regional/subregional scales will be described.	This section will include a discussion for the following requirement: <ul style="list-style-type: none"> 6.b.(3)(d) – Salt and nutrient source identification, basin/sub-basin assimilative capacity and loading estimates, together with fate and transport of salts and nutrients. 	The primary sources of information for this section may include: <ul style="list-style-type: none"> ICM Report 	Outside of the Central Valley Floor, these balance calculations have not been performed, and will need to be performed for the local SNMP.	
							a. Conceptual Model
							b. Basin Inflow/Outflow
							c. Water Movement within the Basin
							d. Infiltration, Evaporation, Evapotranspiration
							e. Recharge Mechanisms
	f. Baseline Condition						
	5. Basin Evaluation – Salt and Nitrate Balance	20	This section will describe the integrated relationship between surface and groundwater resources in Region 5. It will provide a broad description of salt and nitrate sources and loading estimates. This section will describe estimated and projected assimilative capacities (at high resolution) on the IAZ scale and also provide guidance for future local SNMPs applications.	This section will include a discussion for the following requirement: <ul style="list-style-type: none"> 6.b.(3)(d) – Salt and nutrient source identification, basin/sub-basin assimilative capacity and loading estimates, together with fate and transport of salts and nutrients. 	The primary sources of information for this section may include: <ul style="list-style-type: none"> ICM Report Methodologies developed in the ICM Report and refined in Phase II Task 4 	No loading estimates exist for outside of the Central Valley Floor.	
							a. Conceptual Model
							b. Salt and Nitrate Source Identification and Loading Estimates
							c. Import/Export
							d. Assimilative Capacity (Existing and Projected)
							e. Fate and Transport
	f. Baseline Condition						
	6. Basin Evaluation - Projected Water Quality	10	This section will summarize groundwater quality trends and projected groundwater quality, especially for the central Valley Floor. In basins and subbasins outside the Valley Floor, groundwater quality trends will be described as data allow; but this will not include estimates of projected groundwater quality.	This section will include a discussion for the following requirement: <ul style="list-style-type: none"> 6.b.(3)(d) – Salt and nutrient source identification, basin/sub-basin assimilative capacity and loading estimates, together with fate and transport of salts and nutrients. 	The primary sources of information for this section may include: <ul style="list-style-type: none"> ICM Report Methodologies developed in Phase II Task 4 	No future projected water quality outside of the Central Valley Floor.	
							a. Groundwater and Surface Water Quality Trends
							b. Projected Groundwater and Surface Water Quality

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Management and Implementation	7. Salt and Nitrate Management Goals	a. Water Recycling	5	This section will present the goals and objectives for using recycled water and stormwater within the Region 5 jurisdiction. Information from the Statewide General Permit for Recycled Water that was just adopted will be referenced. This section will also recognize the need to define additional goals, as needed, on a regional/local basis.	This section will include a discussion for the following requirement: <ul style="list-style-type: none"> 6.b.(3)(c) – Water recycling and stormwater recharge/use goals and objectives. 	The primary sources of information for this section may include: <ul style="list-style-type: none"> CEQA Scoping meeting documents for the SNMP Stormwater Permits 	None identified at this time.
		b. Stormwater Recharge and Use					
		c. Other goals					
	8. Salt and Nitrate Management Strategies and Implementation Measures	a. Ongoing Management Programs	10	This section will present potential salt and nitrate management strategies aligned with the goals and objectives for long-term sustainable use of water in California. This section will address the approach that may be used for areas that have assimilative capacity versus those that do not. This section will also recognize the need to define the specific implementation measures on a regional/local basis and the need to consider integrated approaches.	This section will include a discussion for the following requirement: <ul style="list-style-type: none"> 6.b.(3)(e) – Implementation measures to manage salt and nutrient loading in the basin on a sustainable basis. 	The primary sources of information for this section may include: <ul style="list-style-type: none"> Methodologies developed in Phase II Task 4 SSALTS Documents Information from the work being completed for the Lower San Joaquin River Committee 	None identified at this time.
		b. Implementation Measures					
		c. Integration with Other Programs					
		d. Implementation Schedule					
	9. Basin Monitoring Program	a. Goals and Objectives	Not Applicable	This section will be developed as a part of the Phase III CV-SALTS Workplan.	This section will include a discussion for the following requirement: <ul style="list-style-type: none"> 6.b.(3)(a) – A basin/sub-basin wide monitoring plan that includes an appropriate network of monitoring locations..... 6.b.(3)(b) – A provision for annual monitoring of Constituents of Emerging Concern..... 	N/A	N/A
		b. Monitoring Program Approach (Appendix E)					
		c. Reporting					

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	10. References	3				
Other Supporting Documentation	Antidegradation Analysis (This will be developed as a part of Phase III for the BPA) a. Regulatory Requirements b. Methodology c. Results d. Conclusions	Not Applicable	Meet requirements of State and federal antidegradation policies as required for Basin Plan Amendment and Recycled Water Policy BPTC – Identify how you make this determination for ag	This section will include a discussion for the following requirement: <ul style="list-style-type: none">6.b.(3)(f) – An antidegradation analysis demonstrating that the projects included within the plan will, collectively, satisfy the requirements of Resolution No. 68-16.		None identified at this time.
	CEQA	Not Applicable				
Appendices	A. Stakeholder Process for Development of the Central Valley Preliminary Draft SNMP	3	Describe CV-SALTS stakeholder process and active participants	N/A	The primary sources of information for this section may include: <ul style="list-style-type: none">ICM reportCEQA Scoping DocumentsCV-SALTS Outreach MaterialsInformation developed in Phase II Task 2 Deliverables	None identified at this time.
	B. Guidance for the Development of a Regional/Local SNMP	10	Provide direction and guidance for local entities seeking to develop a local SNMP	N/A	The primary sources of information for this section may include: <ul style="list-style-type: none">Phase II Task 4 Deliverable	None identified at this time.
	C. Methodology for Determining Existing Water Quality, Best Water Quality Attained Since 1968, and Assimilative Capacity	20	Provide the methodology for determining existing water quality, best attainable water quality attained since 1968, and	N/A	The primary sources of information for this section may include: <ul style="list-style-type: none">Information developed in	Examples will be limited to existing information and results for the ICM focus areas (Modesto

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			assimilative capacity on various scales.		ICM Report and refined in Phase II Task 4 Deliverables	region and Kings Subbasin) and the Management Zone area application for Phase II Task 4.
	D. Methodology for Delineating Management Zones	5	Provide discussion of factors to be considered when delineating a Management Zone boundary, which may also serve as the area of interest for purposes of a local SNMP. The delineated Management Zone may also serve as one of many Management Zones under the umbrella of a larger regional SNMP.		The primary sources of information for this section may include; <ul style="list-style-type: none"> • ICM Task 4 Report • Archetype area analysis with Alta Irrigation District • Management Zone application and related considerations for other Management Zone scales from Phase II Task 4 	The Management Zone is Alta Irrigation District. The delineation of Management Zones will be based on hypothetical examples and considerations.
	E. Guidance for the Development of a Basin Monitoring Program (To Be Developed as a part of Phase III)	Not Applicable	N/A	N/A	N/A	None identified at this time.
Total Number of Pages		121				

¹ – This characterization will include the entire Central Valley Regional Water Quality Control Board jurisdiction

² – The items in red are required pursuant to the Recycled Water Policy