San Luis Obispo County Region
Integrated Regional Water Management (IRWM)
Regional Water Management Group (RWMG)

AGENDA

Date: February 1, 2017
Time: 10:00 AM – 12:00 PM
Location: SLO City/County Library Community Room
995 Palm St, San Luis Obispo, CA 93401

1. Introductions

2. Public Comment

3. Updates on
   a. Prop 84 IRWM Round 1 Implementation Grant
   b. Prop 84 IRWM Drought Grant
   c. Prop 84 IRWM 2015 Implementation Grant
   d. Stormwater Resource Planning efforts

4. Prop 1 IRWM Disadvantaged Community (DAC) Involvement Proposal
   http://www.water.ca.gov/irwm/grants/p1_dac_involvement.cfm
   a. Update on DAC Involvement Request for Proposal (RFP) submittal
   b. San Luis Obispo County DAC overview
   c. **Workshop activity:** Needs Assessment scoping *(handouts will be provided)*

5. 2016 IRWM Guidelines Review and IRWM Plan Update
   a. Update on Prop 1 IRWM Planning Grant efforts
   b. Review of Plan Standard requirements

6. Prop 1 IRWM Implementation Round 1 (anticipated: Spring 2018)
   a. Review of 2014 IRWM Plan *Section G Project Solicitation and Prioritization*
   b. Consider forming sub-committee to review project solicitation process

NEXT RWMG MEETING:
Wednesday April 5, 2017 at 10:00 AM – 12:00 PM
SLO City/County Library Community Room, 995 Palm St, San Luis Obispo CA

For more information, please contact
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www.slocountywater.org/irwm

TO: IRWM Regional Water Management Group

FROM: Mladen Bandov, Water Resources Engineer

DATE: February 1, 2107

SUBJECT: Item #4.c: Needs Assessment scoping for Disadvantaged Community (DAC) Involvement Proposal

Recommendations

1. Receive update on draft DAC Needs Assessment activity proposal for the Prop 1 IRWM Disadvantaged Community Involvement proposal effort.
2. Discuss scoping on region-wide needs assessment activity

Discussion

In July 2016, the Department of Water Resources (DWR) released the 2016 Proposition 1 IRWM DAC Involvement Request for Proposal (RFP), which is available online:

http://www.water.ca.gov/irwm/grants/docs/p1DACinvolvement/2016Prop1IRWM_DACIRFP_Final.pdf

A list of eligible DAC Involvement activities is presented in Table 3 of the RFP. These general activities include the following:

- Needs Assessment (**required**)
- Education
- Community Outreach
- Engagement in IRWM Efforts
- Facilitation
- Technical Assistance
- Governance Structure
- Site Assessment
- Enhancement of DAC aspects in IRWM plans
- Project Development Activities or Construction

Table 3 also provides an example and the desired outcome for each general activity. A Funding Area-wide needs assessment will be required as part of the final report deliverable for this RFP.

Draft Proposal for Needs Assessment and Project Development Activities

The attached draft needs assessment and project development activities proposal for the San Luis Obispo IRWM region is intended to be incorporated into the Central Coast Funding Area's proposal for the Prop 1 IRWM DAC Involvement RFP.

Attachment: 1. Draft proposal of SLO County IRWM Region's excerpt for DAC Involvement RFP

Project 2 - CCFA wide Needs Assessments for various communities, regions and sub-regions within all six IRWM regions:

San Luis Obispo County IRWM Region

A comprehensive assessment of the needs of the disadvantaged communities within the San Luis Obispo County IRWM region will provide a better understanding of local water management challenges and help direct resources and funding toward the most effective solutions. While a majority of the disadvantaged communities and economically distressed areas identified using the DWR tools and definitions have been engaged in the IRWM planning process, further outreach to all communities and an understanding of their water-related needs are crucial to ensure that appropriate strategies and long-term solutions address the most critical needs in the region. To this end, each community ranging from large urban areas to small water systems to individuals are more fully included in the IRWM planning efforts.

The proposed *San Luis Obispo County IRWM Region Disadvantaged Community Needs Assessment* will support the following objectives:

- Develop a comprehensive inventory of DWR-defined disadvantaged communities (includes DACs, EDAs, and underrepresented communities) among the available US Census geographies
- Gather data and identify gaps for small communities and individuals considered to be underrepresented
- Identify and evaluate public and private water systems serving disadvantaged communities
- Perform outreach as needed to further obtain water, wastewater, stormwater and other related information
- Understand the specific water-related challenges facing each identified disadvantaged community
- Evaluate DACs for technical, managerial, financial (TMF) capacity elements such as system description, water source capacities, water rights and ownership, organization and structure, operators and training, policies and procedures, operations plans, emergency response plans, drought contingency plans, budget control/projections, and capital improvement plans
- Develop recommendations such as strategies for further outreach, education and engagement activities, capacity building programs, funding opportunities and financial assistance programs, and project planning and implementation guidance

Greater engagement with the disadvantaged communities in the IRWM planning process is desired with the aim to effectively implement the strategies most relevant to the needs within the region. This first requires gaining an understanding with whom and where the challenges exist. Upon this thorough assessment of the needs of the communities with the region, the DACs, RWMG, community organizations, and interested stakeholders can develop policies and take specific actions toward successful solutions.

Project 9 - Project Development Activities within areas of specific IRWM regions within CCFA.

San Luis Obispo County IRWM Region

Five (5) project development activities are proposed to prepare water agencies that serve disadvantaged communities within the San Luis Obispo County IRWM Region for future implementation projects:

- Oceano Community Services District Water Resource Reliability Program Phase 2
- City of Grover Beach Turnout Pump Station Design and Water Master Plan Update
- City of San Luis Obispo Water Resource Recovery Facility Project Value Engineering at 60% Design
- San Simeon Community Services District Reservoir Expansion Project and Water Master Plan Update
- San Miguel Community Services District Wastewater Plan Update and Recharge Basin Study

Each project development activity supports the top priorities projects and/or studies identified by the water agencies that support disadvantaged community

Oceano Community Services District Water Resource Reliability Program

Activity Description

The proposed project development activities will include design, environmental compliance, and other technical assistance directly in support of the Oceano Community Services District (OCSD) Water Resource Reliability Program (WRRP) including community outreach and education.

The WRRP Phase 1 includes the following three components: 1.) Feasibility Study Project for Recycled Water Injection Wells, 2.) Feasibility Study for Low Impact Development, 3.) Feasibility Study for Leak Detection and Management, including System Loss Calculations & Leak Detection Program, Project Needs Analysis, Master Water Study Addendum. This phase is currently being undertaken and was partially funded from Proposition 84 grants. The WRRP Phase 2 includes preconstruction activities, including design, environmental compliance, other technical assistance and additional community outreach and education. The WRRP Phase 3 will involve project construction.

- *Recycled Water Injection Wells*. The feasibility study identifies the optimal recycled water injection well locations in Oceano to enhance the reliability of water supplies by recharging the groundwater basin, improving groundwater quality with the injection of highly treated recycled water, and preventing salt water intrusion.
- *Low Impact Development*. This feasibility study updates the existing 2004 Drainage and Flood Control Study to incorporate LID standards and to identify optimal programs and projects within Oceano to enhance stormwater recharge and to reduce non-point source pollution.
- *Leak Detection and Management*. This feasibility study develops a Leak Detection and Management Plan and an addendum of the 2009 Master Water Study (MWS) and a Capital Improvement Plan (CIP) that will enable OCSD to prioritize system projects to reliably minimize and capture water system losses thereby increasing in-system water.

Desired Outcomes Justification

Prioritized projects identified as part of the preliminary feasibility evaluations under the prior WRRP Phase 1 planning activities will be future developed into "shovel-ready" status as part of these proposed Phase 2 project development activities. In addition to the intended outcomes by supporting the WRRP programs, community outreach and education activities are included to help promote Oceano residents to individually act to conserve and engage in sustainable water resource practices.

Task Outline

- Task 1 Activity Administration
  Water Resource Reliability Program (WRRP) Phase 2
- Task 2 Recycled Water Injection Wells Project Design/Planning Submittals
- Task 3 Low Impact Development Project Design/Planning Submittals
- Task 4 Leak Detection and Management Project Design/Planning Submittals

City of Grover Beach Turnout Pump Station Design and Water Master Plan Update

Activity Description

The City of Grover Beach relies on two water supply sources: groundwater and surface water from Lopez Lake. The current drought has caused groundwater supplies to be threatened by seawater intrusion and the sole surface water supply to reach historic low levels. In response to these conditions, Grover Beach has been utilizing Lopez water when available to protect its groundwater basin. In June 2014, Grover Beach declared a Stage III Water Shortage that requires all water customers to reduce their water usage by 10%.

Grover Beach is investigating the possibility of obtaining emergency State Water Project (SWP) water. However, to take the delivery of SWP water, Grover Beach needs to improve its turnout along the Lopez pipeline to overcome existing hydraulic limitations. In addition to the turnout improvements, significant changes have occurred because of the drought that was unforeseen when the last Water Master Plan was developed in 2006. Reductions in water demand have reduced revenues and that pattern may continue. Development projects, shifting demand patterns and significant street improvements program using Community Block Grant funding are necessitating an update of the Water Master Plan. The update will include analyzing the most economically viable water system improvements options for development of sustainable water resources projects.

Desired Outcomes Justification

The proposed project development activities to develop the Lopez Pipeline turnout pump station design and update the Water Master Plan meet the desired outcomes in Table 3 of the DAC Involvement RFP. The turnout pump station design will provide the necessary environmental compliance and design documents to allow Grover Beach to select a contractor for construction and be ready for future implementation funding. The Water Master Plan update will allow Grover Beach to appropriately plan for existing deficiencies and future growth and to identify key implementation projects. Additionally, the update will include an assessment on critical water infrastructure of the most economically viable water system improvements options for development of sustainable water resources projects and management.

Task Outline

- Task 1 Activity Administration
  Turnout Pump Station Design
- Task 2 Project Management
- Task 3 Environmental Compliance

- Task 4 Engineering and Design
  Water Master Plan Update
- Task 5 Project Management
- Task 6 Data Collection and Review
- Task 7 Design and Evaluation Criteria
- Task 8 Data Collection and Review
- Task 9 Supply and Demand Evaluation
- Task 10 Condition and Operation Assessment
- Task 11 Hydraulic Model Development
- Task 12 Performance Evaluation and Capacity Analysis
- Task 13 Recommended Improvements
- Task 14 Water Master Plan Update Preparation

City of San Luis Obispo Water Resource Recovery Facility Project Value Engineering at 60% Design

Activity Description

The City of San Luis Obispo relies on surface water sources to meet its current potable water demand: Salinas Reservoir, Whale Rock Reservoir, and Nacimiento Reservoir. Although the City has multiple water sources to draw from, they are all surface water sources that heavily rely on rainfall to in order to be replenished. San Luis Obispo does not currently rely on local groundwater to serve long-term water supply needs, however it has relied heavily on groundwater during past droughts (such as 1986 to 1990) and could rely on this source in the future during water shortage emergencies. The drought has had a significant impact on the City's water sources, and conservation efforts to-date have helped preserve water for future use. San Luis Obispo is also looking into other sources of water that could help provide a more diverse water portfolio or offset more potable water demand.

San Luis Obispo, along with program managers, Water Systems Consulting, Inc. (WSC) and HDR, Inc., are working together to complete a 7-year, $140 million program to upgrade the City's Water Resource Recovery Facility (WRRF) by 2021. The vision of the WRRF Project is to "create a community asset that is recognized as supporting health, well-being and quality of life". The WRRF currently produces and distributes recycled water throughout the City to help offset potable water demand. To help the City meet their water diversity and reliability needs, the WRRF Project is also being designed with potable reuse in mind to position the City to provide another source of water to the community. The WRRF Project is scheduled to begin construction in 2018, and studies are underway to maximize the use of this recycled water resource. The proposed activity to perform Value Engineering (VE) at 60% Design for the WRRF Project will include coordinating and conducting a VE Workshop at 60% Design of the WRRF Project. The VE Team will include a Value Engineering Team Coordinator (VETC) and four to five VE Team Members. A VE Report will be prepared at the end of the VE Workshop.

Desired Outcomes Justification

The proposed project development activities to perform Value Engineering (VE) at 60% Design of the WRRF Project meet the desired outcomes in Table 3 of the DAC Involvement RFP. The VE at 60% Design is a critical component of the WRRF Project and directly leads to construction and implementation of the Project. VE incorporates outside perspectives and experience into the project. It adds value to the project, which ultimately provides value to the whole community. Final 100% design cannot be started until VE has been completed at this stage since they may implement some of the recommendations that result from the VE process into the final design. Construction will follow completion of final designs.

Task Outline

- Task 1 Activity Administration
  Water Resource Recovery Facility Project Value Engineering (VE) at 60% Design
- Task 2 Coordination
- Task 3 VE Review of Project Information
- Task 4 VE Kickoff Meetings
- Task 5 VE Review of Construction Cost Estimate
- Task 6 VE Workshop
- Task 7 VE Report

San Simeon Community Services District Reservoir Expansion Project and Water Master Plan Update

Activity Description

San Simeon Community Services District (SSCSD) developed a water master plan and wastewater collection system capacity evaluation study in 2006 to identify system improvements required to meet existing projected demands. Undertaken tasks included data collection and review, water demand estimates, existing system operations computer modeling, existing water supply evaluation, future regulations, water distribution systems improvements and recommendations, wastewater collection system capacity evaluation, and community planning and future growth projections. The study identified, among other priority capital improvement projects, existing deficiencies for fire flow storage capacity.

The proposed project development activity will expand the existing 150,000-gallon reservoir to be increased to provide regulatory, emergency and fire storage. The San Luis Obispo County Fire Marshall stated that an additional 450,000 gallons would be needed to comply with current fire flow safety regulations. Design, environmental determination and permitting activities will be required to establish costs for the reservoir expansion project including any other determining factors that would assist in fire flow improvement. In addition to providing 100% design documents for a larger reservoir for potable water consumption, emergency storage and fire protection purposes, this activity includes modeling of the system to analyze maximum day demand and fire scenarios.

In addition to the reservoir expansion project, an update to the SSCSD's water, wastewater and recycled water master plan has been recommended by State and Federal funding agencies to better identify the disadvantaged community's critical water needs and the solutions to meet those needs.

Desired Outcomes Justification

The proposed project development activities for the design, environmental determination, and permitting for the reservoir expansion project and update of the Water Master Plan meet the desired outcomes in Table 3 of the DAC Involvement RFP. The activities for the reservoir expansion project would produce design documents for a shovel-ready project in advance of implementation funding opportunities in the near future. Additionally, an update of the Water Master Plan will identify the priority projects needed for this severely disadvantaged community.

Task Outline

- Task 1 Activity Administration
  Water Master Plan Update
- Task 2 Water Master Plan Update

Reservoir Expansion Project

- Task 3 Reservoir Expansion Design
- Task 4 Reservoir Expansion Environmental & Permitting

San Miguel Community Services District Wastewater Plant Upgrade Study and Recharge Basin Study

Activity Description

San Miguel Community Services District (SMCSD) provides water and wastewater services for the disadvantaged community of San Miguel. SMCSD supplies potable water via thee groundwater wells: two wells located on the western side of the Salinas River and a third one currently operated on a permit basis because of arsenic levels that are exceeding the State limit. SMCSD relies entirely on these three groundwater wells, and cost factors makes connecting to the Nacimento pipeline out of reach. The District's historic strategy for water management has been to manage and repair existing antiquated infrastructure from the 1940s when the town was in its economic boom. Due to the high cost of replacing many water lines, SMCSD has not had the financial ability to seek alternative water sources. A water study for the immediate area was conducted in early 2016 which found the groundwater in the immediate area depleting by about one foot per year. Later in fall 2016 SMCSD decided to pursue forming its own Groundwater Sustainability Area with an intent to form a Groundwater Sustainability Plan. The District intends on pursuing every outlet to meet SGMA guidelines to manage the basin.

SMCSD proposes to conduct a wastewater plant upgrade study to ensure that the District can meet the existing deficiencies and increased demands for growth while ensuring that the system can meet state environmental water quality limits. A loading study conducted concluded that the existing facilities are nearing the legal limit of certain contaminates. A wastewater plant upgrade study would address these concerns.

Additionally, a study for the feasibility of groundwater recharge basins and reclamation is proposed within the SMCSD boundaries. The study will identify the existing water flow and runoff from the local Salinas and Estrella River watersheds and identify the most suitable sites for recharge projects. Since SMCSD lacks a supplemental source, the community water needs depend highly on the health of the immediate groundwater basin. The study would determine the locations for future groundwater recharge basins and injection wells with the intent to provide a supplemental source that is economically affordable.

Desired Outcomes Justification

The proposed project development activities meet the desired outcomes in Table 3 of the DAC Involvement RFP as they provide the SMCSD with the ability to plan for an expansion project that addresses the increasing demand on its aging wastewater facility. The upgrade study will identify implementation projects that would allow the wastewater system to meet state requirements for water quality. The study for the recharge basins would evaluate potential future recharge projects that would provide supplemental water to this disadvantage community.

Task Outline

- Task 1 Activity Administration

  Wastewater Plan Update Study
- Task 2 Environmental Analysis
- Task 3 Waterwater Plant Upgrade Study

  Recharge Basin Study
- Task 4 Environmental Analysis
- Task 5 Recharge Basin Study

TO: San Luis Obispo County Regional Water Management Group (RWMG)

FROM: Mladen Bandov, County of San Luis Obispo Public Works

DATE: February 1, 2017

SUBJECT: Item #5: IRWM Plan Update effort for meet 2016 IRWM Guidelines

Recommendations

1. Receive update on IRWM Plan Update effort to meet the 2016 IRWM Guidelines

Discussion

On July 19, 2016, DWR released the final 2016 IRWM Grant Program Guidelines that contain the general process, procedures and criteria used to implement the grant program and new IRWM Plan Standards and relevant guidance.

In order to be eligible for upcoming IRWM grant funding, the San Luis Obispo County RWMG must adopt and submit an update to the existing 2014 IRWM Plan that is consistent with the new IRWM Plan Standards prior to an application due date. It is anticipated that the next funding opportunity requiring an updated IRWM Plan will be the first round of the Proposition 1 IRWM Implementation Grant solicitation in early 2018.

The new IRWM Plan Standards in general require the following changes:

- New Resource Management Strategies (RMS)
- Native American Tribes Participation in the RWMG
- Tribal consultation for CEQA
- Climate Change Standard updates
- Regional description of contamination (nitrate, arsenic, perchlorate or hexavalent chromium)
- Incorporation of a stormwater resource plan

On November 29, 2016, the Department of Water Resources (DWR) released the draft funding recommendations of the Proposition 1 Planning Grant Program, which included awarding the San Luis Obispo County Flood Control and Water Conservation District, on behalf of the San Luis Obispo County IRWM region, the full requested grant amount of $204,183 for the submitted planning proposal. The planning proposal requires a minimum 50% local cost share as a funding match, to be provided by the District and local project sponsors.

The submitted proposal updates the following sections and appendices of the existing 2014 IRWM Plan to meet the 2016 IRWM Plan Standards (http://www.water.ca.gov/irwm/grants/p1_guidelines.cfm):

- Regional Description
- Objectives
- Resource Management Strategies
- Project Review Process
- Plan Performance and Monitoring
- Relation to Local Water Planning
- Relation to Local Land Use Planning
- Stakeholder Involvement
- Climate Change

The attached excerpt of the submitted planning grant proposal (only Tasks 4 through 11) provides the scope of work for the effort relevant to updating the sections of the IRWM plan. The entire proposal is available at http://www.water.ca.gov/irwm/grants/p1_planning.cfm (under Submitted Applications)

The intended result of the plan update tasks will be to meet an overall standard sufficiency for each of the IRWM Plan Standards. The attached IRWM Plan Review Form as provided by DWR includes evidence of plan sufficiency information from the 2014 IRWM Plan review process for the nine standards needing to be updated. The new requirements for each of the 2016 Plan Standards are shaded and partial information as available has been added.

Attachment:

1. Excerpt from San Luis Obispo County IRWM region's submitted Planning Grant Proposal
2. 2016 IRWM Plan Standards - Plan Review Form [select standards & partially completed]

CATEGORY (B): PLAN DEVELOPMENT OR UPDATE

TASK 4: REGIONAL DESCRIPTION UPDATE

This task involves the development of draft and final revisions to sections and appendices of the 2014 IRWM Plan, including related text, figures and maps, to meet the following standards:

- Describe comparisons between current and proposed water quality conditions
- Describe water quality protection and improvement needs or requirements
- Describe water quality conditions related to nitrate, arsenic, perchlorate, or hexavalent chromium contamination (CWC §10541(e)(14)), including
    - Location and extent of that contamination in the region
    - Impacts caused by the contamination to communities with the region
    - Existing efforts being undertaken in the region to address the impacts
    - Any additional efforts needed to address the impacts
- Describe likely climate change impacts on the region as determined from the vulnerability assessment

The 2014 IRWM Plan presents an extensive compilation of relevant information and data from significant planning efforts within the San Luis Obispo County IRWM Region. Features and conditions described in this section include watershed and water systems, water supply and demand projections, water quality information, ecological process and environmental resources, social/cultural/economic information including disadvantaged communities and environmental justice concerns, and major water-related objectives. The delineation of San Luis Obispo County IRWM Region into three sub-regions—North Coast, North County, and South County—facilitates integrated water management between jurisdictions that overlie common watersheds and groundwater basins.

This task includes updating the regional description for current and proposed water quality conditions, and identification of needs and requirements for protection and improvement for these conditions. Existing and new maps in the IRWM plan will show the current water quality conditions in both surface water and groundwater related to four specific contaminants: nitrate, arsenic, perchlorate and hexavalent chromium.

The proposed activities to update the descriptions of the current water quality conditions and likely climate change impacts in the region include:

- Collect, summarize and incorporate relevant information and data from applicable plans, studies, and related documents since the 2014 IRWM Plan update, including water quality and climate change vulnerability assessment information
- Coordinate with County of San Luis Obispo departments, local and State agencies, and other organizations for relevant information and data related to contamination in the region
- Update existing 2014 IRWM Plan maps and figures
- Conduct RWMG member and stakeholder workshops to identify impacts and any current or proposed efforts addressing the impacts
- Compile developed information into *Section C.9 Current Water Quality Conditions*
- Compile developed information into *Section C.12 Climate Change*

Deliverables:

- IRWM Plan Update: Section C. Regional Description

TASK 5: OBJECTIVES UPDATE

This task involves the development of draft and final revisions to sections and appendices of the 2014 IRWM Plan, including related text, figures and maps, to meet the following standards:

- Address adapting to changes in the amount, intensity, timing, quality and variability of runoff and recharge
- Consider the effects of sea level rise on water supply conditions and identify suitable adaptation measures
- Reduce energy consumption, especially the energy embedded in water use, and ultimately reducing greenhouse gas (GHG) emissions
- Consider, where practical, the strategies adopted by California Air Resources Board in its AB 32 Scoping Plan, when evaluating different ways to meet IRWM plan objectives
- Consider options for carbon sequestration and using renewable energy where such options are integrally tied to supporting IRWM plan objectives

Goals and objectives for IRWM planning efforts are presented in *Section E. IRWM Goals and Objectives* of the 2014 IRWM Plan. In place of regional prioritization of the objectives, the RWMG decided to develop sub-regional priorities that are tied to the regional IRWM Plan objectives and emphasize locally-driven water-related issues. The task involves engaging with RWMG and interested stakeholders to consider adding or modifying objectives and sub-regional priorities for each goal with the intent to consider each standard.

The proposed activities to update the plan objectives and sub-regional priorities in order to address climate change adaption and mitigation requirements include:

- Consider incorporation of adaptation strategies to the effects of climate change and mitigation strategies of GHG emissions into the existing plan objectives and sub-regional priorities
- Conduct RWMG member and stakeholder workshops to update plan objectives and sub-regional priorities
- Develop draft findings and recommendations for RWMG consensus
- Compile developed information into *Section E. IRWM Goals and Objectives*

Deliverables:

- IRWM Plan Update: Section E. IRWM Goals and Objectives

TASK 6: RESOURCE MANAGEMENT STRATEGIES UPDATE

This task involves the development of draft and final revisions to sections and appendices of the 2014 IRWM Plan, including related text, figures and maps, to meet the following standards:

- Identify which Resource Management Strategies (RMS) were incorporated into the IRWM Plan and consider all California Water Plan Update 2013 RMS to meet the IRWM objectives, including three new RMS
    - Sediment Management
    - Outreach and Engagement
    - Water and Culture
- Identify and implement, using vulnerability assessments and tools such as those provided in the Climate Change Handbook, RMS and adaptation strategies that address region-specific climate change impacts, including:
    - Demonstrating how the effects of climate change on its region are factored into its RMS
    - Reducing energy consumption, especially the energy embedded in water use, and ultimately reducing GHG emissions

- Evaluating RMS and other adaptation strategies and the ability of such strategies to eliminate or minimize those vulnerabilities, especially those impacting water infrastructure systems

The 2014 IRWM Plan provides findings and recommended project elements that were considered, reviewed and adopted by the RWMG. To address the region's unique water-related challenges, the RWMG reassembled the RMS and developed Water Management Strategies (WMS) for the San Luis Obispo IRWM Region. The WMS are tailored to reflect local conditions and meet the IRWM Plan regional objectives. RWMG will review the RMS/WMS for consideration into the plan and identify those RWM/WMS appropriate to address climate change impacts relevant to the San Luis Obispo County region.

The proposed activities to update the RMS incorporation into the IRWM Plan and factoring climate change effects on the region include:

- Review and consider each California Water Plan Update 2013 RMS currently incorporated into the 2014 IRWM Plan, including three new RMS
- Conduct RWMG member and stakeholder workshops to screen RMS for inclusion/exclusion from the plan update and to identify Climate Change Handbook vulnerability assessments and tools, RMS, and adaptation strategies that address climate change impacts
- Develop draft findings and recommendations for RWMG consensus to add, integrate, adapt, eliminate, and/or re-group strategies to meet the goals, objectives, and sub-regional priorities for the region
- Compile developed information into *Section F. Resource Management Strategies*

Deliverables:

- IRWM Plan Update: Section F. Resource Management Strategies

TASK 7: PROJECT REVIEW PROCESS UPDATE

This task involves the development of draft and final revisions to sections and appendices of the 2014 IRWM Plan, including related text, figures and maps, to meet the following standards:

- Evaluate each project and compare among all projects review factors that consider the project's contribution to climate change adaption and GHG reduction, including
  - Potential effects of climate change on the region and consideration if adaptations to the water management system are necessary
  - Contribution of the project to adapting to identified system vulnerabilities to climate change effects on the region
  - Changes in the amount, intensity, timing, quality and variability of runoff and recharge
  - Effects of sea level rise on water supply conditions and identify suitable adaptation measures.
  - Contribution of the project in reducing GHG emissions as compared to project alternatives
  - Project's ability to help the IRWM region reduce GHG emissions as new projects are implemented over the 20-year planning horizon
  - Reduction in energy consumption, especially the energy embedded in water use, and ultimately reducing GHG emissions
- Incorporate into the project review process consideration of projects that address critical water supply and water quality needs of Native American Tribal communities within the IRWM region

The project review process for the 2014 IRWM Plan contains three components: project submittal, project review and selection, and prioritization of selected projects. The RWMG utilizes project abstract forms and project review forms

to collect information about potential IRWM-related projects and to evaluate programs/project for selection, scoring and ranking. The RWMG will redevelop the project review process to include sections in the project forms and worksheets related to the project's contribution toward climate change adaption and mitigation.

The proposed activities to update the project review process to include review factors for climate change adaptation and GHG mitigation and for critical water issues affecting Native American tribal communities include:

- Review and develop guidance on revisions to the 2014 IRWM Plan Section G and Appendix G forms and worksheets: Phase 1a Abstract Form, Phase 1b Project Objectives Worksheet, Phase 2 Long Forms, Phase 1a Project Abstract Scoring Sheet, Phase 1b Goals and Objectives Scoring Sheet, and Phase 2 Readiness-to-Proceed Categorization & Project Ranking criteria
- Conduct solicitation for new programs/projects and re-evaluate existing programs/projects to incorporate review factors for climate change adaptation, GHG mitigation, and critical water issues affecting Native American tribal communities
- Develop workshop materials for RWMG members and interested stakeholders to incorporate updated project review process that evaluates projects for climate change adaptation and mitigation
- Compile developed information into *Section G. Project Solicitation, Selection, and Prioritization*

Deliverables:

- IRWM Plan Update: Section G. Project Solicitation, Selection, and Prioritization

TASK 8: PLAN PERFORMANCE AND MONITORING UPDATE

This task involves the development of draft and final revisions to sections and appendices of the 2014 IRWM Plan, including related text, figures and maps, to meet the following standards:

- Incorporate policies and procedures that promote adaptive management and, as projects are implemented, conditions change, more effects of climate change manifest, new tools are developed, and new information becomes available, adjust IRWM plans accordingly

Performance measures and monitoring methods were developed for each goal and objective at the IRWM program level to evaluate the overall performance of the plan implementation. As projects are included and implemented in the IRWM Plan, project-level performance measures and monitoring provided by project sponsors are evaluated to ensure projects contribute to plan objectives as well.

The proposed activities to update plan performance and monitoring to include policies and procedures that promote adaptive management include:

- Review existing relevant and appropriate policies and procedures and assess the conditions requiring adjustments to IRWM plan (e.g., thresholds, frequencies, status)
- Conduct RWMG working group meetings to develop guidance on establishing policies and procedures, including an update to the governance document (IRWM Program Participant MOU) for RWMG member agencies and organizations
- Develop draft findings and recommendations for RWMG consensus to incorporated a framework for adaptive management and streamlined IRWM Plan adjustments
- Compile developed information into *Section J. Plan Performance and Monitoring*

Deliverables:

- IRWM Plan Update: Section J. Plan Performance and Monitoring

TASK 9: RELATION TO LOCAL WATER AND LAND USE PLANNING UPDATE

This task involves the development of draft and final revisions to sections and appendices of the 2014 IRWM Plan, including related text, figures and maps, to meet the following standards:

- Upon development of a stormwater resource plan, incorporate it into the IRWM Plan in the following ways:
  - A list of local water plans used in the IRWM Plan
  - A discussion of how the IRWM Plan relates to planning documents and programs established by local agencies
  - A description of the dynamics between the IRWM Plan and local planning documents
- A description of the consideration and incorporation of water management issues and climate change adaption and mitigation strategies from local plans into the IRWM Plan
- Demonstrate information sharing and collaboration with regional land use planning in order to manage multiple water demands throughout the state, adapt water management systems to climate change, and potentially offset climate change impacts to water supply in California

Updates to the existing IRWM plan will include coordination with local agencies to incorporate updated water planning documents (e.g., 2015 Urban Water Management Plans) and new and available water planning documents (e.g., stormwater resource plans, groundwater sustainability plans).

Two separate planning efforts for the development of Stormwater Resource Plans have begun in three of the watersheds in the San Luis Obispo County IRWM Region. There are twenty-five total watersheds (at the CalWater version 2.2.1 Planning Watershed level) as described in Table C-5 of the 2014 IRWM Plan. The City of San Luis Obispo is developing a stormwater resource plan for the San Luis Obispo Creek watershed. The City of Arroyo Grande in coordination with Coastal San Luis RCD successfully received the Proposition 1 Stormwater Grant Program Planning grant to develop a stormwater resource plan for the Arroyo Grande Creek and Pismo Creek watersheds.

In addition to the proposed region-wide stormwater resource plan efforts described in Task 12, the RWMG will incorporate the region's stormwater resource plans or functional equivalent planning documentation into the IRWM Plan.

The proposed activities to incorporate planning documents and programs, including stormwater resource plans, and to incorporate water management issues and climate change adaptation and mitigation strategies from local plans into the IRWM plan include:

- Identify and review relevant and appropriate water planning documents, including stormwater resource plans
- Conduct RWMG and stakeholder workshops for further collaboration and coordination among local agencies within the region to develop a program for long-term and successful implementation of local plans
- Conduct an annual forum to foster communications and strengthen relations between land use and water use entities region-wide, including data and information sharing regarding managing multiple water demands, adaptation of water systems to climate change, and offsetting climate change impacts to water supply.
- Develop draft findings and recommendations for RWMG consensus to incorporated local planning documents, including stormwater resource plans and functionally equivalent planning documents
- Compile developed information into *Section N. Relation to Local Water and Land Use Planning*

Deliverables:

- IRWM Plan Update: Section N. Relation to Local Water and Land Use Planning

TASK 10: STAKEHOLDER INVOLVEMENT UPDATE

This task involves the development of draft and final revisions to sections and appendices of the 2014 IRWM Plan, including related text, figures and maps, to meet the following standards:

- Contain a public process that provides outreach and opportunity to participate in the IRWM Plan, including Native American Tribes, where it should be noted that Tribes are sovereign nations, and as such coordination with Tribes is on a government-to-government basis

The RWMG will engage with Native American Tribes and stakeholders to ensure balanced access and opportunity for participation in the IRWM process. As Native American Tribes are sovereign nations, alternative governance structures or updates to the IRWM Program Participant MOU may be necessary. The proposed activities to provide outreach and opportunity participate in IRWM planning efforts include:

- Review existing Native American Tribe and stakeholder participation
- Identify and engage Native American Tribe and stakeholders, including but not limited to open announcements of IRWM meetings and recommendations from existing participants
- Develop local protocols for engagement and communication with Native American Tribes and stakeholders
- Compile developed information into *Section B. Governance, Stakeholder Involvement, and Outreach*
- Compile developed information into *Appendix C. Communications and Outreach Plan*

Deliverables:

- IRWM Plan Update: Section B. Governance, Stakeholder Involvement, and Outreach
- IRWM Plan Update: Appendix C. Communications and Outreach Plan

TASK 11: CLIMATE CHANGE UPDATE

This task involves the development of draft and final revisions to sections and appendices of the 2014 IRWM Plan, including related text, figures and maps, to meet the following standards:

- Evaluate IRWM region's vulnerabilities to climate change and potential adaptation responses based on vulnerabilities assessment in the DWR Climate Change Handbook for Regional Water Planning:
    - At a minimum, the vulnerability evaluation must be equivalent to the vulnerability assessment contained in the Climate Change Handbook for Regional Water Planning, Section 4 and Appendix B
- Provide a process that considers GHG emissions when choosing between project alternatives:
    - At a minimum, that process must determine a project's ability to help the IRWM region reduce GHG emissions as new projects are implemented over a 20-year planning horizon and consider energy efficiency and reduction of GHG emissions when choosing between project alternatives
- Include a list of prioritized vulnerabilities based on the vulnerability assessment and the IRWM's decision making process:
    - A list of prioritized vulnerabilities which includes a determination regarding the feasibility for the RWMG to address the priority vulnerabilities
- Address adapting to changes in the amount, intensity, timing, quality, and variability of runoff and recharge

- Areas of the State that receive water imported from the Sacramento-San Joaquin River Delta, the area within the Delta, and areas served by coastal aquifers must also consider the effects of sea level rise (SLR) on water supply conditions and identify suitable adaptation measures

The RWMG will re-evaluate regional vulnerabilities to climate change based on the vulnerability assessment in the Climate Change Handbook for Regional Water Planning. The climate change mitigation for each project will be analyzed including the potential GHG reduction over a 20-year planning horizon and overall energy efficiency. The RWMG will prioritize projects based on a climate change rank of relative mitigation potential as the process to consider GHG emissions from project alternatives. The RWMG will re-assess the priorities for the sub-region vulnerabilities including the decision-making process on determining the priorities and feasibility to address the priority vulnerabilities.

The proposed activities to analysis the region's vulnerabilities and potential adaptation and mitigation to climate change include:

- Develop guidance for evaluating and prioritizing climate change impacts and regional/sub-regional vulnerabilities
- Conduct RWMG member and stakeholder workshops for consensus to address climate change impacts through targeting high ranked vulnerabilities.
- Compile developed information into *Section P. Climate Change*

Deliverables:

- IRWM Plan Update: Section P. Climate Change

TASK 12: REGION-WIDE STORMWATER RESOURCE PLAN

Based on the review of the region's IRWM goals and objectives, RWMG member agencies and organizations are seeking planning funds for managing stormwater as a resource and desire to identify, prioritize and select projects and programs for implementation to meet these goals and objectives. Coastal San Luis RCD and Upper Salinas–Las Tablas RCD in coordination with the District and RWMG member agencies and organizations will develop a stormwater resource plan as a priority to improve IRWM planning efforts in the region. Both RCDs have boundaries that overlie all of the watersheds within the San Luis Obispo County IRWM region and will provide integration of stormwater resource planning amongst various stakeholders. The RCDs are building on their successful completion of watershed management focused planning efforts—including the 2014 San Luis Obispo Watershed Management Plan—accomplished during the prior Proposition 84 IRWM Planning Grant program for the region.

As required by Water Code section 10563 as amended by SB 985, public agencies will need to develop a stormwater resource plan as a condition of receiving grant funds (from bond approved after January 2014) for any stormwater and dry weather capture projects. While the 2014 IRWM Plan includes some of the key components of a stormwater resource plan, this proposal will provide the remaining components and incorporate other local efforts needed to develop a region-wide functionally equivalent stormwater resource plan using the guidelines provided by the State Water Resources Control Board.

This proposal incorporates the following elements for development of the region-wide functionally equivalent stormwater resource plan (FE-SWRP):

- Facilitate/coordinate completion of the Storm Water Resource Plan Guidelines' Self-Certification Checklist with watershed partners
- Incorporate technical delineation and load analysis of catchments using a spatially-based watershed approach throughout the entire San Luis Obispo County IRWM Region

IRWM Plan Standard: Region Description				Overall Standard Sufficient		No
Requirement		Included		Evidence of Plan Sufficiency		Sufficient
From IRWM 2016 Guidelines	IRWM 2016 Guidelines Page Number	y/n - Present/Not Present in the IRWM Plan. If y/n/q, qualitative evaluation needed.		Location of Standard in Grantee IRWM Plan	Brief Qualitative Evaluation	y/n
If applicable, describe and explain how the plan will help reduce dependence on the Delta supply regionally.	38	**y/n**	y	C.8.6.1, D		
Describe watersheds and water systems	38	**y/n**	y	C.7, C.5, C.8		
Describe internal boundaries	38	**y/n**	y	C.2		
Describe water supplies and demands for minimum 20 year planning horizon	38	**y/n**	y	D (all)		
Describe social and cultural makeup,including specific information on DACs and tribal communities in the region and their water challenges.	38	**y/n/q**	y	C.5, C.15.1	DACs and their water issues are discussed in the description of Water Planning Areas. Tribes are discussed in Section C.15.1. However, the plan does not include a discussion of tribal water challenges.	
Describe major water related objectives and conflicts **(1)**.	38	**y/n/q**	y	C.13, E.5, Table E-11	C.13 discusses the water issues and challenges for all three sub-regions. Sub-region priorities are set by the local objectives.	
Explain how IRWM regional boundary was determined and why region is an appropriate area for IRWM planning.	38	**y/n/q**	y	C.2	Defining the IRWM region as the County has enabled them to use existing infrastructure management systems, funding mechanisms, partnerships, and planning documents, and seems to have made it more efficient overall.	
Describe neighboring and/or overlapping IRWM efforts	38	**y/n**	y	O.2, C.17		
Explain how opportunities are maximized (e.g. people at the table, natural features, infrastructure) for integration of water management activities	38	**y/n**	y	H, O.1		
Describe water quality conditions. If the IRWM region has areas of nitrate, arsenic, perchlorate, or hexavalent chromium contamination, the Plan must include a description of location, extent, and impacts of the contamination; actions undertaken to address the contamination, and a description of any additional actions needed to address the contamination **(2)**.	38	**y/n**				
Describe likely Climate Change impacts on their region as determined from the vulnerability assessment.	38	**y/n**				

IRWM Plan Standard Requirements for 2016 IRWM Guidelines in Addition to Previously Required 2012 IRWM Guideline Requirements. See Appendix H in IRWM 2016 Guidelines.

(1) Requirement must be addressed per CWC §10541 (e)(3).

(2) Requirement must be addressed per CWC §10541 (e)(14).

IRWM Plan Standard: Plan Objectives					Overall Standard Sufficient	No
Requirement		Included		Evidence of Plan Sufficiency		Sufficient
From IRWM 2016 Guidelines	IRWM 2016 Guidelines Page Number	y/n - Present/Not Present in the IRWM Plan. If y/n/q, qualitative evaluation needed.		Location of Standard in Grantee IRWM Plan	Brief Qualitative Evaluation	y/n
Through the objectives or other areas of the plan, the 7 items on pg 49 of GL are addressed **(1)**.	49	**y/n**	y	E.1.2.3, E.2, Table E-4		
Describe the collaborative process and tools used to establish objectives: - How the objectives were developed - What information was considered (i.e., water management or local land use plans, etc.) - What groups were involved in the process - How the final decision was made and accepted by the IRWM effort	48 - 50	**y/n**	y	E.1		
Identify quantitative or qualitative metrics and measureable objectives: Objectives must be measurable - there must be some metric the IRWM region can use to determine if the objective is being met as the IRWM Plan is implemented. Neither quantitative nor qualitative metrics are considered inherently better **(2)**.	49	**y/n/q**	y	E.4, Tables E-6 to E-10	E.4 provides the intended qualitative and quantitative metrics, as appropriate and practical, for each objective. The qualitative and quantitative measurements for each of the objectives is shown in Tables E-6 through E-10, broken down by the 5 Plan Goals.	
Explain how objectives are prioritized or reason why the objectives are not prioritized	50	**y/n/q**	y	E.5	The RWMG has decided not to prioritize the IRWM Plan Objectives on a regional level, but to prioritize locally driven objectives that are tied to the IRWM Plan's Objectives at the designated sub-regional level.	
Reference specific overall goals for the region: RWMGs may choose to use goals as an additional layer for organizing and prioritizing objectives, or they may choose to not use the term at all.	50	**y/n**		E.2, Figure E-7		
Address adapting to changes in the amount, intensity, timing, quality and variability of runoff and recharge.	39	**y/n**				
Consider the effects of sea level rise (SLR) on water supply conditions and identify suitable adaptation measures.	39	**y/n**				
Reducing energy consumption, especially the energy embedded in water use, and ultimately reducing GHG emissions.	39	**y/n**				
In evaluating different ways to meet IRWM plan objectives, where practical, consider the strategies adopted by CARB in its AB 32 Scoping Plan1.	39	**y/n**				
Consider options for carbon sequestration and using renewable energy where such options are integrally tied to supporting IRWM Plan objectives.	39	**y/n**				

IRWM Plan Standard Requirements for 2016 IRWM Guidelines in Addition to Previously Required 2012 IRWM Guideline Requirements. See Appendix H in IRWM 2016 Guidelines.

(1) Requirement must be addressed per CWC §10540 (c).

(2) Requirement must be addressed per CWC §10541 (e).

IRWM Plan Standard: Resource Management Strategies (RMS)				Overall Standard Sufficient		No
Requirement		Included		Evidence of Plan Sufficiency		Sufficient
From IRWM 2016 Guidelines	IRWM 2016 Guidelines Page Number	y/n - Present/Not Present in the IRWM Plan. If y/n/q, qualitative evaluation needed.		Location of Standard in Grantee IRWM Plan	Brief Qualitative Evaluation	y/n
Address which RMS will be implemented in achieving IRWM Plan Objectives **(1)**.	39	**y/n**		F.3, Table F-2, Appendix F		
Identify RMS incorporated in the IRWM Plan: Consider all California Water Plan (CWP)RMS criteria (29) listed in Table 3 from the CWP Update 2013	39	**y/n**		F.2, Table F-1	The RWMG developed a list of SLO Region Water Management Strategies (WMS) after review of each RMS individually. The WMSs are tailored to reflect local conditions.	
Consideration of climate change effects on the IRWM region must be factored into RMS. Identify and implement, using vulnerability assessments and tools such as those provided in the Climate Change Handbook, RMS and adaptation strategies that address region-specific climate change impacts. •Demonstrate how the effects of climate change on its region are factored into its RMS. •Reducing energy consumption, especially the energy embedded in water use, and ultimately reducing GHG emissions. • An evaluation of RMS and other adaptation strategies and ability of such strategies to eliminate or minimize those vulnerabilities, especially those impacting water infrastructure systems **(2)**.	39	**y/n**		Tables E-11, F-1; F.2.2, F.3; pp. H-6 & H-8; App. F	While this element is sufficently addressed, it is recommend that the CC elements (Adapting to CC) for the strategies in Appendix F be copied into a separate appendix or sub-appendix or even sub-section of the Plan to improve the discussion on linkages of resource/water mgt strategies in addressing CC, which are not obvious in the body of the Plan.	

IRWM Plan Standard Requirements for 2016 IRWM Guidelines in Addition to Previously Required 2012 IRWM Guideline Requirements. See Appendix H in IRWM 2016 Guidelines.

(1) Requirement must be addressed per CWC §10540 (e)(1).

(2) Requirement must be addressed per CWC §10540 (e)(10).

IRWM Plan Standard: Project Review Process				Overall Standard Sufficient		No
Requirement		Included		Evidence of Plan Sufficiency		Sufficient
From IRWM 2016 Guidelines	IRWM 2016 Guidelines Page Number	y/n - Present/Not Present in the IRWM Plan. If y/n/q, qualitative evaluation needed.		Location of Standard in Grantee IRWM Plan	Brief Qualitative Evaluation	y/n
Process for projects included in IRWM plan must address 3 components: - procedures for submitting projects - procedures for reviewing projects - procedures for communicating lists of selected projects	39 - 40	**y/n**	y	G.2, Figure G-2		
Does the project review process in the plan incorporate the following factors:						
How a project contributes to plan objectives	40	**y/n**	y	G.2.2		
How a project is related to Resource Management Strategies identified in the plan.	40	**y/n**	y	G.2.5, App G-5, Table H-1		
The technical feasibility of a project.	40	**y/n**	y	G.3.1, App G-2		
A projects specific benefits to a DAC water issue.	40	**y/n**	y	G.3, App G-5		
Environmental Justice considerations.	40	**y/n**	y	G.3, App G-5		
Project costs and financing	40	**y/n**	y	G.3, App G-5		
Address economic feasibility	40	**y/n**	y	G.3, App G-5		
Project status	40	**y/n**	y	G.3, App G-5		
Strategic implementation of plan and project merit	40	**y/n**	y	G.3, App G-5		
Status of the Project Proponent's IRWM plan adoption	40	**y/n**	y	B.5.3, Figure 5-3		
Project's contribution to reducing dependence on Delta supply (for IRWM regions receiving water from the Delta).	40	**y/n**	y	G.3, Appendix G-5		
Project's contribution to climate change adaptation. •Include potential effects of Climate Change on the region and consider if adaptations to the water management system are necessary **(1)**. •Consider the contribution of the project to adapting to identified system vulnerabilities to climate change effects on the region. •Consider changes in the amount, intensity, timing, quality and variability of runoff and recharge. •Consider the effects of SLR on water supply conditions and identify suitable adaptation measures.	40	**y/n**		Chs. P-13.1, P-13.3; Table P-7; App. G-3 (project abstract reports) & project review forms		

Contribution of project in reducing GHGs compared to project alternatives. •Consider the contribution of the project in reducing GHG emissions as compared to project alternatives •Consider a project's ability to help the IRWM region reduce GHG emissions as new projects are implemented over the 20-year planning horizon. •Reducing energy consumption, especially the energy embedded in water use, and ultimately reducing GHG emissions.	40	**y/n**		P-13.2, P-13.3; Table P-9; App. G-3 (project abstract reports) & project review forms		
Specific benefits to critical water issues for Native American tribal communities.	53	**y/n**				

IRWM Plan Standard Requirements for 2016 IRWM Guidelines in Addition to Previously Required 2012 IRWM Guideline Requirements. See Appendix H in IRWM 2016 Guidelines.

(1) Requirement must be addressed per CWC §10540 (e)(10).

IRWM Plan Standard: Plan Performance and Monitoring					Overall Standard Sufficient	No
Requirement		Included		Evidence of Plan Sufficiency		Sufficient
IRWM 2016 Guidelines Requirement	IRWM 2016 Guidelines Page Number	y/n - Present/Not Present in the IRWM Plan. If y/n/q, qualitative evaluation needed.		Location of Standard in Grantee IRWM Plan	Brief Qualitative Evaluation	y/n
Contain performance measures and monitoring methods to ensure that IRWM objectives are met **(1)**.	40	**y/n**	y	J.2, Table J-1 to J-5	Section E discusses the Goals and Objectives of the Plan and provide a quantitative or qualitative performance measure to assess the Objectives. Section J.2 and Tables J-1 through J-5 combine the measures and discuss the monitoring methodology for each objective.	
Contain a methodology that the RWMG will use to oversee and evaluate implementation of projects.	40	**y/n**	y	J.4, J.4.2		
Each project in the IRWM Plan is monitored to comply with all applicable rules, laws, and permit requirements.	58	**y/n**				
Contain policies and procedures that promote adaptive management and, as more effects of Climate Change manifest, new tools are developed, and new information becomes available, adjust IRWM plans accordingly.	40	**y/n**				

IRWM Plan Standard Requirements for 2016 IRWM Guidelines in Addition to Previously Required 2012 IRWM Guideline Requirements. See Appendix H in IRWM 2016 Guidelines.

(1) Requirement must be addressed per CWC §10541 (e)(7).

IRWM Plan Standard: Relation to Local Water Planning					Overall Standard Sufficient	No
Requirement		Included		Evidence of Plan Sufficiency		Sufficient
IRWM 2016 Guidelines Requirement	IRWM 2016 Guidelines Page Number	y/n - Present/Not Present in the IRWM Plan. If y/n/q, qualitative evaluation needed.		Location of Standard in Grantee IRWM Plan	Brief Qualitative Evaluation	y/n
Identify a list of local water plans used in the IRWM plan	41	y/n	y	N.1, N.2, and Table N-1		
Describe the dynamics between the IRWM plan and other planning documents	41	y/n	y	N.6		
Describe how the RWMG will coordinate its water mgmt planning activities	41	y/n	y	N.7, Tables N-4 and N-5		
Discuss how the plan relates to these other planning documents and programs. Same as 2012 GL with the following addition: "It should be noted that Water Code § 10562 (b)(7) requires the development of a stormwater resource plan and compliance with these provisions to receive grants for stormwater and dry weather runoff capture projects. Upon development of the stormwater resource plan, the RWMG shall incorporate it into IRWM plan. The IRWM Plan should discuss the processes that it will use to incorporate such plans." Minor wording differences - e.g. Groundwater Sustainability Plan example in the 2016 Guidelines instead of Groundwater Managemenbt Plan in the 2012 Guidelines.	63 - 64	y/n		N.1, N.2, and Table N-1		
Consider and incorporate water management issues and climate change adaptation and mitigation strategies from local plans into the IRWM Plan.	63 - 64	y/n				

IRWM Plan Standard Requirements for 2016 IRWM Guidelines in Addition to Previously Required 2012 IRWM Guideline Requirements. See Appendix H in IRWM 2016 Guidelines.

IRWM Plan Standard: Relation to Local Land Use Planning					Overall Standard Sufficient	No
Requirement		Included		Evidence of Plan Sufficiency		Sufficient
IRWM 2016 Guidelines Requirement	IRWM 2016 Guidelines Page Number	y/n - Present/Not Present in the IRWM Plan. If y/n/q, qualitative evaluation needed.		Location of Standard in Grantee IRWM Plan	Brief Qualitative Evaluation	y/n
Document current relationship between local land use planning, regional water issues, and water management objectives	41	y/n		Section N		
Document future plans to further a collaborative, proactive relationship between land use planners and water managers	41	y/n		N.6 and N.7.1, and Table N-5		
Demonstrate information sharing and collaboration with regional land use planning in order to manage multiple water demands throughout the state, adapt water management systems to climate change, and potentially offset climate change impacts to water supply in California.	41	y/n				

IRWM Plan Standard Requirements for 2016 IRWM Guidelines in Addition to Previously Required 2012 IRWM Guideline Requirements. See Appendix H in IRWM 2016 Guidelines.

IRWM Plan Standard: Stakeholder Involvement					Overall Standard Sufficient	No
Requirement		Included		Evidence of Plan Sufficiency		Sufficient
IRWM 2016 Guidelines Requirement	IRWM 2016 Guidelines Page Number	y/n - Present/Not Present in the IRWM Plan. If y/n/q, qualitative evaluation needed.		Location of Standard in Grantee IRWM Plan	Brief Qualitative Evaluation	y/n
Discuss involvement of DACs and tribal communities in the IRWM planning effort	41 - 42	**y/n**	y	B.4, B.4.8, Appendix C		
Describe decision-making process and roles that stakeholders can occupy	41 - 42	**y/n**	y	B.3.2, Appendix C		
Discuss how stakeholders are necessary to address objectives and RMS	41 - 42	**y/n**	y	B.4.3, Appendix C		
Discuss how a collaborative process will engage a balance in interest groups	41 - 42	**y/n**	y	B.2, Figure B-2, Appendix C		
Contain a public process that provides outreach and opportunity to participate in the IRWM plan **(1)**. Per 2016 GL: "Native American tribes – It should be noted that tribes are sovereign nations, and as such coordination with tribes is on a government-to-government basis."	41 - 42	**y/n**		B.4, Appendix C	Section B.4 discusses the stakeholder involvement and public outreach process, and the Communications and Outreach Plan (Appendix C) elaborates on the processes.	
Identify process to involve and facilitate stakeholders during development and implementation of IRWM plan regardless of ability to pay; include description of any barriers to involvement **(2)**. "Stakeholder Involvement" in the 2012 GL is referred to "Native American Tribe and Stakeholder Involvement" in the 2016 GL and Tribes are referred to specifically.	41 - 42	**y/n**		B.4, Appendix C	-Communications and Outreach Plan -Program Management Team (PMT) -RWMG Working Group and Workshops -Public Outreach to Disadvantaged Communities (DACs)	

IRWM Plan Standard Requirements for 2016 IRWM Guidelines in Addition to Previously Required 2012 IRWM Guideline Requirements. See Appendix H in IRWM 2016 Guidelines.

(1) Requirement must be addressed per CWC §10541 (g).

(2) Requirement must be addressed per CWC §10541 (h)(2).

IRWM Plan Standard: Climate Change				Overall Standard Sufficient		No
Requirement		Included		Evidence of Plan Sufficiency		Sufficient
IRWM 2016 Guidelines Requirement	IRWM 2016 Guidelines Page Number	y/n - Present/Not Present in the IRWM Plan. If y/n/q, qualitative evaluation needed.		Location of Standard in Grantee IRWM Plan	Brief Qualitative Evaluation	y/n
Contain a plan, program, or methodology for further data gathering and analysis of prioritized vulnerabilities.	42 - 44	y/n		P-12.1; Tables J-1 & J-2		
Include climate change as part of the project review process.	42 - 44	y/n		P-13.1, P-13.3; Table P-7; App. G-3 (project abstract reports) & project review forms		
Evaluate IRWM region's vulnerabilities to climate change and potential adaptation responses based on vulnerabilities assessment in the DWR Climate Change Handbook for Regional Water Planning **(1)**. Addition in 2016 GL - "At a minimum, the vulnerability evaluation must be equivalent to the vulnerability assessment contained in the Climate Change Handbook for Regional Water Planning, Section 4 and Appendix B."	42 - 44	y/n		Table P-1; P-10 (including P-10.1, 10.2, & 10.3); Table E-11		
Provide a process that considers GHG emissions when choosing between project alternatives **(1)**. Addition in 2016 GL - "At a minimum, that process must determine a project's ability to help the IRWM region reduce GHG emissions as new projects are implemented over a 20-year planning horizon and consider energy efficiency and reduction of GHG emissions when choosing between project alternatives."	42 - 44	y/n		P-13.2, P-13.3; Table P-9; App. G-3 (project abstract reports) & project review forms		
Include a list of prioritized vulnerabilities based on the vulnerability assessment and the IRWM's decision making process. Addition in 2016 GL - "A list of prioritized vulnerabilities which includes a determination regarding the feasibility for the RWMG to address the priority vulnerabilities."	42 - 44	y/n		Table P-6; P-10.1, 10.2, & 10.3	Vulnerabilities prioritized in Table P-6 and further discussed in detail by sub-region in Chs. P-10.1, 10.2, & 10.3. However, what's missing is the link to the IRWM decision-making process on how the priorities were determined. Evidence of stakeholder involvement for the CC process in meeting information found in App. D. Recommend inserting a statement on what was involved in the decision-making and connect with other sections of the Plan (e.g., Ch. C.13).	

Address adapting to changes in the amount, intensity, timing, quality, and variability of runoff and recharge.	42 - 44	**y/n**				
Areas of the State that receive water imported from the Sacramento-San Joaquin River Delta, the area within the Delta, and areas served by coastal aquifers must also consider the effects of sea level rise (SLR) on water supply conditions and identify suitable adaptation measures.	42 - 44	**y/n**				

IRWM Plan Standard Requirements for 2016 IRWM Guidelines in Addition to Previously Required 2012 Guideline Requirements. See Appendix H in IRWM 2016 Guidelines.

(1) Requirement must be addressed per CWC §10541 (e)(9).