

DEPARTMENT OF WATER RESOURCES

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SENT VIA EMAIL

January 29, 2019

Mr. Rob Alcott
Upper Mokelumne River Watershed Authority
Post Office Box 383
Sea Ranch, California 95497

Subject: Mokelumne/Amador/Calaveras (MAC) IRWM Plan Draft Review

Dear Mr. Alcott:

Attached please find the Department of Water Resources (DWR) draft review of the MAC Integrated Regional Water Management (IRWM) Plan. DWR has determined that the MAC IRWM Plan is consistent with the IRWM Planning Act and the related IRWM Plan Standards contained in the 2016 IRWM Grant Program Guidelines.

Pursuant to Volume 2, Section IV of the Guidelines, the public comment period for this review will begin on January 30, 2019. The Draft Review will be available for public comment for 30 calendar days on the following website: <https://www.water.ca.gov/Work-With-Us/Grants-And-Loans/IRWM-Grant-Programs/Plan-Review-Process>.

After the public comment period ends the link to the draft review will become inactive on the website. DWR will consider any comments received and we will work with you on any followup action if required before finalizing the review and posting on our website.

If you have any questions, please contact Ted Daum at (916) 651-9264 or Theodore.Daum@water.ca.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Carmel Brown".

Carmel Brown, P.E. Chief
Financial Assistance Branch
Division of Integrated Regional Water Management

cc: Ms. Katie Cole
Project Manager, Woodward & Curran

IRWM Plan Review Form

(Per 2016 Plan Standards)

IRWM Planning Region:

Mokelumne/Amador/Calaveras (MAC)

Regional Water Management Group:

MAC Regional Participants Committee

IRWM Plan Title:

MAC Integrated Regional Water Management
Plan Update

RESULT: PLAN IS SUFFICIENT

IRWM Plan Standard	Overall Standard Sufficient (yes/no)
Governance	Yes
Region Description	Yes
Objectives	Yes
Resource Management Strategies	Yes
Integration	Yes
Project Review Process	Yes
Impact and Benefit	Yes
Plan Performance and Monitoring	Yes
Data Management	Yes
Finance	Yes
Technical Analysis	Yes
Relation to Local Water Planning	Yes
Relation to Local Land Use Planning	Yes
Stakeholder Involvement	Yes
Coordination	Yes
Climate Change	Yes

Comments:

IRWM PLAN REVIEW FORM

INTRODUCTION

IRWM planning regions must have an IRWM Plan that has been reviewed and deemed consistent with the IRWM Plan Standards by DWR for eligibility to receiving Proposition 1 IRWM Implementation Grant funding. DWR will use this IRWM Plan Standards Review Form, which can be found at the link in Volume 1, Appendix A of the 2016 Guidelines and represented in Table 7 of the Guidelines, to ensure a consistent assessment of whether the 2016 IRWM Guidelines are being addressed in the IRWM Plan. The form contains a checklist for each of the 16 Plan Standards and narrative evaluations where required. The evaluation is pass/fail; there is no numeric scoring. Each Plan Standard is either sufficient or not, based on its associated requirements. Each Standard consists of between one and fifteen requirements. A Yes or No is automatically calculated in each Plan Standard header based on the individual requirement evaluations. In general, a passing score of "C" (i.e. 70% of the requirements for a given Plan Standard) is required for a Standard to pass. Standards with only one or 2 requirements will need one or both of those requirements to pass. Standards with 3 requirements will need at least 2 of the requirements to pass. Standards with 4 or 5 requirements will need at least 3 to pass. Some plan elements are legislated requirements. Such plan elements must be met in order to be considered consistent with plan standards. A summary of the sufficiency of each Standard is automatically calculated on the Standards Summary worksheet. A "No" evaluation indicates that a Standard was not met due to insufficient requirements comprising the Standard. The evaluation for each Plan Standard and any associated insufficiencies is summarized on the Standards Summary page. Additional reviewer comments may be added at the bottom of each standards work sheet.

Note: This review form is meant to be a tool used in conjunction with the 2016 IRWM Guidelines document to assist in the evaluation of IRWM plans. It is not designed to be a substitute for the Guidelines document itself. Reviewers must use the Guidelines in determining plan consistency.

DEFINITION OF TABLE HEADINGS

- IRWM Plan Standard:** As named in the 2016 IRWM Guidelines.
- Overall Standard Sufficient:** This field is either "YES" or "NO" and is automatically calculated based on the "Sufficient" column described below. If all fields are "y", the overall standard is deemed sufficient. Any entry other than a "y" in the Sufficient column (i.e. "n", "?", not sure, more detail needed, etc.) results in a NO.
- Plan Standard Requirements Which Must Be Addressed:** **Fields with a footnote () are required by legislation to be included in an IRWM Plan.**

Requirement	Requirements are taken directly from the 2016 IRWM Guidelines.
2016 IRWM Guidelines Source Page(s)	Page(s) in the 2016 IRWM Guidelines which pertain to the Requirement and include the regulatory or other citations where applicable.
Included	Is the Guideline Requirement included in the IRWM Plan? The options are: y = yes, requirement is included in the IRWMP; or n = no, requirement is not included in the IRWMP. If only y or n then presence/absence of the requirement is sufficient for evaluation. If there is a "q" (qualitative) then add a brief narrative, similar to a Grant Application Review public evaluation or supporting information.
Evidence of Plan Sufficiency	
Location of Standard in Grantee IRWM Plan	The page(s) or sections in the IRWM Plan where information on the Requirement can be found. This can be specific paragraphs or entire chapters for more general requirements.
Brief Qualitative Evaluation Narrative	Supporting information for the Requirement if a "q" is in the Included column. This can be just a few sentences or a paragraph and can be taken directly from the IRWM Plan. Comments or supporting information may be entered regardless of whether required.
Sufficient	Is the Guidelines requirement sufficiently represented in the IRWM Plan (y/n).

IRWM Plan Standard: Governance					Overall Standard Sufficient	Yes
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
The RWMG and individual project proponents who adopted the Plan"	37	y/n	y	2.1, Table 2-1, 2.6		y
A description of the IRWM governance structure including a discussion of whether or how Native American tribes will participate in the RWMG.	37	y/n	y	2.2, 2.3.1		y
A description of how the chosen form of governance addresses and insures:						
Public outreach and involvement processes	37	y/n/q	Y	2.3, 2.5	Public outreach includes direct mailings, local media, a Mokelumne Amador Calaveras (MAC) Plan website, and a Community Outreach Plan. The first and last Regional Participants Committee (RPC) meetings will be public.	y
Effective decision making	37	y/n/q	Y	2.4	Decisions are made on a consensus basis at the RPC level. RPC members are responsible for conveying information and feedback between the RPC and its constituency.	y
Balanced access and opportunity for participation in the IRWM process	37	y/n/q	Y	2.5	Stakeholder and RPC member participation from all relevant areas of water resources management in the region, including public meetings and outreach, ensures balanced access to the process.	y
Effective communication – both internal and external to the IRWM region	37	y/n/q	Y	2.5	Communication includes ongoing RPC process and actions. Outstanding issues or concerns of RPC members are brought to the RPC first. Each RPC member states the interests of the organization or group they represent.	y
Long term implementation of the IRWM Plan	37	y/n/q	Y	2.6	Each Upper Mokelumne River Watershed Authority (UMRWA) member agency will adopt the MAC Plan and other agencies may also do so. The MAC Plan will continue to be updated in the future Regardless of grant funding.	y
Coordination with neighboring IRWM efforts and State and federal agencies	37	y/n/q	Y	2.6, 3.3	Coordination occurs with neighboring IRWM efforts and the UMWRA will coordinate with the appropriate state and federal agencies.	y
The collaborative process(es) used to establish plan objectives	38	y/n/q	Y	2.6, 3.4	Stakeholders are integral to all aspects of the IRWM planning process. The first and last RPC meetings will also be community workshops to provide feedback. During the second RPC meeting, stakeholders will provide input.	y

IRWM Plan Standard: Governance				Overall Standard Sufficient		Yes
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
How interim changes and formal changes to the IRWM Plan will be performed	38	y/n/q	Y	2.6	The MAC Plan will be updated periodically as determined by the RWMG. A project solicitation process will be conducted, and published as an appendix to the Plan Update and posted on the UMRWA website (www.umrwa.org).	y
Updating or amending the IRWM Plan	38	y/n/q	Y	2.6	The MAC Plan may be updated to: 1) comply with updated IRWM Guidelines, per DWR; 2) update the project list and project evaluation; and 3) incorporate results of plan performance monitoring and/or project monitoring.	y

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: Region Description					Overall Standard Sufficient	Yes
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	N/A	3, 3.5	The MAC Region is not reliant on the Delta	y
Describe watersheds and water systems	38	y/n	Y	1.1.3		y
Describe internal boundaries	38	y/n	Y	1.1.4		y
Describe water supplies and demands for minimum 20 year planning horizon	38	y/n	Y	1.2.1		y
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	1.1.6	Disadvantaged Communities (DACs) totally or partially located in the MAC region are described. Focused outreach to Native American tribes within the MAC Region was completed as part of the Plan update.	y
Describe major water related objectives and conflicts (1).	38	y/n/q	Y	1.4	The MAC region RPC identified a number of regional water resource conflicts and issues. Additional issues were obtained from the Upper Mokelumne River Watershed Assessment and Planning Project (UMRWAP).	y
Explain how IRWM regional boundary was determined and why region is an appropriate area for IRWM planning.	38	y/n/q	Y	1.1.1	The four primary regional boundaries and the reasons these boundaries were used in defining the MAC region are described.	y
Describe neighboring and/or overlapping IRWM efforts	38	y/n	Y	1.1.2		y
Explain how opportunities are maximized (e.g. people at the table, natural features, infrastructure)for integration of water management activities	38	y/n	Y	2.4		y
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	y	1.2.2		y
Describe likely Climate Change impacts on their region as determined from the vulnerability assessment.	38	y/n	y	1.3.5, Table 1-16, Appendix C		y

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	Yes
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	3.1.1		y
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	3.1.1		y
Identify quantitative or qualitative metrics and measurable 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	3.1.2, Tables 3-1, 3-2, 3-3, and 3-4	A series of performance measures have been established. These measures and their associated water resource goals and objectives are presented.	y
Explain how objectives are prioritized or reason why the objectives are not prioritized	50	y/n/q	Y	3.1.3	The RPC chose not to prioritize the MAC Plan objectives because all were deemed equally important, and implementation of projects that contribute to any of the objectives would benefit the Region. The MAC Region's prioritized vulnerabilities to anticipated climate change impacts were confirmed by the RPC at its June 2018 meeting. The RPC chose not to prioritize the MAC Plan objectives because all are equally important and implementation of projects that contribute to any of the objectives would benefit the Region.	y
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	Y	3.1.1		y
Address adapting to changes in the amount, intensity, timing, quality and variability of runoff and recharge.	39	y/n	y	3.1.1		y
Consider the effects of sea level rise (SLR) on water supply conditions and identify suitable adaptation measures.	39	y/n	y	1.3.4, 3.3		y
Reducing energy consumption, especially the energy embedded in water use, and ultimately reducing GHG emissions.	39	y/n	y	3.3		y
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	y	3.1.1		y

IRWM Plan Standard: Plan Objectives				Overall Standard Sufficient	
Requirement		Included		Evidence of Plan Sufficiency	
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
Consider options for carbon sequestration and using renewable energy where such options are integrally tied to supporting IRWM Plan objectives.	39	y/n	y	3.1.1, 3.2.1,3.3	

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	Yes
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	y	3.2.1, Table 3-6		y
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	y	3.2, Table 3-7		y
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. <ul style="list-style-type: none"> • 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	y	3.3, Table 3-8		y

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: Integration				Overall Standard Sufficient	
Requirement		Included		Evidence of Plan Sufficiency	
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
Contains structure and processes for developing and fostering integration ¹ : - Stakeholder/institutional - Resource - Project implementation	39	y/n/q	Y	2.4, 4.1.5	This is described in the governance structure. Resource integration has occurred through the creation of UMRWA providing a focus and lead voice to the IRWM planning process in the MAC region.

1. If not included as an individual section use Governance, Project Review Process, and Data Management Standards per 2016 IRWM Guidelines, p. 52.

IRWM Plan Standard: Project Review Process					Overall Standard Sufficient	Yes
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	4.1.1, 4.1.2		y
Does the project review process in the plan incorporate the following factors:						
How a project contributes to plan objectives	40	y/n	Y	7		y
How a project is related to Resource Management Strategies identified in the plan.	40	y/n	Y	7		y
The technical feasibility of a project.	40	y/n	Y	7		y
A projects specific benefits to a DAC water issue.	40	y/n	Y	7		y
Environmental Justice considerations.	40	y/n	Y	4.1.2, 4.1.3		y
Project costs and financing	40	y/n	Y	4.4		y
Address economic feasibility	40	y/n	Y	4.1.3		y
Project status	40	y/n	Y	4.1.2, Appendix H		y
Strategic implementation of plan and project merit	40	y/n	Y	4.1.2		y
Status of the Project Proponent's IRWM plan adoption	40	y/n	Y	4.1.2		y
Project's contribution to reducing dependence on Delta supply (for IRWM regions receiving water from the Delta).	40	y/n	N/A	1.3.5		y
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	y	4.1.2, Appendix E, Appendix F		y

IRWM Plan Standard: Project Review Process				Overall Standard Sufficient		
Requirement		Included		Evidence of Plan Sufficiency		
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	Sufficient
						y/n
Contribution of project in reducing GHGs compared to project alternatives. <ul style="list-style-type: none"> • 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	y	4.1.2, Appendix E, Appendix F		y
Specific benefits to critical water issues for Native American tribal communities.	53	y/n	y	4.1.2, Appendix E, Appendix F		y

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: Impact and Benefit					Overall Standard Sufficient	Yes
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 potential impacts and benefits of plan implementation within IRWM region, between regions, with DAC/EJ concerns and Native American Tribal communities	40	y/n	Y	4.3, Table 4-3		y
State when a more detailed project-specific impact and benefit analysis will occur (prior to any implementation activity)	55	y/n	Y	4.3		y
Review and update the impacts and benefits section of the plan as part of the normal plan management activities	55 - 56	y/n	y	4.3		y

IRWM Plan Standard: Plan Performance and Monitoring					Overall Standard Sufficient	Yes
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	5.1.1		y
Contain a methodology that the RWMG will use to oversee and evaluate implementation of projects.	40	y/n	Y	5.1.2		y
Each project in the IRWM Plan is monitored to comply with all applicable rules, laws, and permit requirements.	58	y/n	y	5.1		y
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	y	5.1.3		y

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: Data Management					Overall Standard Sufficient	Yes
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
Describe data needs within the IRWM region	59 - 60	y/n	Y	5.2.1		y
Describe typical data collection techniques	59 - 60	y/n	Y	5.2.2		y
Describe stakeholder contributions of data to a data management system	59 - 60	y/n	Y	5.2.2, 5.2.3, Table 5-4		y
Describe the entity responsible for maintaining data in the data management system	59 - 60	y/n	Y	5.2.4		y
Describe the QA/QC measures for data	59 - 60	y/n	Y	5.2.4		y
Explain how data collected will be transferred or shared between members of the RWMG and other interested parties throughout the IRWM region, including local, State, and federal agencies (1) .	59 - 60	y/n	Y	5.2.5		y
Explain how the Data Management System supports the RWMG's efforts to share collected data	59 - 60	y/n	Y	5.2.4		y
Outline how data saved in the data management system will be distributed and remain compatible with State databases including CEDEN, Water Data Library (WDL), CASGEM, California Environmental Information Catalog (CEIC), and the California Environmental Resources Evaluation System (CERES).	59 - 60	y/n	Y	5.2.2, 5.2.5		y

(1) Requirement must be addressed per CWC §10541 (e)(12).

IRWM Plan Standard: Finance				Overall Standard Sufficient		Yes
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
Include a programmatic level (i.e. general) plan for implementation and financing of identified projects and programs (1) including the following:	41	y/n	Y	4.4		y
List known, as well as, possible funding sources, programs, and grant opportunities for the development and ongoing funding of the IRWM Plan.	41	y/n	Y	4.4.1		y
List the funding mechanisms, including water enterprise funds, rate structures, and private financing options, for projects that implement the IRWM Plan.	41	y/n	Y	4.4.1		y
An explanation of the certainty and longevity of known or potential funding for the IRWM Plan and projects that implement the Plan.	41	y/n	Y	4.4.1, Table 4-4		y
An explanation of how operation and maintenance (O&M) costs for projects that implement the IRWM Plan would be covered and the certainty of operation and maintenance funding.	41	y/n	Y	4.4.2		y

(1) Requirement must be addressed per CWC §10541 (e)(8).

IRWM Plan Standard: Technical Analysis				Overall Standard Sufficient	
Requirement		Included		Evidence of Plan Sufficiency	
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
Document the data and technical analyses that were used in the development of the plan (1) .	41	y/n	Y	4.5	

(1) Requirement must be addressed per CWC §10541 (e)(11).

IRWM Plan Standard: Relation to Local Water Planning					Overall Standard Sufficient	Yes
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	4.2.2, Table 4-2		y
Describe the dynamics between the IRWM plan and other planning documents	41	y/n	Y	4.2.2, Figure 4-2		y
Describe how the RWMG will coordinate its water mgmt planning activities	41	y/n	Y	2.3.3, 4.2.1		y
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 Management Plan in the 2012 Guidelines.	63 - 64	y/n	y	4.2.2, Table 4-2		y
Consider and incorporate water management issues and climate change adaptation and mitigation strategies from local plans into the IRWM Plan.	63 - 64	y/n	y	4.2.2, Table 4-2		y

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	Yes
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	Y	4.2.3		y
Document future plans to further a collaborative, proactive relationship between land use planners and water managers	41	y/n	Y	4.2.3		y
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	y	4.2		y

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		
Requirement		Included		Evidence of Plan Sufficiency		
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	Yes Sufficient y/n
Discuss involvement of DACs and tribal communities in the IRWM planning effort	41 - 42	y/n	Y	2.3.1, Table 2-2		y
Describe decision-making process and roles that stakeholders can occupy	41 - 42	y/n	Y	2.2.1, 2.3.1		y
Discuss how stakeholders are necessary to address objectives and RMS	41 - 42	y/n	Y	2.2, 2.2.5		y
Discuss how a collaborative process will engage a balance in interest groups	41 - 42	y/n	Y	2.2, 2.2.5		y
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	y	2.2.4, 2.3.1		y
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	y	2.3		y

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: Coordination				Overall Standard Sufficient	
Requirement		Included		Evidence of Plan Sufficiency	
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
Identify the process to coordinate water management projects and activities of participating local agencies and stakeholders to avoid conflicts and take advantage of efficiencies (1).	42	y/n	Y	2.5	
Identify neighboring IRWM efforts and ways to cooperate or coordinate, and a discussion of any ongoing water management conflicts with adjacent IRWM efforts	42	y/n	Y	1.1.2	
Identify areas where a state agency or other agencies may be able to assist in communication or cooperation, or implementation of IRWM Plan components, processes, and projects, or where State or federal regulatory decisions are required before implementing the projects.	42	y/n	Y	2.5	

(1) Requirement must be addressed per CWC §10541 (e)(13).

IRWM Plan Standard: Climate Change					Overall Standard Sufficient	Yes
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	Y	3.3		y
Include climate change as part of the project review process.	42 - 44	y/n	Y	4.1		y
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	y	3.3		y
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	y	1.3.6, 3.2, 3.3, Table 3-10, 4.1.3		y
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	y	1.3.4, Table 1-17, 3.3, Table 3-8		y
Address adapting to changes in the amount, intensity, timing, quality, and variability of runoff and recharge.	42 - 44	y/n	y	3.1.1		y

IRWM Plan Standard: Climate Change				Overall Standard Sufficient	
Requirement		Included		Evidence of Plan Sufficiency	
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
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	y	1.3.4, 3.3	

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).