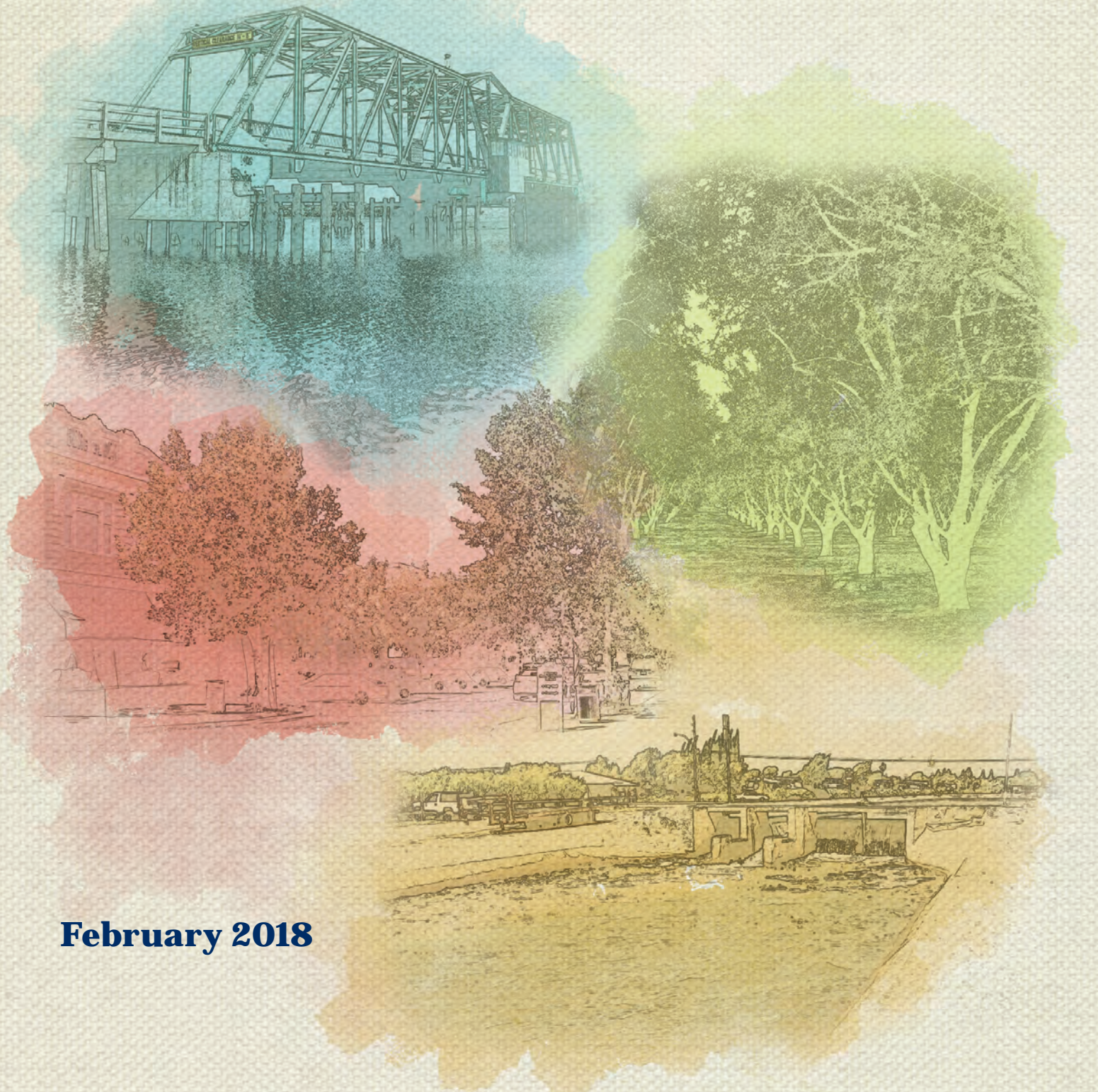


*East Stanislaus Region*

# Integrated Regional Water Management Plan Update

## APPENDICES



**February 2018**

# Appendix A

## East Stanislaus Regional Water Management Partnership (ESRWMP) Memorandum of Understanding



**Executed MOU to be inserted.**

# Appendix B

## Adopting Resolutions



**Adopting Resolutions to be inserted.**

# Appendix C

## SWRP Executive Summary



**Stanislaus County Multi-Agency Regional Storm Water Resource Plan  
Executive Summary to be inserted.**

# Appendix D

## Vulnerability Assessment Checklist





## East Stanislaus IRWM Region Climate Change Vulnerability Assessment Checklist

Category / Vulnerability	Yes	No	Notes
<b>Water Demand</b>			
Are there major industries that require cooling/process water in your planning region?	✓		Agricultural process water and cooling water for manufacturing processes is required in the Region.
Does water use vary by more than 50% seasonally in parts of your region?	✓		Water use varies seasonally due to agriculture in the Region.
Are crops grown in your region climate-sensitive? Would shifts in daily heat patterns, such as how long heat lingers before night-time cooling, be prohibitive for some crops?	✓		Fruit and nut crops in the Region would require more water under such conditions.
Do groundwater supplies in your region lack resiliency after drought events?	✓		Due to heavy groundwater use, groundwater levels can be slow to rise after droughts.
Are water use curtailment measures effective in your region?	✓		Water use curtailment measures have historically been effective. For example, during the recent drought cities implemented various stages of Water Shortage Contingency Plans and customers reduced water use as a result of conservation programs and public awareness campaigns.
Are some instream flow requirements in your region either currently insufficient to support aquatic life, or occasionally unmet?	✓		Instream flow requirements in the Region are generally met, and have been set at a level that is expected to support aquatic life. However, there is the potential for instream flow requirements to increase in the future, which could increase the probability of these flows remaining unmet and resulting in vulnerability of aquatic habitats.
<b>Water Supply</b>			
Are increased wildfires a threat in your region? If so, does your region include reservoirs with fire-susceptible vegetation nearby which could pose a water quality concern from increased erosion?	✓		Increased wildfires are not a threat in the Region. The land use in the Region is primarily agricultural and would not be susceptible to wildfire in the same way that forest lands or open space may be. However, potential for increased wildfires outside of the Region is possible which could impact water quality in the rivers within the region (e.g., increased turbidity).
Does part of your region rely on surface water bodies with current or recurrent water quality issues related to eutrophication, such as low dissolved oxygen or algal blooms? Are there other water quality constituents potentially exacerbated by climate change?		✓	<i>Eutrophication is a state of excess nutrients in a body of water that can lead to algal blooms or increased plant life, which can then result in low oxygen levels. It is usually caused by runoff of fertilizers or sewage into the water bodies.</i> The Region relies on the Tuolumne River for surface water, which has not had current or recurrent water quality issues of these types.

Category / Vulnerability	Yes	No	Notes
Are seasonal low flows decreasing for some waterbodies in your region? If so, are the reduced low flows limiting the waterbodies' assimilative capacity?		✓	No, current data does not indicate that seasonal low flows are decreasing, with the exception of drought years.
Are there beneficial uses designated for some water bodies in your region that cannot always be met due to water quality issues?	✓		Yes. For example, municipal and domestic supply is identified as a beneficial use for groundwater in the Region's groundwater basins, but nitrate and arsenic have caused closure of some municipal wells.
Does part of your region currently observe water quality shifts during rain events that impact treatment facility operation?		✓	The Region does not observe water quality shifts of a magnitude that impact treatment facility operation.
<b>Sea Level Rise</b>			
Has coastal erosion already been observed in your region?		✓	The Region is not in a coastal area.
Are there coastal structures, such as levees or breakwaters, in your region?		✓	The Region is not in a coastal area.
Is there significant coastal infrastructure, such as residences, recreation, water and wastewater treatment, tourism, and transportation) at less than six feet above mean sea level in your region?		✓	The Region is not in a coastal area.
Are there climate-sensitive low-lying coastal habitats in your region?		✓	The Region is not in a coastal area.
Are there areas in your region that currently flood during extreme high tides or storm surges?		✓	The Region is not in a coastal area.
Is there land subsidence in the coastal areas of your region?		✓	The Region is not in a coastal area.
Do tidal gauges along the coastal parts of your region show an increase over the past several decades?		✓	The Region is not in a coastal area.
<b>Flooding</b>			
Does critical infrastructure in your region lie within the 200-year floodplain?	✓		The Modesto Wastewater Treatment Plant lies in the 200-year floodplain.
Does part of your region lie within the Sacramento-San Joaquin Drainage District?	✓		Portions of the region along the San Joaquin River lie within this District.
Does aging critical flood protection infrastructure exist in your region?	✓		Aging levees exist in the region.

Category / Vulnerability	Yes	No	Notes
Have flood control facilities (such as impoundment structures) been insufficient in the past?	✓		Small to significant deficiencies occur throughout the Region. An example is the Dry Creek Watershed in the City of Modesto.
Are wildfires a concern in parts of your region?		✓	Land use in the Region is largely agricultural, and wildfire is not a concern within the Region.
<b>Ecosystem and Habitat Vulnerability</b>			
Does your region include inland or coastal aquatic habitats vulnerable to erosion and sedimentation issues?		✓	The relatively flat topography of the Region reduces the potential for erosion and sedimentation issues.
Does your region include estuarine habitats which rely on seasonal freshwater flow patterns?		✓	The region does not include estuarine habitats.
Do climate-sensitive fauna or flora populations live in your region?	✓		Yes. Climate-sensitive species include aquatic fish that are vulnerable to changes in water temperature among other climate effects, and invertebrates such as fairy shrimp that occupy vernal pools, a habitat vulnerable to climate change.
Do endangered or threatened species exist in your region? Are changes in species distribution already being observed in parts of your region?	✓		Endangered species such as steelhead trout and riparian brush rabbit exist in the Region. Changes in species distribution are unknown.
Does the region rely on aquatic or water-dependent habitats for recreation or other economic activities?	✓		Yes, recreation occurs on all the rivers in the Region, such as fishing and boating. In addition, recreational areas exist east of the Region (such as Don Pedro Reservoir, the Tuolumne River, and other locations in the Sierra Nevada), and recreational users travel through Stanislaus County in order to reach these locations.
Are there rivers in your region with quantified environmental flow requirements or known water quality/quantity stressors to aquatic life?	✓		Yes, there are instream flow requirements for the Tuolumne River downstream of Don Pedro Reservoir.
Do estuaries, coastal dunes, wetlands, marshes, or exposed beaches exist in your region? If so, are coastal storms possible/frequent in your region?		✓	The Region is not in a coastal area.
Does your region include one or more of the habitats described in the Endangered Species Coalition's Top 10 habitats vulnerable to climate change?		✓	No, according to the report the Region does not include any habitat vulnerable to climate change.
Are there areas of fragmented estuarine, aquatic, or wetland	✓		Some wetland wildlife habitat exists within the Region, although this is fragmented.

Category / Vulnerability	Yes	No	Notes
wildlife habitat within your region? Are there movement corridors for species to naturally migrate? Are there infrastructure projects planned that might preclude species movement?			
<b>Hydropower</b>			
Is hydropower a source of electricity in your region?	✓		Hydropower is a source of electricity in the Region; the Don Pedro Hydroelectric Project and Tri-Dam Project are among those that provide electricity via hydroelectric facilities.
Are energy needs in your region expected to increase in the future? If so, are there future plans for hydropower generation facilities or conditions for hydropower generation in your region?	✓		Due to rising temperatures and increased irrigation demands, energy needs are expected to increase in the future. Future plans for hydropower generation facilities or conditions for hydropower generation in the region are unknown.

# Appendix E

## SC and PAC Roles and Responsibilities



# East Stanislaus Integrated Regional Water Management Planning Region

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## Steering Committee Roles & Responsibilities

### Introduction

The purpose of the Steering Committee (SC) is to lead the East Stanislaus Integrated Regional Water Management (IRWM) planning and implementation process with direction from and in coordination with the East Stanislaus Regional Water Management Partnership (ESRWMP), the official Regional Water Management Group for the Region.

To help the SC run smoothly and successfully, these Roles and Responsibilities were prepared to govern the way in which the SC makes decisions and provides input to the IRWM planning and implementation process. The Roles and Responsibilities address the following:

- Overall responsibilities of the SC
- Guidance for communication
- Attendance expectations
- Participation during meetings
- Confidentiality of discussion items
- Information sharing
- Decision-making
- Work product review and development
- Media contact
- Amendments to Roles and Responsibilities

### A. Responsibilities

The SC leads preparation and implementation of the East Stanislaus IRWM Plan, including, but not limited to, future updates of the Plan. Representatives of the SC are generally those that are actively managing projects. Responsibilities of the SC include:

- Manage contracts, information/databases, reporting
- Manage the IRWM Plan development and implementation
- Provide guidance to consultants and manage contracts
- Manage budgets and schedule
- Coordinate with the Public Advisory Committee (PAC)
- Present unresolved issues/work tasks to the PAC
- Generally manage the work
- Coordinate and implement the public outreach process
- Manage the East Stanislaus IRWMP website
- Ensure meetings are announced and posted in advance

### *Steering Committee Roles & Responsibilities*

- Coordinate distribution and posting of materials
- Manage the Public Advisory Committee meetings
- Convey Public Advisory Committee's recommendations to the ESRWMP

## **B. Representation and Participation**

The SC members will be asked and encouraged to participate as follows.

- Designate one representative, and if appropriate one alternate, to serve on the SC
- Attend and participate in SC meetings
- Come prepared to the SC meetings by reviewing work products and discussion items prior to the meeting
- When appropriate, specifically represent the interests and needs of any Disadvantaged Community (DAC) lying within the SC member's jurisdiction
- Review and provide timely comments on draft work products
- Adopt, or provide written support for, the East Stanislaus IRWM Plan

Some of these actions are discussed further in the following sections.

1. The goal of the SC is to have representatives of the entities implementing water resources-related projects engaged in discussion related to the IRWM planning and implementation process. The SC will reach consensus on East Stanislaus IRWM Plan content and recommendations and on the means and methods by which the Plan will be implemented. Straw votes may be taken from time to time to gauge the level of agreement on specific issues. Efforts should be made to accommodate the concerns of all parties.
2. The SC is expected to provide guidance to the PAC and to take the PAC's comments and constructive criticism on the IRWM planning process and work items into consideration while making decisions. Additionally, the SC will convey PAC and public comments and concerns to the ESRWMP and will facilitate decision-making at both the PAC and ESRWMP levels.
3. SC members will manage the budget and schedule developed for the IRWM Plan preparation and implementation appropriately to ensure the IRWM Plan is developed on time and within budget and that all subsequent operations are implemented in a likewise manner. The SC will also ensure the PAC is kept apprised of schedule and budget constraints.
4. With the SC's consent, new committee members may be added to the SC after the first meeting is held.
5. Any current member may terminate membership upon submittal of thirty (30) days written notice to the SC. Upon termination, the former member shall have no obligation to participate in the SC. With the SC's consent, a terminating member who wishes to maintain his or her organization's presence on the SC may be replaced.
6. SC membership is completely voluntary and is not a paid (money or in-kind) position.

## *Steering Committee Roles & Responsibilities*

7. Members will be asked to abide by the following procedures to cultivate a venue for constructive discourse.
  - Allow one person speak at a time.
  - Treat one another with respect and common courtesy.
  - Be honest, fair, and as candid as possible.
  - Respect time constraints and be succinct.
  - Civility is required.
  - The personal integrity and values of each member will be respected by other members, including the avoidance of personal attacks and stereotyping.
  - The motivations and intentions of members will not be assumed nor criticized.
  - Come with an open mind and respect for other's interests and differing opinions.
  - Think outside the box and welcome new ideas.
  - Commitments will be kept.
  - Delay will not be employed as a tactic to avoid an undesired result.
  - Disagreements will be regarded as problems to be solved rather than as battles to be won.
8. Every member will check back with their respective entity and will keep them aware of the ongoing IRWM planning and implementation process and specific SC actions. Input from senior staff and/or governing boards of the SC members will be communicated back to the SC at its next meeting. Any dissension from the respective organizations' decision-making bodies that could affect acceptance of SC recommendations will be clearly communicated at each meeting so a solution can be sought.
9. Outstanding issues or concerns of SC members will be brought to the SC first. Members will not communicate their concerns and issues outside of the committee without first bringing them to the SC.
10. Every member is responsible for communicating their position on issues under consideration. It is incumbent upon each member to state the interests of the organization or group they represent. Voicing these interests is essential to enable meaningful dialogue and full consideration of issues by the SC. If a SC member does not attend a SC meeting or communicate their viewpoint on an issue, it is assumed that they agree with decisions and recommendations made by the SC. If a member's interest is conveyed to another member or staff outside of a meeting, the source of that comment will be clearly conveyed to the SC.

## **C. Operational Functions**

1. The SC will develop and maintain a calendar of all scheduled meetings for the both the SC and the PAC, to the extent possible. If a meeting needs to be rescheduled, the SC will coordinate and make every attempt to select a date when a majority of the SC members can attend.



### *Steering Committee Roles & Responsibilities*

2. SC meetings will be scheduled approximately every one to two months on the fourth Thursday of the meeting month. Each meeting is anticipated to require up to two hours. The meetings will be held at a location selected by the SC.
3. The SC provides notice of all meeting types by posting the agenda, meeting date, time, and location on the East Stanislaus IRWM planning website. The SC announces public workshops on the website, as well as notices in both English and Spanish posted in conspicuous locations. The SC ensures the meetings notices are posted with ample time for the public to participate in the meetings.
4. If a member cannot make a scheduled SC meeting, that person shall designate an alternate to attend and represent him or her at that meeting (see Alternates and Observers section.) For continuity, members will minimize their use of alternates to attend and each time an alternate is required, it should be the same individual. The SC member is responsible for briefing the alternate on substantive issues and procedures of the committee. If an alternate is not designated, the SC member should, whenever possible, communicate his or her comments orally or in writing directly to the designated individual(s). SC members also can contact the designated individual(s) at any time to discuss their concerns and needs related to this dialogue.
5. If more than two consecutive SC meetings are missed by a member, the SC members may determine that, in the best interest of the East Stanislaus IRWM planning process, the member should be replaced.
6. All written materials to be discussed at the SC meetings will be mailed one week before the meeting date. Materials must be reviewed by members prior to the meeting in an effort to maximize time for constructive discussion. SC members will be selected/volunteer to coordinate these aspects of the group.
7. SC members (as a whole or as designated individual(s)) will prepare a list of the key issues, recommendations, and action items based on discussions and results of SC meetings. These summaries will be submitted to the SC members prior to the next meeting.

### **D. Decision Process**

1. This SC has been established to guide the IRWM planning and implementation process and to ensure a collaborative, consensus-based IRWM Plan is developed and implemented for the East Stanislaus Region. Although consensus (when all members are in full or substantial agreement) is the goal, a majority opinion on key recommendations may be necessary. The decision-making goal is to have all SC members agree on the item at hand, with no member objecting to a decision or an agreement.
2. If, after a thorough discussion, full or substantial agreement is not reached, then a vote will be taken. SC members can vote “yes”, “neutral” (not optimal, but comfortable with the decision), or “no” (active opposition to a particular decision). If a majority of attending members register a “no” vote, then the proposal is not advanced as an agreed upon SC recommendation.

### *Steering Committee Roles & Responsibilities*

3. The SC's final agreement on the East Stanislaus IRWM Plan is expected to take the form of a written statement, signed by the SC members and included in the final plan.
4. As part of the process of making decisions and developing recommendations, members are encouraged to brainstorm and think creatively. Members are encouraged to put forward tentative proposals for consideration which may later be withdrawn.
5. Preconceived conclusions on issues under discussion by the SC should be avoided to facilitate an objective result.

### **D. Development of Work Products**

1. The SC will help develop and support the East Stanislaus IRWM Plan. To ensure an efficient and productive use of SC member time and to be able to achieve the highest quality products, designated SC members, consultants, and/or PAC working groups will develop draft work products for review and comment by all SC and PAC members. Members will offer specific advice about various components of the overall approach and specific tasks in progress. All comments from the PAC will be directed to the SC for further discussion and consideration.
2. SC member comments on written documents under consideration should be made on the actual documents so they can be easily understood and integrated into the revised text of a document. It is understood that the SC's primary goal for written products is to agree on substantive policies, principles, and recommendations and not to debate the detailed wording of documents.
3. As SC members discuss and make decisions on issues, methodologies and work products, the document preparers will assist SC members by drafting language that reflects the viewpoints of the group. Draft statements or edits to work products that are prepared in this manner will then be circulated for review by all SC members. The final version of the work product or statement of decisions will be presented at the next SC meeting for agreement.
4. Members are asked to provide pertinent information for items under discussion at all meetings. This means that members have an obligation to share any specific information, including possible or pending decisions within or by the organizations they represent, as well as information in the form of reports, memos, and studies which may affect the discussions and recommendations by the members. Tentative or sensitive information will be treated as such.

### **E. Alternates and Observers**

1. SC alternates shall be designated for the life of the East Stanislaus IRWM process to provide continuity; they will be provided meeting materials prior to each meeting at the same time as the designated SC members.
2. When not representing the SC members, alternates may sit with SC members during the meeting when seating is available. SC members have priority seating.

## *Steering Committee Roles & Responsibilities*

3. SC meetings are open to the general public and directly engage the public, as needed, such as times when public input is solicited for on deliverables. During the public meetings, observers and the general public can provide comments if 1) time allows, 2) it is constructive, and 3) it is kept to a minimal amount of time.
4. Observers, including representatives of the media, are welcome to attend SC meetings that are open to the public during times when public input is solicited. Media are requested to identify themselves to the facilitators prior to the start of each meeting. Facilitators will provide a copy of this guidance document to observers, if necessary.

### **F. Media Contact**

1. If approached by the media, members of the SC will be careful to present only their own views and not those of other members on the SC. Members are encouraged to suggest that media representatives contact other SC members who may have different points of view.
2. While the SC is studying, discussing, or evaluating issues, members will not initiate media contact or make public statements except as mutually agreed by the members. No statements prejudging outcomes will be made to the media. Violation of this will result in the member being removed from the SC.
3. If it so desires, the SC may form a media working group, representing all interests serving on the SC, to jointly draft periodic press releases to accurately convey the proceedings of the SC to the media. These press releases will then be coordinated and released by the designated individual(s), with their professional input. If consensus is reached on items to release to the media, a SC spokesperson will be appointed to highlight only those issues agreed upon by the entire SC.

### **G. Amendments**

The initial version of these SC Roles and Responsibilities will be implemented after discussion and acceptance at the first SC meeting. Amendments to these guidelines will be made upon the consensus approval, or if necessary, majority approval of the SC present at any given regularly scheduled meeting.

# East Stanislaus Integrated Regional Water Management Planning Region

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## Public Advisory Committee Roles & Responsibilities

### Introduction

The purpose of the Public Advisory Committee (PAC) is to represent a diverse set of East Stanislaus IRWM Planning Region stakeholder interests in a central and guiding role in developing the East Stanislaus IRWM Plan. In that role, the PAC will provide input on various aspects of the IRWM planning process and related work products, and provide input and recommendations to the East Stanislaus Regional Water Management Partnership (ESRWMP) and the Steering Committee (SC). Consensus will be sought on all PAC-reviewed work products and decisions. The PAC is the first tier of decision-making in the ESIRWM region's governance structure, and provides recommendations for developing project prioritization methodologies to the SC, helps screen and rank projects, contributes to methodology for inclusion of projects in grant applications, provides direct public communication and seeks public feedback and input, and conducts other actions as directed. Members of the PAC are expected to represent the views of their organization or interest group within the community, commit time to take part in the process, and work collaboratively with other members, project staff (e.g., project manager, project consultants), the general public as they participate, and the ESRWMP and SC. The PAC receives direction and tasks to complete from the SC.

Participants in the PAC can include local residents, industry, community leaders/representatives, public agencies, community organizations, key watershed stakeholders, local college students, and representatives of disadvantaged communities and tribal communities. PAC members will provide input about various aspects of East Stanislaus Regional water and environmental resources. Member opinions, recommendations, and other contributions will be important factors in the success of IRWM planning within the Region.

To help the PAC run smoothly and be successful, Roles and Responsibilities are outlined herein and will be agreed upon by the members. The Roles and Responsibilities will govern the way in which the PAC makes decisions and provides input to the IRWM planning process. The Roles and Responsibilities address the following:

- Guidance for communication
- Attendance expectations
- Participation during meetings
- Confidentiality of discussion items
- Information sharing
- Decision-making
- Work product review and development

## *Public Advisory Committee Roles & Responsibilities*

- Media contact
- Amendments to Roles and Responsibilities

## **A. Representation and Participation**

The PAC members will be asked and encouraged to participate as follows.

- Designate one representative, and if appropriate one alternate, to serve on the PAC
- Attend and participate in PAC meetings
- Come prepared to the PAC meetings by reviewing work products and discussion items prior to the meeting
- When appropriate, specifically represent the interests and needs of any Disadvantaged Community (DAC) lying within the PAC member's jurisdiction
- Review and provide timely comments on draft work products
- Adopt, or provide written support for, the East Stanislaus IRWM Plan

Some of these actions are discussed further in the following sections.

1. The goal of the PAC is to have stakeholders and the general public engaged in discussion related to the IRWM planning process and to reach consensus on East Stanislaus IRWM Plan content and recommendations. Straw votes may be taken from time to time to gauge the level of agreement on specific issues. Efforts should be made to accommodate the concerns of all parties.
2. The PAC is expected to provide comments, support and constructive criticism on the IRWM planning process and work items. As often as possible, project staff will incorporate or otherwise reflect the comments and recommendations of the PAC members into East Stanislaus Region work products. If the comments and recommendations of the members are not consistent with the ESRWMP's expectations, discussions will be held at the PAC meetings to fully explain positions.
3. PAC members should be aware of the budget and schedule constraints that drive the project and be comfortable in working within these constraints.
4. With the PAC's consent, new committee members may be added to the PAC after the first meeting is held.
5. Any current member may terminate membership upon submittal of thirty (30) days written notice to the PAC. Upon termination, the former member shall have no obligation to participate in the PAC. With the PAC's consent, a terminating member who wishes to maintain his or her organization's presence on the PAC may be replaced.
6. PAC membership is completely voluntary and is not a paid (money or in-kind) position.
7. Members will be asked to abide by the following procedures to cultivate a venue for constructive discourse.
  - Allow one person speak at a time.
  - Treat one another with respect and common courtesy.
  - Be honest, fair, and as candid as possible.

## *Public Advisory Committee Roles & Responsibilities*

- Respect time constraints and be succinct.
  - Civility is required.
  - The personal integrity and values of each member will be respected by other members, including the avoidance of personal attacks and stereotyping.
  - The motivations and intentions of members will not be assumed nor criticized.
  - Come with an open mind and respect for other's interests and differing opinions.
  - Think outside the box and welcome new ideas.
  - Commitments will be kept.
  - Delay will not be employed as a tactic to avoid an undesired result.
  - Disagreements will be regarded as problems to be solved rather than as battles to be won.
8. Every member will check back with their respective entity and will keep them informed of the ongoing PAC process and actions. Input from senior staff and/or governing boards of the PAC members will be communicated back to the PAC at its next meeting. Any dissension from the respective organizations' decision-making bodies that could affect acceptance of PAC recommendations will be clearly communicated at each meeting so a solution can be sought.
  9. Outstanding issues or concerns of PAC members will be brought to the PAC first. Members will not communicate their concerns and issues outside of the committee without first bringing them to the PAC.
  10. Every member is responsible for communicating their position on issues under consideration. It is incumbent upon each member to state the interests of the organization or group they represent. Voicing these interests is essential to enable meaningful dialogue and full consideration of issues by the PAC. If a PAC member does not attend a PAC meeting or communicate their viewpoint on an issue, it is assumed that they agree with decisions and recommendations made by the PAC. If a member's interest is conveyed to another member or project staff outside of a meeting, the source of that comment will be clearly conveyed to the PAC.

## **B. Operational Functions**

1. The SC will develop a calendar of all scheduled meetings for the PAC, to the extent possible. If a meeting needs to be rescheduled, the SC will coordinate and make every attempt to select a date when a majority of the PAC members can attend.
2. PAC meetings will be scheduled approximately every two to three months. Each meeting is anticipated to require up to two hours. The meetings will be held at various locations, to be determined prior to the meeting date, at a location(s) preferred by PAC members is selected.
3. If a member cannot make a scheduled PAC meeting, that person can designate an alternate to attend and represent him or her at that meeting (see Alternates and Observers section.) For continuity, members will minimize their use of alternates to attend and each time an

## *Public Advisory Committee Roles & Responsibilities*

- alternate is required, it should be the same individual. The PAC member will notify the East Stanislaus project staff in advance. The PAC member is responsible for briefing the alternate on substantive issues and procedures of the committee. If an alternate is not designated, the PAC member should, whenever possible, communicate his or her comments orally or in writing directly to the project staff. PAC members also can contact the project staff at any time to discuss their concerns and needs related to this dialogue.
4. If more than two consecutive PAC meetings are missed by a member, project staff may determine that, in the best interest of the East Stanislaus IRWM planning process, the member should be replaced.
  5. The PAC, with the assistance of project staff, may select members or non-PAC public to serve in smaller technical working groups to address specific topics or issues being considered by the PAC. Working groups will present their work to the PAC for its consideration. The working groups under the direction of the PAC will have the same procedures and guidelines as the PAC.
  6. All written materials to be discussed at the PAC meetings will be mailed 10 days before the meeting date. Materials must be reviewed by members prior to the meeting in an effort to maximize time for constructive discussion.
  7. The project staff will prepare a list of the key issues, recommendations, and action items based on discussions and results of PAC meetings. These summaries will be submitted to the PAC members prior to the next meeting.

### **C. Decision Process**

1. This PAC has been established to allow stakeholders to contribute their knowledge and opinions to the overall East Stanislaus IRWM planning process. Although consensus (when all members are in full or substantial agreement) is the goal, a majority opinion on key recommendations may be necessary. The decision-making goal is to have all PAC members agree on the item at hand, with no member objecting to a decision or an agreement.
2. If, after a thorough discussion, full or substantial agreement is not reached, then a vote will be taken. PAC members can vote “yes”, “neutral” (not optimal, but comfortable with the decision), or “no” (active opposition to a particular decision). If a majority of attending members register a “no” vote, then the proposal is not advanced as an agreed upon PAC recommendation. Since this is an advisory committee, the need for a vote would be an unusual occasion and would simply reflect how the majority of the PAC feels about an issue. If the ESRWMP feels strongly about support for a recommendation, it will move forward with a clear delineation of majority and minority viewpoints, and the reasons why such differences continue and how the PAC will continue to move forward despite these differences will be documented. Inclusion of such a description of remaining areas of disagreement in the meeting summary notes is consistent with support for the plan as a whole.
3. Technical working groups established by the PAC will develop recommendations or proposals for PAC consideration. Working groups will not have decision-making authority.

## *Public Advisory Committee Roles & Responsibilities*

- Decisions on whether to incorporate the working group recommendations into the PAC recommendations will be made by majority approval among the PAC members.
4. The PAC's final agreement on the East Stanislaus IRWM Plan is expected to take the form of a written statement, signed by the PAC members and included in the final plan.
  5. As part of the process of making decisions and developing recommendations, members are encouraged to brainstorm and think creatively. Members are encouraged to put forward tentative proposals for consideration which may later be withdrawn.
  6. Preconceived conclusions on issues under discussion by the PAC should be avoided to facilitate an objective result.

### **D. Development of Work Products**

1. The PAC will help support the East Stanislaus IRWM Plan development and provide input to the SC throughout the planning process. To ensure an efficient and productive use of PAC member time, and to be able to achieve the highest quality products, project staff will develop draft work products for review and comment by PAC members. Members will offer specific advice about various components of the overall approach and specific tasks in progress. All comments will be directed to the SC for further discussion and consideration.
2. PAC member comments on written documents under consideration should be made on the actual documents and submitted to project staff so they can be easily understood and integrated into the revised text of a document. It is understood that the PAC's primary goal for written products is to agree on substantive policies, principles, and recommendations and not to debate the detailed wording of documents.
3. As PAC members discuss and make decisions on issues, methodologies and work products, the project staff will assist PAC members by drafting language that reflects the viewpoints of the group. Draft statements or edits to work products that are prepared in this manner will then be circulated for review by all PAC members. The final version of the work product or statement of decisions will be presented at the next PAC meeting for agreement.
4. Members are asked to provide pertinent information for items under discussion at all meetings. This means that members have an obligation to share any specific information, including possible or pending decisions within or by the organizations they represent, as well as information in the form of reports, memos, and studies which may affect the discussions and recommendations by the members. Tentative or sensitive information will be treated as such.

### **E. Alternates and Observers**

1. PAC alternates designated as such for the life of the East Stanislaus IRWM planning and implementation process will be provided meeting materials prior to each meeting at the same time as the designated PAC members.
2. When not representing the PAC members, alternates may sit with PAC members during the meeting when seating is available. PAC members have priority seating.
3. ESRWMP and SC members may attend PAC meetings as they wish.



### *Public Advisory Committee Roles & Responsibilities*

4. Observers, including representatives of the media, are welcome to attend PAC meetings, and are requested to identify themselves to the facilitators prior to the start of each meeting. Facilitators will provide a copy of this guidance document to observers, if necessary.
5. Observers and the general public can attend any and all PAC meetings and provide comment on any item, whether it is included on the meeting agenda or not, if 1) time allows, 2) is constructive, 3) kept to a minimal amount of time.

### **F. Media Contact**

1. If approached by the media, members of the PAC will be careful to present only their own views and not those of other members on the PAC. Members are encouraged to suggest that media representatives contact other PAC members who may have different points of view.
2. While the PAC is studying, discussing, or evaluating issues, members will not initiate media contact or make public statements except as mutually agreed by the members. No statements prejudging outcomes will be made to the media. Violation of this will result in the member being removed from the PAC.
3. If it so desires, the PAC may form a media working group, representing all interests serving on the PAC, to jointly draft periodic press releases to accurately convey the proceedings of the PAC to the media. These press releases will then be coordinated and released by the project staff, with their professional input. If consensus is reached on items to release to the media, a PAC spokesperson will be appointed to highlight only those issues agreed upon by the entire PAC.

### **G. Amendments**

The initial version of these PAC Roles and Responsibilities will be implemented after discussion and acceptance at the first PAC meeting. Amendments to these guidelines will be made upon the consensus approval, or if necessary, majority approval of the PAC present at any given regularly scheduled meeting.

# Appendix F

## Outreach and Communications Plan



# East Stanislaus Integrated Regional Water Management Planning Region

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## Outreach and Communications Plan

### 1 Background

The purpose of this Stakeholder Outreach and Communications Plan is to specify the identified methodology and approach to ensuring the timely dissemination of information associated with preparation and implementation of an Integrated Regional Water Management (IRWM) Plan for the East Stanislaus IRWM Region. Specific focus is placed on outreach to disadvantaged communities (DACs), economically distressed area (EDA) representatives, Native American tribes, and conservation organizations.

The East Stanislaus Regional Water Management Partnership (ESRWMP), formed through execution of a Memorandum of Understanding (MOU) for IRWM planning, originally consisted of the Cities of Modesto, Ceres, Turlock, and Hughson. The ESRWMP finalized and adopted its first IRWM Plan in 2013. In 2017, the MOU was revised to include the City of Waterford and Stanislaus County as new members of the ESRWMP, and an update to the 2013 IRWMP was initiated. In the future, it is possible that other agencies in the Region may want to join the ESRWMP; this action would be taken through revision and reexecution of the ESRWMP MOU. IRWMP Updates will continue in the future in accordance with the California Department of Water Resources (DWR) IRWM Guidelines.

The ESRWMP understands the importance of engaging stakeholders and the general public throughout the water management planning and IRWM process and therefore provides various avenues for participation. This Stakeholder Outreach and Communications Plan will guide stakeholder outreach throughout the East Stanislaus IRWM planning and implementation process and will work to facilitate relationship building by promoting the active participation of local stakeholders through the entire process.

### 2 Outreach Goals and Objectives

The goal of the Stakeholder Outreach and Communications Plan is to ensure that the public is both aware of and a part of the IRWM planning and implementation process in the East Stanislaus Region in order to develop a collaborative water management portfolio prioritized on the regional goals and objectives. The objectives of the Outreach Plan include, but are not limited to:

- Fostering coordination, collaboration, and communication among regional and local agencies responsible for water-related issues to achieve greater efficiencies, and to build public support for vital projects.

- Sharing findings and soliciting community comments on draft project work products.
- Responding quickly and effectively to any questions or concerns that may arise during the IRWM planning process.
- Involving key stakeholders which represent most, if not all, East Stanislaus IRWM Region key interests and secure their support of the process with well-balanced representation and commitment.
- Sustaining Public Advisory Committee (PAC) and Steering Committee (SC) member participation and level of effort through project completion.
- Establishing contacts within local organizations that can assist in broadening outreach efforts by communicating IRWM planning efforts and encouraging participation within their group.

### **3 Key Messages**

To help the public and stakeholders understand the need for IRWM planning within the East Stanislaus Region, the ESRWMP has identified the key messages defining why an IRWM Plan is necessary and reasons for the associated collaboration among stakeholders.

1. The purpose of the East Stanislaus IRWM planning process is to develop an IRWM Plan outlining shared conflicts and issues, and to identify projects that will address these issues; by developing an IRWM Plan, the solutions will have multi-benefits and beneficiaries.
2. The East Stanislaus IRWM Plan will enable the Region to compete for future rounds of available funding through Proposition 1 and from future funding initiatives. Proposition 1, the Water Quality, Supply, and Infrastructure Improvement Act of 2014, authorized Legislature to appropriate \$510 million for IRWM projects that assist local public agencies in meeting long-term water needs. Proposition 1 also authorized Legislature to appropriate \$200 million for grants for multi-benefit stormwater flood management projects.
3. Cooperation and coordination among regional stakeholders, as well as input and comments from stakeholders, will help maximize the benefits realized within the East Stanislaus Region and ensure an IRWM Plan developed on a consensus-based approach is prepared.

These key messages will continue to be emphasized at all meetings, but especially highlighted at the initial public meetings that occurs at the beginning of the IRWMP update process. In addition, the key messages will be emphasized on the East Stanislaus IRWM website (<http://www.eaststanirwm.org/>) media interviews, and project collateral pieces. The ESRWMP understands that individual stakeholders' concerns, interests, comments and suggestions will differ.

## **4 Stakeholder Involvement and Outreach**

### **4.1 Overview**

In order to engage stakeholders, including disadvantaged and tribal communities, the East Stanislaus Region conducts various meetings that are open to the public. At the beginning of an update process,

the ESRWMP will conduct an initial workshop to announce the IRWMP update, and give background information on the East Stanislaus Region. At this meeting, contact information of all meeting attendees will be compiled and a stakeholder list will be created. The stakeholder contact list will continually be updated as new persons, entities, and organizations express interest in the IRWM planning process.

In addition to providing general information about the IRWM planning process, a PAC invitation will be distributed so that stakeholders who want to become a member of the PAC can voice their interest in doing so, understanding that they will attend regularly scheduled meetings and are committing to a designated person or alternate in attendance. The PAC serves as one venue for conveying stakeholders input, comments, interests and ideas to the planning process.

The public outreach process for the East Stanislaus Region provides stakeholders with two options for involvement: (1) general public participation at the ESRWMP, SC, and PAC meetings, and (2) involvement through participation as a member of the PAC. This format ensures both a balanced and diverse collection of stakeholders due to the flexibility in the level of commitment and involvement for those interested.

The following methods are used to not only disseminate information to stakeholders, disadvantaged and tribal communities and the general public, but to allow stakeholders and the public to provide input, ask questions, and participate in the planning process and IRWM Plan development process:

- ESRWMP, SC, and PAC meetings, Public Workshops
- East Stanislaus IRWM planning website (<http://www.eaststanirwm.org/>)
- Handouts, newsletters, advertisements, press releases or special events

The methods for public involvement are discussed in more detail in the following sections.

## **4.2 Public Outreach**

In order to make the public both aware of and a part of the regional water management planning and IRWM planning efforts within the Region, various methods will be applied to reach a varied audience. Public workshops will be conducted to introduce the IRWM process and, as needed, to update the public at key junctures in the regional water management process and to allow for public input. The ESRWMP will conduct meetings for themselves, the SC, and the PAC. The public will be allowed to attend SC and PAC meetings and provide comments on both agendized and non-agendized items. The public may also attend open sessions of ESRWMP meetings to provide comments on agendized items only (similar to the way City Council meetings are conducted). The SC provides notice of all meeting types by posting the agenda, meeting date, time, and location on the East Stanislaus IRWM planning website. In addition to the website, public workshops will also be announced with the use of meeting notices in both English and Spanish posted at conspicuous locations. The SC ensures the workshop notices are posted with ample time for the public to participate in the meetings. Additionally, as documents are developed and public review is solicited, copies are placed in public libraries for public access and on the Region's website.

Other mechanisms that can be used to ensure public awareness of the East Stanislaus IRWM process include the development and distribution of brochures, fact sheets, IRWM process status newsletters, and brief updates. Hard copies would be available at meetings and electronic copies would be sent to the email distribution list and posted on the Region's website.

The East Stanislaus Region maintains a Region-specific website. The ESRWMP members will include a link to the regional website on their respective websites. The brochures, handouts and other documents developed as part of the IRWM process would also be made available on the website for others to view.

### **4.3 Public Input**

There are multiple ways for public to gain access to the ESRWMP and the overall IRWM process. The ESRWMP makes information available to the general public, including the status of the IRWM process and upcoming decisions to be made, through the handouts and website. If a member of the general public or a stakeholder has questions and comments, they are directed to a designated contact. At present, the designated contact is Jim Alves at the City of Modesto at 209-571-5557.

The public can provide input to the ESRWMP by attending the meetings, calling the provided contact, or emailing the contact with comments and questions. The designated contact discusses the questions and comments received with the SC, who takes the public input into consideration and responds to each call or email, as appropriate. If the ESRWMP receives public comment directly, they provide the comments/input to the SC to consider and respond to as appropriate.

In order to address the diversity of water management issues, geographical representation and stakeholder interests within the East Stanislaus Region, the ESRWMP will identify and directly invite a variety of parties to participate in meetings, committees and subcommittees. These include irrigation districts, cities, small communities, nonprofit organizations, sanitation districts, community service districts, local colleges, and the County.

### **4.4 Committees**

#### **Steering Committee**

The purpose of the SC is to lead the East Stanislaus IRWM planning and implementation process with direction from and in coordination with the ESRWMP. The SC leads preparation and implementation of the IRWM Plan and future updates of the Plan. Representatives of the SC are generally those that are actively managing projects. Responsibilities of the SC include:

- Manage contracts, information/databases, reporting
- Manage the IRWM Plan development and implementation
- Provide guidance to consultants and manage contracts
- Manage budgets and schedule
- Coordinate with the PAC
- Present unresolved issues/work tasks to the PAC

## *Outreach and Communications Plan*

- Generally manage the work
- Coordinate and implement the public outreach process
- Manage the East Stanislaus IRWM website
- Ensure meetings are announced and posted in advance
- Coordinate distribution and posting of materials
- Manage the PAC meetings
- Convey PAC's recommendations to the ESRWMP

SC meetings are open to the general public and directly engage the public, as needed, such as times when public input is solicited on deliverables. During the public meetings, stakeholders can provide comments on agendized and non-agendized items.

### **Public Advisory Committee**

As previously mentioned, at the initial public meeting, persons and entities interested in participating in the PAC will be invited to sign-up for participation on the committee. The purpose of the PAC is to represent a diverse set of East Stanislaus Region stakeholder interests and have a central and guiding role in developing and implementing the East Stanislaus IRWM Plan. The PAC will provide input on various aspects of the IRWM planning process and related work products; consensus will be sought on all PAC-reviewed work products. Whenever consensus cannot be reached, the IRWM Plan will reflect the opinion of the majority of PAC members with minority opinions documented in the meeting minutes. The PAC members will be asked and encouraged to participate as follows.

- Designate one representative, and if appropriate one alternate, to serve on the PAC
- Attend and participate in PAC meetings
- When appropriate, specifically represent the interests and needs of any DAC located within the PAC member's jurisdiction
- Review and provide timely comments on draft work products
- Adopt, or provide written support for, the East Stanislaus IRWM Plan

To help the PAC run smoothly and be successful, Roles and Responsibilities will be outlined and agreed upon by the members. The Roles and Responsibilities will govern the way in which the PAC makes decisions and provides input to the IRWM planning process. The Roles and Responsibilities will address the following:

- Guidelines for communication
- Attendance expectations
- Participation during meetings
- Confidentiality of discussion items
- Information sharing
- Decision-making
- Work product review and development
- Media contact
- Amendments to Roles and Responsibilities

## **5 Disadvantaged Communities Outreach**

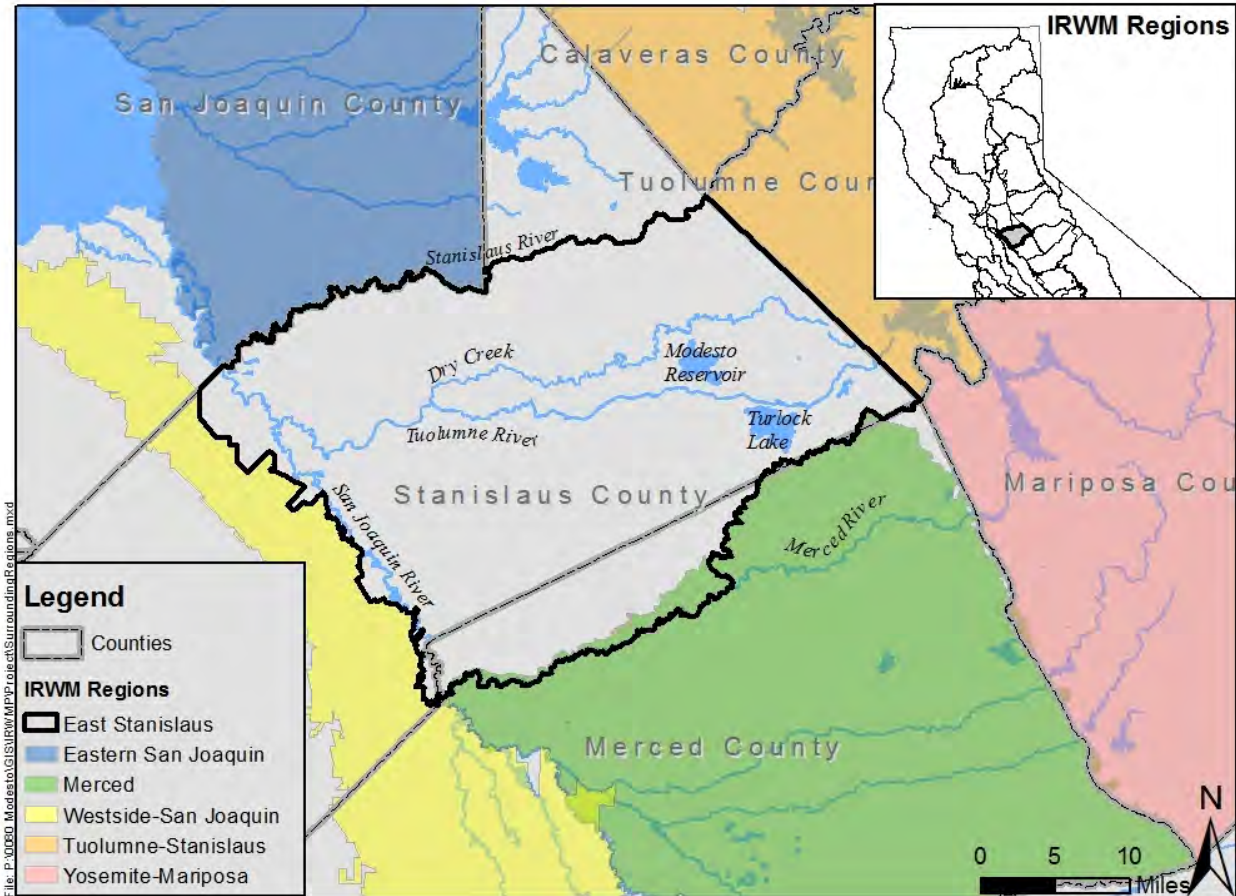
A DAC, according to the State of California (CA Water Code, Section 79505.5(a)), is a community with a Median Household Income (MHI) less than 80 percent of the California statewide household income. Severely disadvantaged communities (SDACs) are communities with a MHI less than 60 percent of the statewide household income. For the purposes of this Plan, the term “DACs” will be used to encompass both DACs and SDACs. Each time the IRWMP is updated, DACs will be determined using the most recent, accurate Census data available. The DAC analysis will be summarized in the East Stanislaus IRWM for reference. Involvement and participation by representatives of DACs during the East Stanislaus IRWM planning process will be solicited and encouraged to help understand the issues confronted by DACs and better address the needs of minority and/or low-income communities. Objectives of specific outreach to DACs include:

- Solicit involvement by individual representatives from DACs within the East Stanislaus Region and encourage participation by those representatives as members of the PAC.
- For DACs which do not have designated community representatives on the PAC, encourage other PAC members to specifically advocate and represent the interests of those DACs which may lie within a PAC member’s jurisdiction or area of special interest.
- Inform representatives and residents of DACs via flyers and newspaper notices about opportunities to get involved with the East Stanislaus IRWM planning process and participate in development, integration, and prioritization of projects.

## **6 Inter-Regional Coordination**

The East Stanislaus region borders the Eastern San Joaquin, Westside-San Joaquin, Yosemite-Mariposa, and Tuolumne-Stanislaus IRWM regions and has a slight overlap with the Merced region as depicted in the following figure.





The East Stanislaus Region was developed to fill in the obvious void in IRWM coverage in the Central Valley. When determining the boundaries for the Region, however, natural water boundaries were also important so that the Region would make sense from a watershed perspective, given the region’s use of surface water as part of its supply and distinct features. This criterion resulted in a triangular area in the north-eastern portion of Stanislaus County being uncovered by the East Stanislaus Region. It is not in the Modesto groundwater basin, which was used to determine the northern boundary and its surface water drains into the East San Joaquin Region. This area overlies the Eastern San Joaquin groundwater basin, an area mostly covered by the Eastern San Joaquin IRWM Region.

The ESRWMP has an ongoing relationship with members of the Westside-San Joaquin region in which members of the ESRWMP have attended meetings with the Westside-San Joaquin Region and participated in the planning process.

The ESRWMP plans to continue cultivating relationships with the neighboring IRWM Regions. The ESRWMP will discuss water management strategies that have been or will be employed by each of the neighboring IRWM Regions to identify opportunities for inter-regional collaboration and to optimize management strategies. In order to streamline and formalize communication, regions may develop protocols for inter-regional coordination and communication. Once these protocols are finalized, the Outreach and Communication Plan would be amended to include them as an appendix. Letters of Cooperation may also be developed with surrounding regions which would outline methods for

*Outreach and Communications Plan*

communication and coordination. The surrounding regions have public meetings that representatives from the East Stanislaus Region could attend periodically to stay up to date on the regions' progress. Meeting schedules are listed on each region's website, with websites listed in the table below.

Region	Website
Eastern San Joaquin	<a href="http://gbawater.org/IRWMP">http://gbawater.org/IRWMP</a>
Tuolumne-Stanislaus	<a href="http://tstan-irwma.org/">http://tstan-irwma.org/</a>
Merced	<a href="http://mercedirwmp.org/">http://mercedirwmp.org/</a>
Yosemite-Mariposa	<a href="https://mcrcd.sharepoint.com/Pages/IRWMP.aspx">https://mcrcd.sharepoint.com/Pages/IRWMP.aspx</a>
Westside-San Joaquin	<a href="http://www.sldmwa.org/integrated-regional-water-management-plan/">http://www.sldmwa.org/integrated-regional-water-management-plan/</a>

# Appendix G

## Public Notices



NOTICE OF INTENT OF THE EAST STANISLAUS REGIONAL WATER MANAGEMENT PARTNERSHIP TO PREPARE AN UPDATE TO THE EAST STANISLAUS INTEGRATED REGIONAL WATER MANAGEMENT PLAN

NOTICE IS HEREBY GIVEN that the East Stanislaus Regional Water Management Partnership (ESRWMP) intends to prepare an update of the Integrated Regional Water Management Plan (IRWMP) for the East Stanislaus IRWM Region. The IRWMP is intended to encourage collaboration among participants to integrate regional strategies for management of water resources. The IRWMP update will ensure continued compliance with the most recent State guidelines, which were released in 2016.

All interested persons are invited to attend the next Public Advisory Committee (PAC) meeting scheduled for June 26, 2017 (via conference call) and an upcoming public workshop tentatively scheduled for July 2017 to learn more about the update of the plan and how to participate. Information related to the upcoming PAC conference call, public workshop, and the update of the IRWMP will be posted at the East Stanislaus IRWMP website: <http://www.eaststanirwm.org/>. If you have any questions, please call Jim Alves in the City of Modesto Utilities Department at (209) 571-5557 any weekday from 8:00 a.m. to 5:00 p.m.

**NOTICE OF PUBLIC MEETING  
CITIES OF MODESTO, TURLOCK, CERES, HUGHSON, AND WATERFORD, AND  
STANISLAUS COUNTY**

**PUBLIC MEETING FOR THE EAST STANISLAUS REGIONAL WATER MANAGEMENT  
(IRWM) PLAN. THE MEETING WILL PRESENT AN OVERVIEW OF THE IRWM PLAN  
UPDATE PROCESS AND WILL DISCUSS OPPORTUNITIES FOR PUBLIC PARTICIPATION  
AND COMMENT DURING THE PLAN UPDATE PROCESS.**

NOTICE IS HEREBY GIVEN that a public meeting will be held by the Cities of Modesto, Turlock, Ceres, Hughson, and Waterford, and Stanislaus County, on behalf of the East Stanislaus Regional Water Management Partnership at 5:30 PM on August 15, 2017, at the Ceres Community Center, 2701 Fourth St., Ceres, California, for the purpose of notifying and informing the public about opportunities to participate in the update of the East Stanislaus IRWM Plan. The Project Review Process, including how to submit projects for inclusion in the IRWM Plan Update, will also be reviewed.

All interested persons are invited to attend the public meeting at the above time and place to learn about and participate in project solicitation for the East Stanislaus IRWM Plan. This meeting is an opportunity for residents to learn about the State's IRWM Program, to see a presentation summarizing the IRWMP update process, and to learn how they can participate in the Plan update and submit projects or comments for incorporation into the Plan. If you have any questions, please call Jim Alves in the Utilities Department, City of Modesto at (209) 571-5557, any weekday from 8:00 a.m. to 5:00 p.m.

**NOTICIA DE JUNTA PÚBLICA  
DE LA CIUDAD DE MODESTO, TURLOCK, CERES, HUGHSON, WATERFORD, Y  
EL CONDADO DE STANISLAUS**

**JUNTA PÚBLICA PARA EL PLAN DE ADMINISTRACION INTEGRAL DEL AGUA REGIONAL DEL ESTE DE STANISLAUS! DURANTE LA JUNTA VA A HABER UNA PRESENTATION SOBRE EL PROCESO DE ACTUALIZACION DEL PLAN Y VA A HABER UNA DISCUSION SOBRE LAS OPORTUNIDADES PARA QUE EL PUBLICO PUEDA PARTICIPAR Y COMMENTAR DURANTE EL PROCESO DE ACTUALIZACION DEL PLAN**

SE LES AVISA de la junta publica dada por las Ciudades de Modesto, Turlock, Ceres, Hughson, Waterford y el Condado de Stanislaus, por parte del Grupo de Administración del Agua Regional del Este de Stanislaus a las 5:30 de la tarde del 15 de agosto del 2017, en el centro comunitario de la ciudad de Ceres localizado en el 2701 4th Street en Ceres, California, para los propósitos de notificar e informar al público sobre las oportunidades para participar en la actualización del plan para la Administración Integral del Agua Regional del Este de Stanislaus. El proceso de revisar proyectos incluyendo como entregar proyectos para incluir los en la actualización del plan de Administración Integral del Agua Regional también será revisado.

Todas las personas interesadas están invitadas a asistir a dicha junta pública en el horario y lugar mencionado para aprender y participar en la solicitud de proyectos en el Plan de la Administración Integral del Agua Regional del Este de Stanislaus. Esta junta es una oportunidad para los residentes de aprender acerca de este programa, para ver una presentación resumiendo el proceso de actualización del plan, y aprender cómo puede participar en la actualización del Plan y presentar proyectos o comentarios para su incorporación al Plan. Si tiene preguntas por favor de ponerse en contacto con el Ing. Miguel Alvarez del departamento de utilidades de la Ciudad de Modesto al Tel. 209-577-5348 cualquier día de la semana de 8:00 de la mañana a 5:00 de la tarde.

**NOTICE OF PUBLIC DRAFT OF THE  
2017 EAST STANISLAUS INTEGRATED REGIONAL WATER MANAGEMENT  
PLAN AND PUBLIC MEETING  
CITIES OF MODESTO, TURLOCK, CERES, HUGHSON, AND WATERFORD, AND  
STANISLAUS COUNTY**

NOTICE IS HEREBY GIVEN that the public draft of the 2017 East Stanislaus Integrated Regional Water Management (IRWM) Plan is available for review. A copy of the East Stanislaus IRWM Plan can be obtained on the Region's website at <http://www.eaststanirwm.org/Documents/> on or after December 11, 2017. To request a hard copy of the Plan or if you have any questions, please call Jim Alves, Associate Civil Engineer in the Capital Planning Group of the Utility Planning and Projects Department, City of Modesto at (209) 571-5557, any weekday from 8:00 a.m. to 5:00 p.m. Comments on the IRWM Plan are requested by January 22, 2018 via email to [jalves@modestogov.com](mailto:jalves@modestogov.com) or mailed to Jim Alves, P.O. Box 642, Modesto, CA 95353.

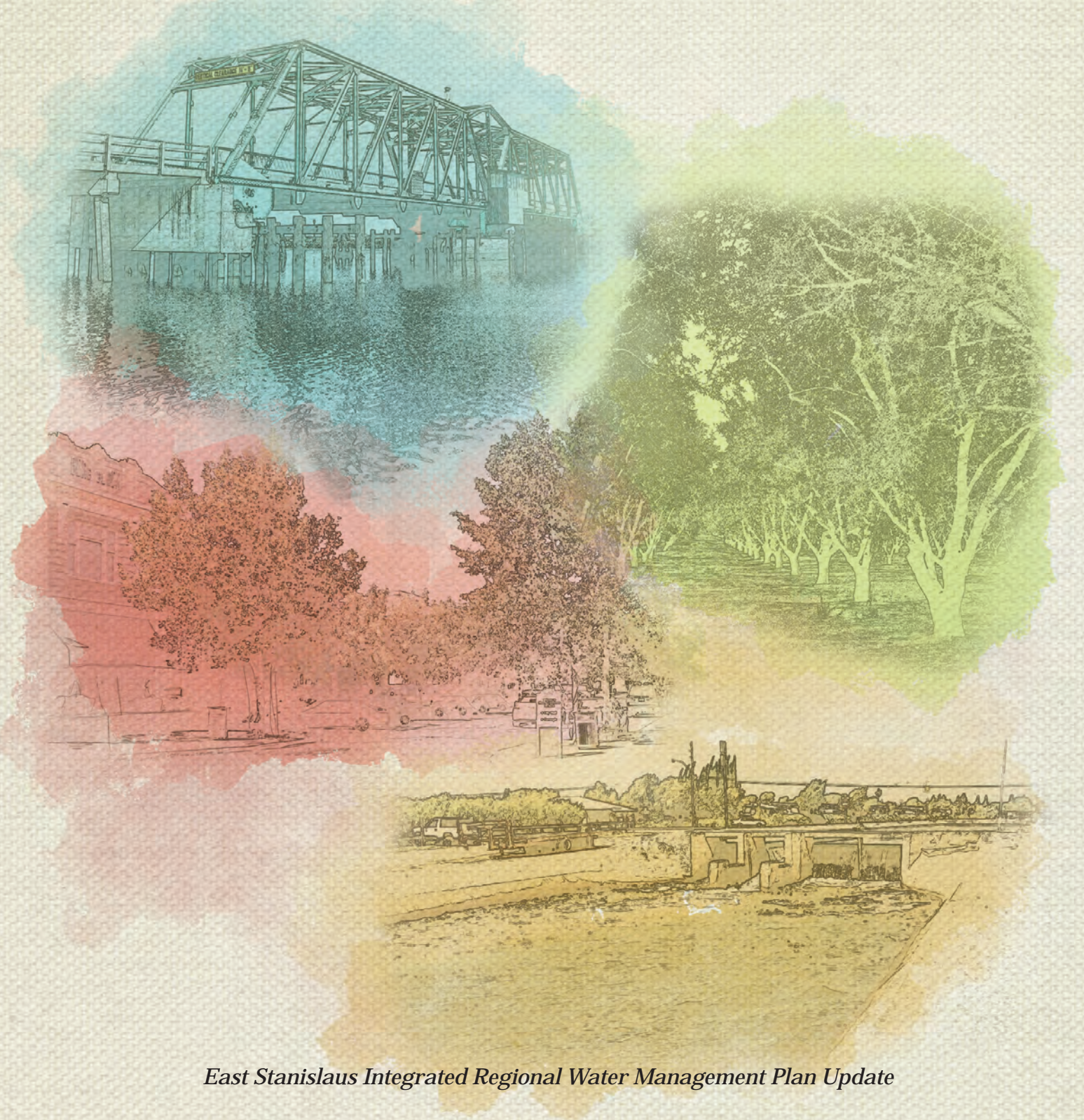
A public meeting will be held by the Cities of Modesto, Turlock, Ceres, Hughson and Waterford, and Stanislaus County, on behalf of the East Stanislaus Regional Water Management Partnership at 2:00 PM on December 14, 2017, at Modesto City Hall, 1010 Tenth St., Modesto, California, for the purposes of notifying and informing the public about the release of the public draft of the 2017 East Stanislaus IRWM Plan. All interested persons are invited to attend the public meeting to learn about and participate in the review of the 2017 Draft East Stanislaus IRWM Plan. This meeting is an opportunity for residents to learn about the State's IRWM Program, to see a presentation summarizing the Draft IRWM Plan, and to discuss its future implementation to address immediate and long-term water and wastewater needs by both local residents and the environment.

**Notice of Intent to Adopt the IRWMP to be inserted.**



# Appendix H

## East Stanislaus IRWM Stakeholder List



East Stanislaus IRWM Region Stakeholder Contact List - Updated February 28, 2018

Category / Stakeholder	Contact	Title	Phone No.	Email	Address	Active Participant	2017 Project Proponent
<b>Regional Water Management Partnership Members</b>							
City of Modesto (representative)	Bill Zoslocki	Councilmember		<a href="mailto:bzoslocki@modestogov.com">bzoslocki@modestogov.com</a>		✓	
City of Modesto (alternate)	Ted Brandvold	Mayor		<a href="mailto:tbrandvold@modestogov.com">tbrandvold@modestogov.com</a>		✓	
City of Turlock (representative)	Gary Soiseth	Mayor	209-668-5540	<a href="mailto:gsoiseth@turlock.ca.us">gsoiseth@turlock.ca.us</a>	156 S Broadway, Ste 270, Turlock, CA 95380	✓	
City of Turlock (alternate)	Amy Bublak	Councilmember	209-668-5540	<a href="mailto:abublak@turlock.ca.us">abublak@turlock.ca.us</a>	156 S Broadway, Ste 270, Turlock, CA 95380	✓	
City of Ceres (representative) (DAC)	Chris Vierra	Mayor		<a href="mailto:chris.vierra@stantec.com">chris.vierra@stantec.com</a>		✓	
City of Ceres (alternate) (DAC)	Bret Durossette	Councilmember		<a href="mailto:bret.durossette@ci.ceres.ca.us">bret.durossette@ci.ceres.ca.us</a>		✓	
City of Hughson (representative)	Jeremy Young	Mayor	209-883-4054	<a href="mailto:jyoung@hughson.org">jyoung@hughson.org</a>	7018 Pine St., Hughson, CA 95326	✓	
City of Hughson (alternate)	Mark Fontana	Council Member	209-883-4054	<a href="mailto:mfontana@hughson.org">mfontana@hughson.org</a>	7018 Pine St., Hughson, CA 95326	✓	
City of Waterford (representative) (DAC)	Karen Morgan	Water and Wastewater Supervisor	(209) 988-7423	<a href="mailto:kmorgan@cityofwaterford.org">kmorgan@cityofwaterford.org</a>	313 E Street, Waterford, CA 95386	✓	✓
City of Waterford (alternate) (DAC)	Michael Pitcock	City Manager	(209) 874-2328	<a href="mailto:mpitcock@cityofwaterford.org">mpitcock@cityofwaterford.org</a>	313 E Street, Waterford, CA 95386	✓	
Stanislaus County (representative)	Vito Chiesa	Stanislaus County Supervisor		<a href="mailto:chiesav@stancounty.com">chiesav@stancounty.com</a>		✓	
Stanislaus County (alternate)	Kristin Olson	Stanislaus County Supervisor		<a href="mailto:kolson@stancounty.com">kolson@stancounty.com</a>		✓	
<b>Steering Committee Members</b>							
City of Modesto (representative)	Jim Alves	Associate Civil Engineer	209-571-5557	<a href="mailto:jalves@modestogov.com">jalves@modestogov.com</a>	Utility Planning and Projects Dept, 1010 Tenth St, Ste 4600, PO Box 642 Modesto, CA 95354	✓	✓
City of Modesto (alternate)	Miguel Alvarez	Associate Engineer	209-577-5348	<a href="mailto:malvarez@modestogov.com">malvarez@modestogov.com</a>	Utility Planning and Projects Dept, 1010 Tenth St, Ste 4600, PO Box 642 Modesto, CA 95354	✓	
City of Turlock (representative)	Fallon Martin	Analyst	209-668-5590	<a href="mailto:FaMartin@turlock.ca.us">FaMartin@turlock.ca.us</a>	156 S Broadway, Ste 270, Turlock, CA 95380	✓	
City of Turlock (alternate)	Garner Reynolds	Regulatory Affairs Manager	209-668-5590	<a href="mailto:greynolds@turlock.ca.us">greynolds@turlock.ca.us</a>	156 S Broadway, Ste 270, Turlock, CA 95380	✓	✓
City of Ceres (representative) (DAC)	Mike Brinton	Public Works Deputy Director	209-538-5748	<a href="mailto:Michael.Brinton@ci.ceres.ca.us">Michael.Brinton@ci.ceres.ca.us</a>	2220 Hackett, Ceres, CA 95307	✓	
City of Ceres (alternate) (DAC)	Daryl Jordan			<a href="mailto:daryl.jordan@ci.ceres.ca.us">daryl.jordan@ci.ceres.ca.us</a>	2220 Hackett, Ceres, CA 95307	✓	
City of Hughson (representative)	Jaylen French	Community Development Director	209-883-4054	<a href="mailto:jfrench@hughson.org">jfrench@hughson.org</a>	7018 Pine St. PO Box 9, Hughson, CA 95326	✓	✓
City of Hughson (alternate)	Jaime Velazquez	Utilities Superintendent	205-505-5194	<a href="mailto:jvelazquez@hughson.org">jvelazquez@hughson.org</a>	7018 Pine St. PO Box 9, Hughson, CA 95326	✓	
City of Waterford (representative) (DAC)	Karen Morgan	Water and Wastewater Supervisor	(209) 988-7423	<a href="mailto:kmorgan@cityofwaterford.org">kmorgan@cityofwaterford.org</a>	313 E Street, Waterford, CA 95386	✓	✓
City of Waterford (alternate) (DAC)	Peni Basalusalu	Director of Public Works	209-874-2328 ext 130	<a href="mailto:pbasalusalu@cityofwaterford.org">pbasalusalu@cityofwaterford.org</a>	312 E Street, Waterford, CA 95386	✓	✓
Stanislaus County (alternate)	Walt Ward	Water Resources Manager	209-525-6710 (ph)	<a href="mailto:wward@envres.org">wward@envres.org</a>	3800 Cornucopia Way, Suite C, Modesto, CA 95358-9494	✓	
Stanislaus County (representative)	Dhyan Gilton	Stormwater Program Manager	209-525-7538	<a href="mailto:giltond@stancounty.com">giltond@stancounty.com</a>	Stanislaus County Public Works Department, 1716 Morgan Rd, Modesto, CA 95358	✓	✓
<b>Public Advisory Committee (PAC) Members</b>							
Eastside Water District (representative)	Kevin Kauffman	Consultant, Kevin Kauffman Consulting	209-478-4940	<a href="mailto:kauffmankevin@comcast.net">kauffmankevin@comcast.net</a>	PO Box 692632, Stockton, CA 95269	✓	✓
Eastside Water District (alternate)	Al Rossini	Eastside Water District Board President	209-874-3739	<a href="mailto:rossiniag@hughes.net">rossiniag@hughes.net</a>		✓	
Self-Help Enterprises	Abigal Solis		559-651-1000	<a href="mailto:abigails@selfhelpenterprises.org">abigails@selfhelpenterprises.org</a>	P.O. Box 6520, Visalia, CA 93290	✓	
Tuolumne River Trust (representative)	Patrick Koepele	Executive Director	209-588-8636	<a href="mailto:patrick@tuolumne.org">patrick@tuolumne.org</a>	829 13th St, Modesto, CA 95354	✓	✓
Tuolumne River Trust (alternate)	Edgar Garibay	Riverside Community Organizer, Tuolumne River Trust	209-236-0330	<a href="mailto:edgar@tuolumne.org">edgar@tuolumne.org</a>	829 13th St, Modesto, CA 95354	✓	
<b>Irrigation and Water Districts</b>							
Ballico Community Water Service District	Manuel Jimenez	Board President	209-648-6366	<a href="mailto:manuelj1976@yahoo.com">manuelj1976@yahoo.com</a>	P.O. Box 255, Ballico, CA 95303	✓	✓
Ballico-Cortez Water District	Victor Yamamoto		209-634-1224				
Central California Irrigation District	Tracey Rosin	Conservation Coordinator	209-777-8060	<a href="mailto:trosin@ccidwater.org">trosin@ccidwater.org</a>	P.O. Box 1231, Los Banos, CA 93635		
Del Puerto Water District	Anthea Hansen	General Manager	209-892-4470	<a href="mailto:ahansen@delpuertowd.org">ahansen@delpuertowd.org</a>	P.O. Box 1596, Patterson, CA 95363		

East Stanislaus IRWM Region Stakeholder Contact List

Delhi County Water District	Stephany Perry			<a href="mailto:delhiwd@yahoo.com">delhiwd@yahoo.com</a>			
Eastside Irrigation District	Kevin Kauffman	Consultant	209-478-4940	<a href="mailto:kauffmankevin@comcast.net">kauffmankevin@comcast.net</a>	9821 Deep Water Lane, Stockton, CA 95219		
Merced Irrigation District	Tom Stephens	Water Resources Specialist	209-722-5761	<a href="mailto:tstephens@mercedid.org">tstephens@mercedid.org</a>	744 W 20th St. Merced, CA 95340		
Modesto Irrigation District	John Davids	General Manager	209-526-7564	<a href="mailto:john.davids@mid.org">john.davids@mid.org</a>	1231 Eleventh St. Modesto, CA 95354 or PO Box 4060, Modesto, CA 95352		
Oakdale Irrigation District	Steve Knell	General Manager	209-847-0341 x207	<a href="mailto:srknell@oakdaleirrigation.com">srknell@oakdaleirrigation.com</a>	1205 East F Street, Oakdale, CA 95361		
Panoche Valley Water Authority	Ara Azhderian	General Manager		<a href="mailto:ara.azhderian@sldmwa.org">ara.azhderian@sldmwa.org</a>			
San Luis & Delta-Mendota Water Authority	Ara Azhderian	Water Policy Administrator	209-826-9696	<a href="mailto:ara.azhderian@sldmwa.org">ara.azhderian@sldmwa.org</a>	P.O. Box 2157, Los Banos, CA 93635		
Turlock Irrigation District	Debbie Liebersbach	Water Planning Department Manager	209-883-8428	<a href="mailto:dcliebersbach@tid.org">dcliebersbach@tid.org</a>	333 East Canal Dr. PO Box 949, Turlock, CA 95381-0949		
<b>Community Services Districts</b>							
Crows Landing CSD	Lance Perry	Chairperson			P.O.Box 537, Crows Landing, CA 95313		
Denair CSD	Gaylon Wade		209-634-4986	<a href="mailto:gwade@denaircsd.org">gwade@denaircsd.org</a>	3850 N. Gratton Rd, P.O. Box 217, Denair CA 95316		
Keyes Community Services District	M Jones	Keyes Community Services District - Maintenance Foreman	209-668-8341	<a href="mailto:mjones@keyescsd.org">mjones@keyescsd.org</a>	5061 7th Street, P.O. Box 699, Keyes, CA 95328		
Keyes Community Services District	Lee Fremming	District Engineer	209-723-2066	<a href="mailto:Lee.Fremming@QKink.com">Lee.Fremming@QKink.com</a>	2816 Park Avenue, Merced, CA 95348-3375		
Keyes Community Services District	J Parker	Keyes CSD Board President	209-668-8341	<a href="mailto:jparker@keyescsd.org">jparker@keyescsd.org</a>	5061 7th Street, P.O. Box 699, Keyes, CA 95328		
Keyes Community Services District	Ernie Garza	General Manager			P.O. Box 699, Keyes, CA		
<b>Cities</b>							
City of Riverbank	Michael Riddell	Deputy Development Services Director -Operations	209-869-7128	<a href="mailto:mriddell@riverbank.org">mriddell@riverbank.org</a>	2901 High Street, Riverbank, CA 95367		
City of Waterford	Peni Basalusalu	Director of Public Works	209-874-2328 ext 130	<a href="mailto:pbasalusalu@cityofwaterford.org">pbasalusalu@cityofwaterford.org</a>	Utility Planning and Projects Dept, 1010 Tenth St, Ste 4600, PO Box 642 Modesto, CA 95354	✓	✓
City of Modesto	David Felix	Project Manager	209-577-5488	<a href="mailto:dfelix@modesto.gov">dfelix@modesto.gov</a>		✓	✓
City of Oakdale	Mike Brennan	Oakdale City Council	209-847-1581	<a href="mailto:brennandesign@mac.com">brennandesign@mac.com</a>	455 South Fifth Ave, Oakdale, CA 95361		
City of Oakdale	Brian Whitemyer	City Manager	209-845-3574	<a href="mailto:bwhitemyer@ci.oakdale.ca.us">bwhitemyer@ci.oakdale.ca.us</a>	455 South Fifth Ave, Oakdale, CA 95361		
City of Patterson	Mike Willett	Public Works Director	209-895-8065	<a href="mailto:MWillett@ci.patterson.ca.us">MWillett@ci.patterson.ca.us</a>	1 Plaza Circle, Patterson, CA 95363		
City of Turlock	Michael Cooke	Municipal Services Director	(209) 668-5599	<a href="mailto:mcooke@turlock.ca.us">mcooke@turlock.ca.us</a>	156 S Broadway, Ste 270, Turlock, CA 95380	✓	✓
<b>Other Communities</b>							
Community of Crows Landing	Connie Payan	Crows Landing Community Services District	209-484-1096	<a href="mailto:connieepayan@gmail.com">connieepayan@gmail.com</a>	PO box 537, Crows Landing, CA 95313	✓	
Community of Del Rio							
Community of Denair	Dennis Findley	Denair Municipal Advisory council	209-669-8560		3850 N. Gratton Rd, P.O. Box 217, Denair CA 95316		
Community of Knight's Ferry	Christine Bonjour	Knights Ferry Community Services District	209-881-3300	<a href="mailto:atlascu@sbcglobal.net">atlascu@sbcglobal.net</a>	PO Box 860, Oakdale, CA 95361-0860		
Community of Westley	Coleen Sanguinetti	Westly Community Services District	209-892-7953	<a href="mailto:coleen@gvni.com">coleen@gvni.com</a>	PO Box 26, Crows Landing CA 95313		
<b>Disadvantaged Communties</b>							
Airport (CDP)	Edgar Garibay (TRT)	Riverside Community Organizer, Tuolumne River Trust	209-236-0330	<a href="mailto:edgar@tuolumne.org">edgar@tuolumne.org</a>	829 13th St, Modesto, CA 95354	✓	
Airport (CDP)	Armando Nunez	Administrator of Student & Family Support Services, Orville Wright Elementary Healthy Start Family Resource Center	209-574-1646	<a href="mailto:Nunez.Ar@monet.k12.ca.us">Nunez.Ar@monet.k12.ca.us</a>	801 Empire Ave. Modesto, CA 95354		
Ballico (CDP)							
Bret Harte (CDP)							

East Stanislaus IRWM Region Stakeholder Contact List

Bystrom (CDP)		Modesto for water and wastewater and County for storm					
Community of Empire	Rafael Rodriquez	EmpireCommunity MAC Board Member	209-505-2200	<a href="mailto:rafaelr6608@gmail.com">rafaelr6608@gmail.com</a>			
Community of Grayson	Connie Payan	Grayson Community Services District	209-484-1096	<a href="mailto:connieepayan@gmail.com">connieepayan@gmail.com</a>	PO Box 158, Westly, CA 95387		
Community of Hickman	Lynn Meshew	Hickman Municipal Advisory Council	209-613-6413	<a href="mailto:wlent@att.net">wlent@att.net</a>			
Community of Keyes	Michelle Harris	Keyes Community Services District; Office Supervisor/Board Secretary	209-668-8341	<a href="mailto:mharris@keyescsd.org">mharris@keyescsd.org</a>	5061 7th Street, P.O. Box 699, Keyes, CA 95328	✓	
Community of Keyes	Ernie Garza	Keyes Community Services District	209-668-8341	<a href="mailto:egarza@keyescsd.org">egarza@keyescsd.org</a>	5061 7th Street, P.O. Box 699, Keyes, CA 95328		
Community of Monterey Park	Francisco Diaz	Monterey Park Tract Community Services District	209-499-1113	<a href="mailto:Diaz_f4@hotmail.com">Diaz_f4@hotmail.com</a>	PO Box 1301, Ceres, CA 95307		
Community of Riverdale	Kelly Murphy	Riverdale Park Tract Community Services District	(billing dept #) 209-241-9541	<a href="mailto:murphology101@aol.com">murphology101@aol.com</a>	PO Box 26, Modesto, CA 95358		
Cowan (CDP)							
Delhi (CDP)							
Parklawn (CDP)							
Rouse (CDP)							
South Modesto Area (general)	Silvia Camarillo	Secretary for South Modesto Municipal Advisory Council	209-606-6246	<a href="mailto:camarillo_silvia@yahoo.com">camarillo_silvia@yahoo.com</a>			
West Modesto (CDP)							
West Modesto (CDP)	Juan Telles	West Modesto Community Advocate w/ Tuolumne River Trust	209-661-3973	<a href="mailto:Juan@Tuolumne.org">Juan@Tuolumne.org</a>			
	Eddie Ocampo	Self Help Enterprises	559-802-1683				
<b>Wastewater</b>							
Salida Sanitary Sewer District	Mike Gilton	District Manager	545-4987	<a href="mailto:mgilton@salidasanitary.net">mgilton@salidasanitary.net</a>	P.O. Box 445, Salida, CA 95368		
Empire Sanitary Sewer District	City of Modesto	Jim Alves for Robert Englent			P.O. Box 294, Empire, CA, 95319		
<b>Electrical Corporation</b>							
Pacific Gas & Electric			415-973-1000 (directory assistance)				
<b>Counties</b>							
Stanislaus County	Matt Machado	Stanislaus County Public Works Director	209-525-6550	<a href="mailto:machadom@stancounty.com">machadom@stancounty.com</a>	1716 Morgan Rd, Modesto CA 95358		
Stanislaus County	Juan Gonzalez	Associate Planner, Community Development Department	209-525-6330	<a href="mailto:gonzalezj@stancounty.com">gonzalezj@stancounty.com</a>	1716 Morgan Rd, Modesto CA 95358		
Stanislaus County	Frederic Clark	Deveopment Services Deputy Director	209-525-4302	<a href="mailto:fclark@stancounty.com">fclark@stancounty.com</a>	1716 Morgan Rd, Modesto CA 95358		
Stanislaus County	Kristin Doud	Senior Planner	(209) 525-6330	<a href="mailto:doudk@stancounty.com">doudk@stancounty.com</a>	1716 Morgan Rd, Modesto CA 95358	✓	✓
Merced County	Ron Rowe	Environmental Health Specialist	209-381-1097	<a href="mailto:rrowe@co.merced.ca.us">rrowe@co.merced.ca.us</a>	2222 M St. Merced, CA 95340		
<b>Federal, State, and Local Agencies</b>							

East Stanislaus IRWM Region Stakeholder Contact List

Central Valley Regional Water Quality Control	Zaira Lopez	Environmental Scientist	559-488-4393	<a href="mailto:Zaira.lopez@waterboards.ca.gov">Zaira.lopez@waterboards.ca.gov</a>		
Department of Water Resources	Jason Preece	Regional IRWM Representative	916-651-9636 916-376-9923	<a href="mailto:jpreece@water.ca.gov">jpreece@water.ca.gov</a>		
Stanislaus County Farm Bureau	Wayne Zipser	Executive Director	209-522-7278	<a href="mailto:WayneZ@stanfarmbureau.org">WayneZ@stanfarmbureau.org</a>	1201 L Street, Modesto, CA 9354 / P.O. Box 3070, Modesto, CA 95353	
Stanislaus County Farm Bureau	Tom Orvis	Government Affairs Director	209-522-7278	<a href="mailto:tomo@stanfarmbureau.org">tomo@stanfarmbureau.org</a>	1201 L Street, Modesto, CA 9354 / P.O. Box 3070, Modesto, CA 95353	
Turlock State Park						
<b>Neighboring IRWM Regions</b>						
Eastern San Joaquin	Brandon Nakagawa	San Joaquin County Public Works	209-468-3089	<a href="mailto:bnakagawa@sjgov.org">bnakagawa@sjgov.org</a>		
Merced	Hicham Eltal	MAGPI Chairman	209-722-5761	<a href="mailto:heltal@mercedid.org">heltal@mercedid.org</a>	P.O. Box 2288, Merced, CA 95344	
Mokelumne/Amador/Calaveras (MAC)	Rob Alcott		707-785-1008	<a href="mailto:robalcott@aol.com">robalcott@aol.com</a>		
Tuolumne-Stanislaus	Carolyn Lott	Senior Facilitator	209-402-2024	<a href="mailto:carolynlott@sbcglobal.net">carolynlott@sbcglobal.net</a>	PO Box 4394, Sonora, CA 95370	
Westside-San Joaquin	Ara Azhderian	Water policy Administrator (SLDMWA)	209-826-9696	<a href="mailto:ara.azhderian@sldmwa.org">ara.azhderian@sldmwa.org</a>		
Yosemite-Mariposa	Pat Garcia	District Manager (Mariposa County Resource Conservation District)	209-966-3431	<a href="mailto:mcrd@sti.net">mcrd@sti.net</a>	5900 Fairgrounds Road (P.O. Box 746), Mariposa, CA 95338	
Yosemite-Mariposa	Brenda Ostrom	Project Manager (Mariposa County Resource)	209-966-8432	<a href="mailto:bostrom@sti.net">bostrom@sti.net</a>		
<b>GSAs</b>						
East Turlock Subbasin Groundwater Sustainability Agency	Kevin Kauffman	Consultant for Eastside Water District	209-478-4940	<a href="mailto:kauffmankevin@comcast.net">kauffmankevin@comcast.net</a>	9821 Deep Water Lane, Stockton, CA 95219	
Eastside San Joaquin Groundwater Sustainability Agency	Peter Martin			<a href="mailto:peterm@ccwd.org">peterm@ccwd.org</a>		
Merced Irrigation-Urban Groundwater Sustainability Agency	Hicham Eltal			<a href="mailto:heltal@mercedid.org">heltal@mercedid.org</a>		
Merced Subbasin GSA	Lacey Kiriakou			<a href="mailto:lkiriakou@countyofmerced.com">lkiriakou@countyofmerced.com</a>		
Northwestern Delta-Mendota GSA	Walter Ward					
San Joaquin County Stanislaus and Tuolumne Rivers Groundwater Basin Association	John Davids			<a href="mailto:john.davids@mid.org">john.davids@mid.org</a>		
West Stanislaus Irrigation District	Robert Pierce			<a href="mailto:bobby.pierce@weststanislausid.org">bobby.pierce@weststanislausid.org</a>		
West Turlock Subbasin Groundwater Sustainability Agency	Michael Cooke	Chair		<a href="mailto:mcooke@turlock.ca.us">mcooke@turlock.ca.us</a>		
<b>Environmental Groups</b>						
Environmental Defense Fund	Lucia Garcia	Senior Specialist, CA Groundwater Program	415-559-6615		123 Mission St., 28th Floor, San Francisco, CA 94105?	
Friends of the Tuolumne	Allison Boucher			<a href="mailto:aboucher@bendbroadband.com">aboucher@bendbroadband.com</a>	1900 NE 3rd Street, Ste 106, PMB 314, Bend, OR 97701	
Nature Conservancy	Jeanne Brantigan		916-449-2850?	<a href="mailto:jbrantigan@TNC.ORG">jbrantigan@TNC.ORG</a>	555 Capitol Mall, Suite 1290, Sacramento CA 95814?	
Nature Conservancy	Laura Jensen		916-642-8068 415-533-8167 (cell)	<a href="mailto:Laura_Jensen@TNC.org">Laura_Jensen@TNC.org</a>	555 Capitol Mall, Suite 1290, Sacramento CA 95814?	
River Partners	Maggie Boberg	Central Valley Regional Director	209-521-1700	<a href="mailto:mboberg@riverpartners.org">mboberg@riverpartners.org</a>	121 W. Main St., Ste H, Turlock, CA 95380	

East Stanislaus IRWM Region Stakeholder Contact List

Tuolumne River Trust	Edgar Garibay	Riverside Community Organizer (Central Valley Office)	209-236-0330	<a href="mailto:edgar@tuolumne.org">edgar@tuolumne.org</a>	829 Thirteenth Street, Modesto, CA 95354
<b>Others</b>					
Ceres area citizen (DAC)	Daniel Padilla	Ceres area citizen		<a href="mailto:padillaengineering@yahoo.com">padillaengineering@yahoo.com</a> <a href="mailto:dpadilla@cenvalleng.co">dpadilla@cenvalleng.co</a>	
CV-Salts Coalition	Daniel Cozad	Integrated Planning and Management, Inc	909-747-5240	<a href="mailto:dcozad@intpln.com">dcozad@intpln.com</a>	360 Lakeside Ave, Redlands, CA 92373
East Stanislaus Resources Conservation District	Jamie Meek	Administrative Coordinator	209-581-7558	<a href="mailto:esrcdwater@gmail.com">esrcdwater@gmail.com</a>	3800 Cornucopia Way, Suite E, Modesto, CA 95358
East Stanislaus Resources Conservation District	Chester Anderson	Watershed Coordinator, Middle San Joaquin Watershed	209-581-7558	<a href="mailto:esrcdwater@gmail.com">esrcdwater@gmail.com</a> <a href="mailto:chester@eaststanrcd.org">chester@eaststanrcd.org</a>	3800 Cornucopia Way, Suite E, Modesto, CA 95358
ESA (Consultant for SJR RFMP) Gomes Lake (Stanislaus County)	Minta Schaefer	Hydrologist	(916) 564-4500 (office) (916) 231-1267 (direct)	<a href="mailto:MSchaefer@esassoc.com">MSchaefer@esassoc.com</a>	2600 Capitol Ave, Suite 200, Sacramento, CA 95816
Local Government Commission	Laura Podolsky	Project Manager	916-448-1198 x311	<a href="mailto:lpodolsky@lgc.org">lpodolsky@lgc.org</a>	1303 J Street, Ste 250, Sacramento, CA 95814
MCDC Board Member	Denny Jackman	Modesto Community Development Corporation	209-343-4174	<a href="mailto:dennyj@clearwire.net">dennyj@clearwire.net</a>	504 Laurel Avenue, Modesto, CA 95351
Modesto citizen	Wayne Bridegroom			<a href="mailto:bridegroom@gmail.com">bridegroom@gmail.com</a>	
Modesto citizen	Jesse Roseman		510-220-6927	<a href="mailto:jessetroseman@gmail.com">jessetroseman@gmail.com</a>	
Native American Tribe(s) RD 1602 (aka Del Puerto)	Dan Roberts				
RD 2031 (aka Elliot)	William Lyons, Jr				
RD 2063 (aka Crows Landing)	Joe Sallaberry				
RD 2091 (aka Chase)	Wendel Trinkler				
RD 2099					
RD 2100					
RD 2101 (aka Blewett)	James Coddington				
RD 2102					
Self-Help Enterprises	Eddie Ocampo	Community Development Specialist	559-802-1683	<a href="mailto:EddieO@selfhelpenterprises.org">EddieO@selfhelpenterprises.org</a>	P.O. Box 6520, Visalia, CA 93290
Self-Help Enterprises	Maria Herrera	Director of Community Advocacy	559-651-1000	<a href="mailto:mariah@selfhelpenterprises.org">mariah@selfhelpenterprises.org</a>	P.O. Box 6520, Visalia, CA 93290
Self-Help Enterprises	Thomas Collishaw	President/CEO	559-651-1000	<a href="mailto:tcollishaw@selfhelpenterprises.org">tcollishaw@selfhelpenterprises.org</a>	P.O. Box 6520, Visalia, CA 93290
Self-Help Enterprises	Juan Cano	Community Development Specialist	559-802-1674	<a href="mailto:juanc@selfhelpenterprises.org">juanc@selfhelpenterprises.org</a>	P.O. Box 6520, Visalia, CA 93290
TID (Consultant)	John Mills	Consulting w/ Turlock Irrigation District	209-532-0432	<a href="mailto:sixbit@sonnet.com">sixbit@sonnet.com</a>	P.O. Box 1160, Columbia, CA 95310
<b>County Libraries</b>					
Waterford					324 E Street, Waterford, CA 95386
Hughson	Heather Bailey	Branch Supervisor	209-883-2293		2412 3rd Street, Suite A, Hughson CA 95326
Modesto Main					1500 "I" Street, Modesto, CA 95354
Ceres					2250 Magnolia, Ceres, CA 95307
Salida					4835 Sisk Rd., Salida, CA 95368
Turlock			209-664-8100		550 N Minaret Ave., Turlock, CA 95380
Empire					18 South Abbie Street, Empire, CA 95319

# Appendix I

## Public Workshop Materials



## **Public Workshop – August 15, 2017**

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*You're invited to a community workshop...*

Help us update the East Stanislaus Integrated Regional Water Management Plan!

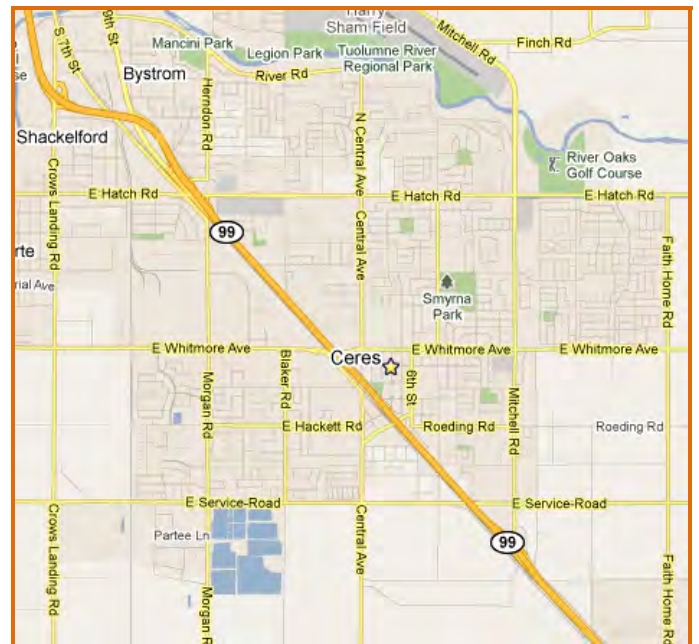
**Working together to manage surface and groundwater resources**



**Snacks and Beverages will be provided!**

**WHEN:** Tuesday, August 15 – 5:30 p.m.

**WHERE:** Ceres Community Center  
2701 4<sup>th</sup> Street, Ceres



- Learn about Integrated Regional Water Management Planning;
- Hear a presentation on the process for updating the plan;
- Understand how to submit a project for inclusion in the Plan;
- Learn how you can participate.

**For more information on the workshop, visit our website at [www.eaststanirwm.org](http://www.eaststanirwm.org), or contact:**

**Jim Alves**  
Associate Civil Engineer  
City of Modesto  
(209) 571-5557 or [jalves@modestogov.com](mailto:jalves@modestogov.com)

This meeting is sponsored by:



East Stanislaus Regional Water Management Partnership

*Uste esta invitado a un taller para la comunidad ...*

Ayudenos a actualizar el plan de Administración Integral del agua regional del este de Stanislaus!

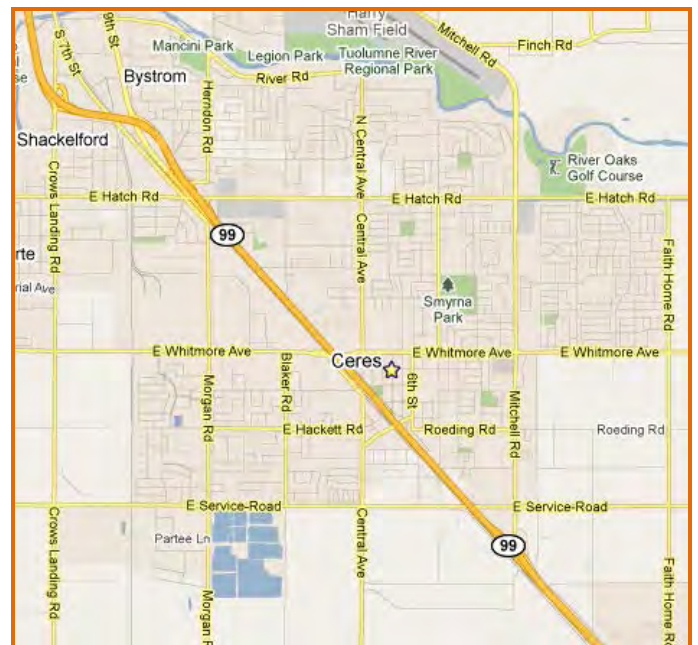
**Trabajemos juntos para administrar los recursos locales del agua de superficie y agua subterránea**



**Habr  refresco y antojitos!**

**FECHA:** El martes 15 de agosto del 2017 a las 5:30 de la tarde

**LUGAR:** El centro de la comunidad de la ciudad de Ceres. 2701 4th Street, Ceres



- Aprenda lo relacionado con el planeamiento de la administraci n integral del agua regional;
- Escucharemos una presentaci n acerca del proceso de la preparaci n del plan;
- Descubra c mo someter proyectos de recursos de agua para su inclusi n en el Plan;
- Aprenda como usted puede participar.

Para m s informaci n sobre el taller, viste [www.eaststanirwm.org](http://www.eaststanirwm.org), o contacte al siguiente

**Miguel Alvarez**  
Ingeniero Asociado  
de la ciudad de Modesto  
tel. (209) 577-5348 or correo electronic  
malvarez@modestgov.com

Esta junta es patrocinada por:



(Por sus siglas en ingl s)  
East Stanislaus Regional Water  
Management Partnership



## 2017 East Stanislaus IRWMP Update Public Kickoff Meeting

Presenters:  
Leslie Dumas

August 15, 2017

### Meeting Agenda

- Introductions
- Summary of Integrated Regional Water Management Program
- East Stanislaus Region
- East Stanislaus IRWM Planning Process
- Governance and Public Involvement
- Project Solicitation



## Introductions

- City of Modesto
- City of Hughson
- City of Ceres
- City of Turlock
- City of Waterford
- Stanislaus County



## Meeting Agenda

- Introductions
- **Summary of Integrated Regional Water Management Program**
- East Stanislaus Region
- East Stanislaus IRWM Planning Process
- Governance and Public Involvement
- Project Solicitation



## An Integrated Regional Water Management (IRWM) Plan is...

- A planning document
- A description of water-related resources, challenges, goals, and solutions
- An opportunity for regional partnerships and coordination
- A vehicle to facilitate State funding



## An IRWM Plan is not...

- A substitute for local planning
- A decrease in agency responsibilities or autonomy
- A policy document
- Comprehensive project documentation



## The Purpose of an IRWM Plan is to...

- Develop regional understanding
- Identify water resources solutions
- Reflect the regional needs
- Maximize benefits through integration of water management strategies
- Leverage regional resources through partnerships
- Be eligible for State funding through the IRWM grant program



## Contributors Include...

- Water and Wastewater Agencies
- Counties
- Cities
- Public Groups
- Private Organizations
- Members of the Public



## An IRWM Plan and Process Helps by...

- Consolidating information
- Encouraging discussion among stakeholders
- Evaluating projects on a regional scale
- Increasing chances of project implementation
  - Combining projects
  - Implementation funding



## Meeting Agenda

- Introductions
- Summary of Integrated Regional Water Management Program
- **East Stanislaus Region**
- East Stanislaus IRWM Planning Process
- Governance and Public Involvement
- Project Solicitation



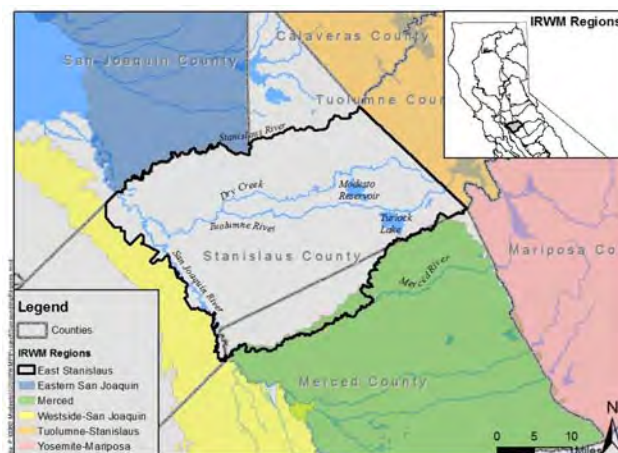
## An IRWMP Region is...

- Defined by those organizations who created it
- Defined by water management issues and potential solutions
- Not restricted to political boundaries
- Typically within a State Hydrologic Area



## East Stanislaus IRWM Planning Process

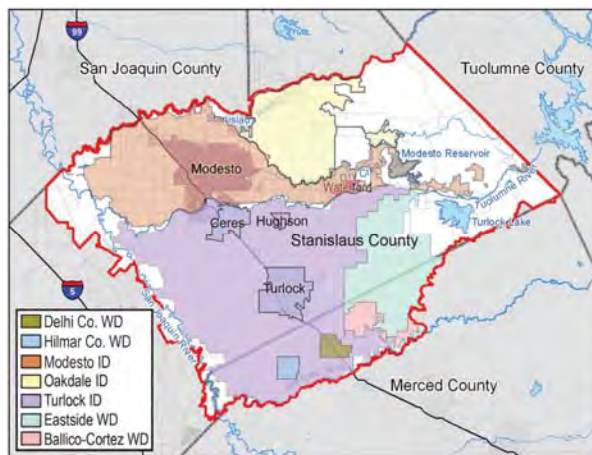
- The cities of Modesto, Hughson, Ceres and Turlock developed the Region's first IRWM Plan in 2013.
- Formed the East Stanislaus Region and associated Regional Water Management Partnership
- Waterford and Stanislaus County joined the ESRWMP in 2017





## The East Stanislaus Region Includes...

- Portions of Stanislaus and Merced Counties
- Cities of Modesto, Hughson, Turlock, Ceres, Patterson, Newman, Riverbank, Waterford, and Oakdale
- Communities of Keyes, Denair, Del Rio, Riverdale, Grayson, Hickman, Empire, Salida, Hilmar, Delhi, and Keys
- Turlock ID, Modesto ID, Eastside ID, Oakdale ID, and Merced ID



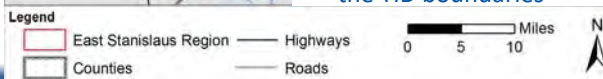
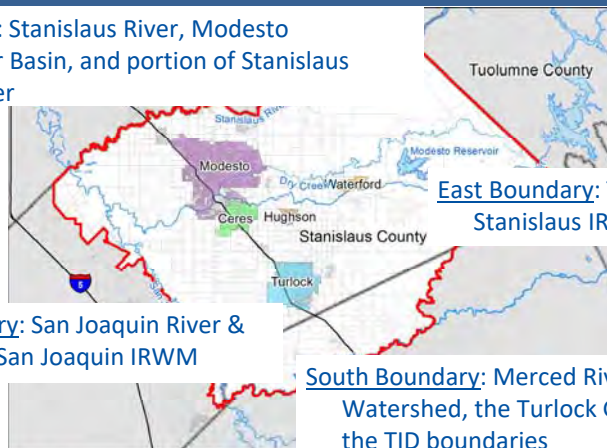
## East Stanislaus Regional Boundaries

**North Boundary:** Stanislaus River, Modesto Groundwater Basin, and portion of Stanislaus County border

**East Boundary:** Tuolumne-Stanislaus IRWM Region

**West Boundary:** San Joaquin River & Westside-San Joaquin IRWM Region.

**South Boundary:** Merced River Watershed, the Turlock GW Basin, and the TID boundaries



## Meeting Agenda

- Introductions
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## IRWM Planning Completed to Date

- Cities of Modesto, Ceres, Hughson & Turlock formed the ESRWMP
- ESRWMP completed Region Acceptance Process in 2011 and East Stanislaus Region was approved
- ESRWMP prepared East Stanislaus IRWMP in 2013
- Region pursued implementation and planning grants



## Now it's Time to Update the IRWMP

- Comply with DWR's 2016 IRWM Guidelines for to be eligible for Prop 1 implementation grants
- Incorporate planning efforts since 2013 to keep IRWM Plan current



## IRWM Planning Process



## Updating the IRWM Plan Consists of Various Steps

- Revisit the Governance Structure
- Update 2013 ESIRWMP to meet new standards and address legislative changes
  - SB 985 – incorporate information from Stanislaus County SWRP
  - AB 1249 – address nitrate, arsenic, perchlorate, and hexavalent chromium in groundwater
  - AB 52 – confirm existence of Native American tribes
- Update Region’s goals and objectives
- Conduct project solicitation and prioritization
- Perform focused outreach to DACs, EDAs, and Native Americans
- Update the East Stanislaus IRWM website ([www.eaststanirwm.org](http://www.eaststanirwm.org))
- Complete Plan Review Process with DWR



## East Stanislaus IRWM Plan Chapters

Chapter	Name
1	Introduction
2	ESIRWM Region
3	Climate Change
4	ESIRWM Governance, Coordination, and Outreach
5	Vision, Goals, and Objectives
6	The Projects
7	Technical Analysis and Data Management
8	Plan Implementation

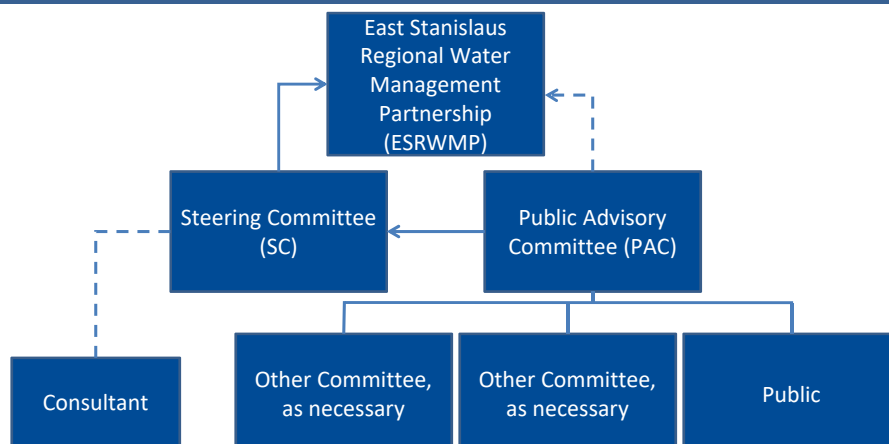


## Meeting Agenda

- Introductions
- Summary of Integrated Regional Water Management Program
- East Stanislaus Region
- East Stanislaus IRWM Planning Process
- **Governance and Public Involvement**
- Project Solicitation



## Regional Water Management Governance Structure



## Public Involvement

- Cooperation and coordination among regional stakeholders promotes regionalization
- Input and comments from stakeholders maximizes benefits
- Levels of public involvement:
  - Attendance at open ESRWMP and Steering Committee meetings
  - Public Advisory Committee (PAC) membership & meetings
  - Public Workshops



**You can become a member of the PAC**



## PAC Member Role & Responsibilities

- Good-faith effort to attend all PAC meetings
- Timely review and response to work products
- Constructively engage with consensus to achieve program goals
- Adopt or provide written support for updated plan

ATTENDANCE SIGN-IN SHEET	
Public Advisory Committee Meeting #1	
Name	Organization



## Methods to Provide Input & Obtain Information

- ESRWMP, SC, and PAC meetings
- East Stanislaus IRWM planning website



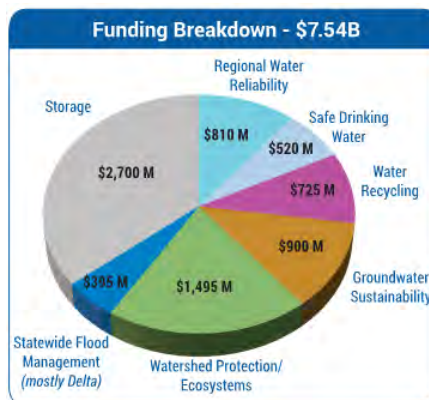
## Meeting Agenda

- Introductions
- Summary of Integrated Regional Water Management Program
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- Governance and Public Involvement
- **Project Solicitation**

## Why Submit a Project to the IRWMP?

- Eligibility for State Funding from Prop 1
- \$418 million for implementation grants
- Implementation grants will be awarded in 2018

\*Note that inclusion in IRWMP does not guarantee funding\*



## What Types of Projects Are Eligible for Inclusion in the IRWMP Update?

- Projects may be:
  - Conceptual
  - Preliminary Design Complete
  - Ready-to-Proceed
- Construction Projects
- Research Projects
- Studies

### Previously Funded Projects:

- North Valley Regional Recycled Water Program
- Modesto Area 2 Stormwater to Sanitary Sewer Cross-Connection Removal Project





## How Do I Submit a Project?

- [www.eaststanirwm.org/projects/](http://www.eaststanirwm.org/projects/)

HOME > PROJECTS

### Projects

The East Stanislaus Region currently has 39 projects listed in the IRWM Plan database. The projects are reviewed and scored according to the Goals and Objectives criteria established for the Region. These submitted projects can be viewed in the OPTI Project Website. As part of the 2017 Plan update, the Region will be updating the project database.

The DWR schedule for the Prop 1 Implementation Grant Applications is expected to be due in spring 2018 with release of the Draft Guidelines and Proposal Solicitation Package (PSP) in Autumn 2017. An Implementation Grant would provide competitive-based funding to construct qualified projects within the IRWM Region for projects included in the IRWM Plan. With completion and approval of the East Stanislaus 2017 IRWM Plan Update set for early 2018, our Region would be eligible to apply for these grant funds.

If you are a stakeholder and have not signed up for OPTI, the Region's Online Project Tracking and Integration program, please click OPTI to request membership. The Region is planning to open the OPTI database for new projects and update of existing projects from August 7 through mid-September of 2017.

Click to enter the OPTI website. ←

The East Stanislaus IRWM Goals and Objectives can be found in the documents tab or click here

**What's New**

- Public Draft IRWMP Notice
- Draft IRWM Plan Public Release
- Regional Flood Management Plan

**Local Agencies and Stakeholders**

MODESTO CITY OF CERES

ESRWMP

## How Do I Submit a Project?

- Enter OPTI System: Projects > Add

opti

Home Add Community Search Profile Logout

Map List Add

Filter By Type

- Water Supply
- Water Quality
- Environment
- Flood Stormwater Management
- Community Stewardship

ESRWMP

## OPTI: Instructions Tab

## Select Program for Submission

- IRWM
- SWRP

## Identify Objectives Met by the Project

**Minimum Requirements**

*If the Proposed Project does not meet the following requirements, it will not be considered for inclusion in the East Stanislaus DWRMP.*

- The Project must be within the boundaries of the East Stanislaus DWRMP Planning Region.
- The Project must meet at least one of the East Stanislaus Region's Objectives listed below. Check all that apply.
- The Project must fulfill at least one of the DWR's Resource Management Strategies and one of DWR's Statewide Priorities.
- Be technically feasible.

**East Stanislaus Goals & Objectives**

**Water Supply Goal** - To protect existing water supplies and water rights, and improve regional water supply reliability

**Water Supply Objectives**

- Provide a variety of water supply sources, including recycled water, to meet all current and future demands (urban, agricultural and the environment) under various hydrologic conditions.
- Promote the use of groundwater storage and conjunctive use options to reduce groundwater overdraft.

- Projects must meet at least:
  - One Regional Objective
  - One Resource Management Strategy
  - One Statewide Priority



## Complete Remaining Information Tabs

**Other Considerations**

- Contact Information
- Project Description
- Project Benefits
  - Primary Benefit and Additional Benefits
- Feasibility
  - Planning, Design, and Permitting Status
- Cost/Funding
- Other Considerations
  - DACs, Climate Change, Monitoring, Technical Feasibility



## What Happens After Submittal?

- Projects are prioritized by the Region
- DWR will release Proposal Solicitation Package for Round 1 implementation grants
- Applications due Spring 2018
- ~\$28 million in the San Joaquin Funding Area, spread over two rounds of funding



## IRWMP Update Next Steps

- Project Solicitation August 7<sup>th</sup> through September 15<sup>th</sup>
- Region to Prepare Draft IRWMP Update
- Release for Public Review late Fall 2017
- Public Workshop #2 Conducted late Fall 2017
- Finalize IRWMP Update Early 2018
- Pursue Grant Funding Spring 2018



## Contact Information

Jim Alves  
City of Modesto  
209-571-5557  
jalves@modestogov.com



## Questions?



**PUBLIC WORKSHOP SIGN-IN SHEET – 8/15/2017**

NAME	AGENCY	PHONE NUMBER	EMAIL ADDRESS	ADDRESS
Leslie Dumas Jennifer Kidson	RMC			
Walt Ward	StanCo-DEER	209-5256710	wward@envres.org	
Michael Brinton	Ceres	528-5758		
Jim Alves	Modesto	209 571-5337	jalves@ modestoga.gov	
Juan Carr	SelfHelpEnterprises	559 802-1674	juanc@ selfhelpenterprises.org	
<del>Leslie Dumas</del>				
Fallon Martin	City of Turlock	6685590	fmartin @TURLOCK.CA.US	

# opti quick start guide

*Opti* helps you locate, connect, share, and integrate IRWMP project information within your IRWM Community. This Quick Start Guide will assist you to jump start the use of *Opti*.

## How to Gain Access to Opti

*Opti* is a public system. On the login screen, input the required information and click on the *Register* button. Once your account has been successfully created, you may enter your email and password in the "Existing Users" box and click *Login*.

## How to Navigate Opti

Once logged into *Opti*, information and tools are accessible via the navigation bar. Click on the icons to display different modules in your screen. Modules provided are:

- **Home** – displays Announcements, Events, and Recently Added Projects
- **Projects** – displays a map or list of the projects and allows users to add or share projects
- **Community** – displays a list of Individuals and Organizations
- **Search** – provides various criteria to find projects of interest
- **Profile** – allows users to manage their profile information and access the User Guide

## How to View Announcements and Events

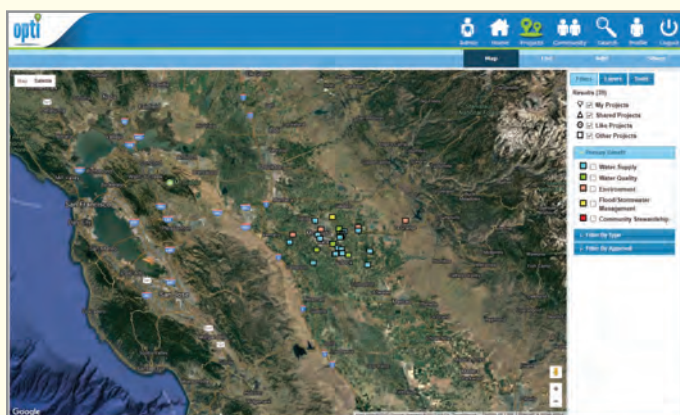
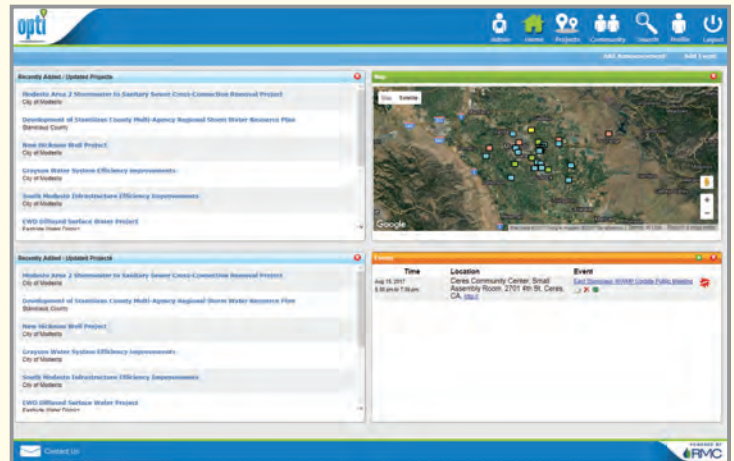
Announcements and Events are posted in the **Home** page.

- Click on an Announcement or Event hyperlink to view the details and download attachments.
- Click on **Add Announcement** or **Add Event** in the sub-navigation bar to add a new announcement or event.

## How to Become a Community Member

To add and submit projects to *Opti*, you must first become a Community Member.

- Click on the **Profile** icon to open your account information.
- Fill out all the required fields and click the *Become a Community Member* button at the bottom of the **Contact Info** window. You will receive an email when your request has been authorized.



**NOTE:** Your project will not be visible to the public until you have submitted it to the administrator and it has been accepted for publication.

## How to View Project Details

To view project details and update your project:

- Click on the **Projects** icon in the navigation bar.
  - In the Map view, mouse over your project and click on the project title when it appears.
  - In the List view, filter the list to show "My Projects" and select your project.
- A new window will open with the project details.
- Click on **Details** in the sub-navigation bar to view and edit project information.

## How to Add a New Project

To add a project to *Opti*:

- Click on the **Projects** icon in the navigation bar
- Click **Add** in the sub-navigation bar. If you are a Community Member, the project entry screens will open.
- Fill out the project information and click the *Save* button.
- You may continue to update project information prior to and after submitting the project to the administrator.

## How to Share a Project

The Share Tool allows a select group of users to be able to view and edit your project prior to and after submission.

- Click on the **Projects** icon in the navigation bar
- Click on **Share** in the sub-navigation bar to open the Share Tool.

**Public Workshop – December 14, 2017**

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*You're invited to a community workshop...*

Come hear about the Draft East Stanislaus Integrated Regional Water Management Plan!

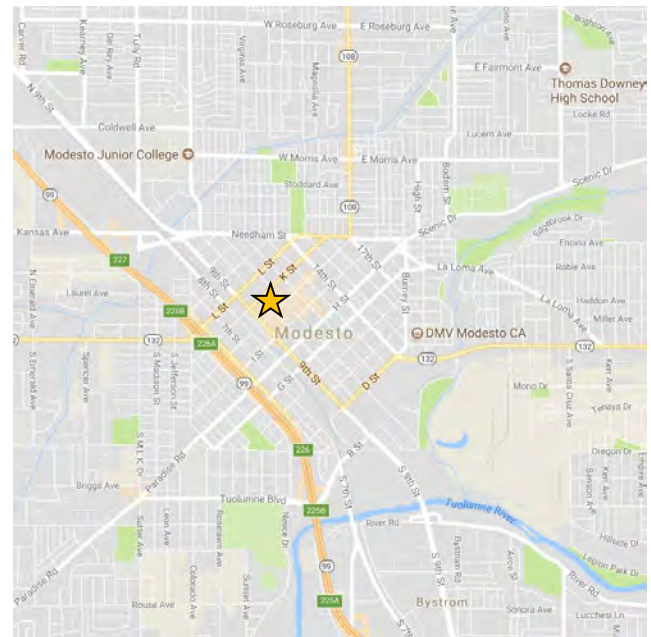
**Working together to manage surface and groundwater resources**



**Snacks and beverages will be provided!**

**WHEN:** Thursday, December 14<sup>th</sup> – 2 p.m.

**WHERE:** Modesto City Hall, Basement Level  
1010 10<sup>th</sup> Street, Modesto, CA 95354



- Learn about Integrated Regional Water Management Planning
- Hear a presentation on Draft IRWM Plan
- Learn what happens next
- Discuss the future of IRWM planning in the East Stanislaus Region

**For more information on the workshop, contact:**

**Jim Alves**  
Associate Civil Engineer  
City of Modesto  
(209) 571-5557 or [jalves@modestogov.com](mailto:jalves@modestogov.com)

This meeting is sponsored by:



**East Stanislaus Regional Water Management Partnership**

*Usted está invitado a un taller para la comunidad...*

Venga y escuche sobre el Plan Borrador de Administración Integral Del Agua Regional Del Este De Stanislaus

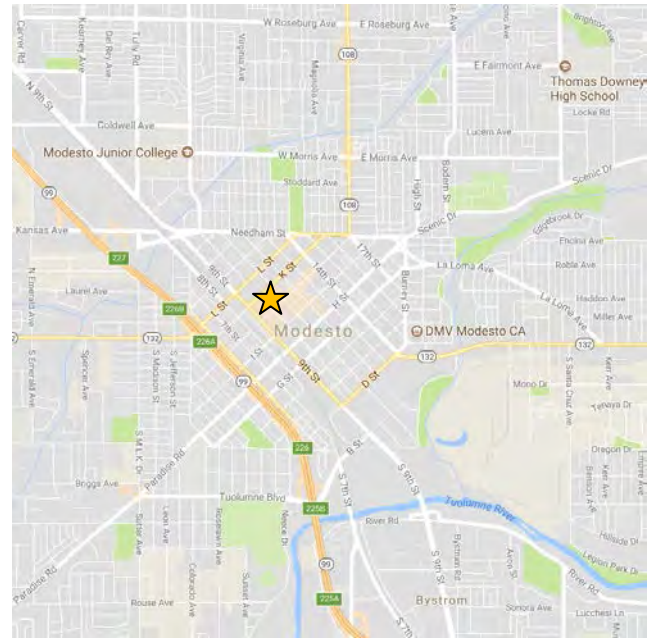
**Trabajamos juntos para administrar los recursos locales del agua de superficie y agua subterránea**



**Habra refrescos y antojitos!**

**FECHA:** El jueves 14 de diciembre a las 2:00 de la tarde

**WHERE:** Ayuntamiento de Modesto, En el sótano  
1010 10<sup>th</sup> Street, Modesto, CA 95354



- Aprenda sobre el planeamiento de la administración integral del agua regional;
- Escucharemos una presentación acerca del plan borrador de IRWM
- Aprenda los próximos pasos
- Hablaremos sobre el futuro de planeamiento de IRWM en la región de Este de Stanislaus

Para más información sobre el taller, viste [www.eaststanirwm.org](http://www.eaststanirwm.org), o contacte al siguiente:

**Miguel Alvarez**  
Ingeniero Asociado  
De La Ciudad De Modesto  
(209) 577-5348 o por correo electrónico  
[malvarez@modestgov.com](mailto:malvarez@modestgov.com)

Esta Junta es patrocinada por:



(Por sus siglas en ingles)  
**East Stanislaus Regional Water  
Management Partnership**



# 2017 East Stanislaus Integrated Regional Water Management Plan Update

Presenter:  
Leslie Dumas

December 14, 2017

## Meeting Agenda

- Introductions
- Summary of Integrated Regional Water Management Program
- Overview of 2017 East Stanislaus Integrated Regional Water Management Plan Update
- Next Steps



## Introductions

- ESRWMP Members
  - City of Modesto
  - City of Hughson
  - City of Ceres
  - City of Turlock
  - City of Waterford
  - Stanislaus County
- Consultant
  - RMC / Woodard & Curran



## Meeting Agenda

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- **Summary of Integrated Regional Water Management Program**
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- A decrease in agency responsibilities or autonomy
- A policy document
- Comprehensive project documentation



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- Develop regional understanding
- Identify water resources solutions
- Reflect the regional needs
- Maximize benefits through integration of water management strategies
- Leverage regional resources through partnerships
- Be eligible for State funding through the IRWM grant program



### 2016 Integrated Regional Water Management Grant Program Guidelines

Volume 1 - Grant Program Processes  
July 2016



California Regional Water Quality Control Board  
Department of Water Resources  
Division of Integrated Regional Water Management



IRWMPs are  
prepared to meet  
DWR's IRWM  
Guidelines  
(July 2016)



## Contributors Include...

- Water and Wastewater Agencies
- Counties
- Cities
- Public Groups
- Private Organizations
- Members of the Public



## Parallel Planning Efforts

- Stanislaus Multi-Agency Storm Water Resource Plan
  - Vehicle for stormwater planning and funding
  - Plan production is underway
  - DWR requires that IRWMPs must incorporate a SWRP
- Disadvantaged Communities Involvement Program
- Sustainable Groundwater Management Act (SGMA) and Groundwater Sustainability Plans (GSPs)



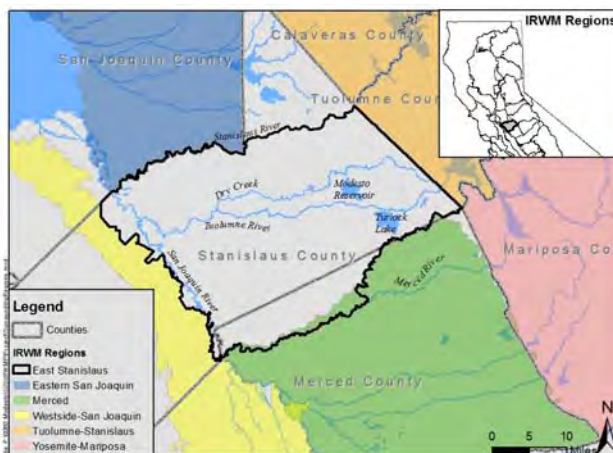
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- Next Steps



## East Stanislaus IRWM Planning Process

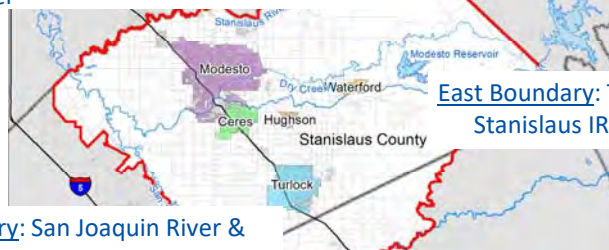
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- Received planning and implementation grants.





## East Stanislaus Regional Boundaries

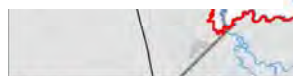
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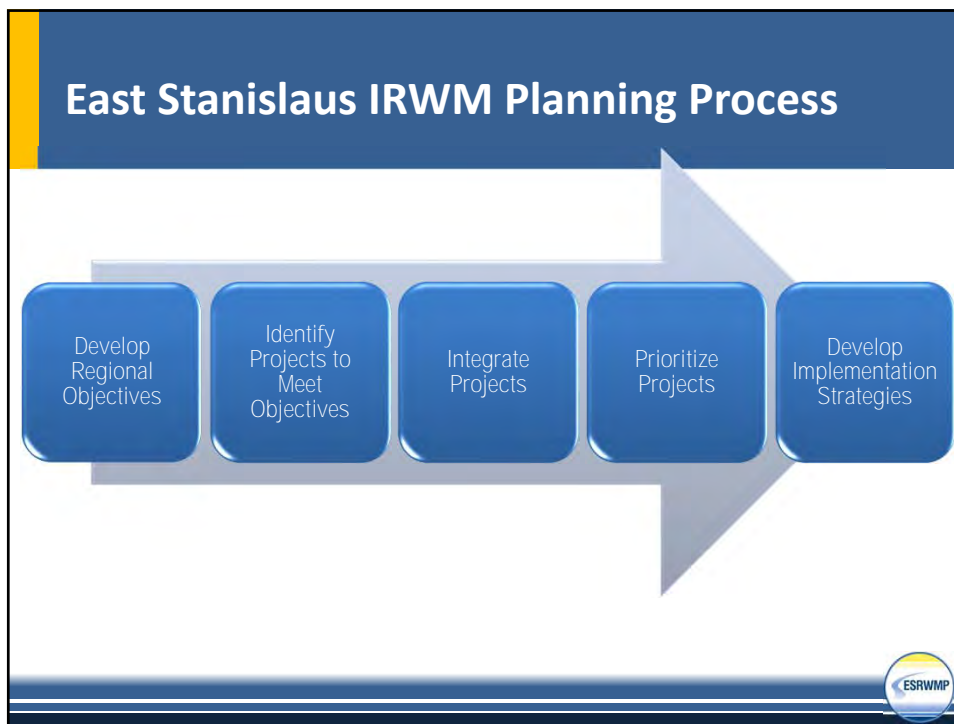
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- Comply with DWR's 2016 IRWM Guidelines for to be eligible for Prop 1 implementation grants
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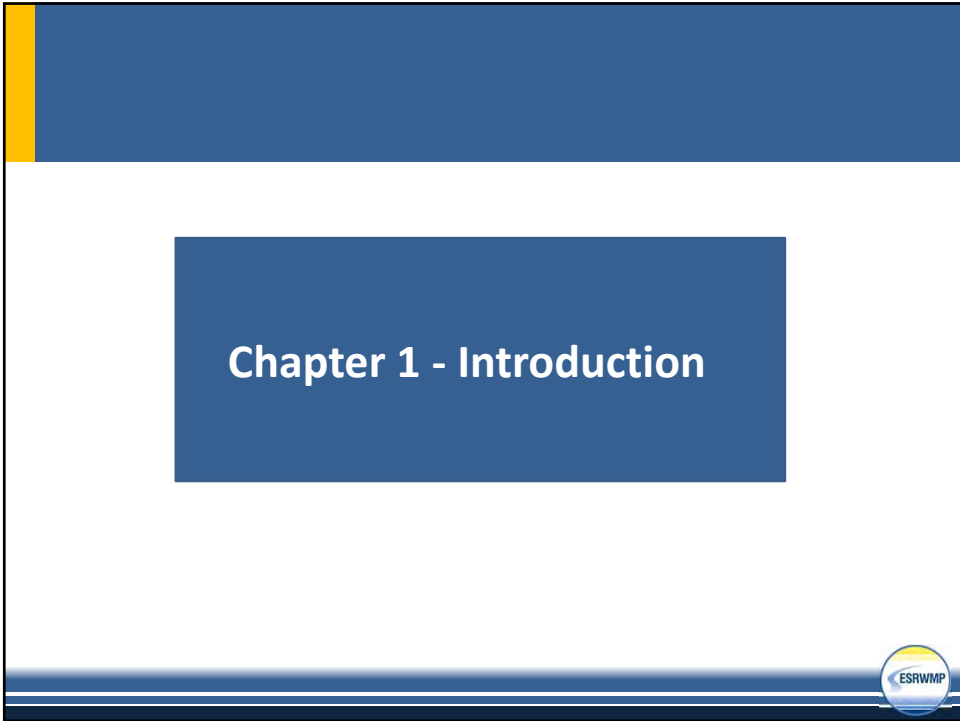
**Public Draft IRWMP Update released for public review on 12/11**





## Outline of the East Stanislaus IRWMP

<p><b>Chapter 1 Introduction</b></p> <p>1.1 IRWMP Overview</p> <p>1.2 Regional Water Management Group</p> <p>1.3 IRWMP Development</p> <p>1.4 IRWMP Adoption</p> <p><b>Chapter 2 ESIRWM Region</b></p> <p>2.1 Region Description</p> <p>2.2 Water Resource Status</p> <p>2.3 Climate Change Impacts</p> <p><b>Chapter 3 Climate Change</b></p> <p>3.1 Introduction</p> <p>3.2 Statewide Observation and Projections</p> <p>3.3 Legislative and Policy Context</p> <p>3.4 Regional Climate Change Projections and Impacts</p> <p>3.5 Regional Water Resource Vulnerabilities</p> <p>3.6 Climate Change Adaptation and Mitigation</p> <p>3.7 Plan for Further Data Gathering</p> <p><b>Chapter 4 ESIRWM Governance, Coordination and Outreach</b></p> <p>4.1 Governance</p> <p>4.2 Stakeholder Involvement and Outreach</p> <p>4.3 Coordination with Other/Neighboring IRWM Regions</p> <p>4.4 Coordination with State/Federal Agencies</p> <p>4.5 Coordination with Regional and Local Agencies</p>	<p><b>Chapter 5 Vision, Goals, and Objectives</b></p> <p>5.1 Regional Conflicts and Issues</p> <p>5.2 Region's Vision for Water Resources Management</p> <p>5.3 Region Goals &amp; Objectives</p> <p>5.4 Relation to Statewide Priorities</p> <p>5.5 Relation to Regulatory Programs</p> <p>5.6 Relation to Local Water Planning</p> <p>5.7 Relation to Local Flood Control Planning</p> <p>5.8 Relation to Local Land Use Planning</p> <p><b>Chapter 6 Resource Management Strategies</b></p> <p>6.1 RMS Identification</p> <p>6.2 RMS Descriptions</p> <p><b>Chapter 7 Project Review Process</b></p> <p>7.1 Project Solicitation</p> <p>7.2 Project Review and Integration</p> <p>7.3 Project Prioritization</p> <p>7.4 Impacts and Benefits</p> <p><b>Chapter 8 Technical Analysis and Data Management</b></p> <p>8.1 Technical Analysis</p> <p>8.2 Data Management</p> <p><b>Chapter 9 Plan Implementation</b></p> <p>9.1 Implementation Process</p> <p>9.2 Financing Plan</p> <p>9.3 Plan Performance and Monitoring</p> <p>9.4 Plan Updates</p> <p><b>Chapter 10 References</b></p>
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## Introduction

- Describes the purpose of the IRWMP
- Introduces the East Stanislaus Regional Water Management Partnership
- Explains that each DWR Plan Standard is addressed
- Lists entities that adopted the IRWMP

Plan Standard	East Stanislaus IRWMP Chapter to Reference
Governance	4.1
Region Description	Chapter 2
Objectives	Chapter 5
Resource Management Strategies	Chapter 6
Integration	7.2
Project Review Process	7.1, 7.2, 7.3
Impacts and Benefits	7.4
Plan Performance and Monitoring	9.1, 9.3, 9.4
Data Management	8.2
Finance	9.2
Technical Analysis	8.1
Relation to Local Water Planning	5.6, 5.7
Relation to Local Land Use Planning	5.8
Stakeholder Involvement	4.2
Coordination	4.3, 4.4, 4.5
Climate Change	Chapter 3

## Chapter 2 – ESIRWM Region



## Chapter 2 Describes the Region Boundaries

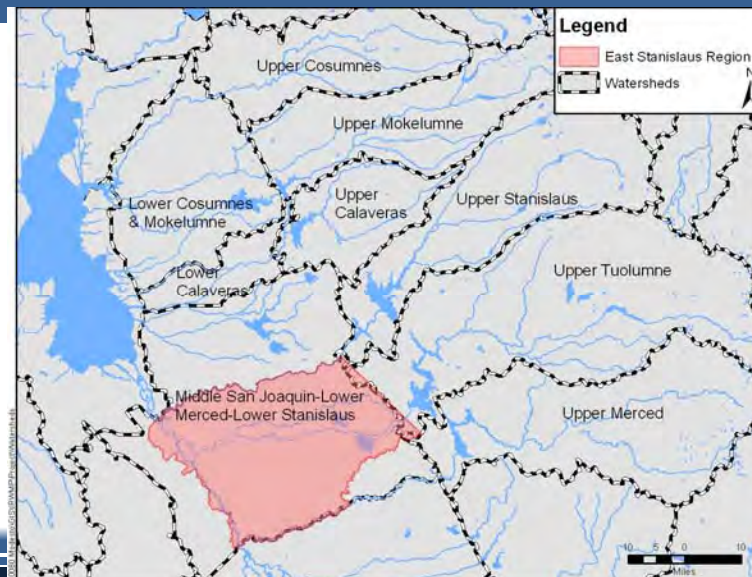


## The East Stanislaus Region Includes...

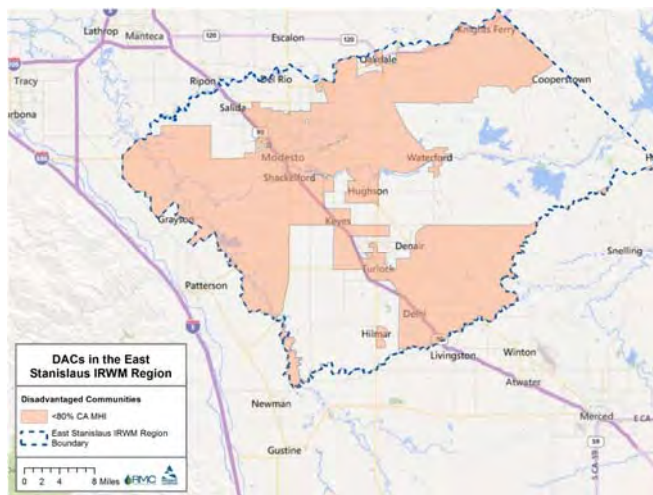
- Portions of Stanislaus and Merced Counties
- Cities of Modesto, Hughson, Turlock, Ceres, Riverbank, Waterford, and Oakdale
- Communities of Keyes, Denair, Del Rio, Riverdale, Grayson, Hickman, Empire, Salida, Hilmar, and Delhi
- Turlock Irrigation District, Modesto Irrigation District, Eastside Irrigation District, and Oakdale Irrigation District



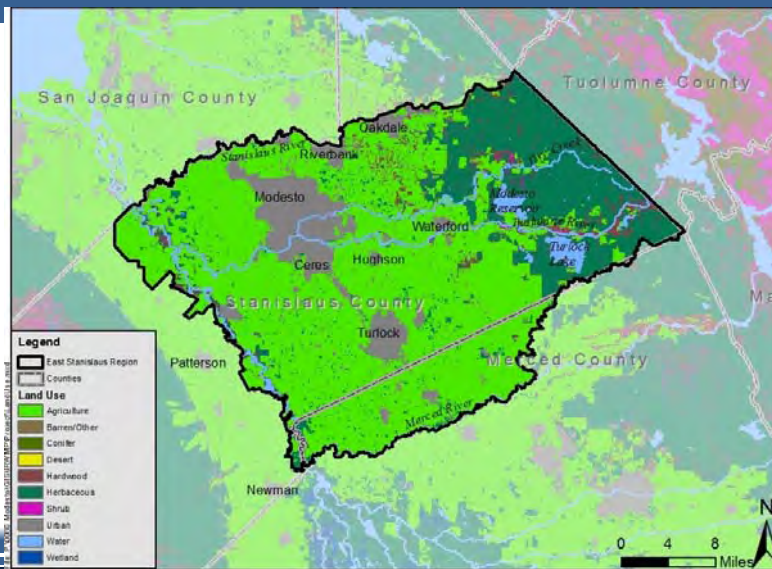
## Chapter 2 Describes Watersheds



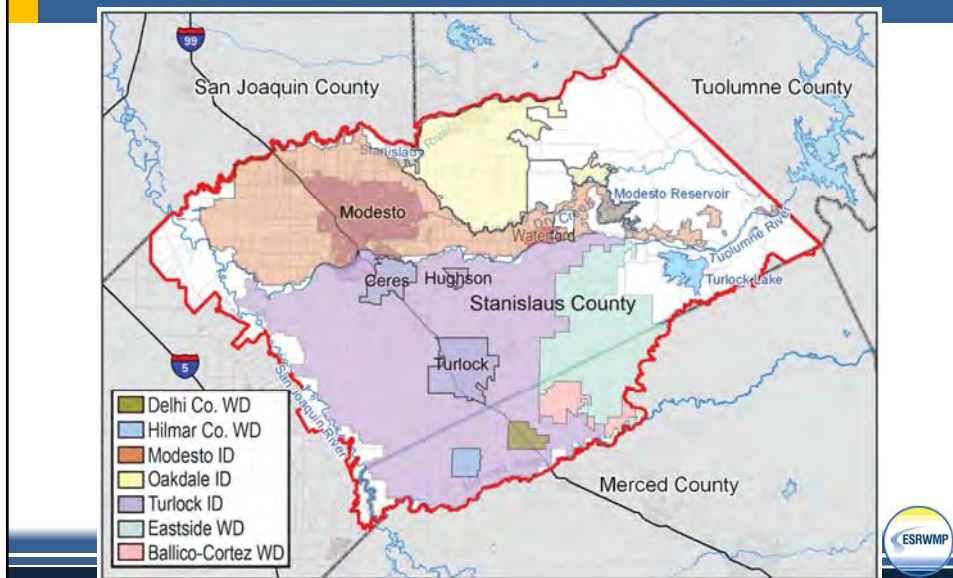
## Chapter 2 Describes Region Demographics



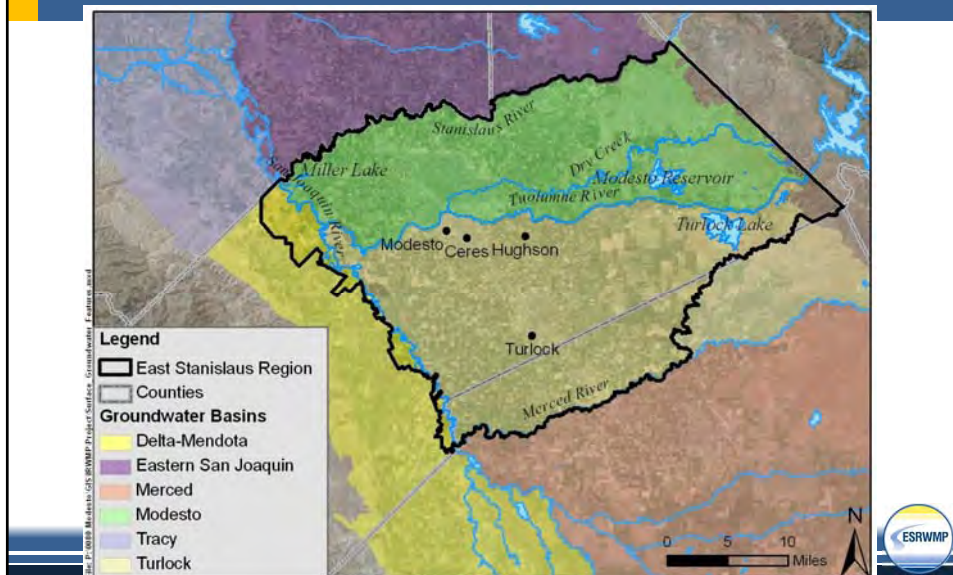
## Chapter 2 Describes Land Use



## Chapter 2 Describes Water Providers



## Chapter 2 Describes Groundwater Basins



## Chapter 2 Describes Flood Zones



## Chapter 2 Summarizes Water, Wastewater, and Recycled Water in the Region

- Water supplies and demands
- Wastewater treatment and collection
- Potential for recycled water use (e.g. North Valley Regional Recycled Water Project)
- Water quality





## Chapter 3 – Climate Change



### Climate Change Vulnerabilities

- Reduced surface water availability
- Reduced groundwater supply reliability
- Potential increase in groundwater overdraft
- Declining water quality
- More severe flooding events
- Loss of riparian habitat, wetlands and other sensitive natural communities
- Reduced hydroelectric generation capacity



## Climate Change Adaptation & Mitigation

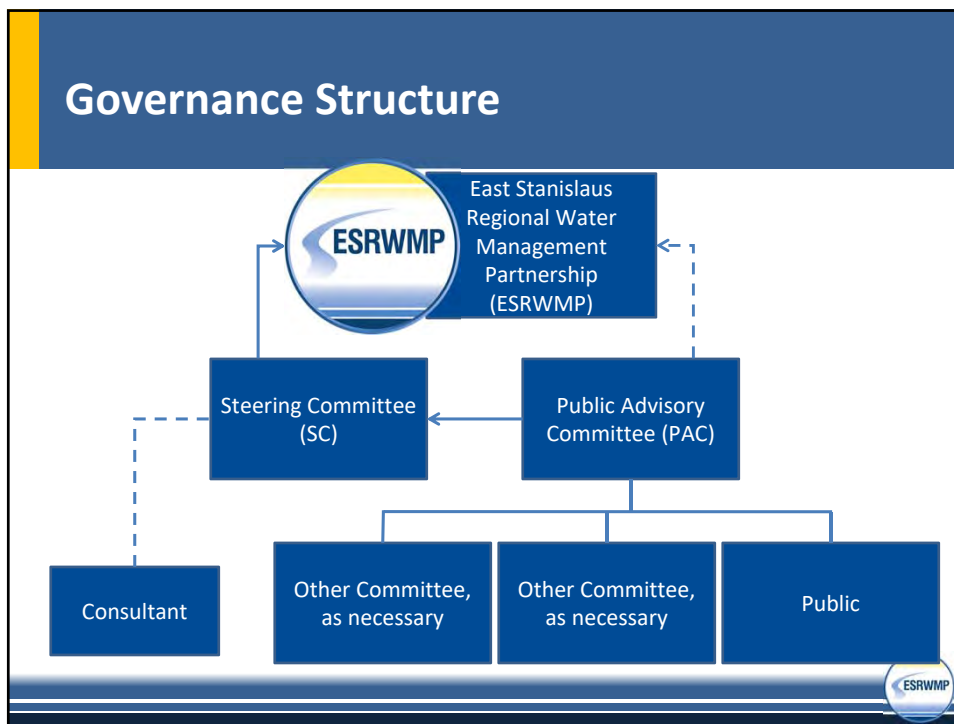
Climate adaptation includes:

- **Adaptation strategies** (policies, programs or other actions) that bolster resilience
- **Mitigation strategies** (best management practices or other measures) to reduce GHG emissions.
- Adaptation and mitigation strategies were discussed in the Resource Management Strategies Chapter



## Chapter 4 – Governance, Coordination, and Outreach





## ESRWMP and Committees

ESRWMP	Steering Committee	Public Advisory Committee
<ul style="list-style-type: none"> <li>• Elected officials from six ESRWMP member agencies</li> <li>• Facilitates communication, cooperation, and education between member agencies</li> <li>• Provides oversight to SC and PAC</li> <li>• Meetings are held as needed</li> </ul>	<ul style="list-style-type: none"> <li>• Leads preparation and implementation of the IRWMP</li> <li>• ESRWMP member agency staff that actively manage projects</li> <li>• Manages IRWM contracts, databases, and reporting</li> <li>• Manages IRWM budgets and schedules</li> <li>• Conveys PAC recommendations to the ESRWMP</li> </ul>	<ul style="list-style-type: none"> <li>• Provides input and recommendations to ESRWMP and SC</li> <li>• Open to all</li> <li>• First tier of decision making</li> <li>• Provides feedback on changes to IRWMP</li> </ul>

## Chapter 5 – Vision, Goals, and Objectives



### Shared Issues and Conflicts

- Water supply reliability
- Drinking water quality
- Water quality protection
- Groundwater overdraft / contamination / recharge
- Protection and enhancement of aquatic, riparian, and watershed resources
- Water-related needs of disadvantaged communities
- Flood protection
- Recycled water use
- Water conservation
- Aging infrastructure



## The East Stanislaus Region's IRWM Vision

*Integrate projects to provide multiple benefits, resolve identified issues and conflicts, and meet the regional goals and objectives to achieve water reliability and sustainability and flood protection while protecting and enhancing the environment and regional economies and culture.*



## Identified Regional Goals

### **Water Supply**

Protect existing water supplies and water rights, and improve regional water supply reliability.

### **Flood Protection**

Ensure flood protection strategies are developed and implemented through a collaborative process, utilizing both local and watershed-wide approaches designed to maximize opportunities for comprehensive water resource management that meet multiple objectives.

### **Water Quality**

Protect and improve water quality for beneficial uses consistent with regional interests and the RWQCB Basin Plan in cooperation with local, state and federal agencies and regional stakeholders.



## Identified Regional Goals

### **Environmental Protection and Enhancement**

Protect the environmental resources of the Stanislaus, Tuolumne, Merced and San Joaquin River watersheds by identifying, promoting and implementing opportunities to assess, restore and enhance natural resources of these watersheds.

### **Regional Communication and Cooperation**

Implement and promote the East Stanislaus IRWM Plan through regional communication, cooperation, and education.

### **Economic and Social Responsibility**

Promote development and implementation of projects, programs and policies that are socially impartial and economically sound.



## Chapter 6 – Resource Management Strategies



## Resource Management Strategies (RMS)

- Intended to encourage a diversified approach to water management
- RMS are defined in DWR's 2013 California Water Plan Update
- RMS were considered in terms of:
  - Supporting Regional goals
  - Climate change adaptation/mitigation



## RMS Categories

RMS Categories are:

- Reduce Water Demand
- Improve Operational Efficiency and Transfers
- Increase Water Supply
- Improve Water Quality
- Improve Flood Management
- Practice Resource Stewardship
- People and Water
- Other Strategies



## Chapter 7 – Project Review Process



### Project Solicitation and Prioritization

- Project Solicitation opened August 7, 2017
- Public Workshop held August 15, 2017
- Project Solicitation closed on September 29, 2017
- 52 projects submitted
  - 2 were combined/integrated
  - 23 denoted 'Ready-to-Proceed' → prioritized
  - 28 denoted 'Conceptual'





## Projects that were Prioritized

- Mustang Creek MAR Project
- Rouse Lake Managed Aquifer Recharge (MAR) Project
- North Valley Regional Recycled Water Project
- SRWA Regional Surface Water Supply Project
- Dos Rios Floodplain and Riparian Habitat Restoration
- Regional Surface Water Treatment Plant Pipeline Turnout
- Catherine Everett Park Cross Connection Elimination
- JM Pike Park Cross Connection Elimination
- East Stanislaus Watershed Outreach and Education
- Regional Water Needs Assessment
- Tuolumne River Non-Motorized Boat Launch
- Tuolumne River Regional Park
- Non-Potable Water System
- 7th Street Low Impact Development (LID) Storm Drainage Improvements
- TRRP - Carpenter Road/West Modesto Flood Management and Park Development
- Modesto Area 2 Stormwater to Sanitary Sewer Cross-Connection Removal Project
- DAC and Native American Outreach and Technical Assistance
- Sutter Wastewater Treatment Plant Relocation Project
- South Modesto Infrastructure Efficiency Improvements
- Dennett Dam Removal
- Online Data Management System
- Grayson Water System Efficiency improvements
- F St Storm Pond



## Chapter Summarizes Impacts and Benefits from Plan Implementation

- Potential impacts and benefits by project type (e.g., groundwater, conservation, wastewater)
- Impacts and benefits associated with plan implementation at the regional and interregional scales
- Benefits and impacts to Disadvantaged Community (DACs), Environmental Justice-Related Concerns, and Native American Tribal Communities



## Chapter 8 – Technical Analysis and Data Management



### Prepared Using Sound Technical Documents

- IRWM Plan developed using:
  - Urban Water Management Plans (UWMPs)
  - Water Supply Plans
  - Draft Regional Flood Management Plan
  - EIRs/EISs
  - Feasibility Studies
  - General Plans



## Chapter 8 Describes

- Why the information is good for use in developing the IRWM Plan
- Identified data gaps in regional understanding
- Notes no additional focused models or studies were performed
- Identifies recommended additional studies



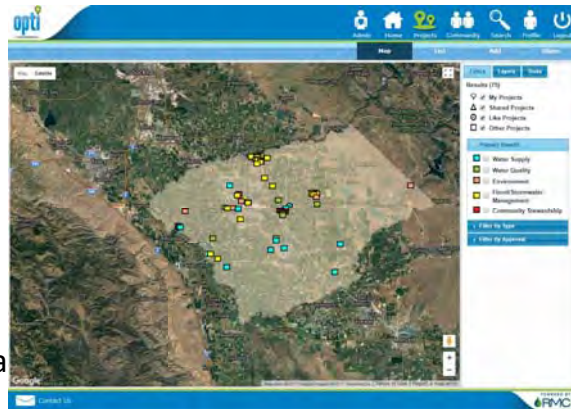
## Chapter 8 Describes Data Needs and Dissemination

- Presents list of data that may be collected during plan implementation
- Summarizes Regional data needs
  - Most data gaps are in unincorporated areas
  - Identifies data gaps
  - Summarizes studies to fill data gaps
- Discusses data dissemination – website, meetings and workshops, uploads to state databases
- Describes state database compatibility



## Chapter 8 Describes Data Collection and Storage

- What is currently being done
- Identifies regional data management system (DMS)
- Individual stakeholders and project proponents responsible for data collection, review, management



## Chapter 9 – Plan Implementation



## Potential Funding Sources for IRWMP Implementation

- Capacity fees
- User fees and rates
- General or Capital Improvement Funds
- Bonded Debt Service
- Grants
- Low-Interest Loans



## Chapter 9 Addresses Project Monitoring

- Plan performance monitoring
- Individual project proponents responsible for project-specific monitoring plans
- Outlines ESRWMP role in project performance monitoring
- Describes how data will be used to improve the IRWM Plan (adaptive management)



## Long-Term Maintenance Activities

Activity	Frequency*
ESRWMP Meetings (financing, regional water resources issues, other)	As needed
Project Solicitation, Review, Integration and Prioritization	As needed, no less than every 5 years
Plan and Project Monitoring and Performance	Annually
IRWM Plan Review and Update	As needed, no less than every 5 years
Outreach	Continuously

\*Frequencies identified are **minimum** frequencies



## Meeting Agenda

- Introductions
- Summary of Integrated Regional Water Management Program
- Overview of 2017 East Stanislaus Integrated Regional Water Management Plan Update
- **Next Steps**



## Next Steps

- Solicit and incorporate public comments
  - Submit comments to Jim Alves
    - Email: [jalves@modestogov.com](mailto:jalves@modestogov.com)
    - Snail mail: Jim Alves, P.O. Box 642, Modesto, CA 95353
  - Comments due by January 22<sup>rd</sup>
  - Finalize and adopt the IRWMP
- Begin implementation of the IRWMP
- Prepare for funding opportunities
- Implementation grants anticipated in summer 2018




**Questions?**





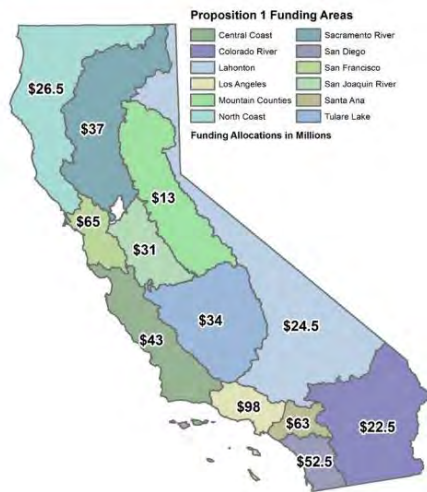
**2017 East Stanislaus Integrated  
Regional Water Management Plan  
Update**

**Back-up Slides**





## IRWM Funding Areas Coincide with State Hydrologic Regions



## Prioritized Project List

ID No.	Project Name	Primary Contact Agency	Score
1429	Mustang Creek MAR Project	Eastside Water District	3.52
1427	Rouse Lake Managed Aquifer Recharge (MAR) Project	Eastside Water District	3.23
1319	North Valley Regional Recycled Water Project	City of Turlock	2.81
1312	SRWA Regional Surface Water Supply Project	City of Turlock	2.46
1359	Dos Rios Floodplain and Riparian Habitat Restoration	River Partners	1.57
1340	Regional Surface Water Treatment Plant Pipeline Turnout	City of Hughson	1.46
1460	Catherine Everett Park Cross Connection Elimination	City of Modesto	1.38
1461	JM Pike Park Cross Connection Elimination	City of Modesto	1.35
1416	East Stanislaus Watershed Outreach and Education	Tuolumne River Trust	1.33
1349	Regional Water Needs Assessment	City of Modesto	1.27
1362	Tuolumne River Non-Motorized Boat Launch	City of Waterford	1.22

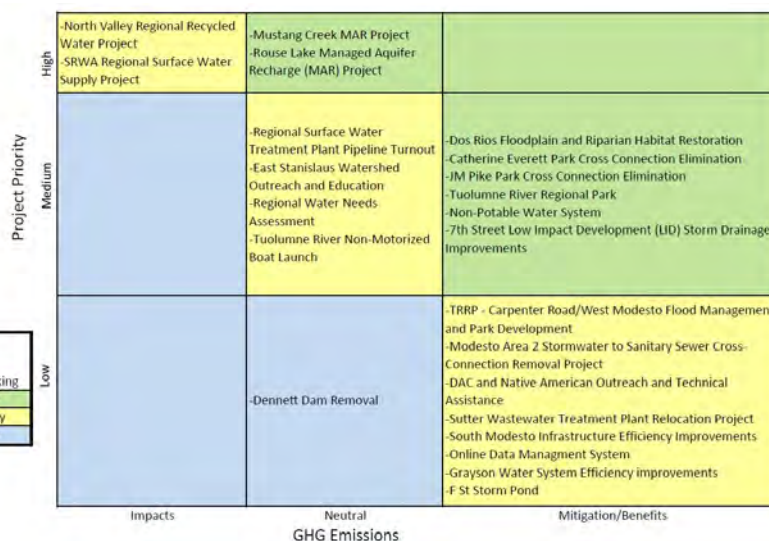


## Prioritized Project List

ID No.	Project Name	Primary Contact Agency	Score
1466	Tuolumne River Regional Park	City of Modesto	1.06
1305	Non-Potable Water System	City of Hughson	1.04
1331	7th Street Low Impact Development (LID) Storm Drainage Improvements	City of Hughson	1.01
1467	TRRP - Carpenter Road/West Modesto Flood Management and Park Development	City of Modesto	0.92
1325	Modesto Area 2 Stormwater to Sanitary Sewer Cross-Connection Removal Project	City of Modesto	0.87
1346	DAC and Native American Outreach and Technical Assistance	City of Modesto	0.87
1455	Sutter Wastewater Treatment Plant Relocation Project	City of Modesto	0.86
1386	South Modesto Infrastructure Efficiency Improvements	City of Modesto	0.85
1351	Dennett Dam Removal	Tuolumne River Trust	0.83
1347	Online Data Management System	City of Modesto	0.73
1385	Grayson Water System Efficiency improvements	City of Modesto	0.69
1450	F St Storm Pond	City of Waterford	0.44



## Secondary Project Ranking



**Legend**

Secondary Project Ranking
Primary
Secondary
Tertiary



**PUBLIC WORKSHOP SIGN-IN SHEET - 12/14/2017**

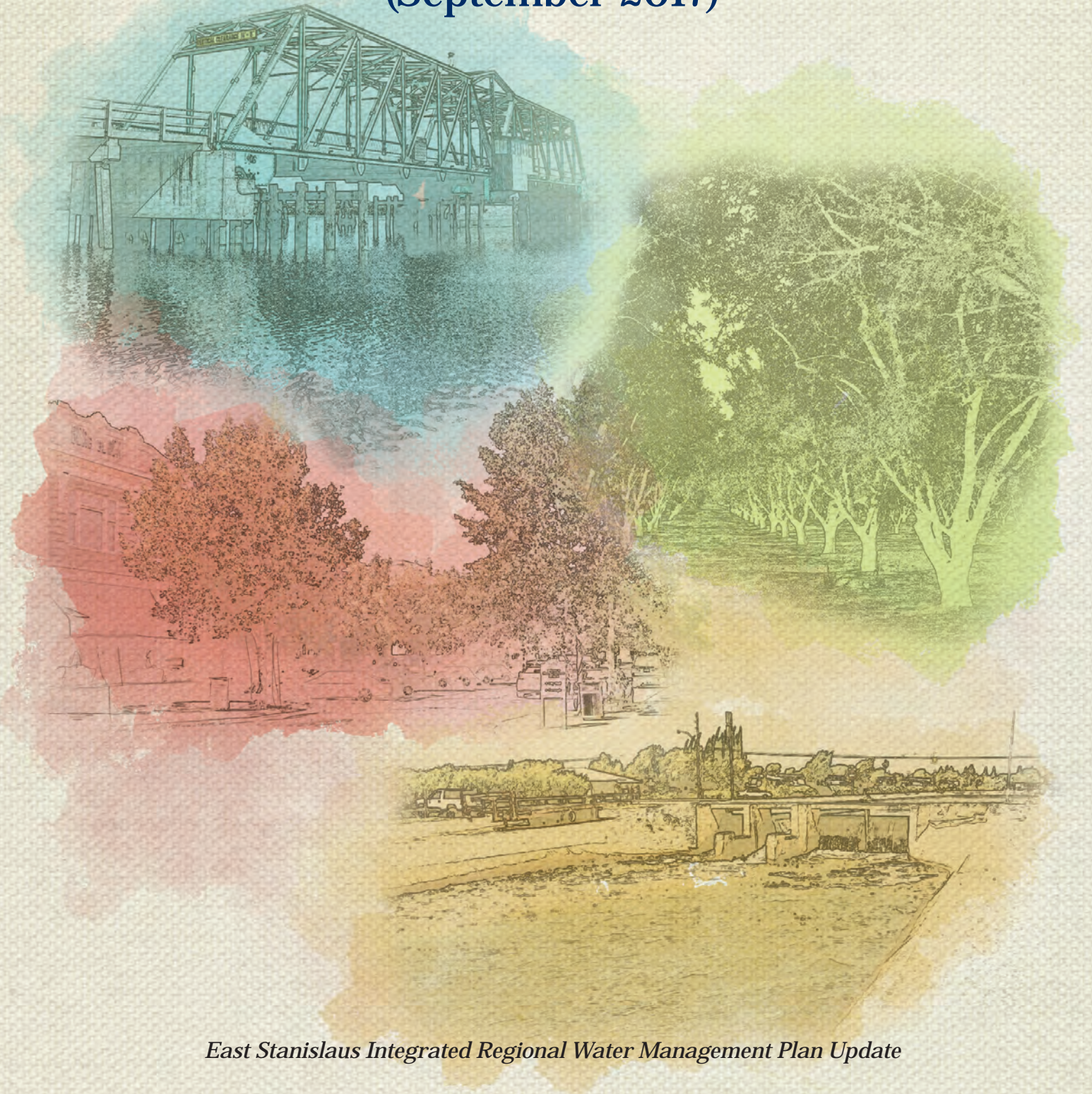
NAME	AGENCY	PHONE NUMBER	EMAIL ADDRESS	ADDRESS
Dhyan Gilton	Stanislaus Co.	525-7538	Dhyan Gilton@stanislauscounty.com	1010 10th St #4200 Modesto, CA 95354
Edgar Garibay	Tuolumne River Trust	236-0330	edgar@tuolumne.org	829 13th St. Modesto 95354
Veronica Torow	Catholic Charities	(209) 373-7650	vtorow@ccstockton.org	2351 Tenaya Dr. Modesto, CA 95354
Karen Morgan	City of Waterford	209 874-2329 <del>209 874-2329</del> '''	kmorgan@cityofwaterford.org	101 East Waterford Ca.
Carrie Loschke	M.I.D.	526-7570	Carrie.Loschke@mid.org	P.O. Box 4460 Modesto, CA 95352
Jim Alves	Modesto	209 571 5357	-	-
Michael Britton	Cereb	538-5758	-	-

## SIGN-UP SHEET FOR EMAIL UPDATES

NAME	AGENCY	PHONE NUMBER	EMAIL ADDRESS	ADDRESS
Kevin Kauffman	EASTSIDE AD	478-4940	Kauffmank@comcast.net	
Mike Munnwinkle	Mayor City of Waterford	531-5599	munnwinkle@cityofwaterford.org	
Cynthia Zuniga	Catholic Charities	209 406-9171	czuniga@ccstockton.org	
Mike Pitecock	city of Waterford	209 874-2328	MPITECOCK@cityofwaterford.org	
Pani Basalusa	city of waterford	874-2388	pbasalusa@cityofwaterford.org	

# Appendix J

## Summary of Submitted Projects and Project Scoring (September 2017)



## Appendix J - Project Information and Prioritization

Appendix J contains materials summarizing the projects submitted during the 2017 ESIRWMP project solicitation period, as well as information on project prioritization and scoring.

Content	Page Number
<b>Project Descriptions</b> This sheet summarizes projects submitted, including proponent and project description.	J-2
<b>Prioritization Results Summary Sheet</b> This sheet provides an overview of project, type, project scoring, GHG assessment, secondary ranking, and potential funding sources.	J-8
<b>Project Prioritization Scoring Sheet (Blank)</b> Form used for scoring projects.	J-9
<b>Project Prioritization Scoring Rubric</b> Guidelines used for assigning scores of 0-5 when scoring projects.	J-10
<b>Project Prioritization Scoring Sheet</b> Full set of scores assigned to each project.	J-13
<b>Infrastructure Life Spans</b> Lifespans used in the relative cost-benefit analysis.	J-18
<b>Relative B:C Ratio Score Calculations</b> Full Relative B:C Score calculations and cost information provided by project proponents.	J-19
<b>Secondary Project Ranking</b> Ranking of projects which factors in the secondary GHG emission ranking and assigns projects to primary, secondary, or tertiary categories based on the project priority and GHG emissions.	J-23



## East Stanislaus IRWMP Update 2017 Project Description Summary Sheet

No.	Project Name	Primary Contact Name	Primary Contact Agency	Project Category	Project Description
1	Ballico Community Water Service District 2nd Well Proposal funding	Manuel Jimenez	Ballico Community Water Service District	Concept	The Ballico Community Water Service District is in major need of funding to construct a second well and comply with state law. Currently there is only one well supplying water to the community of about 72 houses and the Ballico School and fire department. The current well is over 25 years old and in need of maintenance as well. Also according to environmental health department the water supply lines need replacement soon due to being too old. The district currently only has enough funding to sustain itself. We hope that you will consider our need when reviewing the projects and will approve our request.
2	Water Well No. 11	Jaylen French	City of Hughson	Concept	Well No. 11 will replace one of the City's wells which have higher nitrate levels, in conjunction with new Wells No. 9 & 10. The City has recently lost Well No. 7 and Well No. 5 due to nitrate levels above the allowable MCL. Wells No. 3 is currently testing high, with an MCL of 45. Rather than deliver water to customers that is over the allowable nitrate limit, the City is being proactive and putting Wells No. 3 and 5 into standby status. Well No. 5 is also testing high in DBCP and has exceeded the MCL with that constituent. The City has three production wells in service for the entire City water demand. We anticipate that these three new wells will be deeper than the existing wells in the City to avoid nitrate contamination.
3	Well No. 3 and Well No. 7 Depth Extension	Jaylen French	City of Hughson	Concept	Well 3 and Well 7 are currently drilled to a depth of 350 feet. The wells are testing for nitrate very close to the MCL of 45. The City believes that drilling the well to a lower depth will ensure that water pulled from the well is significantly freer of nitrate contamination.
4	GAC Treatment Facilities	Jaylen French	City of Hughson	Concept	GAC Treatment Facilities for both TCP and Nitrates at various City of Hughson well sites
5	7th Street Low Impact Development (LID) Storm Drainage Improvements	Jaylen French	City of Hughson	Preliminary Design Complete	Construct Low Impact Development storm water facility on existing street with inadequate drainage facilities and no outlet to detention/retention basin. Project will avoid the need for a basin, thereby avoiding conversion of farmland for that purpose.
6	Regional Surface Water Treatment Plant Pipeline Turnout	Jaylen French	City of Hughson	Preliminary Design Complete	<p>This project is a water piping turnout on the supply line for the Regional Surface Water Treatment Plant, located just east of the city limits. Although the City of Hughson has recently dropped out of the regional project for financial reasons, treated surface water will still be available to the city on a purchase basis. The Surface Water Plant will be delivering water to the Cities of Ceres and Modesto at high pressures of about 90 psi, thereby eliminating the need for a booster pump to tie into the city's water delivery system. A 24 inch casing was installed with the Euclid Bridge construction project over the Turlock Irrigation District canal, enabling a 14 inch diameter pipe to be installed through the existing casing to connect to the city distribution system.</p> <p>Project includes site acquisition, flow control and pressure reducing valves, valve vault structures and appurtenances, chlorine residual monitoring station, metering station, power supply, &amp; control/SCADA system.</p>
7	Non-Potable Water System	Jaylen French	City of Hughson	Ready to Proceed	<p>This project will reduce the demand on the potable water system by using two existing water wells with water quality issues to irrigate City and Hughson School District turf areas. It will take approximately 54 acres of turf area off of the potable system and instead irrigate the turf areas with water that is currently non-compliant for drinking water. It will supply about 1,500 gallons per minute to these turf areas and reduce the potable water demand by the same amount. This will alleviate the need to treat water from the two wells to drinking water standards. In addition to the treatment avoidance savings, which benefits all users of the potable water system, the non-potable water will be priced at substantially reduced rates, benefiting school district and parks department expenditures, which ultimately saves money for residents.</p> <p>Work is mainly underground distribution piping to turf areas with some modification to existing wells.</p>
8	Northeast Storm Drainage Interceptor Project	Jim Alves	City of Modesto	Concept	This project would construct a series of four large storm water detention basins and an interceptor pipe east of the AT&SF Rail line to an existing outfall at Dry Creek for the purpose of eliminating the overland 100-year flood event risk to northeast Modesto from roughly 2,335 acres of northeast watershed area. This project could also utilize collected runoff from more frequent storm runoff events for the purpose of promoting groundwater recharge strategies in areas that have high potential to provide good recharge instead of discharging to Tuolumne River via proposed interceptor channel.
9	Modesto Area Groundwater Basin Monitoring Wells	Jim Alves	City of Modesto	Concept	This project will continue with an on-going aquifer characterization and groundwater management effort to quantify seasonal and long-term groundwater changes and storage opportunities within the Modesto area overlying the Modesto Groundwater Subbasin by identifying and installing a system of groundwater monitoring wells for the purpose of collecting reliable groundwater quality and groundwater levels data. These would be dedicated groundwater monitoring wells versus the currently used water production wells which are often not conducive for the desired needs under SGMA and Modesto's future groundwater supply management.



# East Stanislaus IRWMP Update 2017

## Project Description Summary Sheet

No.	Project Name	Primary Contact Name	Primary Contact Agency	Project Category	Project Description
10	Modesto Urban Stormwater Basin Recharge Program	Miguel Alvarez	City of Modesto	Concept	The purpose of this program is to optimize groundwater recharge opportunities through use of the existing stormwater basins. This project will analyze Modesto's stormwater retention and detention storage basins, identify missing data needs, determine basin capacities where unknown, establish percolation rates, review operational parameters and constraints and rank basins and their associated stormwater runoff areas as to greatest need and potential for increasing stormwater basin recharge opportunities. Potential solutions could include changing operational criteria and installation of infrastructure to maximize percolation instead of pumping stormwater to irrigation facilities and discharges to Tuolumne River. These efforts could also allow areas that currently have inadequate flood mitigation facilities (aka inefficient storm basins) to increase their stormwater management capabilities to provide reduced flooding potential.
11	Grayson Community Water Well	Jim Alves	City of Modesto	Concept	Project will develop a new drinking water well to a disadvantaged community that relies solely on groundwater supply and is deficient in water system fire flow demand, water production reliability and water quality due to groundwater contaminants. Project is entering design phase by end of 2017. Test hole has been completed.
12	Grayson Community Wellhead Treatment System	Jim Alves	City of Modesto	Concept	Project would evaluate existing ion exchange water treatment system against other possible solutions to determine if better treatment solution can be obtained at a lower cost. The existing system is near its life cycle end and will need to be upgraded or replaced.
13	Direct Potable Reuse Pilot Facility	Jim Alves	City of Modesto	Concept	Design and construction of direct potable reuse demonstration facility at the City of Modesto Secondary and Tertiary Water Quality Control Plant (Jennings), further treatment of the Title 22 effluent through reverse osmosis, UV advanced oxidation process, chlorination, and an engineered storage buffer. A Draft Potable Water Reuse Evaluation , Potable Reuse Permitting Review, and Draft Potable Water Reuse Evaluation Grant & Funding Assistance documents were prepared.
14	Install Storm Drainage Systems in Rockwell Areas	Jim Alves	City of Modesto	Concept	Provide retention storm drainage systems within the areas of the City that are currently served by rockwells, but outside of the storm drainage "hot zones" (aka flooding) areas and to complete the upgrade storm drainage facilities for the airport. These projects would likely involve LID and storm water capture and recharge methods utilizing underground storage where viably applicable. Many of these areas are DAC's.
15	Install Storm Drainage Capture and Recharge Systems in Flood-prone Areas	Jim Alves	City of Modesto	Concept	Priority Recommendations in SDMP have been updated due to new direction with SGMA, storm drain systems will be moving away from installing new detention systems and going towards installing new retentions systems for recharge and groundwater sustainability. Construct pipelines and retention systems in Hot Zones (areas served by rockwells that have historically experienced flooding, which require City operations and maintenance to pump the surface storm water into the sanitary sewer system periodically after storms). A couple areas have already been mitigated utilizing existing storm drainage system extensions and underground capture and recharge.
16	Tuolumne River Flood Management Feasibility Study	Nathan Houx	City of Modesto	Concept	Complete a USACE Feasibility Study, or a study similar in scope, that evaluates how the management of the Tuolumne River could be revised to improve flood control, enhance aquatic habitat, and improve water quality. <a href="http://www.midsjrfloodplan.org/projects/tuolumne-river-flood-management-feasibility-study">http://www.midsjrfloodplan.org/projects/tuolumne-river-flood-management-feasibility-study</a>
17	Storm Discharge Trash Implementation Compliance Program	Jim Alves	City of Modesto	Concept	In order to comply with the Trash Amendments, the City of Modesto will be submitting a method of complying with statewide Trash Provisions before September 1, 2017. It is expected that the City will select Track 1. Planning effort will be needed to identify work to be completed, resources available, funding, and schedule. Work is currently expected to include outfall identification, prioritization, BMP selection (may include pilot testing), preliminary cost estimates, reporting. Planning efforts described above are expected to provide description and schedule of work needed to achieve compliance.
18	Stormwater Outfall Rehabilitation	Miguel Alvarez	City of Modesto	Concept	The City has 64 river outfalls and 26 canal outfalls, these sources of runoff will be evaluated, for the feasibility to capture and reuse the runoff. Project concept needs to be developed, each outfall needs to be evaluated and prioritized; proceed with developed project as funding allows
19	Modesto Area 2 Stormwater to Sanitary Sewer Cross-Connection Removal Project	David Felix	City of Modesto	Preliminary Design Complete	<p>The proposed multi-benefit project captures, treats, and infiltrates stormwater. The project uses LID Techniques including bio-retention planters, infiltration trenches, and a underground retention basin under Roosevelt Park. The project recharges the groundwater aquifer, reduces stormwater flows to the wastewater treatment plant, the number of Sanitary Sewer Overflows, and improve water quality for Dry Creek, and the Lower Tuolumne River (303d water bodies).</p> <p>Located in the fully developed northwest portion of Modesto which has no positive storm drainage system, the project is a cost effective and LID Alternative to constructing detention basins in undeveloped portions of the city and constructing miles of storm drains. Fourteen failed dry wells and six sanitary sewer cross connections will be removed. The project will reduce localized flooding on Granger Avenue a heavily traveled local street.</p>
20	Grayson Water System Efficiency improvements	Jim Alves	City of Modesto	Preliminary Design Complete	Replace existing leaky inefficient water mains to improve the distribution of potable water for beneficial human use, reduce water loss (non-revenue water) as well as energy and chemical needs for water demands.





## East Stanislaus IRWMP Update 2017 Project Description Summary Sheet

No.	Project Name	Primary Contact Name	Primary Contact Agency	Project Category	Project Description
21	Sutter Wastewater Treatment Plant Relocation Project	Jim Alves	City of Modesto	Preliminary Design Complete	Project will relocate the existing Modesto Primary Treatment Plant from the Sutter Avenue location along the north bank of the Tuolumne River to the existing Jennings Secondary and Tertiary Facility at Jennings Road along the east bank of the San Joaquin River. The existing Sutter facility is aging, with an antiquated design that no longer serves the current and future wastewater treatment needs of Modesto, is located in an FEMA identified floodway and flood plain, is at significant risk of flooding and thus risk of contributing to primary effluent waste discharges to the Tuolumne River during a flood event. The facility is also inefficient as its separate location from the Secondary/Tertiary facilities does not provide for process efficiencies available with an integrated primary/secondary plant.
22	Catherine Everett Park Cross Connection Elimination	Jim Alves	City of Modesto	Preliminary Design Complete	The City is removing cross connections (storm water is discharged to the sanitary sewer system) to capture, treat, and infiltrate approx. 5.5 ac-ft of storm water runoff to augment groundwater supplies, reduce flood-related damage, improve the quality of storm water runoff percolating to the underlying groundwater basin, and reduce sanitary sewer overflows, and peak wet weather flow in the sanitary sewer collection system. Catharine Everett Park has been identified in the Area 2 SD Cross Connection Removal Report - Phase 1 ( <a href="http://www.modestogov.com">www.modestogov.com</a> ). Retention is recommended based on open area and percolation tests. This project would also provide improvements to an existing park to enhance the functionality and/or improve quality of usability.
23	JM Pike Park Cross Connection Elimination	Jim Alves	City of Modesto	Preliminary Design Complete	JM Pike Park has been identified in the Area 2 SD Cross Connection Removal Report ( <a href="http://www.modestogov.com">www.modestogov.com</a> ). The PDR notes that detention (12 ac-ft) of storm runoff) was estimated to have significantly lower capital costs than retention (24 ac-ft of storm runoff). Due to SGMA, opportunities for groundwater recharge have priority, therefore this project should be re-evaluated to consider cost-effective retention. Excavation will be required at the park site (detention or retention), reconstruction of facilities are expected to include ADA-compliant access, surface improvements, baseball infield, large play area. New facilities are expected to include ADA-compliant access.
24	TRRP - Carpenter Road/West Modesto Flood Management and Park Development	Nathan Houx	City of Modesto	Preliminary Design Complete	Help reduce flood damages in West Modesto neighborhoods while developing the adjacent Tuolumne River Regional Park. <a href="http://www.midsjrfloodplan.org/projects/tuolumne-river-regional-park-%E2%80%93-carpenter-roadwest-modesto-flood-management-and-park">http://www.midsjrfloodplan.org/projects/tuolumne-river-regional-park-%E2%80%93-carpenter-roadwest-modesto-flood-management-and-park</a>
25	DAC and Native American Outreach and Technical Assistance	Jim Alves	City of Modesto	Ready to Proceed	This project will provide for focused and extended outreach to DAC and Native American communities and to provide technical assistance to these communities for the development and submittal of projects that directly support them for inclusion in the East Stanislaus IRWMP. This project would provide additional outreach and assistance not covered by any DACI and DAC TA Grant efforts and supports these other specific grant opportunities through this Regional IRWM Project.
26	Online Data Management System	Jim Alves	City of Modesto	Ready to Proceed	This project will create a consolidated, web-based data management system to facilitate the collection and analysis of data, monitoring and reporting, and easier access to data.
27	Regional Water Needs Assessment	Jim Alves	City of Modesto	Ready to Proceed	This project will develop a region-wide demand projection that will cover both areas currently evaluated under existing Urban Water Management Plans (UWMPs) and areas outside urban water management planning requirements. This task will use existing plans and demand projections, including UWMPs and land use plans (such as General Plans), to develop the regional demand projection which will, in turn, contribute to the understanding and management of local water supplies.
28	South Modesto Infrastructure Efficiency Improvements	Jim Alves	City of Modesto	Ready to Proceed	Project would improve system efficiency by reducing water system waste through replacement of old leaky water mains thereby providing more of the existing water supply to direct beneficial human use. Project area includes Bret Harte Neighborhood (Hatch Rd & Crows Landing Rd), Parklawn Neighborhood (Hatch Rd & Morgan Rd), and Olivero Rd that connects these two neighborhoods. Approx 37,000 lf of at least 8-in water mains would be installed to replace old 4-in and 6in leaky steel mains. This would be a phased project depending on funding availability. These are severely disadvantaged communities. This area is in the City's water master plan but does not have design plans completed.
29	Tuolumne River Regional Park	Nathan Houx	City of Modesto	Ready to Proceed	Continued development of the undeveloped areas of the Tuolumne River Regional Park including the Gateway Parcel. <a href="http://www.midsjrfloodplan.org/projects/tuolumne-river-regional-park">http://www.midsjrfloodplan.org/projects/tuolumne-river-regional-park</a>
30	Installation of New Potable Wells	Fallon Martin	City of Turlock	Concept	To install new municipal supply wells to address water needs throughout the City of Turlock.
31	Expand Non-Potable Water Use	Fallon Martin	City of turlock	Concept	Installation of shallow non-potable landscape irrigation wells for parks in the City of Turlock
32	Wellhead Treatment	Fallon Martin	City of turlock	Concept	Installation of arsenic and TCP wellhead treatment on existing wells that currently exceed the maximum contaminant level.
33	Water Storage Reservoir (Well 38)	Fallon Martin	City of Turlock	Concept	Installation of a 1 MG water storage reservoir in the NW part of Turlock (location of Well 38).



## East Stanislaus IRWMP Update 2017 Project Description Summary Sheet

No.	Project Name	Primary Contact Name	Primary Contact Agency	Project Category	Project Description
34	SRWA Regional Surface Water Supply Project	Garner Reynolds	City of Turlock	Preliminary Design Complete	This project consists of a new 15 mgd water treatment plant, pump station, raw water pipeline, and downstream transmission mains that would treat surface water supplied from the TID via the Tuolumne River to the proposed treatment plant site near Fox Grove. An Infiltration Gallery in the Tuolumne River was previously constructed by the TID. A pump station would be constructed to convey raw water from the infiltration gallery to the proposed treatment plant and treated water would be conveyed via transmission mains to the Cities of Ceres and Turlock, providing a conjunctive use strategy and reducing reliance on groundwater sources. The project provides for additional flows further downstream for enhanced environmental benefits. This is a regional project with regional benefits and has the potential for future partnerships.
35	North Valley Regional Recycled Water Project	Michael Cooke	City of Turlock	Preliminary Design Complete	The North Valley Regional Recycled Water Project (NVRWP) will deliver up to ~60,000 AFY of recycled water produced by the Cities of Modesto and Turlock to the Del Puerto Water District (DPWD) via the Delta Mendota Canal (DMC). DPWD is a California Special District located along the west side of the San Joaquin Valley in Stanislaus, San Joaquin, and Merced Counties. DPWD's sole source of water supply is Central Valley Project (CVP) water under contract with the U.S. Bureau of Reclamation. Under its long-term contract, it receives up to 140,210 AFY of water to provide to approximately 45,000 acres of highly productive farmland with a production value of over \$100 million gross farm dollars annually. In recent years, DPWD has experienced reduced allocations under its contract. In 2014, it received 0% of its full contractual amount which will be devastating to the agricultural growers, the disadvantaged communities in the service area, and the Region as a whole.
36	Hickman Storage Tank	Peni Basalusalu	City of Waterford	Concept	Build a storage tank that complements the consolidation between Hickman and Waterford water systems.
37	Hickman Well Replacement and Development	Peni Basalusalu	City of Waterford	Concept	New drinking water well for the Hickman community will increase supply and provide the community adequate water to grow and develop. The well will replace and outdated and aging well.
38	Tuolumne River Non-Motorized Boat Launch	Peni Basalusalu	City of Waterford	Ready to Proceed	The project, as described in the Tuolumne River Trail Master Plan, seeks to accomplish access to the River Trail and both habitat conservation and recreational development goals. General habitat conservation objectives addressed by the project include the removal of nonnative species, the preservation of native species, enhancement of native bird, mammal and fish habitats, while enhancing and protecting water quality. General recreation goals and objectives include providing greater river access to vehicular, pedestrian and river access to the community for recreational purposes, while honoring the unique natural habitat of the Tuolumne River corridor. Primary objectives include the development of a non-motorized boat launch, with additional public parking at access sites, improved vehicular access, disabled access to the Parkway facilities, emergency vehicle access, and river access for a variety of recreational uses including canoeists, kayaks, and small craft boating.
39	F St Storm Pond	Peni Basalusalu	City of Waterford	Ready to Proceed	Create a new storm retention pond that is an open space for public access to use as a park. This storm pond will redirect runoff from the river to a retention basin. This retention basin will be a source of groundwater recharge in times of rain and also improve water quality to surface waters by allow the earth to cleanse the water naturally.
40	Rouse Lake Managed Aquifer Recharge (MAR) Project	Kevin M Kauffman, P.E.	Eastside Water District	Ready to Proceed	This Rouse Lake MAR Project consists of the following three (3) components: 1) Four (4) or more floating lake intakes with a pumping capacity of each at about 1,500 gallons per minute; designed with screens and pumping schemes to comply with all BMPs for similar type facilities; 2) Pipelines to deliver Rouse Lake water to existing developed lands for irrigation purposes; varying from 8-inch to 30-inch in diameter; 3) Up to 20 vertical drains (dry-wells) within the receded Rouse Lake lakebed to accomplish direct groundwater recharge. This is an environmentally sensitive water supply project that achieves new yield from the conjunctive management of surface and groundwater sources; direct GW recharge via vertical drains; in-direct GW recharge via irrigation; and additional GW recharge via use of Rouse Lake as a regulatory reservoir. Benefits to supply are matched by benefits to DACs, SDACs, EDAs, and the local ecology.
41	Mustang Creek MAR Project	Kevin Kauffman	Eastside Water District	Ready to Proceed	The Mustang Creek MAR Project will divert Mustang Creek flows during extreme flood events at an existing Bifurcation Structure located downstream of the flood control Detention Basin. The Bifurcation Structure presently diverts flood flows into a 95-acre-foot off-channel impoundment basin covering 74 acres for flood protection. The Bifurcation Structure is estimated to allow up to 210 cfs to be diverted into the existing impoundment basin. The Mustang Creek MAR Project will include ripping the 74-acre basin site to encourage percolation, similar to an agricultural practice used prior to planting an almond orchard. coordinated. Operation of the Bifurcation Structure with and the upstream Mustang Creek Detention Basin will be coordinated to divert storm surges and maximize the potential diversion for groundwater recharge at the Mustang Creek MAR Project. The Project will enhance the primary function of the Detention Basin; flood control.



# East Stanislaus IRWMP Update 2017

## Project Description Summary Sheet

No.	Project Name	Primary Contact Name	Primary Contact Agency	Project Category	Project Description
42	EWD Diffused Surface Water Project Merced County Dry Creek Project	Kevin Kauffman	Kevin Kauffman Consulting	Concept	Control local diffused water supply to direct and in-lieu groundwater recharge facilities using existing and enhanced infrastructure. Turlock Irrigation District (TID) and Eastside Water District (EWD) plan to agree on terms for EWD to use TID conveyance facilities to deliver diffused surface water to recharge facilities currently being designed by EWD. The EWD Board of Directors expects between 15,000 and 30,000 AFA of diffused surface water to become available as early as during the 2017-18 rainy season. TID has 49 inlets to its canals that are opened to allow runoff into the canals and protect the canal levees from damage. These locations and many others will be investigated to design groundwater recharge facilities at location where the groundwater Basin can benefit most from this diffused surface water supply. EWD projects include Rouse Lake and Mustang Creek, described in the ES IRWM, and the Merced County's Dry Creek Project focused on herein.
43	Dos Rios Floodplain and Riparian Habitat Restoration	Julie Rentner	River Partners	Ready to Proceed	This is a project to undertake floodplain and riparian habitat restoration at the 1600 acre Dos Rios Ranch. The Dos Rios Ranch is located at the confluence of the San Joaquin and Tuolumne Rivers and occupies 3 miles of river frontage on each river, for a total of 6 miles of river frontage. Through this project, we will improve channel-floodplain connectivity, improve transient floodwater storage, and restore riparian habitat. The project will build on another large flood management project at the San Joaquin River National Wildlife Refuge and will provide up to 10,000 ac-ft of transient flood water storage. The project will improve habitat for a number of sensitive species, including the riparian brush rabbit, riparian woodrat, least Bell's vireo, steelhead trout, and chinook salmon and will directly contribute to the recovery of these species. We will also provide public recreation opportunities at the site, including hiking, fishing, boating, and other similar activities.
44	Riverdale Park Tract Community Services District Well Installation	Juan Cano	Self-Help Enterprises	Concept	Riverdale Park Tract Community Services District (RPTCSD) is experiencing compliance issues regarding uranium contamination. Currently Self-Help Enterprises (SHE) is providing technical assistance to reach compliance and Riverdale Part Tract is in the beginning stages of planning. The district expects the planning project will recommend a new well, distribution system improvements and possibly a blending treatment. RPTCSD would like to match DWR with SWRCB funding to create a complete project to not only reach compliance regarding water quality issues but also add reliability and sustainability to the district.
45	Airport Neighborhood Urban Greening Project	Kristin Doud	Stanislaus County	Concept	Stanislaus County received a grant from the Strategic Growth Council to develop the Airport Neighborhood Urban Greening Plan. The objective of the Plan is to reduce the carbon footprint by creating a plan for native plantings, storm drain study, and non-vehicular paths and trails with low-impact development (LID). The Plan is currently under development. This Project consists of implementing the projects identified in the Plan which could include, but are not limited to: improvement of roadways and pedestrian pathways including stormwater management technology, such as bioretention swales, permeable concrete and LID methods.
46	Hydraulic and Channel Migration Studies	Dyhan Gilton	Stanislaus County	Concept	Two regional studies (mainstream San Joaquin River flood hydraulics and channel migration) and three focused hydraulic studies are needed to better inform flood management in the Mid SJR Region. <a href="http://www.midsjrfloodplan.org/projects/hydraulic-and-channel-migration-studies">http://www.midsjrfloodplan.org/projects/hydraulic-and-channel-migration-studies</a>
47	Dry Creek Watershed Detention Reconnaissance Study	Dhyan Gilton	Stanislaus County	Concept	Complete a reconnaissance study of potential options for reducing flood risks by detaining flood flows in the Dry Creek watershed, upstream of the City of Modesto. Conduct a Flood Hazard Assessment in an Integrated Development Planning Study. County will lead the effort, through the collection and review of generally available resource information, including reviewing the 1998 USACE reconnaissance study. The team will review available topographic, hydrologic and vegetation mapping as well as aerial and satellite imagery. This data will then describe the need for a flood hazard assessment. <a href="http://www.midsjrfloodplan.org/projects/dry-creek-watershed-detention-reconnaissance-study">http://www.midsjrfloodplan.org/projects/dry-creek-watershed-detention-reconnaissance-study</a>
48	Regional County Island Sewer Connection Study	Walt Ward	Stanislaus County Dept Environmental Resources	Concept	This project will identify areas of Stanislaus County that are currently on septic systems and (1) evaluate the potential impacts of septic systems on the underlying groundwater basin and (2) determine if these septic systems should be improved and/or connected to either centralized or satellite collection and treatment systems in order to protect groundwater quality. This study will help with the evaluation and long-term management of the underlying groundwater basins, a primary source of potable water in the East Stanislaus Region.
49	La Grange Floodplain Restoration and Spawning Gravel Augmentation	Patrick Koepele	Tuolumne River Trust	Concept	This is a project to restore 150 acres of degraded floodplain habitat along the Tuolumne River in La Grange while developing a source of spawning gravel to improve and enhance existing spawning beds in the Tuolumne River. The floodplain in the project area was heavily altered by gold dredging operations in the 1930's-1950's and has never recovered. As a result of the gold dredging, the floodplain has become armored and it supports little riparian vegetation. Couple with the heavily altered flow regime, the gravels are rarely, if ever, activated, thus they provide no benefit to spawning salmonids. Meanwhile, the in-channel spawning beds are heavily degraded because they cannot be replenished through normal geomorphic processes due to the sediment-blocking of Don Pedro and La Grange Dams. Through this project, we will harvest gravels from the floodplain and place them in the spawning riffles, while simultaneously lowering and revegetating the floodplain.
50	Dennett Dam Removal	Patrick Koepele	Tuolumne River Trust	Ready to Proceed	The purpose of this project is to remove Dennett Dam, an abandoned low-head dam on the Tuolumne River just west of the 9th Street Bridge in downtown Modesto. Removing the dam will provide unimpeded access to 28 miles of spawning habitat for anadromous fish, including steelhead, chinook salmon, green sturgeon, and white sturgeon. Additionally, removing the dam will remove a significant safety hazard in the river and will provide improved recreational boating within the river along the Tuolumne River Regional Park. Tasks include mobilizing equipment and machinery, constructing a temporary cofferdam and re-routing river flow, demolishing the dam and removing debris, removing the cofferdam, and site restoration.



# East Stanislaus IRWMP Update 2017

## Project Description Summary Sheet

No.	Project Name	Primary Contact Name	Primary Contact Agency	Project Category	Project Description
51	East Stanislaus Watershed Outreach and Education	Koepele	Tuolumne River Trust	Ready to Proceed	<p>The purpose of this project is two-fold: to deliver a unified regional message about the importance of watershed health, water use efficiency, and storm water management and to involve the community in watershed stewardship through volunteer workday activities.</p> <p>Through an outreach and education campaign we will raise the community's awareness of where its water comes from, the importance of a healthy watershed, and where runoff ultimately flows. The stewardship component of the project will improve habitat conditions at specific projects within the watershed.</p>



## East Stanislaus IRWMP Update 2017 Project Prioritization Results Summary Sheet

### Project Prioritization Results

Project Name:	Primary Contact Agency	Project ID #:	Score (#)	Project Priority <sup>1</sup>	GHG Assessment	Secondary Project Ranking <sup>2</sup>	Project Type for Impacts/Benefits Table (see Section 7.4)	Potential Capital and O&M Funding Sources
Mustang Creek MAR Project	Eastside Water District	1429	3.52	High	Neutral	Primary	Groundwater Projects - Conjunctive Use	EWD DSWP Fund
Rouse Lake Managed Aquifer Recharge (MAR) Project	Eastside Water District	1427	3.23	High	Neutral	Primary	Groundwater Projects - Conjunctive Use	Approved Per-Acre Charges, TBD
North Valley Regional Recycled Water Project	City of Turlock	1319	2.81	High	Impact	Secondary	Recycled/Non-Potable Water Project - Conveyance Facilities	Local funding, SRF loan, Water Recycling Funding Program grant, IRWM grants
SRWA Regional Surface Water Supply Project	City of Turlock	1312	2.46	High	Impact	Secondary	Potable Water Supply Project - Treatment and Conveyance Facilities	TBD
Dos Rios Floodplain and Riparian Habitat Restoration	River Partners	1359	1.57	Medium	Benefit	Primary	Ecosystem Restoration and Projection Project - Restoration/Revegetation	Existing grant and local funds
Regional Surface Water Treatment Plant Pipeline Turnout	City of Hughson	1340	1.46	Medium	Neutral	Secondary	Potable Water Supply Project - Conveyance Facilities	Local funds
Catherine Everett Park Cross Connection Elimination	City of Modesto	1460	1.38	Medium	Benefit	Primary	Urban Runoff Management Projects - Diversion to Sewer	Local funds
JM Pike Park Cross Connection Elimination	City of Modesto	1461	1.35	Medium	Benefit	Primary	Urban Runoff Management Projects - Diversion to Sewer	Local funds
East Stanislaus Watershed Outreach and Education	Tuolumne River Trust	1416	1.33	Medium	Neutral	Secondary	Outreach Project - Public Education	Existing grant funds, TBD
Regional Water Needs Assessment	City of Modesto	1349	1.27	Medium	Neutral	Secondary	Data Collection/Management Project	TBD
Tuolumne River Non-Motorized Boat Launch	City of Waterford	1362	1.22	Medium	Neutral	Secondary	Water-Based Recreation Projects - Parks, Access, and Trails	Existing grants, local funds
Tuolumne River Regional Park	City of Modesto	1466	1.06	Medium	Benefit	Primary	Water-Based Recreation Projects - Parks, Access, and Trails	Local funds, existing grants
Non-Potable Water System	City of Hughson	1305	1.04	Medium	Benefit	Primary	Recycled/Non-Potable Water Project - Conveyance Facilities	Local funds
7th Street Low Impact Development (LID) Storm Drainage Improvements	City of Hughson	1331	1.01	Medium	Benefit	Primary	Urban Runoff Management Project - Stormwater Capture and Reuse/Recharge	Local funds
TRRP - Carpenter Road/West Modesto Flood Management and Park Development	City of Modesto	1467	0.92	Low	Benefit	Secondary	Water-Based Recreation Projects - Parks, Access, and Trails	Local funds, existing grants
Modesto Area 2 Stormwater to Sanitary Sewer Cross-Connection Removal Project	City of Modesto	1325	0.87	Low	Benefit	Secondary	Urban Runoff Management Project - Pollution Prevention	Local funds
DAC and Native American Outreach and Technical Assistance	City of Modesto	1346	0.87	Low	Benefit	Secondary	Outreach Project - DAC Support	Local funds
Sutter Wastewater Treatment Plant Relocation Project	City of Modesto	1455	0.86	Low	Benefit	Secondary	Wastewater Projects - Treatment Facilities	TBD
South Modesto Infrastructure Efficiency Improvements	City of Modesto	1386	0.85	Low	Benefit	Secondary	Potable Water Supply Projects - Conveyance Facilities	Local funds
Dennett Dam Removal	Tuolumne River Trust	1351	0.83	Low	Neutral	Tertiary	Ecosystem Restoration and Projection Project - Restoration/Revegetation	Joseph and Veral Long Foundation, local funds
Online Data Management System	City of Modesto	1347	0.73	Low	Benefit	Secondary	Data Collection/Management Project	Local funds
Grayson Water System Efficiency improvements	City of Modesto	1385	0.69	Low	Benefit	Secondary	Potable Water Supply Projects - Conveyance Facilities	Local funds
F St Storm Pond	City of Waterford	1450	0.44	Low	Benefit	Secondary	Urban Runoff Management Projects - Stormwater Capture and Reuse / Recharge	Local funds

**Footnotes:**

1. A maximum numerical score of 5 is possible; score of 0 to 1 is categorized as Low, score of 1 to 2 is categorized as Medium, and score between 2 and 5 is categorized as High.
2. Secondary Project Ranking of Primary, Secondary, or Tertiary considers qualitative GHG assessment as shown in the table below.

		GHG Assessment		
		Impact	Neutral	Benefit
Project Priority	High	Secondary	Primary	Primary
	Medium	Tertiary	Secondary	Primary
	Low	Tertiary	Tertiary	Secondary



# East Stanislaus IRWMP Update 2017 Project Prioritization Scoring Sheet

**Project Prioritization: Step 1 - Regional Goals & Objectives, Statewide Priorities, and Other Relevant Factors (e.g., Relative Benefit-Cost Ratio)**  
 A score (from 0 to 5 based on the scoring rubric) was entered into the yellow cells for each criterion.

**Project Name:**  
**OPTI Project ID #:**  
**Project Sponsor:**

<Project Name>  
 <Project ID>  
 <Project Sponsor>

Criteria / Subcriteria	Weight	Score	Weighted Score (weight x score)
<b>REGIONAL OBJECTIVES</b>			
Water Supply Goal - To protect existing water supplies and water rights, and improve regional water supply reliability	15%		0
Flood Protection Goal - To ensure flood protection strategies are developed and implemented through a collaborative process, utilizing both local and watershed-wide approaches designed to maximize opportunities for comprehensive water resource management	5%		0
Water Quality Goal - To protect and improve water quality for beneficial uses consistent with regional interests and the RWQCB Basin Plan in cooperation with local, state and federal agencies and regional stakeholders	15%		0
Environmental Protection and Enhancement Goal - To protect the environmental resources of the Stanislaus, Tuolumne, Merced and San Joaquin River watersheds by identifying, promoting and implementing opportunities to assess, restore and enhance natural resources of these watersheds	5%		0
Regional Communication and Cooperation Goal - To implement and promote this IRWM Plan through regional communication, cooperation, and education	5%		0
Economic and Social Responsibility Goal - To promote development and implementation of projects, programs, and policies that are socially impartial and economically sound	5%		0
<b>Statewide Priorities</b>			
1 Make Conservation a California Way of Life	3%		0
2 Increase Regional Self-Reliance and Integrated Water Management Across All Levels of Government	4%		0
3 Achieve the Co-Equal Goals for the Delta	2%		0
4 Protect and Restore Important Ecosystems	2%		0
5 Manage and Prepare for Dry Periods	4%		0
6 Expand Water Storage Capacity and Improve Groundwater Management	5%		0
7 Provide Safe Water for All Communities	3%		0
8 Increase Flood Protection	2%		0
<b>Other Strategies</b>			
Direct Benefit to DAC and/or Native American Communities	6%		0
Schedule (i.e. Readiness to Proceed)	6%		0
Inter-Regional Project	2%		0
Provide Non-Water Related Benefits	2%		0
<b>Feasibility</b>			
Benefit-Cost Analysis	9%		0
Financing/Economic Feasibility	3%		0
<b>Project ID</b>			<Project ID>
<b>TOTAL</b>		<b>100%</b>	<b>0.00</b>

**Project Prioritization: Step 2 - Greenhouse Gas Emissions**

If the project addressed the criterion, a 1 was entered; if not, a 0 was entered. An overall qualitative score of "impact," "benefit," or "neutral" was then selected. When scoring the project, consider the project's ability to help the IRWMP region reduce GHG emissions as new projects are implemented over a 20-year planning horizon.

<b>GHG Worksheet</b>	<b>Impacts (post-construction)</b>	
	Increases amount of water or wastewater being treated	
	Increases the pumping of water, wastewater, or recycled water	
	Increases direct GHG emissions (i.e. from digesters)	
	Other	
	<b>Neutral (no changes to GHG emissions)</b>	
	<b>Mitigation/Benefits</b>	
	Increases water use efficiency or promotes energy-efficient water demand reduction	
	Improves water system energy efficiency	
	Improves energy efficiency of other systems or processes	
Reduces treated (potable) water loss		
Advances/expands water recycling		
Promotes urban runoff reuse		
Promotes use of renewable energy sources.		
Reduces GHG emissions		
Contributes to carbon sequestration		
Other (no construction impacts, other...please describe)		
<b>GHG assessment score</b>	<b>Neutral</b>	



# East Stanislaus IRWMP Update 2017

## Project Prioritization Scoring Rubric

Regional Objectives	0	1	3	5
Water Supply Goal	1 point per objective addressed, for a maximum of 5 points			
Flood Protection Goal	1 point per objective addressed, for a maximum of 5 points			
Water Quality Goal	1 point per objective addressed, for a maximum of 5 points			
Environmental Protection and Enhancement Goal	1 point per objective addressed, for a maximum of 5 points			
Regional Communication and Cooperation Goal	1 point per objective addressed, for a maximum of 5 points			
Economic and Social Responsibility Goal	1 point per objective addressed, for a maximum of 5 points			

Statewide Priorities	0	1	3	5
<b>Make Conservation a California Way of Life</b> - <i>build on current conservation efforts &amp; promote innovation of new systems for increased water conservation; expand ag &amp; urban conservation to exceed SBx7-7 targets; increase water sector energy efficiency and GHG reduction; promote local urban conservation ordinances and programs.</i>	No improvement	Includes water conservation/efficiency measures	Includes water conservation/efficiency measures & increases energy efficiency and/or GHG reduction	Includes water conservation/efficiency measures & increases energy efficiency and/or GHG reduction, and includes a conservation ordinance
<b>Increase Regional Self-Reliance and Integrated Water Management Across All Levels of Government</b> - <i>ensure water security at local level where individual gov't efforts integrate into one combined regional commitment where the sum &gt; any single piece; improve land use and water alignment; provide assistance to DACs; increase use of RW</i>	No improvement	Contributes to one aspect of the description	Contributes to 2 or more aspects of the description	Contributes to 3 or more aspects of the description (e.g. provides RW to DACs and is a regional project that involves multiple water agencies)
<b>Achieve the Co-Equal Goals for the Delta</b> - <i>(1) providing a more reliable water supply for California and (2) protecting, restoring, and enhancing the Delta ecosystem</i>	No improvement	Contributes to 1 goal with no measurable benefits	Contributes to 1 goal with measurable benefits, OR both goals without measurable benefits	Contributes to both goals with measurable benefits



# East Stanislaus IRWMP Update 2017

## Project Prioritization Scoring Rubric

Statewide Priorities	0	1	3	5
<p><b>Protect and Restore Important Ecosystems</b> - <i>continue protecting &amp; restoring resiliency of our ecosystems to support fish &amp; wildlife populations, improve WQ &amp; restore natural system functions; restore key mountain meadow habitat; manage headwaters for multiple benefits; water for wetlands &amp; waterfowl; eliminate barriers to fish migration; assess fish passage at large dams; enhance water flows in stream systems</i></p>	No improvement	Slight improvement	Moderate, measurable improvement	Significant improvement
<p><b>Manage and Prepare for Dry Periods</b> - <i>effectively manage water resources through all hydrologic conditions to reduce impacts of shortages and lessen costs of state response actions; secure more reliable water supplies and consequently improve drought preparedness; revise operations to respond to extreme conditions; encourage healthy soils.</i></p>	No improvement	Slight improvement	Moderate, measurable improvement	Significant improvement
<p><b>Expand Water Storage Capacity and Improve Groundwater Management</b> - <i>increase water storage for widespread public and envt'l benefits, especially in increasingly dry years and better manage our GW to reduce overdraft; provide essential data to enable sustainable GW management; improve sustainable GW management; support distributed GW storage; increase statewide GW storage; accelerate clean-up of contaminated GW and prevent future contamination</i></p>	No improvement	Slight improvement	Moderate, measurable improvement	Significant improvement
<p><b>Provide Safe Water for All Communities</b> - <i>provide all the right to safe, clean, affordable and accessible water adequate for human consumption, cooking, and sanitary purposes; consolidate WQ programs; manage supply status of community water systems; help address impacts to GW caused by nitrate, arsenic, perchlorate or hexavalent chromium contamination, including projects that provide safe drinking water to small DACs</i></p>	No improvement	Slight improvement	Moderate, measurable improvement	Provides water supply to DACs and/or addresses nitrate, arsenic, etc.
<p><b>Increase Flood Protection</b> - <i>collaboratively plan for integrated flood &amp; water mgmt systems, implement flood projects that protect public safety, increase water supply reliability, conserve farmlands, and restore ecosystems; improve access to emergency funds; better coordinate flood response operations; encourage flood projects that plan for climate change and achieve multiple benefits</i></p>	No improvement	Provides flood protection	Moderate, measurable improvement	Provides flood protection and other benefits





# East Stanislaus IRWMP Update 2017

## Project Prioritization Scoring Rubric

Other Strategies	0	1	3	5
Direct Benefit to DAC and/or Native American Communities	No benefit	General benefit to DACs	Targeted benefits to one or more DACs, may have EJ impacts	Targeted benefits to one or more DACs, no EJ impacts
Schedule (i.e. Readiness to Proceed)	Preliminary planning not completed	Only preliminary planning completed	Planning completed, design and environmental documentation not completed	Fully ready with design and environmental documentation completed
Inter-Regional Project	Not an inter-regional project	Project occurs within multiple Regions, but only one region involved in planning, and benefits only to one region	Project occurs within multiple Regions and more than one IRWM Region will be involved in planning of project, but benefits only to one region	Project occurs within multiple Regions, more than one IRWM Region will be involved in planning of project, and benefits will occur in multiple IRWM region(s)
Provide Non-Water Related Benefits <i>These benefits are indicated in the following three locations on the score sheet: Under "Does your project help the region meet add'l benefits?"(1) Regional Communication &amp; Cooperation (2) Economic and Social Responsibility boxes; under the Other Considerations category, (3) GHG reductions indicated.</i>	No non-water related benefits	One benefit indicated	2 benefits indicated	3 benefits indicated

Feasibility	0	1	3	5
Benefit-Cost Analysis	No costs submitted	Low B:C ratio (0-1)	Medium B:C ratio (1-2)	High B:C ratio (>2)
Financing/Economic Feasibility	No funding options identified	Hypothetical funding options identified	Specific funding sources identified	Funding source is secured



**East Stanislaus IRWMP Update 2017**  
Project Prioritization Scoring Sheet

**Project Prioritization: Step 1 - Regional Goals & Objectives, Statewide Priorities, and Other Relevant Factors (e.g., Benefit-Cost Ratio)**

A score (from 0 to 5 based on the scoring rubric) was entered into the yellow cells for each criterion.

**Project Name:**  
**OPTI Project ID #:**  
**Project Sponsor:**  
**Scorer Name:**  
**Date:**

**Criteria / Subcriteria**  
**REGIONAL OBJECTIVES**

- Water Supply Goal** - To protect existing water supplies and water rights, and improve regional water supply reliability **50%**
- Flood Protection Goal** - To ensure flood protection strategies are developed and implemented through a collaborative process, utilizing both local and watershed-wide approaches designed to maximize opportunities for comprehensive water resource management **5%**
- Water Quality Goal** - To protect and improve water quality for beneficial uses consistent with regional interests and the RWQCB Basin Plan in cooperation with local, state and federal agencies and regional stakeholders **15%**
- Environmental Protection and Enhancement Goal** - To protect the environmental resources of the Stanislaus, Tuolumne, Merced and San Joaquin River watersheds by identifying, promoting and implementing opportunities to assess, restore and enhance natural resources of these watersheds **5%**
- Regional Communication and Cooperation Goal** - To implement and promote this IRWM Plan through regional communication, cooperation, and education **5%**
- Economic and Social Responsibility Goal** - To promote development and implementation of projects, programs, and policies that are socially impartial and economically sound **5%**

**Statewide Priorities**

- 1 Make Conservation a California Way of Life **3%**
- 2 Increase Regional Self-Reliance and Integrated Water Management Across All Levels of Government **4%**
- 3 Achieve the Co-Equal Goals for the Delta **2%**
- 4 Protect and Restore Important Ecosystems **2%**
- 5 Manage and Prepare for Dry Periods **4%**
- 6 Expand Water Storage Capacity and Improve Groundwater Management **5%**
- 7 Provide Safe Water for All Communities **3%**
- 8 Increase Flood Protection **2%**

**Other Strategies**

- Direct Benefit to DAC and/or Native American Communities **6%**
- Schedule (i.e. Readiness to Proceed) **6%**
- Inter-Regional Project **2%**
- Provide Non-Water Related Benefits **2%**

**Feasibility**

- Relative Benefit-Cost Analysis **6%**
- Financing/Economic Feasibility **3%**

**Project ID**

**TOTAL 100%**

**Project Prioritization: Step 2 - Greenhouse Gas Emissions**

If the project addressed the criterion, a 1 was entered; if not, a 0 was entered. An overall qualitative score of "impact," "benefit," or "neutral" was then selected. When scoring the project, consider the project's ability to help the IRWMP region reduce GHG emissions as new projects are implemented over a 20-year planning horizon.

**Impacts (post-construction)**

- Increases amount of water or wastewater being treated
- Increases the pumping of water, wastewater, or recycled water
- Increases direct GHG emissions (i.e. from digesters)
- Other

**Neutral (no changes to GHG emissions)**

**Mitigation/Benefits**

- Increases water use efficiency or promotes energy-efficient water demand reduction
- Improves water system energy efficiency
- Improves energy efficiency of other systems or processes
- Reduces treated (potable) water loss
- Advances/expands water recycling
- Promotes urban runoff reuse
- Promotes use of renewable energy sources.
- Reduces GHG emissions
- Contributes to carbon sequestration
- Other (no construction impacts, other...please describe)

**GHG assessment score**

**Weight**

	SRWA Regional Surface Water Supply Project 1312 City of Turlock & City of Ceres on behalf of the SRWA Jennifer Kidson, RMC/WC 10/5/2017		North Valley Regional Recycled Water Project 1319 City of Turlock on behalf of NVRRWP Partners Jennifer Kidson, RMC/WC 10/5/2017		Modesto Area 2 Stormwater to Sanitary Sewer Cross-Connection Removal Project 1325 City of Modesto Jennifer Kidson, RMC/WC 10/5/2017		7th Street Low Impact Development (LID) Storm Drainage Improvements 1331 City of Hughson Jennifer Kidson, RMC/WC 10/5/2017		Regional Surface Water Treatment Plant Pipeline Turnout 1340 City of Hughson Jennifer Kidson, RMC/WC 10/5/2017	
	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score
<b>Water Supply Goal</b> - To protect existing water supplies and water rights, and improve regional water supply reliability <b>50%</b>	4	0.6	4	0.6	0	0	0	0	2	0.3
<b>Flood Protection Goal</b> - To ensure flood protection strategies are developed and implemented through a collaborative process, utilizing both local and watershed-wide approaches designed to maximize opportunities for comprehensive water resource management <b>5%</b>	1	0.05	0	0	0	0	1	0.05	0	0
<b>Water Quality Goal</b> - To protect and improve water quality for beneficial uses consistent with regional interests and the RWQCB Basin Plan in cooperation with local, state and federal agencies and regional stakeholders <b>15%</b>	3	0.45	5	0.75	2	0.3	1	0.15	1	0.15
<b>Environmental Protection and Enhancement Goal</b> - To protect the environmental resources of the Stanislaus, Tuolumne, Merced and San Joaquin River watersheds by identifying, promoting and implementing opportunities to assess, restore and enhance natural resources of these watersheds <b>5%</b>	3	0.15	4	0.2	1	0.05	0	0	1	0.05
<b>Regional Communication and Cooperation Goal</b> - To implement and promote this IRWM Plan through regional communication, cooperation, and education <b>5%</b>	4	0.2	4	0.2	1	0.05	0	0	0	0
<b>Economic and Social Responsibility Goal</b> - To promote development and implementation of projects, programs, and policies that are socially impartial and economically sound <b>5%</b>	2	0.1	4	0.2	1	0.05	3	0.15	1	0.05
<b>Statewide Priorities</b> <b>25%</b>										
1 Make Conservation a California Way of Life <b>3%</b>	1	0.03	3	0.09	0	0	0	0	0	0
2 Increase Regional Self-Reliance and Integrated Water Management Across All Levels of Government <b>4%</b>	3	0.12	0	0	0	0	0	0	1	0.04
3 Achieve the Co-Equal Goals for the Delta <b>2%</b>	0	0	0	0	0	0	0	0	0	0
4 Protect and Restore Important Ecosystems <b>2%</b>	0	0	0	0	0	0	0	0	0	0
5 Manage and Prepare for Dry Periods <b>4%</b>	3	0.12	5	0.2	0	0	0	0	0	0
6 Expand Water Storage Capacity and Improve Groundwater Management <b>5%</b>	5	0.25	0	0	0	0	0	0	0	0
7 Provide Safe Water for All Communities <b>3%</b>	1	0.03	3	0.09	0	0	0	0	5	0.15
8 Increase Flood Protection <b>2%</b>	0	0	0	0	5	0.1	5	0.1	0	0
<b>Other Strategies</b> <b>16%</b>										
Direct Benefit to DAC and/or Native American Communities <b>6%</b>	1	0.06	3	0.18	0	0	5	0.3	5	0.3
Schedule (i.e. Readiness to Proceed) <b>6%</b>	4	0.24	3	0.18	4	0.24	2	0.12	5	0.3
Inter-Regional Project <b>2%</b>	0	0	2	0.04	0	0	0	0	0	0
Provide Non-Water Related Benefits <b>2%</b>	0	0	1	0.02	1	0.02	1	0.02	0	0
<b>Feasibility</b> <b>9%</b>										
Relative Benefit-Cost Analysis <b>6%</b>	1	0.06	1	0.06	1	0.06	2	0.12	2	0.12
Financing/Economic Feasibility <b>3%</b>	0	0	0	0	0	0	0	0	0	0
<b>Project ID</b>		1312		1319		1325		1331		1340
<b>TOTAL 100%</b>		2.46		2.81		0.87		1.01		1.46
<b>GHG assessment score</b>										
<b>Impacts (post-construction)</b>										
Increases amount of water or wastewater being treated	1		1		0		0		0	
Increases the pumping of water, wastewater, or recycled water	1		1		0		0		1	
Increases direct GHG emissions (i.e. from digesters)	0		0		0		0		0	
Other	0		0		0		0		0	
<b>Neutral (no changes to GHG emissions)</b>	0		0		0		0		0	
<b>Mitigation/Benefits</b>										
Increases water use efficiency or promotes energy-efficient water demand reduction	0		0		0		0		0	
Improves water system energy efficiency	0		0		0		0		0	
Improves energy efficiency of other systems or processes	0		0		0		0		0	
Reduces treated (potable) water loss	0		0		0		0		0	
Advances/expands water recycling	0		1		0		0		0	
Promotes urban runoff reuse	0		0		1		1		0	
Promotes use of renewable energy sources.	0		0		0		0		0	
Reduces GHG emissions	0		0		1		1		1	
Contributes to carbon sequestration	0		0		0		0		0	
Other (no construction impacts, other...please describe)	0		0		0		0		0	
<b>GHG assessment score</b>										



East Stanislaus IRWMP Update 2017  
Project Prioritization Scoring Sheet

**Project Prioritization: Step 1 - Regional Goals & Objectives, Statewide Priorities, and Other Relevant Factors (e.g., Benefit-Cost Ratio)**

A score (from 0 to 5 based on the scoring rubric) was entered into the yellow cells for each criterion.

Project Name:  
OPTI Project ID #:  
Project Sponsor:  
Scorer Name:  
Date:

Criteria / Subcriteria  
REGIONAL OBJECTIVES

- Water Supply Goal** - To protect existing water supplies and water rights, and improve regional water supply reliability **50%**
- Flood Protection Goal** - To ensure flood protection strategies are developed and implemented through a collaborative process, utilizing both local and watershed-wide approaches designed to maximize opportunities for comprehensive water resource management **5%**
- Water Quality Goal** - To protect and improve water quality for beneficial uses consistent with regional interests and the RWQCB Basin Plan in cooperation with local, state and federal agencies and regional stakeholders **15%**
- Environmental Protection and Enhancement Goal** - To protect the environmental resources of the Stanislaus, Tuolumne, Merced and San Joaquin River watersheds by identifying, promoting and implementing opportunities to assess, restore and enhance natural resources of these watersheds **5%**
- Regional Communication and Cooperation Goal** - To implement and promote this IRWM Plan through regional communication, cooperation, and education **5%**
- Economic and Social Responsibility Goal** - To promote development and implementation of projects, programs, and policies that are socially impartial and economically sound **5%**

Statewide Priorities

- 1 Make Conservation a California Way of Life **3%**
- 2 Increase Regional Self-Reliance and Integrated Water Management Across All Levels of Government **4%**
- 3 Achieve the Co-Equal Goals for the Delta **2%**
- 4 Protect and Restore Important Ecosystems **2%**
- 5 Manage and Prepare for Dry Periods **4%**
- 6 Expand Water Storage Capacity and Improve Groundwater Management **5%**
- 7 Provide Safe Water for All Communities **3%**
- 8 Increase Flood Protection **2%**

Other Strategies

- Direct Benefit to DAC and/or Native American Communities **6%**
- Schedule (i.e. Readiness to Proceed) **6%**
- Inter-Regional Project **2%**
- Provide Non-Water Related Benefits **2%**

Feasibility

- Relative Benefit-Cost Analysis **6%**
- Financing/Economic Feasibility **3%**

Project ID

TOTAL 100%

**Project Prioritization: Step 2 - Greenhouse Gas Emissions**

If the project addressed the criterion, a 1 was entered; if not, a 0 was entered. An overall qualitative score of "impact," "benefit," or "neutral" was then selected. When scoring the project, consider the project's ability to help the IRWMP region reduce GHG emissions as new projects are implemented over a 20-year planning horizon.

Impacts (post-construction)

- Increases amount of water or wastewater being treated
- Increases the pumping of water, wastewater, or recycled water
- Increases direct GHG emissions (i.e. from digesters)
- Other

Neutral (no changes to GHG emissions)

Mitigation/Benefits

- Increases water use efficiency or promotes energy-efficient water demand reduction
- Improves water system energy efficiency
- Improves energy efficiency of other systems or processes
- Reduces treated (potable) water loss
- Advances/expands water recycling
- Promotes urban runoff reuse
- Promotes use of renewable energy sources.
- Reduces GHG emissions
- Contributes to carbon sequestration
- Other (no construction impacts, other...please describe)

GHG assessment score

Weight

	Grayson Water System Efficiency Improvements 1385		Sutter Wastewater Treatment Plant Relocation Project 1455		Catherine Everett Park Cross Connection Elimination 1460		JM Pike Park Cross Connection Elimination 1461		TRRP - Carpenter Road/West Modesto Flood Management and Park Development 1467	
	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score
<b>Water Supply Goal</b>	1	0.15	0	0	1	0.15	1	0.15	0	0
<b>Flood Protection Goal</b>	0	0	4	0.2	2	0.1	2	0.1	5	0.25
<b>Water Quality Goal</b>	0	0	1	0.15	3	0.45	3	0.45	1	0.15
<b>Environmental Protection and Enhancement Goal</b>	0	0	3	0.15	1	0.05	1	0.05	2	0.1
<b>Regional Communication and Cooperation Goal</b>	0	0	0	0	2	0.1	2	0.1	2	0.1
<b>Economic and Social Responsibility Goal</b>	0	0	0	0	2	0.1	2	0.1	0	0
<b>Statewide Priorities</b>										
1 Make Conservation a California Way of Life	0	0	0	0	0	0	0	0	0	0
2 Increase Regional Self-Reliance and Integrated Water Management Across All Levels of Government	0	0	0	0	0	0	0	0	0	0
3 Achieve the Co-Equal Goals for the Delta	0	0	0	0	0	0	0	0	0	0
4 Protect and Restore Important Ecosystems	0	0	3	0.06	0	0	0	0	0	0
5 Manage and Prepare for Dry Periods	0	0	0	0	1	0.04	1	0.04	0	0
6 Expand Water Storage Capacity and Improve Groundwater Management	0	0	0	0	2	0.1	2	0.1	0	0
7 Provide Safe Water for All Communities	3	0.09	0	0	0	0	0	0	0	0
8 Increase Flood Protection	0	0	5	0.1	3	0.06	3	0.06	4	0.08
<b>Other Strategies</b>										
Direct Benefit to DAC and/or Native American Communities	5	0.3	1	0.06	1	0.06	1	0.06	0	0
Schedule (i.e. Readiness to Proceed)	2	0.12	1	0.06	1	0.06	1	0.06	1	0.06
Inter-Regional Project	0	0	0	0	0	0	0	0	0	0
Provide Non-Water Related Benefits	0	0	1	0.02	1	0.02	1	0.02	0	0
<b>Feasibility</b>										
Relative Benefit-Cost Analysis	0.5	0.03	1	0.06	1.5	0.09	1	0.06	3	0.18
Financing/Economic Feasibility	0	0	0	0	0	0	0	0	0	0
<b>Project ID</b>		1385		1455		1460		1461		1467
<b>TOTAL</b>		0.69		0.86		1.38		1.35		0.92
<b>Impacts (post-construction)</b>										
Increases amount of water or wastewater being treated	0		0		0		0		0	
Increases the pumping of water, wastewater, or recycled water	0		0		0		0		0	
Increases direct GHG emissions (i.e. from digesters)	0		0		0		0		0	
Other	0		0		0		0		0	
<b>Neutral (no changes to GHG emissions)</b>										
Neutral	0		0		0		0		0	
<b>Mitigation/Benefits</b>										
Increases water use efficiency or promotes energy-efficient water demand reduction	0		0		0		0		0	
Improves water system energy efficiency	0		1		0		0		0	
Improves energy efficiency of other systems or processes	0		0		0		0		0	
Reduces treated (potable) water loss	1		0		0		0		0	
Advances/expands water recycling	0		0		0		0		0	
Promotes urban runoff reuse	0		0		1		1		1	
Promotes use of renewable energy sources.	0		0		0		0		0	
Reduces GHG emissions	1		0		1		1		0	
Contributes to carbon sequestration	0		0		0		0		0	
Other (no construction impacts, other...please describe)	0		0		0		0		0	
<b>GHG assessment score</b>										
		Benefit		Benefit		Benefit		Benefit		Benefit



**East Stanislaus IRWMP Update 2017**  
Project Prioritization Scoring Sheet

**Project Prioritization: Step 1 - Regional Goals & Objectives, Statewide Priorities, and Other Relevant Factors (e.g., Benefit-Cost Ratio)**

A score (from 0 to 5 based on the scoring rubric) was entered into the yellow cells for each criterion.

**Project Name:**  
**OPTI Project ID #:**  
**Project Sponsor:**  
**Scorer Name:**  
**Date:**

**Criteria / Subcriteria**  
**REGIONAL OBJECTIVES**

- Water Supply Goal** - To protect existing water supplies and water rights, and improve regional water supply reliability **50%**
- Flood Protection Goal** - To ensure flood protection strategies are developed and implemented through a collaborative process, utilizing both local and watershed-wide approaches designed to maximize opportunities for comprehensive water resource management **5%**
- Water Quality Goal** - To protect and improve water quality for beneficial uses consistent with regional interests and the RWQCB Basin Plan in cooperation with local, state and federal agencies and regional stakeholders **15%**
- Environmental Protection and Enhancement Goal** - To protect the environmental resources of the Stanislaus, Tuolumne, Merced and San Joaquin River watersheds by identifying, promoting and implementing opportunities to assess, restore and enhance natural resources of these watersheds **5%**
- Regional Communication and Cooperation Goal** - To implement and promote this IRWM Plan through regional communication, cooperation, and education **5%**
- Economic and Social Responsibility Goal** - To promote development and implementation of projects, programs, and policies that are socially impartial and economically sound **5%**

**Statewide Priorities**

- 1 Make Conservation a California Way of Life **3%**
- 2 Increase Regional Self-Reliance and Integrated Water Management Across All Levels of Government **4%**
- 3 Achieve the Co-Equal Goals for the Delta **2%**
- 4 Protect and Restore Important Ecosystems **2%**
- 5 Manage and Prepare for Dry Periods **4%**
- 6 Expand Water Storage Capacity and Improve Groundwater Management **5%**
- 7 Provide Safe Water for All Communities **3%**
- 8 Increase Flood Protection **2%**

**Other Strategies**

- Direct Benefit to DAC and/or Native American Communities **6%**
- Schedule (i.e. Readiness to Proceed) **6%**
- Inter-Regional Project **2%**
- Provide Non-Water Related Benefits **2%**

**Feasibility**

- Relative Benefit-Cost Analysis **6%**
- Financing/Economic Feasibility **3%**

**Project ID**

**TOTAL** **100%**

**Project Prioritization: Step 2 - Greenhouse Gas Emissions**

If the project addressed the criterion, a 1 was entered; if not, a 0 was entered. An overall qualitative score of "impact," "benefit," or "neutral" was then selected. When scoring the project, consider the project's ability to help the IRWMP region reduce GHG emissions as new projects are implemented over a 20-year planning horizon.

**Impacts (post-construction)**

- Increases amount of water or wastewater being treated
- Increases the pumping of water, wastewater, or recycled water
- Increases direct GHG emissions (i.e. from digesters)
- Other

**Neutral (no changes to GHG emissions)**

**Mitigation/Benefits**

- Increases water use efficiency or promotes energy-efficient water demand reduction
- Improves water system energy efficiency
- Improves energy efficiency of other systems or processes
- Reduces treated (potable) water loss
- Advances/expands water recycling
- Promotes urban runoff reuse
- Promotes use of renewable energy sources.
- Reduces GHG emissions
- Contributes to carbon sequestration
- Other (no construction impacts, other...please describe)

**GHG assessment score**

**Weight**

	1305		1346		1347		1349		1351	
	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score
<b>Water Supply Goal</b>	2	0.3	0	0	0	0	4	0.6	0	0
<b>Flood Protection Goal</b>	0	0	0	0	0	0	0	0	0	0
<b>Water Quality Goal</b>	1	0.15	0	0	0	0	0	0	0	0
<b>Environmental Protection and Enhancement Goal</b>	1	0.05	0	0	0	0	0	0	4	0.2
<b>Regional Communication and Cooperation Goal</b>	0	0	3	0.15	2	0.1	1	0.05	0	0
<b>Economic and Social Responsibility Goal</b>	1	0.05	0	0	1	0.05	0	0	1	0.05
<b>Statewide Priorities</b>										
1 Make Conservation a California Way of Life	3	0.09	0	0	0	0	0	0	0	0
2 Increase Regional Self-Reliance and Integrated Water Management Across All Levels of Government	0	0	0	0	3	0.12	3	0.12	0	0
3 Achieve the Co-Equal Goals for the Delta	0	0	0	0	0	0	0	0	0	0
4 Protect and Restore Important Ecosystems	0	0	0	0	0	0	0	0	5	0.1
5 Manage and Prepare for Dry Periods	0	0	0	0	0	0	0	0	0	0
6 Expand Water Storage Capacity and Improve Groundwater Management	0	0	0	0	0	0	0	0	0	0
7 Provide Safe Water for All Communities	0	0	2	0.06	0	0	0	0	0	0
8 Increase Flood Protection	0	0	0	0	0	0	0	0	0	0
<b>Other Strategies</b>										
Direct Benefit to DAC and/or Native American Communities	1	0.06	5	0.3	1	0.06	1	0.06	0	0
Schedule (i.e. Readiness to Proceed)	3	0.18	5	0.3	5	0.3	5	0.3	5	0.3
Inter-Regional Project	0	0	0	0	0	0	0	0	0	0
Provide Non-Water Related Benefits	2	0.04	0	0	2	0.04	1	0.02	0	0
<b>Feasibility</b>										
Relative Benefit-Cost Analysis	2	0.12	1	0.06	1	0.06	2	0.12	1	0.06
Financing/Economic Feasibility	0	0	0	0	0	0	0	0	4	0.12
<b>Project ID</b>		1305		1346		1347		1349		1351
<b>TOTAL</b>	<b>100%</b>	<b>1.04</b>	<b>0.87</b>	<b>0.73</b>	<b>1.27</b>	<b>0.83</b>				
<b>GHG assessment score</b>		<b>Benefit</b>	<b>Benefit</b>	<b>Benefit</b>	<b>Neutral</b>	<b>Neutral</b>				



East Stanislaus IRWMP Update 2017  
Project Prioritization Scoring Sheet

**Project Prioritization: Step 1 - Regional Goals & Objectives, Statewide Priorities, and Other Relevant Factors (e.g., Benefit-Cost Ratio)**

A score (from 0 to 5 based on the scoring rubric) was entered into the yellow cells for each criterion.

**Project Name:**  
**OPTI Project ID #:**  
**Project Sponsor:**  
**Scorer Name:**  
**Date:**

**Criteria / Subcriteria**  
**REGIONAL OBJECTIVES**

**Water Supply Goal** - To protect existing water supplies and water rights, and improve regional water supply reliability

**Flood Protection Goal** - To ensure flood protection strategies are developed and implemented through a collaborative process, utilizing both local and watershed-wide approaches designed to maximize opportunities for comprehensive water resource management

**Water Quality Goal** - To protect and improve water quality for beneficial uses consistent with regional interests and the RWQCB Basin Plan in cooperation with local, state and federal agencies and regional stakeholders

**Environmental Protection and Enhancement Goal** - To protect the environmental resources of the Stanislaus, Tuolumne, Merced and San Joaquin River watersheds by identifying, promoting and implementing opportunities to assess, restore and enhance natural resources of these watersheds

**Regional Communication and Cooperation Goal** - To implement and promote this IRWM Plan through regional communication, cooperation, and education

**Economic and Social Responsibility Goal** - To promote development and implementation of projects, programs, and policies that are socially impartial and economically sound

**Statewide Priorities**

- 1 Make Conservation a California Way of Life
- 2 Increase Regional Self-Reliance and Integrated Water Management Across All Levels of Government
- 3 Achieve the Co-Equal Goals for the Delta
- 4 Protect and Restore Important Ecosystems
- 5 Manage and Prepare for Dry Periods
- 6 Expand Water Storage Capacity and Improve Groundwater Management
- 7 Provide Safe Water for All Communities
- 8 Increase Flood Protection

**Other Strategies**

- Direct Benefit to DAC and/or Native American Communities
- Schedule (i.e. Readiness to Proceed)
- Inter-Regional Project
- Provide Non-Water Related Benefits

**Feasibility**

- Relative Benefit-Cost Analysis
- Financing/Economic Feasibility

**Project ID**

**Weight**

**50%**

**15%**

**5%**

**15%**

**5%**

**5%**

**25%**

**3%**

**4%**

**2%**

**2%**

**2%**

**2%**

**16%**

**6%**

**6%**

**2%**

**2%**

**9%**

**6%**

**3%**

**TOTAL 100%**

Dos Rios Floodplain and Riparian Habitat Restoration 1359 River Partners Jennifer Kidson, RMC/WC 10/5/2017		Tuolumne River Non-Motorized Boat Launch 1362 City of Waterford Jennifer Kidson, RMC/WC 10/5/2017		South Modesto Infrastructure Efficiency Improvements 1386 City of Modesto Jennifer Kidson, RMC/WC 10/5/2017		East Stanislaus Watershed Outreach and Education 1416 Tuolumne River Trust Jennifer Kidson, RMC/WC 10/5/2017		Rouse Lake Managed Aquifer Recharge (MAR) Project 1427 Eastside Water District Jennifer Kidson, RMC/WC 10/5/2017	
Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score	Score	Weighted Score
0	0	0	0	1	0.15	1	0.15	5	0.75
3	0.15	1	0.05	0	0	0	0	5	0.25
3	0.45	1	0.15	0	0	2	0.3	5	0.75
3	0.15	5	0.25	0	0	1	0.05	5	0.25
1	0.05	0	0	0	0	0	0	3	0.15
1	0.05	2	0.1	0	0	0	0	5	0.25
0	0	0	0	0	0	3	0.09	0	0
0	0	0	0	0	0	0	0	1	0.04
1	0.02	0	0	0	0	0	0	0	0
5	0.1	1	0.02	0	0	0	0	1	0.02
0	0	0	0	0	0	0	0	3	0.12
1	0.05	0	0	0	0	0	0	4	0.2
0	0	0	0	5	0.15	0	0	0	0
5	0.1	0	0	0	0	0	0	1	0.02
0	0	0	0	5	0.3	5	0.3	1	0.06
4	0.24	5	0.3	3	0.18	5	0.3	3	0.18
5	0.1	0	0	0	0	0	0	0	0
1	0.02	1	0.02	2	0.04	1	0.02	2	0.04
1	0.06	3	0.18	0.5	0.03	2	0.12	1	0.06
1	0.03	5	0.15	0	0	0	0	3	0.09
<b>1359</b>		<b>1362</b>		<b>1386</b>		<b>1416</b>		<b>1427</b>	
<b>1.57</b>		<b>1.22</b>		<b>0.85</b>		<b>1.33</b>		<b>3.23</b>	
0	0	0	0	0	0	0	0	1	1
0	0	0	0	0	0	0	0	1	1
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	1	1	0	0	1	1	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	1	1
0	0	0	0	0	0	0	0	0	0
0	0	0	0	1	1	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
1	1	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	1
<b>Benefit</b>		<b>Neutral</b>		<b>Benefit</b>		<b>Neutral</b>		<b>Neutral</b>	

**Project Prioritization: Step 2 - Greenhouse Gas Emissions**

If the project addressed the criterion, a 1 was entered; if not, a 0 was entered. An overall qualitative score of "impact," "benefit," or "neutral" was then selected.

When scoring the project, consider the project's ability to help the IRWMP region reduce GHG emissions as new projects are implemented over a 20-year planning horizon.

**Impacts (post-construction)**

- Increases amount of water or wastewater being treated
- Increases the pumping of water, wastewater, or recycled water
- Increases direct GHG emissions (i.e. from digesters)
- Other

**Neutral (no changes to GHG emissions)**

**Mitigation/Benefits**

- Increases water use efficiency or promotes energy-efficient water demand reduction
- Improves water system energy efficiency
- Improves energy efficiency of other systems or processes
- Reduces treated (potable) water loss
- Advances/expands water recycling
- Promotes urban runoff reuse
- Promotes use of renewable energy sources.
- Reduces GHG emissions
- Contributes to carbon sequestration
- Other (no construction impacts, other...please describe)

**GHG assessment score**



**Infrastructure Life Spans  
for Use in Benefit-Cost Analyses**

<b>Item</b>	<b>Life Expectancy</b>	<b>Source</b>
Water Treatment Plants	20 to 50 years	USEPA, Sustainable Infrastructure for Water and Wastewater, <a href="http://www.epa.gov/waterinfrastructure/basicinformation.html#five">http://www.epa.gov/waterinfrastructure/basicinformation.html#five</a>
Pipes	15 to >100 years	USEPA, Sustainable Infrastructure for Water and Wastewater, <a href="http://www.epa.gov/waterinfrastructure/basicinformation.html#five">http://www.epa.gov/waterinfrastructure/basicinformation.html#five</a>
Reservoirs and Dams	50 to 80 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Treatment Plants - Concrete Structures	60 to 70 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Treatment Plants - Mechanical and Electrical	15 - 25 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Trunk Mains	65 to 95 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Pumping Stations - Concrete Structures	60 to 70 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Pumping Stations - Mechanical and Electrical	25 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Distribution	60 to 95 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Interceptors	90 to 100 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Force Mains	25 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Collections	80 to 100 years	USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
Groundwater wells	30 to 50 years	Experience; Roscoe Moss Case Study <i>Increased Well Efficiency, Extended Lifetime and Reduced Maintenance through Selection of Stainless Steel Casing and Well Screen</i>
Pumps in new wells	10 years	Roscoe Moss Case Study <i>Increased Well Efficiency, Extended Lifetime and Reduced Maintenance through Selection of Stainless Steel Casing and Well Screen</i>
Study	5 years	
invasive species removal	3 to 5 years	
site restoration	50 to 100 years	



## East Stanislaus IRWMP Update 2017 Relative B:C Ratio Score Calculations

### Relative Benefit-Cost (B:C) Analysis and Scores

Blue cells include formulas and inputs; gray cells automatically calculate.

Project ID	1312	1319	1325	1331	1340	1385
<b>Project Name</b>	SRWA Regional Surface Water Supply Project	North Valley Regional Recycled Water Project	Modesto Area 2 Stormwater to Sanitary Sewer Cross-Connection Removal Project	7th Street Low Impact Development (LID) Storm Drainage Improvements	Regional Surface Water Treatment Plant Pipeline Turnout	Grayson Water System Efficiency improvements
<b>Organization</b>	City of Turlock & City of Ceres on behalf of the SRWA	City of Turlock on behalf of NVRWP Partners	City of Modesto	City of Hughson	City of Hughson	City of Modesto
<b>Year Basis for Estimates (2017?)</b>						2017
<b>Total Estimated Capital Cost</b>						\$840,000
<b>Estimated Annual O&amp;M Cost</b>						
<b>Estimated Life of Project</b>						
<b>Replacement Part</b>						
<b>Estimated Replacement Cost</b>						
<b>Year of Replacement</b>						
<b>Total Estimated Project Cost</b>						
<b>Local Funding</b>						
<b>Source of Local Funding</b>						
<b>Total Cost Funding through Existing Grants</b>						
<b>Total Estimated Cost Currently Unfunded</b>						
<b>Land Purchase/Easement</b>	\$3,500,000	\$135,000			\$75,000	
<b>Planning Cost</b>	\$4,000,000	\$267,000				\$56,000
<b>Project Design Cost</b>	\$30,000,000	\$3,500,000	\$300,000	\$60,000		\$56,000
<b>Environmental Review Cost</b>	\$3,500,000	\$475,000				
<b>Permits Cost</b>	\$500,000	\$200,000				
<b>Construction/Implementation Cost</b>	\$221,000,000	\$75,000,000	\$3,730,272	\$300,000	\$320,000	\$560,000
<b>Environmental Mitigation/Compliance Cost</b>	\$500,000	\$1,000,000	\$33,000			
<b>Construction/Project Management Cost</b>	\$9,000,000	\$22,000,000	\$17,000	\$20,000	\$55,000	\$56,000
<b>Other Cost</b>			\$20,000			\$56,000
<b>Specify Other Cost</b>		CM also includes legal and other implementation costs	Outreach/Education			
<b>Total Cost</b>	\$272,000,000	\$102,577,000	\$4,100,272			\$840,000
<b>Total Capital Cost (2017\$)<sup>1</sup></b>	\$272,000,000	\$102,577,000	\$4,100,272	\$380,000	\$450,000	\$840,000
<b>Total O&amp;M Cost (2017\$)<sup>2</sup></b>	\$27,200,000	\$10,257,700	\$410,027	\$38,000	\$45,000	\$84,000
<b>Year Basis<sup>3</sup></b>	2017	2017	2017	2017	2017	2017
<b>Life of Project<sup>4</sup></b>	35	72	90	90	72	72
<b>Present Value Cost<sup>5</sup></b>	\$666,352,301	\$270,963,078	\$10,897,990	\$1,009,991	\$1,188,701	\$2,218,909
<b>Cost Score<sup>6</sup></b>	3	3	2	1	1	2
<b># of Benefits (Objectives checked)</b>	17	21	5	5	5	1
<b>Benefits Score<sup>7</sup></b>	3	3	2	2	2	1
<b>Relative B:C Ratio<sup>8</sup></b>	1	1	1	2	2	0.5

**Footnotes:**

- Costs that were not originally provided in 2017 dollars were converted to 2017 dollars using the ENR CCI for San Francisco (annual averages used).
- Assumes 10% of capital costs when O&M costs were not provided.
- If no year is indicated, 2017 was assumed.
- Middle of range from Page I-18 selected if no life is noted.
- Discount factor of 6% assumed (based on previous IRWM guidance).
- 1 point if PV < \$2M, 2 points if \$2M < PV < \$20M, 3 points if PV > \$20M.
- 1 point if < 4 objectives checked, 2 points if 5 to 7 objectives checked, and 3 points if more than 8 benefits checked.
- Benefits score divided by cost score; generally, B:C > 1 preferred as the benefits outweigh the costs.





## East Stanislaus IRWMP Update 2017 Relative B:C Ratio Score Calculations

### Relative Benefit-Cost (B:C) Analysis and Score

Blue cells include formulas and inputs; gray cells automatic

Project ID	1411	1455	1460	1461	1467	1305
Project Name	Regional Surface Water Treatment Project	Sutter Wastewater Treatment Plant Relocation Project	Catherine Everett Park Cross Connection Elimination	JM Pike Park Cross Connection Elimination	TRRP - Carpenter Road/West Modesto Flood Management and Park Development	Non-Potable Water System
Organization	City of Hughson	City of Modesto	City of Modesto	City of Modesto	TRRP JPA	City of Hughson
Year Basis for Estimates (2017?)		2016	2015	2015		
Total Estimated Capital Cost		\$94,000,000	\$3,800,000	\$15,000,000	\$750,000	
Estimated Annual O&M Cost						
Estimated Life of Project						
Replacement Part						
Estimated Replacement Cost						
Year of Replacement						
Total Estimated Project Cost						
Local Funding						
Source of Local Funding						
Total Cost Funding through Existing Grants						
Total Estimated Cost Currently Unfunded						
Land Purchase/Easement	\$3,500,000	\$0				
Planning Cost	\$4,000,000		\$38,000			
Project Design Cost	\$30,000,000		\$380,000	\$1,360,000		\$40,000
Environmental Review Cost	\$3,500,000					
Permits Cost	\$500,000					
Construction/Implementation Cost	\$221,000,000		\$3,800,000	\$13,600,000	\$750,000	\$375,000
Environmental Mitigation/Compliance Cost	\$500,000					
Construction/Project Management Cost	\$9,000,000		\$38,000			\$25,000
Other Cost						
Specify Other Cost						
<b>Total Cost</b>	<b>\$272,000,000</b>		<b>\$4,256,000</b>	<b>\$15,000,000</b>	<b>\$750,000</b>	
<b>Total Capital Cost (2017\$)<sup>1</sup></b>	<b>\$272,000,000</b>	<b>\$96,017,979</b>	<b>\$4,465,068</b>	<b>\$15,000,000</b>	<b>\$750,000</b>	<b>\$440,000</b>
<b>Total O&amp;M Cost (2017\$)<sup>2</sup></b>	<b>\$27,200,000</b>	<b>\$9,601,798</b>	<b>\$446,507</b>	<b>\$1,500,000</b>	<b>\$75,000</b>	<b>\$44,000</b>
<b>Year Basis<sup>3</sup></b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2015</b>	<b>2017</b>	<b>2017</b>
<b>Life of Project<sup>4</sup></b>	<b>72</b>	<b>35</b>	<b>90</b>	<b>90</b>	<b>65</b>	<b>72</b>
<b>Present Value Cost<sup>5</sup></b>	<b>\$718,503,732</b>	<b>\$235,227,212</b>	<b>\$11,867,571</b>	<b>\$39,868,049</b>	<b>\$1,971,684</b>	<b>\$1,162,285</b>
<b>Cost Score<sup>6</sup></b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>
<b># of Benefits (Objectives checked)</b>	<b>17</b>	<b>8</b>	<b>11</b>	<b>11</b>	<b>10</b>	<b>5</b>
<b>Benefits Score<sup>7</sup></b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>2</b>
<b>Relative B:C Ratio<sup>8</sup></b>	<b>1</b>	<b>1</b>	<b>1.5</b>	<b>1</b>	<b>3</b>	<b>2</b>

**Footnotes:**

1. Costs that were not originally provided in 2017 dollars were converted to 2017 dollars using the ENR CCI for San Francisco (annual averages used).
2. Assumes 10% of capital costs when O&M costs were not provided.
3. If no year is indicated, 2017 was assumed.
4. Middle of range from Appendix M selected if no life is noted.
5. Discount factor of 6% assumed (based on previous IRWM guidance).
6. 1 point if PV < \$2M, 2 points if \$2M < PV < \$20M, 3 points if PV > \$20M.
7. 1 point if < 4 objectives checked, 2 points if 5 to 7 objectives checked, and 3 points if more than 8 benefits checked.
8. Benefits score divided by cost score; generally, B:C > 1 preferred as the benefits outweigh the costs.



## East Stanislaus IRWMP Update 2017 Relative B:C Ratio Score Calculations

### Relative Benefit-Cost (B:C) Analysis and Score

Blue cells include formulas and inputs; gray cells automatic

Project ID	1346	1347	1349	1351	1359	1362
Project Name	DAC and Native American Outreach and Technical Assistance	Online Data Management System	Regional Water Needs Assessment	Dennett Dam Removal	Dos Rios Floodplain and Riparian Habitat Restoration	Tuolumne River Non-Motorized Boat Launch
Organization	ESRWMP	ESRWMP	ESRWMP	Tuolumne River Trust	River Partners	City of Waterford
Year Basis for Estimates (2017?)				2017		2016
Total Estimated Capital Cost				\$2,445,457		
Estimated Annual O&M Cost						
Estimated Life of Project				perpetuity		
Replacement Part						
Estimated Replacement Cost						
Year of Replacement						
Total Estimated Project Cost				\$2,445,457		\$600,773
Local Funding				\$57,000		
Source of Local Funding				Joseph & Vera Long Foundation, City of Modesto, Stanislaus County		
Total Cost Funding through Existing Grants				\$1,935,937		\$470,290
Total Estimated Cost Currently Unfunded				\$509,520		
Land Purchase/Easement					\$22,000,000	
Planning Cost			\$78,255	\$100,000	\$100,000	
Project Design Cost				\$120,000	\$100,000	\$43,080
Environmental Review Cost				\$32,000	\$50,000	
Permits Cost				\$78,000	\$50,000	
Construction/Implementation Cost				\$1,700,000	\$9,000,000	\$359,000
Environmental Mitigation/Compliance Cost				\$323,457		
Construction/Project Management Cost				\$44,000	\$700,000	
Other Cost	\$30,480	\$100,200		\$48,000		
Specify Other Cost	implementation costs	database software purchase, data input and intranet mounting				Project currently funded through Division of Boating and Waterways
Total Cost				\$2,445,457	\$32,000,000	
<b>Total Capital Cost (2017\$)<sup>1</sup></b>	\$30,480	\$100,200	\$78,255	\$2,445,457	\$32,686,972	\$613,670
<b>Total O&amp;M Cost (2017\$)<sup>2</sup></b>	\$0	\$0	\$0	\$0	\$3,268,697	\$61,367
<b>Year Basis<sup>3</sup></b>	2017	2017	2017	2017	2016	2016
<b>Life of Project<sup>4</sup></b>	5	5	5	100	75	75
<b>Present Value Cost<sup>5</sup></b>	\$30,480	\$100,200	\$78,255	\$2,445,457	\$86,476,156	\$1,623,517
<b>Cost Score<sup>6</sup></b>	1	1	1	2	3	1
<b># of Benefits (Objectives checked)</b>	3	3	5	5	11	10
<b>Benefits Score<sup>7</sup></b>	1	1	2	2	3	3
<b>Relative B:C Ratio<sup>8</sup></b>	1	1	2	1	1	3

**Footnotes:**

1. Costs that were not originally provided in 2017 dollars were converted to 2017 dollars using the ENR CCI for San Francisco (annual averages used).
2. Assumes 10% of capital costs when O&M costs were not provided.
3. If no year is indicated, 2017 was assumed.
4. Middle of range from Appendix M selected if no life is noted.
5. Discount factor of 6% assumed (based on previous IRWM guidance).
6. 1 point if PV < \$2M, 2 points if \$2M < PV < \$20M, 3 points if PV > \$20M.
7. 1 point if < 4 objectives checked, 2 points if 5 to 7 objectives checked, and 3 points if more than 8 benefits checked.
8. Benefits score divided by cost score; generally, B:C > 1 preferred as the benefits outweigh the costs.



## East Stanislaus IRWMP Update 2017 Relative B:C Ratio Score Calculations

### Relative Benefit-Cost (B:C) Analysis and Sc

Blue cells include formulas and inputs; gray cells automa

Project ID	1386	1416	1427	1429	1450	1466
Project Name	South Modesto Infrastructure Efficiency Improvements	East Stanislaus Watershed Outreach and Education	Rouse Lake Managed Aquifer Recharge (MAR) Project	Mustang Creek MAR Project	F St Storm Pond	Tuolumne River Regional Park
Organization	City of Modesto	Tuolumne River Trust	Eastside Water District	Eastside Water District	City of Waterford	Tuolumne River Regional Park JPA
Year Basis for Estimates (2017?)	\$6750000	2017	2017	2017	2017	2017
Total Estimated Capital Cost			\$10	\$450,000	\$185,300	\$60,000,000
Estimated Annual O&M Cost		\$92,000	\$980,000	\$30,000		
Estimated Life of Project		3	75 years	75 years		
Replacement Part						
Estimated Replacement Cost						
Year of Replacement						
Total Estimated Project Cost		\$276,000	\$9,800,000	\$450,000		
Local Funding			\$4,900,000	\$450,000		
Source of Local Funding			Approved Per-Acre Charges	EWD DSWP Fund		
Total Cost Funding through Existing Grants		\$75,000				
Total Estimated Cost Currently Unfunded		\$201,000	\$4,900,000			
Land Purchase/Easement			\$200,000			
Planning Cost	\$450,000		\$500,000	\$50,000		
Project Design Cost	\$450,000		\$500,000	\$100,000	\$26,500.00	
Environmental Review Cost			\$500,000	\$2,000		
Permits Cost			\$200,000	\$15,000		
Construction/Implementation Cost	\$4,950,000	\$276,000	\$5,500,000	\$238,000	\$140,000.00	
Environmental Mitigation/Compliance Cost			\$500,000			
Construction/Project Management Cost	\$450,000		\$500,000	\$15,000	\$18,000.00	
Other Cost	\$450,000		\$1,400,000	\$30,000		
Specify Other Cost	Program Implementation which includes permits, legal, admin, etc		Contingency	Operations		
Total Cost	\$6,750,000	\$276,000	\$9,800,000	\$450,000	\$185,300	
Total Capital Cost (2017\$) <sup>1</sup>	\$6,750,000	\$276,000	\$9,800,000	\$450,000	\$185,300	\$60,000,000
Total O&M Cost (2017\$) <sup>2</sup>	\$675,000	\$92,000	\$980,000	\$30,000	\$18,530	\$6,000,000
Year Basis <sup>3</sup>	2017	2017	2017	2017	2017	2017
Life of Project <sup>4</sup>	72	3	75	75	90	75
Present Value Cost <sup>5</sup>	\$17,830,515	\$521,917	\$25,926,731	\$943,675	\$492,503	\$158,735,089
Cost Score <sup>6</sup>	2	1	3	1	1	3
# of Benefits (Objectives checked)	1	4	40	34	2	13
Benefits Score <sup>7</sup>	1	2	3	3	1	3
Relative B:C Ratio <sup>8</sup>	0.5	2	1	3	1	1

**Footnotes:**

1. Costs that were not originally provided in 2017 dollars were converted to 2017 dollars using the ENR CCI for San Francisco (annual averages used).
2. Assumes 10% of capital costs when O&M costs were not provided.
3. If no year is indicated, 2017 was assumed.
4. Middle of range from Appendix M selected if no life is noted.
5. Discount factor of 6% assumed (based on previous IRWM guidance).
6. 1 point if PV < \$2M, 2 points if \$2M < PV < \$20M, 3 points if PV > \$20M.
7. 1 point if < 4 objectives checked, 2 points if 5 to 7 objectives checked, and 3 points if more than 8 benefits checked.
8. Benefits score divided by cost score; generally, B:C > 1 preferred as the benefits outweigh the costs.



# East Stanislaus IRWMP Update 2017

## Secondary Project Ranking - GHG Emissions Impacts/Benefits

Project Priority	High	<ul style="list-style-type: none"> <li>-North Valley Regional Recycled Water Project</li> <li>-SRWA Regional Surface Water Supply Project</li> </ul>	<ul style="list-style-type: none"> <li>-Mustang Creek MAR Project</li> <li>-Rouse Lake Managed Aquifer Recharge (MAR) Project</li> </ul>	
	Medium		<ul style="list-style-type: none"> <li>-Regional Surface Water Treatment Plant Pipeline Turnout</li> <li>-East Stanislaus Watershed Outreach and Education</li> <li>-Regional Water Needs Assessment</li> <li>-Tuolumne River Non-Motorized Boat Launch</li> </ul>	<ul style="list-style-type: none"> <li>-Dos Rios Floodplain and Riparian Habitat Restoration</li> <li>-Catherine Everett Park Cross Connection Elimination</li> <li>-JM Pike Park Cross Connection Elimination</li> <li>-Tuolumne River Regional Park</li> <li>-Non-Potable Water System</li> <li>-7th Street Low Impact Development (LID) Storm Drainage Improvements</li> </ul>
	Low		<ul style="list-style-type: none"> <li>-Dennett Dam Removal</li> </ul>	<ul style="list-style-type: none"> <li>-TRRP - Carpenter Road/West Modesto Flood Management and Park Development</li> <li>-Modesto Area 2 Stormwater to Sanitary Sewer Cross-Connection Removal Project</li> <li>-DAC and Native American Outreach and Technical Assistance</li> <li>-Sutter Wastewater Treatment Plant Relocation Project</li> <li>-South Modesto Infrastructure Efficiency Improvements</li> <li>-Online Data Management System</li> <li>-Grayson Water System Efficiency improvements</li> <li>-F St Storm Pond</li> </ul>
		Impacts	Neutral	Mitigation/Benefits
GHG Emissions				

<b>Legend</b>	
Secondary Project Ranking	
Primary	
Secondary	
Tertiary	

# Appendix K

## Project Solicitation Form





Project Name:



Description:

Contact:

Partner(s):



Total Cost:

Last Update: Monday Nov 27, 2017

[ESIRWM Instructions](#) [Project Info](#) [ESIRWM Requirements](#) [Contact](#) [Description](#) [ESIRWM Benefits](#) [Feasibility](#) [Cost/Funding](#) [Other Considerations](#) [SWRP Eligibility](#) [SWRP Benefits](#)

**ESIRWM Instructions** [Top](#)

**Instructions**

The East Stanislaus Integrated Regional Water Management (IRWM) Planning Region is an official IRWM planning region approved by the California Department of Water Resources (DWR). The Cities of Modesto, Turlock, Ceres, Hughson, and Waterford, and Stanislaus County executed a Memorandum of Understanding (MOU) to participate as members of the East Stanislaus Regional Water Management Partnership (ESRWMP), the Regional Water Management Group for the Region, and have initiated an update of the 2013 East Stanislaus Integrated Regional Water Management Plan (IRWMP). We are seeking projects to be included in the 2017 East Stanislaus IRWMP

If you have a project that you would like to be included in the 2017 East Stanislaus IRWMP, please complete the following project information form (either in hard copy or electronically online at <http://www.eaststanirwm.org/projects>). Project information can be submitted electronically through the ESRWMP IRWM Project Database (OPTI) at the web address above. If you do not have internet access, please mail or hand-deliver one copy of your application to:

Jim Alves  
 City of Modesto Public Works Department  
 1010 Tenth Street, Suite 4600  
 P.O. Box 642  
 Modesto, CA 95353

For consideration and inclusion in the East Stanislaus IRWMP, project information forms **MUST BE** submitted by 5:00 PM on September 15, 2017.

**Instructions**

Projects submitted for consideration will be separated into three categories: Concept Projects, Preliminary Design Complete, and Ready-to-Proceed (RTP) Projects. RTP Projects consist of projects that are ready or close to being ready for implementation. They can be construction projects, research projects, or studies, but must be developed enough to have detailed budget and schedule information available and most planning, design and environmental documentation (if required) must be complete. Concept Projects are projects that are at a conceptual level and require additional project development before being implementation-ready. Preliminary Design Complete projects are further developed than the Concept Projects, but not yet ready for implementation. Concept Projects, Preliminary Design Complete projects, and RTP Projects will be included in the IRWMP, but Concept Projects will not be considered for inclusion in applications for funding through DWRs IRWM Grant Program.

**Important Items to Note Regarding Future Grant Funding**

This project solicitation process is for the purpose of compiling projects to be included in the East Stanislaus IRWMP, not for the purpose of applying to DWR for IRWM grant funding at this time. Per DWR's IRWM Guidelines, all project proponents with projects included in an IRWM grant application must adopt the IRWM Plan. At this time, DWR anticipates having an IRWM Implementation Grant solicitation in early 2018. In order to be eligible for grant funding, the East Stanislaus IRWMP must be reviewed and approved by DWR through the Plan Review Process (PRP). In order for projects to be eligible for funding, they must be included in the adopted IRWMP. Submitting your project for consideration for inclusion in the East Stanislaus IRWMP now will make it eligible for future IRWM grant cycles.

However, inclusion of your project in the IRWMP will not guarantee that it is included in a grant application or that it receives grant funding. Projects submitted for consideration through this project solicitation process will be prioritized; only the top-ranked projects and those meeting required application criteria (as stipulated in individual Proposal Solicitation Packages released by DWR prior to grant solicitations) will likely get submitted for IRWM implementation grant funding. Projects may move up through the ranking process over time as they are further developed or as DWR and/or the East Stanislaus region's goals and objectives, and program preferences change.

If you are submitting a Ready-to-Proceed (R TP) project for consideration for inclusion in the East Stanislaus IR WMP, please be aware of the following as it relates to receiving future grant funding:

#### Conflict of Interest

All participants are subject to State and Federal conflict of interest laws, including business and financial disclosure provisions. Failure to comply will result in a grant application being rejected. Confidentiality

Once a grant application is submitted to DWR, privacy rights and confidentiality protections are waived. Labor Code Compliance

Should grant funding be received from DWR, the entity receiving funding must adopt and enforce a labor compliance program pursuant to California Labor Code §1771.5(b). CEQA/NEPA Compliance

Project funded under the IRWM grant program must be compliant with the California Environmental Quality Act (CEQA). The recipient of grant funds must demonstrate that it is or has a plan to be compliant with all applicable CEQA and National Environmental Policy Act (NEPA) requirements. A schedule of when environmental documents will be completed is required. Monitoring Requirements

Projects that affect water volume and quality shall include a monitoring component that allows the integration of data into State-wide monitoring efforts, including, but not limited to, the Surface Water Ambient Monitoring Program (SWAMP) and the Groundwater Ambient Monitoring and Assessment (GAMA) Program carried out by the State Water Resources Control Board. Groundwater Management Plan Compliance

Due to the recent passage of the Sustainable Groundwater Management Act (SGMA), there will be a transition period between groundwater management plans (GWMPs) and SGMA. Therefore, the 2016 Proposition 1 IRWM Guidelines note that grant eligibility will have to consider both GWMP eligibility and Groundwater Sustainability Agency (GSA)/Groundwater Sustainability Plan (GSP) progress. For groundwater management and recharge projects and for projects with potential groundwater impacts, the applicant or the project proponent responsible for such projects must demonstrate that they comply with the following regulations:

Water Code §10720 et seq. Groundwater project proponents must demonstrate that their project is consistent with SGMA efforts in the basin. Groundwater Management Plan Compliance For groundwater projects or other projects having a direct effect on groundwater levels or quality, the applicant or project proponent must meet one of the following conditions (Water Code §10753.7 (b)(1):

They conform to the requirements of an adjudication of water rights in the subject groundwater basin They have prepared and implemented a GWMP in compliance with CWC §10753.7 They participate or consent to be subject to a GWMP, basin-wide management plan, or other IRWM program or plan that meets the requirements of CWC §10753.7(a) For projects located in low or very low priority groundwater basins without an existing GWMP, the proposal commits to adopting a GWMP compliant with Water Code §10753.7 or a GSP compliant with Water Code §10727 et seq.

#### Water Code § 10920 Compliance

For high and medium priority basins without a California Statewide Groundwater Elevation Monitoring (CASGEM) monitoring entity, grant applicants and project proponents that have been identified as potential monitoring entities will not be eligible for grant funding. Counties whose jurisdictions include unmonitored high and medium priority basins will not be eligible for grant funding. If the entire service area of the grant applicant or the individual project proponents service area is demonstrated to be a DAC, the project will be considered eligible. Local Plan Consistency

Any watershed protection activities must be consistent with the applicable, adopted, local watershed management plans and the applicable Regional Water Quality Control Plan (Basin Plan) adopted by the Regional Water Quality Control Board. Requirements for Urban Water Suppliers

An Urban Water Supplier is a supplier, either publicly or privately owned, that provides water for municipal purposes either directly or indirectly to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually (CWC § 10617). Urban water suppliers must comply with the following:

Urban Water Management Planning Act Compliance Water suppliers who were required by the Urban Water Management Planning Act (CWC § 10610 et seq.) to submit an Urban Water Management Plan (UWMP) to DWR must have submitted a complete UWMP to be eligible for IRWM Grant Program funding. Applicants and project proponents that are urban water suppliers and have projects that would receive funding through the IRWM grant program must have a complete UWMP by the time a grant is awarded to be eligible to receive funding. SB X7-7 Compliance Requires all water suppliers to increase water use efficiency and sets an overall goal of reducing per capita water use by 20% by December 31, 2020. Urban water suppliers must prepare an Urban Water Management Plan (UWMP) that includes documentation of compliance with interim water use targets. In order to qualify for funding, urban water suppliers must have a UWMP approved by DWR. CWC § 529.5 Compliance - Requires on or after January 1, 2010, any urban water supplier applying for state grant funds for wastewater treatment projects, water use efficiency projects, drinking water treatment projects, or for a permit for a new or expanded water supply, shall demonstrate that they meet the water meter requirements in CWC § 525 et seq.

#### Requirement for Agricultural Water Suppliers

In accordance with CWC §10608.56, an agricultural water supplier is ineligible for funding unless it complies with requirements of Part 2.55 (commencing with §10608) of Division 6. This requires that the agricultural water supplier measure the volume of water delivered, adopt a pricing strategy based at least partially on quantity delivered, and implement additional efficient management practices. The supplier must prepare an AWMP which must be approved by DWR in order to qualify for funding. SB X7-7 also requires preparation of an AWMP for grant eligibility.

Thank you for your participation. If you have questions or comments, please visit our website at <http://www.eaststanirwm.org/> or contact Jim Alves, Associate Civil Engineer at the City of Modesto, at [jalves@modestogov.com](mailto:jalves@modestogov.com) or (209) 571-55572.

## Project Info [Top](#)

### Project Info

Select the Program(s) for which you would like to enter your project (select IRWM, SWRP, or both):

- East Stanislaus Integrated Regional Water Management Program : Any project that would like to be considered for IRWM funding should select this program. Projects must meet at least one IRWM Plan Objective, one Resource Management Strategy, one Statewide Objective, and must be technically feasible in order to be considered for inclusion in the Plan and to be considered for IRWM funding. For more information about the IRWM grant program visit the California Department of Water Resources' website.
- Stanislaus County Multi-Agency Storm Water Resource Plan : All storm water and dry weather runoff capture projects (e.g., Green Infrastructure, Rainwater and storm water capture, Storm water treatment facilities, and Demonstration or pilot projects that are consistent with the eligibility requirements of Prop 1, Chapter 7) should select this program, regardless of whether they are seeking IRWM or Storm Water grant funding. Inclusion in the Storm Water Resource Plan is required for storm water and dry weather runoff capture projects seeking Proposition 1 funding. For more information about the Storm Water Grant Program visit the State Water Resources Control Boards website.

Project Name: \*

Organization: \*

### Project Location

Project Coordinates: Enter decimal latitude and longitude below or

Latitude: \*

Longitude: \*

Project Area:

File Name

Type

## ESIRWM Requirements [Top](#)

### Minimum Requirements for Inclusion in the East Stanislaus IRWMP

If the Proposed Project does not meet the following requirements, it will not be considered for inclusion in the East Stanislaus IRWMP:

The Project must be within the boundaries of the East Stanislaus IRWM Planning Region or include part of the East Stanislaus IRWM Planning Region. The Project must meet at least one of the East Stanislaus Region's Objectives listed below. Check all that apply. The Project must fulfill at least one of the DWR's Resource Management Strategies and one of DWR's Statewide Priorities. Be technically feasible.

### East Stanislaus Goals & Objectives \*

Water Supply Goal - To protect existing water supplies and water rights, and improve regional water supply reliability

Water Supply Objectives

- Provide a variety of water supply sources, including recycled water, to meet all current and future demands (urban, agricultural and the environment) under various hydrologic conditions.
- Promote the use of groundwater storage and conjunctive use options to reduce groundwater overdraft.
- Protect existing water rights, including permitted diversions and extractions.
- Implement water conservation plans for both urban and agricultural uses.
- Support monitoring and research to improve understanding of water supplies and needs.
- Address intra- and inter-regional conveyance infrastructure needs.
- Address changes in runoff and recharge due to climate change, including amount, timing, and variability.

Flood Protection Goal - To ensure flood protection strategies are developed and implemented through a collaborative process, utilizing both local and watershed-wide approaches designed to maximize opportunities for comprehensive water resource management that meet multiple objectives.

Flood Protection Objectives

- Develop outlines of regional projects and plans necessary to protect infrastructure from flooding and erosion from the 100-year event.
- Work with stakeholders to preserve existing flood attenuation by implementing land management strategies throughout the watershed.
- Develop approaches for adaptive management that minimizes maintenance requirements and protects water quality and availability while preserving and enhancing ecologic and stream functions, as appropriate.
- Provide community benefits beyond flood protection, such as public access, open space, recreation, agricultural preservation, and economic development.
- Protect, restore, and enhance the natural ecological, geomorphic, and hydrologic functions and processes of rivers, creeks, streams and



their floodplains.

- Address changes in timing and intensity of runoff due to climate change.
- Increase and improve the quantity, diversity, and connectivity of riparian, wetland, floodplain, aquatic, and shaded riverine aquatic habitats, including the agricultural and ecological values of these lands.
- Identify opportunities and incentives for expanding or increasing use of floodway corridors.

Water Quality Goal - To protect and improve water quality for beneficial uses consistent with regional interests and the RWQCB Basin Plan in cooperation with local, state and federal agencies and regional stakeholders

#### Water Quality Objectives

- Meet or exceed all applicable water quality regulatory standards, including drinking water standards.
- Deliver agricultural water to meet water quality guidelines established by stakeholders.
- Aid in meeting Total Maximum Daily Loads established, or to be established, for the Tuolumne, Stanislaus, Merced, and San Joaquin River watersheds.
- Protect surface waters and groundwater basins from contamination and threat of contamination.
- Manage existing land uses while preserving or enhancing environmental habitats.
- Minimize impacts from storm water through implementation of Best Management Practices, Low Impact Development or other similar projects.
- Promote programs and projects to reduce the quantity and improve the quality of urban and agricultural runoff.
- Promote and support regional monitoring to further understanding of water quality issues.

Environmental Protection and Enhancement Goal - To protect the environmental resources of the Stanislaus, Tuolumne, Merced and San Joaquin River watersheds by identifying, promoting and implementing opportunities to assess, restore and enhance natural resources of these watersheds

#### Environmental Protection and Enhancement Objectives

- Identify and incorporate (where possible and reasonable) opportunities to assess, protect, enhance, and/or restore natural resources when developing water management strategies.
- Minimize adverse effects on biological and cultural resources, including riparian habitats, habitats supporting sensitive plant or animal species, and archaeological sites when implementing strategies and projects.
- Identify opportunities for open spaces, trails and parks along creeks and other recreational projects in the watershed to be incorporated with water supply, water quality, or flood protection projects.
- Contribute to the long-term sustainability of agricultural, commercial, industrial, and urban land uses and activities within the basin.
- Identify opportunities to protect, enhance, or restore habitat to the support all watersheds in the Region in conjunction with water supply, water quality, or flood protection projects.
- Support projects to understand, protect, improve and restore the region's ecological resources.
- Promote the recovery and stability of regionally present native species and populations.

Regional Communication and Cooperation Goal - To implement and promote this IRWM Plan through regional communication, cooperation, and education

#### Regional Communication and Cooperation Objectives

- Develop a forum for consensus decision-making and IRWM Plan implementation by regional entities.
- Build relationships with State and Federal regulatory agencies and other water forums and agencies to facilitate permitting of water-related projects and ensure continued consistency with state water plans.
- Facilitate dialogues between regional and inter-regional entities to reduce inconsistencies and conflicts in water management and to maximize benefits from water-related projects.
- Maintain avenues of communication with the general public and offering opportunities to provide feedback on the IRWM and water-related projects through the regional websites and other public forums.
- Identify opportunities for public education about water supply, water quality, flood management, and environmental protection.
- Implement focused outreach to DACs and EDAs relative to opportunities for water supply, water quality, flood management, and environmental protection projects.

Economic and Social Responsibility Goal - To promote development and implementation of projects, programs and policies that are socially impartial and economically sound

#### Economic and Social Responsibility Objectives

- Support the participation of disadvantaged communities and economically distressed areas in the development, implementation, monitoring and long-term maintenance of water resource projects.
- Develop cost-effective multi-benefit projects.
- Consider disproportionate community impacts to ensure environmental justice.
- Maximize economies of scale and governmental efficiencies.
- Protect cultural resources.
- Reduce energy use and associated GHG emissions and/or use of renewable resources where appropriate.

- Adopt carbon sequestration strategies where appropriate

### Resource Management Strategies

A Resource Management Strategy (RMS) is a project, program, or policy that helps local agencies and governments manage their water and related resources. Place a check by the RMS that your project employs.

#### Reduce Water Demand

- Agricultural Water Use Efficiency  
 Urban Water Use Efficiency

#### Improve Operational Efficiency and Transfers

- Conveyance - Delta  
 Conveyance - Regional/Local  
 System Reoperation  
 Water Transfers

#### Increase Water Supply

- Conjunctive Management & Groundwater Storage  
 Desalination  
 Precipitation Enhancement  
 Recycled Municipal Water  
 Surface Storage - CALFED  
 Surface Storage - Regional/Local

#### Improve Water Quality

- Drinking Water Treatment and Distribution  
 Groundwater Remediation/Aquifer Remediation  
 Matching Quality to Use  
 Pollution Prevention  
 Salt and Salinity Management  
 Sediment Management  
 Urban Runoff Management

#### Improve Flood Management

- Flood Management

#### Practice Resource Stewardship

- Agricultural Lands Stewardship  
 Economic Incentives (Loans, Grants, and Water Pricing)  
 Ecosystem Restoration  
 Forest Management  
 Outreach and Engagement  
 Recharge Area Protection  
 Water and Culture  
 Water-Dependent Recreation  
 Watershed Management

#### Other Strategies

- Crop Land for Water Transfers  
 Dew Vaporation or Atmospheric Pressure Desalination  
 Fog Collection  
 Irrigated Land Retirement  
 Rainfed Agriculture  
 Waterbag Transport/Storage Technology

### Statewide Priorities

Please check all that apply. For detailed information regarding the Statewide Priorities, see pages 8 to 11 of the 2016 IRWM Guidelines, available [here](#).

- Make Conservation a California Way of Life  
 Increase Regional Self-Reliance and Integrated Water Management Across All Levels of Government  
 Achieve the Co-Equal Goals for the Delta  
 Protect and Restore Important Ecosystems  
 Maximize the Use of Water

- Manage and Prepare for Dry Periods
- Expand Water Storage Capacity and Improve Groundwater Management
- Provide Safe Water for All Communities
  
- Increase Flood Protection

Contact [Top](#)

Primary Contact

Name: \*

Agency/Organization: \*

Title: \*

Email Address: \*

Phone Number: \*    Ext:

Secondary Contact

Name:

Agency/Organization:

Title:

Email Address:

Phone Number:    Ext:

Description [Top](#)

Description

Project Category: \*  Select

Project Type: \*  Select

Project Description: \*

Pilot/Demonstration Project:  No  Yes

If yes, please explain:

Project Status (% complete):

Project Partners:

Please list any project partners and their role in the project.

Other Stakeholders

Please list any stakeholders to the project, including the name of the stakeholder and type (e.g. water supply purveyor, wastewater agency, flood control agency, local government, special district, power utility, State/federal/regional agency, school/university, environmental stewardship organization, community/civic organization, agriculture, Native American tribe, disadvantaged community, other).

ESIRWM Benefits [Top](#)

Benefits

Please select the primary benefit provided by the project. Choose ONLY one.

- 1. Water Supply: Protect existing water supplies and water rights, and improve regional water supply reliability.
- 2. Water Quality: Protect and improve water quality for beneficial uses consistent with regional interests and the RWQCB Basin Plan in cooperation with local, state, and federal agencies and regional stakeholders.
- 3. Environmental Protection and Enhancement: Protect the environmental resources of the Stanislaus, Tuolumne, Merced, and San Joaquin River watersheds by identifying, promoting and implementing opportunities to assess, restore and enhance natural resources of these watersheds.
- 4. Flood Protection: Ensure flood protection strategies are developed and implemented through a collaborative process, utilizing both local and watershed-wide approaches designed to maximize opportunities for comprehensive water resources management that meet multiple objectives.
- 5. Regional Communication and Cooperation: Implement and promote the East Stanislaus IRWM Plan through regional communication, cooperation, and education.
- 6. Economic and Social Responsibility: Promote development and implementation of projects, programs, and policies that are socially impartial and economically sound.

Does your project help the region meet additional benefits? If yes, please describe the benefits as applicable.

- 1. Water Supply  No  Yes If so, please explain
- 2. Water Quality  No  Yes If so, please explain
- 3. Environmental  No  Yes If so, please explain
- 4. Flood Management  No  Yes If so, please explain
- 5. Regional Communication and Cooperation  No  Yes If so, please explain
- 6. Economic and Social Responsibility  No  Yes If so, please explain

Describe any steps taken to provide multiple benefits from your project:

[Feasibility](#) [Top](#)

Project Status

Project Start Date:

Complete all Sections:

Planning:	Select	Estimated Completion:	<input type="text"/>
Feasibility Study:	Select	Estimated Completion:	<input type="text"/>
Environmental Documentation:	Select	Estimated Completion:	<input type="text"/>
Pre-Project Monitoring:	Select	Estimated Completion:	<input type="text"/>
Design:	Select	Estimated Completion:	<input type="text"/>
Environmental Permits *:	Select	Estimated Completion:	<input type="text"/>
Building/Other Permits:	Select	Estimated Completion:	<input type="text"/>
Construction/Implementation:	Select	Estimated Completion:	<input type="text"/>
Post Project Monitoring:	Select	Estimated Completion:	<input type="text"/>

\*Describe Environmental Permits Required for the Project:

[Cost/Funding](#) [Top](#)

Project Funding

Year Basis for Estimates (2017?):

Total Estimated Capital Cost:

Estimated Annual O&M Cost:

Estimated Life of Project:

Replacement Part:

Estimated Replacement Cost:

Year of Replacement:

Replacement Part:

Estimated Replacement Cost:

Year of Replacement:

Replacement Part:

Estimated Replacement Cost:

Year of Replacement:

Total Estimated Project Cost:

Local Funding:

Source of Local Funding:

Total Cost Funding through Existing Grants:

Total Estimated Cost Currently Unfunded:

Project Cost Breakdown

Please enter estimated costs. If unknown, please state so.

N/A  Unknown  Land Purchase/Easement:

N/A  Unknown  Planning:

N/A  Unknown  Design:

N/A  Unknown  Environmental Review:

N/A  Unknown  Permits:

N/A  Unknown  Construction/Implementation:

N/A  Unknown  Environmental Mitigation/Compliance:

N/A  Unknown  Construction Management/Project Management:

N/A  Unknown  Other:

Specify Other:

Total:

Other Considerations [Top](#)

Disadvantaged Communities (DAC) and Economically Distressed Areas (EDAs)

A DAC is a community with an annual median household income that is less than 80% of the Statewide annual median household income. An EDA is a community that is reasonably isolated from a larger municipality with an annual median household income that is less than 85% of the Statewide annual median household income, and also has either a low population density, or an unemployment rate at least 2% greater than the Statewide average.

Does your project help address critical water supply and water quality needs of DACs and/or EDAs within the East Stanislaus Region?  No

Yes

If so, how?

What Community(ies)?

How were the DACs/EDAs included in the planning or development of the project?

### Native American Tribal Communities

Does your project help to address critical water supply and water quality needs of Native American Tribal Communities within the East Stanislaus region?  No  Yes

If so, how?

What tribe(s)?

How were the tribe(s) included in the planning or development of the project?

### Climate Change Adaptation / Greenhouse Gas (GHG) Emission Reduction

Does your project consider and/or address the effects of climate change on the region through adaptation?  No  Yes

If so, how?

Does your project consider the contribution of GHG emissions compared to project alternatives?  No  Yes

If so, how?

Does your project reduce energy consumption and/or GHG emissions?  No  Yes

If so, how?

### Performance, Monitoring, and Data Management

What data will be collected from the project or monitoring of the project?

How will the data be disseminated/shared with the region?

How will the data be maintained?

### Technical Feasibility

Is your project technically feasible; please describe?

What documents can you provide that demonstrate/document this technical feasibility?

Are there data gaps that require additional studies to develop the project?

## SWRP Eligibility [Top](#)

### SWRP Project Submission Instructions

In April 2017, Stanislaus County was awarded a Prop 1 storm water planning grant from the State Water Resources Control Board. Representatives from the County and local municipalities, agencies, and non-profit groups are now collaborating to develop the Stanislaus Multi-Agency Regional Storm Water Resource Plan (SWRP) encompassing all watersheds within the County. The primary purpose of the SWRP is to identify and assess projects that promote storm water as a resource, prioritizing those multi-benefit projects that can best meet the identified planning area and watershed priorities. As all storm water and dry weather runoff capture projects must now be included in a SWRP to be eligible for state grant funding, the SWRP will be completed by July 2018, in time for projects included in the plan to be eligible to apply for upcoming funding opportunities.

If you have a project to be included in the SWRP, please complete the appropriate project information tabs and click the submit button. For projects that are within the East Stanislaus IRWM region, please complete all of the project information tabs. Projects that are not located within the East Stanislaus IRWM region should complete all of the tabs except for the ESIRWM Instructions, Requirements, and Benefits tabs.

[Click here](#) for additional information on how to enter and submit a SWRP project in Opti.

[Click here](#) for information on the project prioritization criteria that will be used by the SWRP.

### Project Eligibility

Each Project must meet all of the following to be included in the SWRP.

Can the project be sponsored by an eligible applicant?  No  Yes  
 Is the project a storm water or dry weather runoff project?  No  Yes

Does the project meet 2 or more of the following SWRP main benefits?  No  Yes

Water Quality - Increased filtration and/or treatment of runoff Water Supply - Water supply reliability Water Supply - Conjunctive use Flood Management - Decreased flood risk by reducing runoff rate and/or volume Environmental - Environmental and habitat protection and/or improvement Environmental - Increased urban green space Community - Employment opportunities provided Community - Public education

Does the project provide at least one of the following SWRP Additional Benefits?  No  Yes

Water Quality - Nonpoint source pollution control Water Quality - Reestablished natural water drainage and treatment Water Supply - Water conservation Flood Management - Reduced sanitary sewer overflows Environmental - Reduced energy use, greenhouse gas emissions, or provides a carbon sink Environmental - Reestablishment of natural hydrograph Environmental - Water temperature improvements Community - Community involvement Community - Enhance and/or create recreational and public use areas

**Stanislaus Multi-Agency Regional Watershed Priorities**

Does the Project implement water quality improvements to help achieve the goals of an existing TMDL? (check all that apply)

- Sacramento-San Joaquin Delta Methylmercury TMDL
- Sacramento-San Joaquin Delta Diazinon and Chlorpyrifos TMDL
- San Joaquin River Dissolved Oxygen TMDL (Stockton Deep Water Ship Channel)
- Central Valley Pesticide TMDL

Does the project reduce pollutant discharges into a 303(d) listed Impaired Water Body?  No  Yes

If yes, please list water body.

Does the project augment water supply by capturing storm water for recharging into a groundwater basin?  No  Yes

Does the Project provide a SWRP Main or Additional Benefit to a disadvantaged community or economically distressed area?  No  Yes

If yes, please list communities.

**Progress Towards Project Implementation**

Is the project supported by entities that have created permanent, local or regional funding?  No  Yes

Is the project located on public land?  No  Yes

If not, does the project have an easement or right of way agreement with a local land owner?  No  Yes

**SWRP Benefits [Top](#)**

**Water Quality Benefits**

Does the project provide any of the following benefits (check all that apply and provide applicable quantitative estimate, if available):

- Increased filtration and/or treatment of runoff (SWRP Main Benefit)

Average annual pollutant load reduction:

TSS (lbs/yr)

Mercury (lbs/yr)

Diazinon (lbs/yr)

Chlorpyrifos (lbs/yr)

Selenium (lbs/yr)

Diuron (lbs/yr)

bacteria - fecal coli. / E. coli (MPN/yr)

pyrethroids (lb/yr)

trash (lb/yr)

Total Nitrogen (lb/yr)

Other constituent

Other consistent [ ]

Volume of water treated (mgd) [ ]

Volume of runoff infiltrated (af/year) [ ]

Other quantitative metric [ ]

Nonpoint source pollution control (SWRP Additional Benefit)

Provide quantitative metric [ ]

Reestablished natural water drainage and treatment (SWRP Additional Benefit)

Provide quantitative metric [ ]

Describe how the project will achieve these benefits.

[ ]

Describe the method or study used to quantify the benefits described above.

[ ]

### Water Supply Benefits

Does the project provide any of the following benefits (check all that apply and provide applicable quantitative estimate, if available):

Water supply reliability (SWRP Main Benefit)

Increase in water supply through direct groundwater recharge (af/year) [ ]

Increase in water supply through direct use (af/year) [ ]

Other quantitative metric [ ]

Conjunctive use (SWRP Main Benefit)

Increase in water supply through in lieu recharge/conjunctive use (af/year) [ ]

Other quantitative metric [ ]

Water conservation (SWRP Additional Benefit)

Reduction in water use (af/year) [ ]

Other quantitative metric [ ]

Describe how the project will achieve these benefits.

[ ]

Describe the method or study used to quantify the benefits described above.

[ ]

### Flood Management Benefits

Does the project provide any of the following benefits (check all that apply and provide applicable quantitative estimate, if available):

Decreased flood risk by reducing runoff rate and/or volume (SWRP Main Benefit)

Reduction in peak flow discharge (cfs) [ ]

Reduction in volume of potential flood water (af/year) [ ]

Other quantitative metric [ ]

Reduced sanitary sewer overflows (SWRP Additional Benefit)

Reduction in sewer overflow volumes (af/year) [ ]

Other quantitative metric [ ]



Describe how the project will achieve these benefits.

Describe the method or study used to quantify the benefits described above.

### Environmental Benefits

Does the project provide any of the following benefits (check all that apply and provide applicable quantitative estimate, if available):

Environmental habitat protection and improvement, including wetland enhancement/creation, riparian enhancement, and/or instream flow improvement (SWRP Main Benefit)

Size of habitat protected or improved (acres)

Amount of instream flow rate improvement (cfs)

Other quantitative metric

Increased urban green space (SWRP Main Benefit)

Size of increase in urban green space (acres)

Other quantitative metric

Reduced energy use, greenhouse gas emissions, or provides a carbon sink (SWRP Additional Benefit)

Amount of energy consumption reduced (KWH/year)

Amount of GHG emissions reduced (tons/year)

Other quantitative metric

Reestablishment of natural hydrograph (SWRP Additional Benefit)

Provide quantitative metric

Water temperature improvements (SWRP Additional Benefit)

Amount of temperature improvement (degrees F)

Describe how the project will achieve these benefits.

Describe the method or study used to quantify the benefits described above.

### Community Benefits

Does the project provide any of the following benefits (check all that apply and provide applicable quantitative estimate, if available):

Employment opportunities provided (SWRP Main Benefit)

Number of employment opportunities provided

Other quantitative metric

Public education (SWRP Main Benefit)

Number of outreach materials provided or events conducted

Other quantitative metric

Community involvement (SWRP Additional Benefit)

Number of participants per year

Other quantitative metric

Enhance and/or create recreational and public use areas (SWRP Additional Benefit)

Estimated visits per year

Other quantitative metric

Describe how the project will achieve these benefits.

Describe the method or study used to quantify the benefits described above.

\* Minimum Required Information for Project Submission



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