

Appendix J



Project Summary (June 2012)

Project Information			
proj_id	1305	1310	1312
proj_creatorName	Clark, Thomas	Casas, Felipe	Alves, Jim
Project Name	Non-Potable Water System	Monterey Park Tract Community Safe Drinking Water Project	SRWA Regional Surface Water Supply Project
Organization	City of Hughson	Monterey Park Tract Community Services District	City of Modesto on behalf of the SRWA
Project Category	Ready to Proceed	Preliminary Design Complete	Preliminary Design Complete
Project Type	Infrastructure - Water Supply	Infrastructure - Water Supply	Infrastructure - Water Supply
Project Description	<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>	<p>The project will construct a connection between the City of Ceres water system and the Monterey Park Tract water system. The project will provide a source of safe source of drinking water for the residents of Monterey Park Tract.</p>	<p>This project consists of a new 29 mgd water treatment plant 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 has already been constructed by the TID. A pump station would be constructed to convey water from the infiltration gallery to the proposed treatment plant and treated water would be conveyed via transmission mains to the City's of Modesto, Ceres and Turlock, providing a conjunctive use strategy and reducing reliance on groundwater sources. The project is proposing an intertie transmission pipe between the existing MID transmission main, located north of Greer Road, to the proposed SRWA facilities to strengthen reliability for water customers through an ability to convey treated water from one water system to the other in the instance that either the MID or SRWA treatment plants are off line for any reason.</p>
Pilot/Demonstration Project			
Project Status (% complete)	100		25
Project Coordinates_Lat	37.600344	37.526284	37.616611
Project Coordinates_Lng	-120.853007	-121.010335	-120.840597
Map Area	Photo of City and Turf Areas 4-13-12.pdf	polygon_drawn_1337282208467.kml	polygon_drawn_1338312144372.kml
ESIRWM Regional Goals and Objectives			
Water Supply Objectives			
Provide a variety of water supply sources	✓	✓	✓
Promote the use of groundwater storage and conjunctive use options to reduce groundwater overdraft			✓
Protect existing water rights			✓
Implement water conservation plans for both urban and agricultural uses			
Support monitoring and research to improve understanding of water supplies and needs			
Address conveyance infrastructure needs	✓	✓	✓
Flood Protection Objectives			

Project Summary

Project Information			
proj_id	1305	1310	1312
Develop outlines of regional projects and plans necessary to protect infrastructure			
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			
Provide community benefits beyond flood protection			
Protect/ restore/ and enhance the natural ecological and hydrologic functions			✓
Water Quality Objectives			
Meet or exceed all applicable water quality regulatory standards	✓	✓	✓
Deliver agricultural water to meet water quality guidelines established by stakeholders			
Aid in meeting Total Max Daily Loads established for the Tuolumne River watershed			
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			
Promote 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 Objectives			
Incorporate opportunities to assess/ protect/ enhance/ and/or restore natural resources			
Minimize adverse effects on biological and cultural resources			✓
Identify opportunities for open spaces/ trails and parks along recreational projects			
Contribute to the long-term sustainability of land uses and activities within the basin	✓	✓	✓

Project Summary

Project Information			
proj_id	1305	1310	1312
Identify opportunities to protect/ enhance/ or restore habitat to the support all watersheds			✓
Support projects to understand/ protect/ improve and restore the region's ecological resources			
Regional Communication and Cooperation Objectives			
Identify and incorporate (where possible and reasonable) opportunities to assess, protect, enhance, and/or restore natural resources when developing water management strategies.			✓
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 agent			✓
Facilitate dialogues between regional and inter-regional entities to reduce inconsistencies an			✓
Maintain avenues of communication with the general public and offering opportunities to provide			✓
Identify opportunities for public education about water supply/ water quality/ flood management			✓
Economic and Social Responsibility Objectives			
Support the participation of disadvantaged communities 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/or use of renewable resources where appropriate.			
Resource Management Strategies			
Reduce Water Demand	Urban Water Use Efficiency	Urban Water Use Efficiency	

Project Summary

Project Information			
proj_id	1305	1310	1312
Improve Operational Efficiency and Transfers	System Reoperation	Water Transfers	
Increase Water Supply	Recycled Municipal Water		Conjunctive Management & Groundwater Storage
Improve Water Quality	Matching Quality to Use	Drinking Water Treatment and Distribution	Drinking Water Treatment and Distribution
Improve Flood Management			
Practice Resource Stewardship	Economic Incentives (Loans, Grants, and Water Pricing)		
Other Strategies			
Statewide Priorities			
Statewide Priorities	Use and Reuse Water More Efficiently	Use and Reuse Water More Efficiently	Drought Preparedness,Climate Change Response Actions,Expand Environmental Stewardship
Project Benefits			
Primary Benefit	Water Supply	Water Quality	Water Supply
Explanation of Primary Benefit	Reduces demand on the potable water system and avoids costly water treatment.	The current water supplied by the Monterey Park Tract CSD exceeds the maximum contaminant levels(MCL) for nitrates and arsenic, and the secondary MCLs for manganese and total dissolved solids. The project will result in a source of water, for the Monterey Park Tract water system, that meets MCL standards.	Project would provide a higher quality and more reliable water source in addition to practicing conjunctive water use strategies by utilizing a secondary water source to groundwater supply which, diversifies urban water supplies.
Water Supply Benefits		The project will provide a dependable supply of potable water for Monterey Park Tract residents.	Use of new water supply from TID reduces the amount of groundwater extraction by urban users, thus preserving this resource for other users of the aquifer as well as providing some drought contingency through passive groundwater banking.

Project Summary

Project Information			
proj_id	1305	1310	1312
Water Quality Benefits	Frees up capital funding for treatment of constituents in other City water wells. Hughson is currently under a Cease and Desist Order from the State to stop supplying water with high arsenic levels.		Surface water supplies are generally of better quality than groundwater sources and with treatment of the TID water sources a more reliable quality of water can be obtained for urban users than is available from groundwater sources.
Environmental Benefits			The project would allow the TID to pursue it's desire to convey up to 100 cfs of surface water down the Tuolumne River thus providing benefits to river fisheries and other uses upstream of the existing Infiltration Gallery near Fox Grove.
Flood/Stormwater Management Benefits			
Community Stewardship Benefits	Real cost savings to residents and Hughson Unified School District		

Project Summary

Project Information			
proj_id	1305	1310	1312
Steps to be taken to Provide multiple benefits	Water treatment cost avoidance while providing turf irrigation with higher quality water than surface water (weed free).		
Feasibility			
Project Start Date		9/1/2011	
Planning Status	N/A	Completed	In Progress
Estimated Date of Completion			2013
Feasibility Status	N/A	Completed	Completed
Estimated Date of Completion			2006
Environmental Assessment Status	N/A	In Progress	Completed
Estimated Date of Completion		8/31/2012	2006
Pre-Project Monitoring Status	N/A	Not Started	Completed
Estimated Date of Completion			2000
Design Status	Completed	Not Started	In Progress
Estimated Date of Completion		11/21/2012	2014
Environmental Permits Status	N/A	Not Started	In Progress
Estimated Date of Completion		11/30/2012	2013
Building/Order Permits Status	N/A	Not Started	Not Started
Estimated Date of Completion			2016
Construction/Implementation Status	Not Started	Not Started	Not Started
Estimated Date of Completion		6/30/2014	2018
Post Project Monitoring Status	N/A	Not Started	Not Started
Estimated Date of Completion			2019
Describe Environmental Permits Required for the Project		The project will require at most a mitigated Negative Declaration as work will take place in existing county right-of-ways.	A permit was obtained for construction of the Infiltration Gallery within the Tuolumne River and which was completed in 2001. A permit to operate the Treatment Plant will be required prior to plant operation.
Describe Other Permits (e.g./ Encroachment/ Building) Required for the Project			Encroachment permits on County and City rights of way will be required for construction of transmission mains to Modesto, Ceres and Turlock. Building permits will be required for construction of the water treatment plant.
Project Workplan/Schedule			

Project Summary

Project Information			
proj_id	1305	1310	1312
Planning Documents	NOE non-potable.v1.pdf		
Project Costs			
Total Project Cost	\$440,000	\$2,245,969	\$150,000,000
Local Funded	\$65,000		
Funded through existing grants		\$2,220,269	
Currently Unfunded	\$375,000	\$25,700	\$150,000,000
Project Cost Breakdown			
Land Purchase/Easement		\$50,000	\$1,500,000
Planning Cost			\$2,100,000
Project Design Cost	\$40,000		\$10,000,000
Environmental Review Cost			\$375,000
Permits Cost			\$25,000
Construction/Implementation Cost	\$375,000	\$1,348,600	\$120,000,000
Environmental Mitigation/Compliance Cost			\$1,000,000
Construction/Project Management Cost	\$25,000	\$289,949	\$15,000,000
Other Cost		\$557,420	
Specify Other Cost		City capacity fees, bridge loan fees and interest, city water installation, and contingency	
Total Cost	\$440,000	\$2,245,969	\$150,000,000
Other Considerations			
Disadvantaged Communities			
Address Critical Water Supply and Water Quality Needs	No	Yes	Yes
Explain how the project addresses critical water supply and water quality needs		The project will help Monterey Park Tract, a DAC, pursue a project to obtain safe drinking water. The current water source does not meet safe drinking water MCLs.	Project would provide a new water supply to the Cities of Modesto (specifically South Modesto), Turlock, and Ceres which have disadvantage areas and communities within their existing City Limits, General Plan Areas and SOI's.
What Community		Monterey Park Tract	
How were the DACs included in the planning or development of the project?		Monterey Park Tract CSD is the lead agency in the project	The DAC's are included in the IRWM outreach efforts under which this project has been submitted.
Native American Tribal Communities			
Address critical water supply and quality needs of Native American Tribal	No		No
Explain how address critical water supply and quality needs of Native American Tribal			

Project Summary

Project Information			
proj_id	1305	1310	1312
What tribe(s)?			
How were the tribe(s) included in the planning or development of the project?			Native American tribes have been contacted as part of the IRWM Regional Plan effort and encouraged to participate which includes the solicitation, ranking and prioritizing of projects.
Climate Change/Greenhouse Gas Emissions Reduction			
Does (will) your project consider and/or address the effects of climate change on the region?	No	No	Yes
How does (will) your project consider and/or address the effects of climate change on the region?			Through the EIR documentation process.
Does (will) your project reduce greenhouse gas emissions?	Yes	Yes	No
How does (will) your project reduce greenhouse gas emissions?	Reduces electrical generation needs by eliminating water treatment at well heads.	Currently, Monterey Park Tract residents must drive to the City of Ceres to purchase drinking water. Construction of this project will reduce the driving that Monterey Park Tract residents must do to obtain drinking water.	
Performance, Monitoring and Data Management			
What data will be collected from the project or monitoring of the project?		Water quality and water usage	As part of the treatment plant design and operation a variety of raw and treated water quality data will be collected.
How will the data be disseminated/shared with the region?		Reports	
How will the data be maintained?		District staff will take monthly water usage readings and compare to past water usage. Water quality analysis will occur as required by State.	Data will be analyzed, stored and reported to the State as necessary.
Project Contact Information			
Primary Contact Name	Thom Clark	Francisco Diaz	Jim Alves
Primary Contact Agency	City of Hughson	Monterey Park Tract Community Services District	City of Modesto
Primary Contact Title	Community Development Director	Board President	Associate Civil Engineer
Primary Contact Email	tclark@hughson.org	diaz_f4@hotmail.com	jalves@modestogov.com
Primary Contact Phone	(209) 883-0811 Ext:	(209) 499-1113 Ext:	(209) 571-5557 Ext:
Secondary Contact Name	Bryan Whitemyer	Felipe Casas	Dan Madden
Secondary Contact Agency/Organization	City of Hughson	Self-Help Enterprises	City of Turlock
Secondary Contact Title	City Manager	Community Development Specialist	Municipal Services Director
Secondary Contact Email	bwhitemyer@hughson.org	felipec@selfhelpenterprises.org	DMadden@turlock.ca.us
Secondary Contact Phone	(209) 883-4055 Ext:	(559) 802-1688 Ext:	(209) 668-5599 Ext: 4401
Project Partners	Hughson Unified School District - Has signed ten-year agreement to use the potable water system to irrigate District turf areas.	Monterey Park Tract Community Services District - Lead Agency,City of Ceres - Will provide water to Monterey Park Tract CSD.	City of Turlock - SRWA Joint Powers Authority Member,City of Ceres - SRWA Joint Powers Authority Member,City of Modesto - SRWA Joint Powers Authority Member

Project Summary

Project Information			
proj_id	1305	1310	1312
Other Stakeholders			
Stakeholder Outreach Description			The City of Hughson is a stakeholder as a potential future partner and customer of treated water.

Project Summary

Project Information			
proj_id	1325	1328	1331
proj_creatorName	Strand, William	Clark, Thomas	Clark, Thomas
Project Name	Modesto Area 2 Stormwater to Sanitary Sewer Cross-Connection Removal Project	Water Well No. 9	7th Street Low Impact Development (LID) Storm Drainage Improvements
Organization	City of Modesto	City of Hughson	City of Hughson
Project Category	Ready to Proceed	Preliminary Design Complete	Preliminary Design Complete
Project Type	Infrastructure - Stormwater/Flood Management	Infrastructure - Water Supply	Infrastructure - Stormwater/Flood Management
Project Description	<p>The project uses LID Techniques to convey storm water to Garrison Park, provide water quality treatment, infiltrate stormwater, and recharge the groundwater aquifer. The project will reduce 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. Twenty failed dry wells and three sanitary sewer cross connections will be removed. A centralized water quality device will be used to treat stormwater prior to infiltration in a 6.8 acre foot underground retention system. The project renovates the highly utilized park with a new baseball field, multipurpose field, basketball court, and site furnishings.</p>	<p>Construction of a 1,200 gallon per minute municipal water well, including all necessary appurtenances such as pumping, piping, and emergency power. This well is intended to be used in conjunction with a major municipal water blending facility.</p>	<p>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.</p>
Pilot/Demonstration Project			
Project Status (% complete)	100		
Project Coordinates_Lat	37.665707	37.587745	37.594172
Project Coordinates_Lng	-121.023363	-120.867763	-120.860939
Map Area	polygon_drawn_1337798884563.kml	polygon_drawn_1338917674223.kml	polygon_drawn_1337814282896.kml
ESIRWM Regional Goals and Objectives			
Water Supply Objectives			
Provide a variety of water supply sources		✓	
Promote the use of groundwater storage and conjunctive use options to reduce groundwater overdraft			
Protect existing water rights			
Implement water conservation plans for both urban and agricultural uses			
Support monitoring and research to improve understanding of water supplies and needs			
Address conveyance infrastructure needs			
Flood Protection Objectives			

Project Summary

Project Information			
proj_id	1325	1328	1331
Develop outlines of regional projects and plans necessary to protect infrastructure			
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			
Provide community benefits beyond flood protection			✓
Protect/ restore/ and enhance the natural ecological and hydrologic functions			
Water Quality Objectives			
Meet or exceed all applicable water quality regulatory standards		✓	
Deliver agricultural water to meet water quality guidelines established by stakeholders			
Aid in meeting Total Max Daily Loads established for the Tuolumne River watershed			
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			✓
Promote 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 Enhanc			
Incorporate opportunities to assess/ protect/ enhance/ and/or restore natural resources			
Minimize adverse effects on biological and cultural resources			
Identify opportunities for open spaces/ trails and parks along recreational projects			
Contribute to the long-term sustainability of land uses and activities within the basin			

Project Summary

Project Information			
proj_id	1325	1328	1331
Identify opportunities to protect/ enhance/ or restore habitat to the support all watersheds			
Support projects to understand/ protect/ improve and restore the region's ecological resources			
Regional Communication and Cooper			
Identify and incorporate (where possible and reasonable) opportunities to assess, protect, enhance, and/or restore natural resources when developing water management strategies.			
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 agent			
Facilitate dialogues between regional and inter-regional entities to reduce inconsistencies an			
Maintain avenues of communication with the general public and offering opportunities to provide			
Identify opportunities for public education about water supply/ water quality/ flood management			
Economic and Social Responsibility O			
Support the participation of disadvantaged communities 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/or use of renewable resources where appropriate.			✓
Resource Management Strategies			
Reduce Water Demand			

Project Summary

Project Information			
proj_id	1325	1328	1331
Improve Operational Efficiency and Transfers			
Increase Water Supply			
Improve Water Quality		Drinking Water Treatment and Distribution	
Improve Flood Management	Flood Risk Management		Flood Risk Management
Practice Resource Stewardship			Land Use Planning
Other Strategies			
Statewide Priorities			
Statewide Priorities	Practice Integrated Flood Management	Use and Reuse Water More Efficiently	Practice Integrated Flood Management
Project Benefits			
Primary Benefit	Water Quality	Water Supply	Flood Protection
Explanation of Primary Benefit	The project removes stormwater to sewer cross connections which Wastewater Master Plan has identified as causing the sewer system to surcharge leading to SSO's. This project will remove three sanitary sewer cross connections.		
Water Supply Benefits	Recharges aquifer with water currently being conveyed to the wastewater treatment plan.		

Project Summary

Project Information			
proj_id	1325	1328	1331
Water Quality Benefits			
Environmental Benefits			
Flood/Stormwater Management Benefits	Reduces street flooding, removes suspended sediment.		
Community Stewardship Benefits		Will reduce rate payer costs by eliminating water treatment facility requirements, once connected to the blending facility.	Avoids unnecessary conversion of farmland to urban stormwater retention basin use.

Project Summary

Project Information			
proj_id	1325	1328	1331
Steps to be taken to Provide multiple benefits	The projects rehabilitates the baseball field and turf areas of Garrison Park which are in poor shape. The Parks Department currently does not have funds to rehabilitate the park.		
Feasibility			
Project Start Date			
Planning Status	Completed	Completed	N/A
Estimated Date of Completion			
Feasibility Status	Completed	N/A	N/A
Estimated Date of Completion			
Environmental Assessment Status	Completed	N/A	N/A
Estimated Date of Completion			
Pre-Project Monitoring Status	Completed	N/A	N/A
Estimated Date of Completion			
Design Status	Completed	Not Started	Not Started
Estimated Date of Completion		4/15/2013	10/30/2013
Environmental Permits Status	Completed	N/A	N/A
Estimated Date of Completion			
Building/Order Permits Status	Not Started	N/A	N/A
Estimated Date of Completion			
Construction/Implementation Status	Not Started	Not Started	Not Started
Estimated Date of Completion		9/15/2014	4/15/2013
Post Project Monitoring Status	Not Started	N/A	N/A
Estimated Date of Completion			
Describe Environmental Permits Required for the Project	The project is identified in the City of Modesto Wastewater Master Plan EIR (SCH No. 2006052076)		No environmental permits required. Categorical exemption applies to existing street.
Describe Other Permits (e.g./ Encroachment/ Building) Required for the Project	Grading Permit, Encroachment Permit		None required.
Project Workplan/Schedule	Modesto Area 2 - Schedule.pdf		

Project Summary

Project Information			
proj_id	1325	1328	1331
Planning Documents	Final_PDR_Modesto_Area_2_reduced.pdf		
Project Costs			
Total Project Cost	\$3,203,020	\$825,000	\$380,000
Local Funded	\$203,020	\$200,000	\$50,000
Funded through existing grants			
Currently Unfunded	\$3,000,000	\$805,000	\$330,000
Project Cost Breakdown			
Land Purchase/Easement			
Planning Cost			
Project Design Cost		\$125,000	\$60,000
Environmental Review Cost			
Permits Cost		\$10,000	
Construction/Implementation Cost	\$2,562,416	\$600,000	\$300,000
Environmental Mitigation/Compliance Cost			
Construction/Project Management Cost	\$640,064	\$80,000	\$20,000
Other Cost		\$10,000	
Specify Other Cost			
Total Cost	\$3,202,480	\$825,000	\$380,000
Other Considerations			
Disadvantaged Communities			
Address Critical Water Supply and Water Quality Needs	Yes		
Explain how the project addresses critical water supply and water quality needs	Reducing SSO's in a DAC.		
What Community	Census Tract 14 in Stanislaus County.		
How were the DACs included in the planning or development of the project?	Project is completely within the DAC. Two public workshops have been held.		
Native American Tribal Communities			
Address critical water supply and quality needs of Native American Tribal	No		
Explain how address critical water supply and quality needs of Native American Tribal			

Project Summary

Project Information			
proj_id	1325	1328	1331
What tribe(s)?			
How were the tribe(s) included in the planning or development of the project?			
Climate Change/Greenhouse Gas Emissions			
Does (will) your project consider and/or address the effects of climate change on the region?	Yes		
How does (will) your project consider and/or address the effects of climate change on the region?	Reduces the amount of stormwater being treated by the wastewater treatment plant.		
Does (will) your project reduce greenhouse gas emissions?	Yes		Yes
How does (will) your project reduce greenhouse gas emissions?	Reduces the amount of stormwater being treated by the wastewater treatment plant, reducing energy demands.		Eliminates the need for storm water pumping, thereby eliminating electrical use.
Performance, Monitoring and Data Management			
What data will be collected from the project or monitoring of the project?	Pre and post project: SSO's, stormwater maintenance, first flush grab samples of water upstream of system catch basins.		
How will the data be disseminated/shared with the region?	Annual Report.		
How will the data be maintained?	Updated annually.		
Project Contact Information			
Primary Contact Name	David Felix	Thom Clark	Thom Clark
Primary Contact Agency	City of Modesto	City of Hughson	City of Hughson
Primary Contact Title	Project Manager	Community Development Director	Community Development Director
Primary Contact Email	dfelix@modestogov.com	tclark@hughson.org	tclark@hughson.org
Primary Contact Phone	(209) 571-5801 Ext:	(209) 883-4054 Ext:	(209) 883-4054 Ext:
Secondary Contact Name	William Wong	Bryan Whitemyer	Bryan Whitemyer
Secondary Contact Agency/Organization	City of Modesto	City of Hughson	City of Hughson
Secondary Contact Title		City Manager	City Manager
Secondary Contact Email	wwong@modestogov.com	bwhitemyer@hughson.org	bwhitemyer@hughson.org
Secondary Contact Phone	(209) 571-5801 Ext:	(209) 883-4054 Ext:	(209) 883-4054 Ext:
Project Partners			

Project Summary

Project Information			
proj_id	1325	1328	1331
Other Stakeholders			
Stakeholder Outreach Description	<p>A public open house was held during the Preliminary Design Phase at Fremont Elementary School (1220 W. Orangeburg Ave.) on August 27, 2009.</p> <p>A public open house for Phase 1 design was held December 8, 2010 at Garrison Elementary School (1811 Teresa St.).</p>		

Project Summary

Project Information			
proj_id	1334	1335	1338
proj_creatorName	Cooke, Michael	Cooke, Michael	Clark, Thomas
Project Name	Municipal Well #41	Water Storage Reservoir NW	Well No. 9 Arsenic Treatment Facility
Organization	City of Turlock	City of Turlock	City of Hughson
Project Category	Preliminary Design Complete	Preliminary Design Complete	Preliminary Design Complete
Project Type	Infrastructure - Water Supply	Infrastructure - Water Supply	Infrastructure - Water Supply
Project Description	To install a new municipal supply well to address water needs in the recently annexed West Turlock area and in the developing Turlock Regional Industrial Park.	To install a new one million gallon above ground water storage reservoir to address water needs in the recently annexed West Turlock area and in the developing Turlock Regional Industrial Park.	This project will treat ground water from future Well No. 9 to eliminate arsenic and connect the well to a centralized blending facility to ensure water quality meets State standards. The treatment process includes a polymer mixing tank, solids discharge tank, and necessary appurtenances to complete the treatment process and connect piping to the blending facility located at another site.
Pilot/Demonstration Project			
Project Status (% complete)	90	35	15
Project Coordinates_Lat	37.506594	37.506798	37.587745
Project Coordinates_Lng	-120.898361	-120.894928	-120.867999
Map Area			polygon_drawn_1337903887886.kml
ESIRWM Regional Goals and Objectives			
Water Supply Objectives			
Provide a variety of water supply sources	✓	✓	
Promote the use of groundwater storage and conjunctive use options to reduce groundwater overdraft		✓	
Protect existing water rights	✓	✓	
Implement water conservation plans for both urban and agricultural uses		✓	
Support monitoring and research to improve understanding of water supplies and needs		✓	
Address conveyance infrastructure needs		✓	
Flood Protection Objectives			

Project Summary

Project Information			
proj_id	1334	1335	1338
Develop outlines of regional projects and plans necessary to protect infrastructure			
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			
Provide community benefits beyond flood protection			
Protect/ restore/ and enhance the natural ecological and hydrologic functions			
Water Quality Objectives			
Meet or exceed all applicable water quality regulatory standards	✓	✓	✓
Deliver agricultural water to meet water quality guidelines established by stakeholders			
Aid in meeting Total Max Daily Loads established for the Tuolumne River watershed			
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			
Promote 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			
Incorporate opportunities to assess/ protect/ enhance/ and/or restore natural resources			
Minimize adverse effects on biological and cultural resources			
Identify opportunities for open spaces/ trails and parks along recreational projects			
Contribute to the long-term sustainability of land uses and activities within the basin	✓	✓	✓

Project Summary

Project Information			
proj_id	1334	1335	1338
Identify opportunities to protect/ enhance/ or restore habitat to the support all watersheds			
Support projects to understand/ protect/ improve and restore the region's ecological resources			
Regional Communication and Cooper			
Identify and incorporate (where possible and reasonable) opportunities to assess, protect, enhance, and/or restore natural resources when developing water management strategies.			
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 agent		✓	
Facilitate dialogues between regional and inter-regional entities to reduce inconsistencies an		✓	
Maintain avenues of communication with the general public and offering opportunities to provide		✓	
Identify opportunities for public education about water supply/ water quality/ flood management		✓	
Economic and Social Responsibility O			
Support the participation of disadvantaged communities 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/or use of renewable resources where appropriate.		✓	
Resource Management Strategies			
Reduce Water Demand	Urban Water Use Efficiency	Urban Water Use Efficiency	

Project Summary

Project Information			
proj_id	1334	1335	1338
Improve Operational Efficiency and Transfers	Conveyance Regional/Local	Conveyance Regional/Local	
Increase Water Supply	Conjunctive Management & Groundwater Storage	Conjunctive Management & Groundwater Storage, Surface Storage Regional/Local	
Improve Water Quality	Drinking Water Treatment and Distribution	Drinking Water Treatment and Distribution	Drinking Water Treatment and Distribution
Improve Flood Management			
Practice Resource Stewardship	Land Use Planning	Land Use Planning	
Other Strategies			
Statewide Priorities			
Statewide Priorities	Drought Preparedness, Use and Reuse Water More Efficiently, Protect Surface Water and Natural Resources, Ensure Equitable Distribution of Benefits	Drought Preparedness, Use and Reuse Water More Efficiently	Use and Reuse Water More Efficiently
Project Benefits			
Primary Benefit	Water Supply	Water Supply	Water Quality
Explanation of Primary Benefit	Provides an additional source of water supply for the City of Turlock and ensures the use of drinking water that complies with all federal and state drinking water standards. This will allow for the closure of individual shallow wells that supply water to some of the area's residents.	Provides additional reliability of water supply for the City of Turlock and ensures the use of drinking water that complies with all federal and state drinking water standards. This will allow for the closure of individual shallow wells that supply water to some of the area's residents.	
Water Supply Benefits	Provides an additional source of water supply for the City of Turlock and ensures the use of drinking water that complies with all federal and state drinking water standards. This will allow for the closure of individual shallow wells that supply water to some of the area's residents.	Improves reliability of water supply for the City of Turlock and ensures the use of drinking water that complies with all federal and state drinking water standards. This will allow for the closure of individual shallow wells that supply water to some of the area's residents. Will also improve water distribution pressure to aid in fire suppression.	

Project Summary

Project Information			
proj_id	1334	1335	1338
Water Quality Benefits	Provides an additional source of water supply for the City of Turlock and ensures the use of drinking water that complies with all federal and state drinking water standards. This will allow for the closure of individual shallow wells that supply water to some of the area's residents.	Improves reliability for additional source of water supply for the City of Turlock and ensures the use of drinking water that complies with all federal and state drinking water standards. This will allow for the closure of individual shallow wells that supply water to some of the area's residents.	
Environmental Benefits			
Flood/Stormwater Management Benefits			
Community Stewardship Benefits			

Project Summary

Project Information			
proj_id	1334	1335	1338
Steps to be taken to Provide multiple benefits	The project will allow for the closure of an agricultural well on the property as well as allow for other properties in the area to connect to the municipal water supply. Further, area industries will have a supply of water for food processing and fire suppression.	The project will allow for the closure of an agricultural well on the property as well as allow for other properties in the area to connect to the municipal water supply. Further, area industries will have a supply of water for food processing and fire suppression.	
Feasibility			
Project Start Date	5/7/2012	5/7/2012	
Planning Status	Completed	Completed	Completed
Estimated Date of Completion	3/1/2012	3/1/2012	
Feasibility Status		In Progress	N/A
Estimated Date of Completion	7/31/2012	7/31/2012	
Environmental Assessment Status	In Progress	In Progress	N/A
Estimated Date of Completion	7/31/2012	7/31/2012	
Pre-Project Monitoring Status	Not Started	In Progress	N/A
Estimated Date of Completion	6/30/2012	6/30/2012	
Design Status	In Progress	In Progress	N/A
Estimated Date of Completion	10/31/2012	10/31/2012	
Environmental Permits Status	In Progress	In Progress	N/A
Estimated Date of Completion	10/31/2012	10/31/2012	
Building/Order Permits Status	Not Started	Not Started	N/A
Estimated Date of Completion	12/3/2012	12/3/2012	
Construction/Implementation Status	Not Started	Not Started	Not Started
Estimated Date of Completion	6/3/2013	6/3/2012	1/30/2015
Post Project Monitoring Status	Not Started	Not Started	N/A
Estimated Date of Completion	9/6/2013	9/6/2012	
Describe Environmental Permits Required for the Project	California DPH requires an Initial Study and a Negative Declaration.	California DPH requires an Initial Study and a Negative Declaration.	
Describe Other Permits (e.g./ Encroachment/ Building) Required for the Project	California DPH must approve Application for a Domestic Water Supply Permit Amendment. As a public works project, the City Engineer will oversee design and construction.	California DPH must approve Application for a Domestic Water Supply Permit Amendment. As a public works project, the City Engineer will oversee design and construction.	
Project Workplan/Schedule			

Project Summary

Project Information			
proj_id	1334	1335	1338
Planning Documents			
Project Costs			
Total Project Cost	\$1,500,000	\$4,500,000	\$3,595,000
Local Funded	\$500,000	\$1,000,000	\$250,000
Funded through existing grants			
Currently Unfunded	\$1,000,000	\$3,500,000	\$3,345,000
Project Cost Breakdown			
Land Purchase/Easement	\$35,000	\$35,000	
Planning Cost	\$10,000	\$20,000	
Project Design Cost	\$200,000	\$600,000	
Environmental Review Cost	\$10,000	\$10,000	\$35,000
Permits Cost	\$5,000	\$20,000	
Construction/Implementation Cost	\$1,175,000	\$3,665,000	\$45,000
Environmental Mitigation/Compliance Cost			
Construction/Project Management Cost	\$75,000	\$250,000	
Other Cost			
Specify Other Cost			
Total Cost	\$1,510,000	\$4,500,000	\$80,000
Other Considerations			
Disadvantaged Communities			
Address Critical Water Supply and Water Quality Needs	Yes	No	
Explain how the project addresses critical water supply and water quality needs	Additional supply of water that complies with all state and federal standards in West Turlock	Improves reliability of water supply that complies with all state and federal standards in West Turlock	
What Community			
How were the DACs included in the planning or development of the project?		Smart Valley Places Leadership Program.	
Native American Tribal Communities			
Address critical water supply and quality needs of Native American Tribal	No	No	
Explain how address critical water supply and quality needs of Native American Tribal			

Project Summary

Project Information			
proj_id	1334	1335	1338
What tribe(s)?			
How were the tribe(s) included in the planning or development of the project?			
Climate Change/Greenhouse Gas Emissions			
Does (will) your project consider and/or address the effects of climate change on the region?	Yes	Yes	
How does (will) your project consider and/or address the effects of climate change on the region?	CEQA	CEQA	
Does (will) your project reduce greenhouse gas emissions?	No		
How does (will) your project reduce greenhouse gas emissions?			
Performance, Monitoring and Data Management			
What data will be collected from the project or monitoring of the project?	Operational data - water quality and water supply	Operational data - water quality and water supply	
How will the data be disseminated/shared with the region?	Reports	Reports.	
How will the data be maintained?	City staff.	City staff.	
Project Contact Information			
Primary Contact Name	Dan Madden	Dan Madden	Thom Clark
Primary Contact Agency	City of Turlock	City of Turlock	City of Hughson
Primary Contact Title	Municipal Services Director	Municipal Services Director	Community Development Director
Primary Contact Email	dmadden@turlock.ca.us	dmadden@turlock.ca.us	tclark@hughson.org
Primary Contact Phone	(209) 668-5599 Ext: 4401	(209) 668-5599 Ext: 4401	(209) 883-4045 Ext:
Secondary Contact Name	Michael Cooke	Michael Cooke	Bryan Whitemyer
Secondary Contact Agency/Organization	City of Turlock	City of Turlock	City of Hughson
Secondary Contact Title	Regulatory Affairs Manager	Regulatory Affairs Manager	City Manager
Secondary Contact Email	mcooke@turlock.ca.us	mcooke@turlock.ca.us	bwhitemyer@hughson.org
Secondary Contact Phone	(209) 668-5599 Ext: 4418	(209) 668-5599 Ext: 4418	(209) 883-4054 Ext:
Project Partners			

Project Summary

Project Information			
proj_id	1334	1335	1338
Other Stakeholders		Agriculture (farm, ranch) - Blue Diamond Growers	
Stakeholder Outreach Description			

Project Summary

Project Information			
proj_id	1340	1342	1346
proj_creatorName	Clark, Thomas	Fremming, Lee	Dumas, Leslie
Project Name	Regional Surface Water Treatment Plant Pipeline Turnout	Arsenic Mitigation Project	DAC and Native American Outreach and Technical Assistance
Organization	City of Hughson	Keyes Community Services District	ESRWMP
Project Category	Preliminary Design Complete	Preliminary Design Complete	Ready to Proceed
Project Type	Infrastructure - Water Supply	Infrastructure - Water Supply	Plan Development
Project Description	<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, & control/SCADA system.</p>	Construction of arsenic treatment facilities, water transmission and distribution lines and modifications to existing water supply wells.	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.
Pilot/Demonstration Project			
Project Status (% complete)		20	100
Project Coordinates_Lat	37.60869	37.554921	37.629573
Project Coordinates_Lng	-120.851498	-120.912566	-120.873962
Map Area	polygon_drawn_1337967884165.kml	polygon_drawn_1338311035760.kml	
ESIRWM Regional Goals and Objectives			
Water Supply Objectives			
Provide a variety of water supply sources	✓		
Promote the use of groundwater storage and conjunctive use options to reduce groundwater overdraft			
Protect existing water rights			
Implement water conservation plans for both urban and agricultural uses			
Support monitoring and research to improve understanding of water supplies and needs			
Address conveyance infrastructure needs	✓		
Flood Protection Objectives			

Project Summary

Project Information			
proj_id	1340	1342	1346
Develop outlines of regional projects and plans necessary to protect infrastructure			
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			
Provide community benefits beyond flood protection			
Protect/ restore/ and enhance the natural ecological and hydrologic functions			
Water Quality Objectives			
Meet or exceed all applicable water quality regulatory standards	✓	✓	
Deliver agricultural water to meet water quality guidelines established by stakeholders			
Aid in meeting Total Max Daily Loads established for the Tuolumne River watershed			
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			
Promote 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 Enhanc			
Incorporate opportunities to assess/ protect/ enhance/ and/or restore natural resources			
Minimize adverse effects on biological and cultural resources			
Identify opportunities for open spaces/ trails and parks along recreational projects			
Contribute to the long-term sustainability of land uses and activities within the basin	✓		

Project Summary

Project Information			
proj_id	1340	1342	1346
Identify opportunities to protect/ enhance/ or restore habitat to the support all watersheds			
Support projects to understand/ protect/ improve and restore the region's ecological resources			
Regional Communication and Cooper			
Identify and incorporate (where possible and reasonable) opportunities to assess, protect, enhance, and/or restore natural resources when developing water management strategies.			
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 agent			
Facilitate dialogues between regional and inter-regional entities to reduce inconsistencies an			✓
Maintain avenues of communication with the general public and offering opportunities to provide			✓
Identify opportunities for public education about water supply/ water quality/ flood management			
Economic and Social Responsibility O			
Support the participation of disadvantaged communities 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/or use of renewable resources where appropriate.			
Resource Management Strategies			
Reduce Water Demand			

Project Summary

Project Information			
proj_id	1340	1342	1346
Improve Operational Efficiency and Transfers			
Increase Water Supply			
Improve Water Quality	Drinking Water Treatment and Distribution	Drinking Water Treatment and Distribution	
Improve Flood Management			
Practice Resource Stewardship			Economic Incentives (Loans, Grants, and Water Pricing)
Other Strategies			
Statewide Priorities			
Statewide Priorities	Use and Reuse Water More Efficiently	Ensure Equitable Distribution of Benefits	Ensure Equitable Distribution of Benefits
Project Benefits			
Primary Benefit	Water Supply	Water Quality	Regional Communication and Cooperation
Explanation of Primary Benefit		The addition of arsenic treatment will bring the drinking water into compliance with all applicable mandates and requirements of Title 22.	This project will provide outreach to DACs and Native American Communities in the East Stanislaus IRWM region. It will also provide technical assistance to these communities to assist them in identifying and developing projects for inclusion in the ESIRWM Plan
Water Supply Benefits	Use of surface water for domestic drinking water reduces the need for pumping groundwater.		

Project Summary

Project Information			
proj_id	1340	1342	1346
Water Quality Benefits			
Environmental Benefits			
Flood/Stormwater Management Benefits			
Community Stewardship Benefits	Reduces groundwater pumping thereby protecting local water wells.		This project will help DACs and Native American communities find their voice in managing regional water resources

Project Summary

Project Information			
proj_id	1340	1342	1346
Steps to be taken to Provide multiple benefits			
Feasibility			
Project Start Date		5/3/2004	6/4/2012
Planning Status	Completed	Completed	Completed
Estimated Date of Completion			
Feasibility Status	Completed	Completed	N/A
Estimated Date of Completion			
Environmental Assessment Status	N/A	Completed	N/A
Estimated Date of Completion			
Pre-Project Monitoring Status	N/A	N/A	N/A
Estimated Date of Completion			
Design Status	Completed	Not Started	N/A
Estimated Date of Completion		9/30/2013	
Environmental Permits Status	N/A	N/A	N/A
Estimated Date of Completion			
Building/Order Permits Status	N/A	Not Started	N/A
Estimated Date of Completion		9/30/2012	
Construction/Implementation Status	Not Started	Not Started	Not Started
Estimated Date of Completion	6/30/3016	1/15/2015	
Post Project Monitoring Status	N/A	N/A	Not Started
Estimated Date of Completion			
Describe Environmental Permits Required for the Project			None are required
Describe Other Permits (e.g./ Encroachment/ Building) Required for the Project		Encroachment permit for water lines, building permit for arsenic treatment site construction.	None are are required
Project Workplan/Schedule			DAC Outreach.docx,DAC Outreach Schedule.pdf

Project Summary

Project Information			
proj_id	1340	1342	1346
Planning Documents			
Project Costs			
Total Project Cost	\$450,000	\$8,600,000	\$30,480
Local Funded	\$50,000		\$3,613
Funded through existing grants			
Currently Unfunded	\$400,000		\$30,480
Project Cost Breakdown			
Land Purchase/Easement	\$75,000	\$150,000	
Planning Cost		\$440,000	
Project Design Cost		\$630,000	
Environmental Review Cost		\$50,000	
Permits Cost		\$50,000	
Construction/Implementation Cost	\$320,000	\$6,630,000	
Environmental Mitigation/Compliance Cost		\$0	
Construction/Project Management Cost	\$55,000	\$600,000	
Other Cost		\$50,000	\$30,480
Specify Other Cost		Miscellaneous unknown costs	implementation costs
Total Cost	\$450,000	\$8,600,000	\$30,480
Other Considerations			
Disadvantaged Communities			
Address Critical Water Supply and Water Quality Needs		Yes	Yes
Explain how the project addresses critical water supply and water quality needs		Keyes is a DAC	this project directly outreaches to DACs and aids them in identifying and developing projects for inclusion in the ESIRWMP
What Community		Keyes Community Services District	DACs within the region
How were the DACs included in the planning or development of the project?		The project is solely for Keyes CSD	
Native American Tribal Communities			
Address critical water supply and quality needs of Native American Tribal		No	Yes
Explain how address critical water supply and quality needs of Native American Tribal			this project directly outreaches to DACs and aids them in identifying and developing projects for inclusion in the ESIRWMP

Project Summary

Project Information			
proj_id	1340	1342	1346
What tribe(s)?			native American communities in the region
How were the tribe(s) included in the planning or development of the project?			
Climate Change/Greenhouse Gas Emissions			
Does (will) your project consider and/or address the effects of climate change on the region?		Yes	No
How does (will) your project consider and/or address the effects of climate change on the region?			
Does (will) your project reduce greenhouse gas emissions?			
How does (will) your project reduce greenhouse gas emissions?			
Performance, Monitoring and Data Management			
What data will be collected from the project or monitoring of the project?		None	Documentation of outreach; projects identified; communities directly worked with
How will the data be disseminated/shared with the region?			Projects identified and supported will be submitted for inclusion in the IRWMP
How will the data be maintained?			continued ongoing outreach
Project Contact Information			
Primary Contact Name	Thom Clark	Lee Fremming	Leslie Dumas
Primary Contact Agency	City of Hughson	Fremming, Parson & Pecchenino	RMC Water & Environment
Primary Contact Title	Community Development Director	District Engineer	Project Manager
Primary Contact Email	tclark@hughson.org	lfremming@fppeng.com	ldumas@rmcwater.com
Primary Contact Phone	(209) 883-4054 Ext:	(209) 723-2066 Ext:	(925) 627-4100 Ext:
Secondary Contact Name	Bryan Whitemyer	Michelle Harris	Jim Alves
Secondary Contact Agency/Organization	City of Hughson	Keyes Community Services District	City of Modesto
Secondary Contact Title	City Manager	Office Manager	Associate Civil Engineer
Secondary Contact Email	bwhitemyer@hughson.org	mharris@keyescsd.com	jalves@modestogov.com
Secondary Contact Phone	(209) 883-4054 Ext:	(209) 668-8341 Ext:	(209) 571-5557 Ext:
Project Partners	Cities of Turlock, Ceres and Modesto		City of Modesto - City of Hughson, City of Turlock - City of Ceres

Project Summary

Project Information			
proj_id	1340	1342	1346
Other Stakeholders	Water supplier/purveyor - Turlock Irrigation District		
Stakeholder Outreach Description			

Project Summary

Project Information			
proj_id	1347	1348	1349
proj_creatorName	Dumas, Leslie	Dumas, Leslie	Dumas, Leslie
Project Name	Online Data Management System	Regional County Island Sewer Connection Study	Regional Water Needs Assessment
Organization	ESRWMP	ESRWMP	ESRWMP
Project Category	Ready to Proceed	Ready to Proceed	Ready to Proceed
Project Type	Monitoring	Research	Research
Project Description	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.	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.	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.
Pilot/Demonstration Project			
Project Status (% complete)	100	100	100
Project Coordinates_Lat	37.629573	37.629573	37.629573
Project Coordinates_Lng	-120.873962	-120.873962	-120.873962
Map Area			
ESIRWM Regional Goals and Objectives			
Water Supply Objectives			
Provide a variety of water supply sources			✓
Promote the use of groundwater storage and conjunctive use options to reduce groundwater overdraft			✓
Protect existing water rights			
Implement water conservation plans for both urban and agricultural uses			✓
Support monitoring and research to improve understanding of water supplies and needs			✓
Address conveyance infrastructure needs			
Flood Protection Objectives			

Project Summary

Project Information			
proj_id	1347	1348	1349
Develop outlines of regional projects and plans necessary to protect infrastructure			
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			
Provide community benefits beyond flood protection			
Protect/ restore/ and enhance the natural ecological and hydrologic functions			
Water Quality Objectives			
Meet or exceed all applicable water quality regulatory standards			
Deliver agricultural water to meet water quality guidelines established by stakeholders			
Aid in meeting Total Max Daily Loads established for the Tuolumne River watershed			
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			
Promote 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			
Incorporate opportunities to assess/ protect/ enhance/ and/or restore natural resources			
Minimize adverse effects on biological and cultural resources			
Identify opportunities for open spaces/ trails and parks along recreational projects			
Contribute to the long-term sustainability of land uses and activities within the basin			

Project Summary

Project Information			
proj_id	1347	1348	1349
Identify opportunities to protect/ enhance/ or restore habitat to the support all watersheds			
Support projects to understand/ protect/ improve and restore the region's ecological resources			
Regional Communication and Cooper			
Identify and incorporate (where possible and reasonable) opportunities to assess, protect, enhance, and/or restore natural resources when developing water management strategies.			✓
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 agent			
Facilitate dialogues between regional and inter-regional entities to reduce inconsistencies an	✓		
Maintain avenues of communication with the general public and offering opportunities to provide	✓		✓
Identify opportunities for public education about water supply/ water quality/ flood management			
Economic and Social Responsibility O			
Support the participation of disadvantaged communities 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/or use of renewable resources where appropriate.			
Resource Management Strategies			
Reduce Water Demand			Urban Water Use Efficiency

Project Summary

Project Information			
proj_id	1347	1348	1349
Improve Operational Efficiency and Transfers			
Increase Water Supply			Conjunctive Management & Groundwater Storage
Improve Water Quality		Groundwater Remediation/Aquifer Remediation	
Improve Flood Management			
Practice Resource Stewardship	Watershed Management		
Other Strategies			
Statewide Priorities			
Statewide Priorities	Climate Change Response Actions,Improve Tribal Water and Natural Resources	Protect Surface Water and Natural Resources	Drought Preparedness,Use and Reuse Water More Efficiently
Project Benefits			
Primary Benefit	Regional Communication and Cooperation	Water Quality	Water Supply
Explanation of Primary Benefit	This online database will facilities data sharing, promoting data sharing to support decision making.	This project will identify areas in the county that are on septic systems that are currently contributing to or have the potential to contribute to groundwater impacts, and will work to identify solutions to mitigating and remediating, if possible, these groundwater quality impacts.	This project will provide a comprehensive analysis of water demands within the ESIRWM region. It will incorporate the demands of unincorporated areas and areas with less than 3,000 connections (not requiring to complete UWMPs) with those of larger areas in the region to provide a regional assessment of water supply needs. This information will then be used to inform local and regional water supply management programs.
Water Supply Benefits			

Project Summary

Project Information			
proj_id	1347	1348	1349
Water Quality Benefits			
Environmental Benefits			This project will also incorporate the water needs of environmental resources in the evaluation.
Flood/Stormwater Management Benefits			
Community Stewardship Benefits	An online database will facilities regional watershed management		

Project Summary

Project Information			
proj_id	1347	1348	1349
Steps to be taken to Provide multiple benefits			This project includes a public education component, providing important information regarding the importance of water supply conservation and resource management.
Feasibility			
Project Start Date	6/4/2012	6/4/2012	6/4/2012
Planning Status	Completed	Completed	Not Started
Estimated Date of Completion			
Feasibility Status	N/A	Not Started	N/A
Estimated Date of Completion			
Environmental Assessment Status	N/A	N/A	N/A
Estimated Date of Completion			
Pre-Project Monitoring Status	N/A	In Progress	N/A
Estimated Date of Completion			
Design Status	N/A	N/A	N/A
Estimated Date of Completion			
Environmental Permits Status	N/A	N/A	N/A
Estimated Date of Completion			
Building/Order Permits Status	N/A	N/A	N/A
Estimated Date of Completion			
Construction/Implementation Status	N/A	N/A	N/A
Estimated Date of Completion			
Post Project Monitoring Status	N/A	Not Started	N/A
Estimated Date of Completion			
Describe Environmental Permits Required for the Project	no permits are required	No permits are required for this project	This is a study, therefore no permits will be required.
Describe Other Permits (e.g./ Encroachment/ Building) Required for the Project	no permits are required	No permits are required for this project	This is a study, therefore no permits will be required.
Project Workplan/Schedule	Online Data Management System Work Plan.docx,Online Data Management System Schedule.pdf	Regional County Island Sewer Connection Study Work Plan.docx,Regional County Island Sewer Connection Study Schedule.pdf	Regional Water Needs Assessment Work Plan.docx,Regional Water Needs Assessment Schedule.pdf

Project Summary

Project Information			
proj_id	1347	1348	1349
Planning Documents			
Project Costs			
Total Project Cost	\$100,200	\$95,515	\$78,255
Local Funded			
Funded through existing grants			
Currently Unfunded	\$100,200	\$95,515	\$78,255
Project Cost Breakdown			
Land Purchase/Easement			
Planning Cost		\$95,515	\$78,255
Project Design Cost			
Environmental Review Cost			
Permits Cost			
Construction/Implementation Cost			
Environmental Mitigation/Compliance Cost			
Construction/Project Management Cost			
Other Cost	\$100,200		
Specify Other Cost	database software purchase, data input and intranet mounting		
Total Cost	\$100,200	\$95,515	\$78,255
Other Considerations			
Disadvantaged Communities			
Address Critical Water Supply and Water Quality Needs	Yes	Yes	Yes
Explain how the project addresses critical water supply and water quality needs	The online database will provide DACs with data access to allow for project development	Some of the areas to be studied under this project are DACs or are contributing to groundwater quality impacts in areas where there are groundwater wells serving DACs.	This project will document the water supply needs of DACs in the region. This will help to inform them and the ESRWMP regarding projects that may be implemented to ensure long-term water supply reliability for these areas.
What Community	ESIRWM region DACs	Some of the unincorporated county areas are DACs.	DACs in ESRWM region.
How were the DACs included in the planning or development of the project?			They will be incorporated/interviewed as part of the project.
Native American Tribal Communities			
Address critical water supply and quality needs of Native American Tribal	Yes	No	
Explain how address critical water supply and quality needs of Native American Tribal	The online database will provide DACs with data access to allow for project development		This project will document the water supply needs of Native American communities in the region. This will help to inform them and the ESRWMP regarding projects that may be implemented to ensure long-term water supply reliability for these areas.

Project Summary

Project Information			
proj_id	1347	1348	1349
What tribe(s)?	ESIRWM region native American communities		Native American tribes in the ESIRWM region
How were the tribe(s) included in the planning or development of the project?			They will be incorporated/interviewed as part of the project.
Climate Change/Greenhouse Gas Emissions			
Does (will) your project consider and/or address the effects of climate change on the region?	No	No	Yes
How does (will) your project consider and/or address the effects of climate change on the region?			As part of this project, the potential impacts of climate change on water supplies will be considered in evaluating issues regarding water supplies.
Does (will) your project reduce greenhouse gas emissions?			No
How does (will) your project reduce greenhouse gas emissions?			
Performance, Monitoring and Data Management			
What data will be collected from the project or monitoring of the project?	% complete	Groundwater quality data will be collected, along with the identification of the location and construction of private supply wells that may be impacted by septic systems.	Data collected as part of the project will be compiled into a report at the end of the project. This report will be publically available once completed.
How will the data be disseminated/shared with the region?	online data access	The data will be incorporated into a report that will be publically available.	The report resulting from the project will be publically available and posted on the ESIRWM website.
How will the data be maintained?	ESIRWMP administrator	This is a one-time data collection activity; therefore, no data will require maintenance.	This is a one-time data collection activity. No data maintenance will be required.
Project Contact Information			
Primary Contact Name	Leslie Dumas	Leslie Dumas	Leslie Dumas
Primary Contact Agency	RMC Water & Environment	RMC Water and Environment	RMC Water & Environment
Primary Contact Title	Project Manager	Project Manager	Project Manager
Primary Contact Email	LDumas@rmcwater.com	Ldumas@rmcwater.com	Ldumas@rmcwater.com
Primary Contact Phone	(925) 627-4100 Ext:	(925) 627-4100 Ext:	(925) 627-4100 Ext:
Secondary Contact Name	Jim Alves	Jim Alves	Jim Alves
Secondary Contact Agency/Organization	City of Modesto	City of Modesto	City of Modesto
Secondary Contact Title	Associate Civil Engineer	Associate Civil Engineer	Associate Civil Engineer
Secondary Contact Email	Jalves@modestogov.org	jalves@modestogov.org	JAlves@modestogov.org
Secondary Contact Phone	(209) 571-5557 Ext:	(209) 571-5557 Ext:	(209) 571-5557 Ext:
Project Partners	City of Modesto - City of Turlock, City of Hughson - City of Ceres	Dan Madden - City of Turlock, Jim Alves - City of Modesto, Mike Britton - City of Ceres, Thom Clark - City of Hughson	Jim Alves - City of Modesto, Dan Madden - City of Turlock, Mike Britton - City of Ceres, Thom Clark - City of Hughson

Project Summary

Project Information			
proj_id	1347	1348	1349
Other Stakeholders			
Stakeholder Outreach Description			

Project Summary

Project Information			
proj_id	1350	1351	1359
proj_creatorName	Dumas, Leslie	Koepele, Patrick	Koepele, Patrick
Project Name	Integrated Stormwater Resources Management and Groundwater Augmentation Plan	Dennett Dam Removal	Dos Rios Floodplain and Riparian Habitat Restoration
Organization	ESRWMP	Tuolumne River Trust	Tuolumne River Trust
Project Category	Ready to Proceed	Preliminary Design Complete	Ready to Proceed
Project Type	Plan Development	Infrastructure - Environmental	Infrastructure - Environmental
Project Description	This project will result in an Integrated Stormwater Resource Management and Groundwater Augmentation Plan that will evaluate and describe stormwater management in the region and identify opportunities and projects that will provide flood protection, stormwater management, water supply augmentation, water quality and/or environmental benefits for inclusion in the IRWMP. As part of this project, potential recharge locations will be mapped and opportunities for recharging the groundwater subbasins and/or improving water quality with stormwater runoff management will be identified, thereby providing both stormwater management and water supply benefits. This project will contribute to the region description and aid in the identification of opportunities to develop projects and programs to meet several regional goals (water supply, water quality and flood protection).	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.	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.
Pilot/Demonstration Project			
Project Status (% complete)	100	50	90
Project Coordinates_Lat	37.629573	37.627373	37.600882
Project Coordinates_Lng	-120.873962	-120.987915	-121.160851
Map Area		polygon_drawn_1338850306082.kml	polygon_drawn_1339191644176.kml
ESIRWM Regional Goals and Objectives			
Water Supply Objectives			
Provide a variety of water supply sources	✓		
Promote the use of groundwater storage and conjunctive use options to reduce groundwater overdraft	✓		
Protect existing water rights			
Implement water conservation plans for both urban and agricultural uses			
Support monitoring and research to improve understanding of water supplies and needs			
Address conveyance infrastructure needs			
Flood Protection Objectives			

Project Summary

Project Information			
proj_id	1350	1351	1359
Develop outlines of regional projects and plans necessary to protect infrastructure			
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			✓
Provide community benefits beyond flood protection			✓
Protect/ restore/ and enhance the natural ecological and hydrologic functions			✓
Water Quality Objectives			
Meet or exceed all applicable water quality regulatory standards			
Deliver agricultural water to meet water quality guidelines established by stakeholders			
Aid in meeting Total Max Daily Loads established for the Tuolumne River watershed			
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			
Promote 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 Enhanc			
Incorporate opportunities to assess/ protect/ enhance/ and/or restore natural resources			
Minimize adverse effects on biological and cultural resources			
Identify opportunities for open spaces/ trails and parks along recreational projects		✓	✓
Contribute to the long-term sustainability of land uses and activities within the basin			

Project Summary

Project Information			
proj_id	1350	1351	1359
Identify opportunities to protect/ enhance/ or restore habitat to the support all watersheds	✓	✓	✓
Support projects to understand/ protect/ improve and restore the region's ecological resources		✓	✓
Regional Communication and Cooper			
Identify and incorporate (where possible and reasonable) opportunities to assess, protect, enhance, and/or restore natural resources when developing water management strategies.	✓	✓	✓
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 agent			
Facilitate dialogues between regional and inter-regional entities to reduce inconsistencies an			
Maintain avenues of communication with the general public and offering opportunities to provide			
Identify opportunities for public education about water supply/ water quality/ flood management			✓
Economic and Social Responsibility O			
Support the participation of disadvantaged communities 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/or use of renewable resources where appropriate.			
Resource Management Strategies			
Reduce Water Demand			

Project Summary

Project Information			
proj_id	1350	1351	1359
Improve Operational Efficiency and Transfers			Conveyance Regional/Local
Increase Water Supply	Conjunctive Management & Groundwater Storage		
Improve Water Quality	Pollution Prevention		
Improve Flood Management			
Practice Resource Stewardship	Recharge Area Protection,Watershed Management	Ecosystem Restoration,Water-Dependent Recreation,Watershed Management	Ecosystem Restoration,Water-Dependent Recreation,Watershed Management
Other Strategies			
Statewide Priorities			
Statewide Priorities	Use and Reuse Water More Efficiently,Practice Integrated Flood Management,Protect Surface Water and Natural Resources	Expand Environmental Stewardship,Protect Surface Water and Natural Resources	Expand Environmental Stewardship,Practice Integrated Flood Management,Protect Surface Water and Natural Resources
Project Benefits			
Primary Benefit	Water Supply	Environmental Protection and Enhancement	Environmental Protection and Enhancement
Explanation of Primary Benefit	This projects will identify the ways/projects that will allow stormwater runoff to be captured and used to augment groundwater storage in the underlying groundwater basins.	Improve the environmental resources of the Tuolumne Watershed by removing Dennett Dam and restoring the site for the benefit of anadromous fish migration.	The project will improve 1600 acres of riparian habitat at the confluence of the San Joaquin and Tuolumne Rivers, improving habitat for a number of sensitive species and building on a number of other large conservation initiatives in the San Joaquin Valley, including the San Joaquin Restoration Program, restoration of salmon on the Tuolumne, Merced, and San Joaquin River, restoration at the San Joaquin River National Wildlife Refuge, and enhancement of the Pacific Flyway.
Water Supply Benefits			

Project Summary

Project Information			
proj_id	1350	1351	1359
Water Quality Benefits	Groundwater quality protection and surface water quality protection will be considered as part of the project to evaluate ways to utilize stormwater runoff as a local water resource.		The project will act as a buffer between sensitive river habitat and adjacent farmland by absorbing any agricultural runoff before it enters the river systems and filtering out pollutants in a series of ponds, wetlands, and sloughs.
Environmental Benefits	This project will identify ways to utilize stormwater runoff as a local water resource, including the use of stormwater runoff to augment environmental water needs.		
Flood/Stormwater Management Benefits	This project will evaluate ways to utilize stormwater runoff as a local water resource. This will be done in the context of preventing or minimizing flooding impacts from stormwater runoff.		The project will also serve as a model non-structural flood management project by providing transitory floodwater storage for up to 10,000 ac-ft of floodwaters and reducing peak flows to places as far downstream as Lathrop and Stockton. The project will contribute to the goals of the FloodSafe California program, and will build on the non-structural flood control project being developed at the San Joaquin River National Wildlife Refuge.
Community Stewardship Benefits		Improve public safety and recreation opportunities by removing a significant hazard on the Tuolumne River. The dam has caused several drownings over the past several years.	The project will provide public access and recreation to both the San Joaquin and Tuolumne Rivers for hiking, fishing, canoeing and kayaking, and other similar activities. Additionally, many of the restoration activities will be accomplished through volunteer community restoration days, where people will have the opportunity to plant trees and undertake other related work. Finally, the site will be heavily used as an "outdoor classroom" for the Tuolumne River Trust's Trekking the Tuolumne education program for 4th and 5th graders. Trekking the Tuolumne is an award-winning State standards-based environmental education program.

Project Summary

Project Information			
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Steps to be taken to Provide multiple benefits		To date we have completed a Basis of Design Report and Identified our Preferred Approach to removing the dam. We are currently meeting with regulatory agencies to discuss the project and incorporate permitting concerns into the final project design.	We recently purchased the Dos Rios Ranch and will embark on restoration, community stewardship, and education activities this fall. Funding from multiple sources guarantees the project will provide the multiple benefits described above.
Feasibility			
Project Start Date	6/4/2012	10/1/2010	8/1/2005
Planning Status	Not Started	In Progress	Completed
Estimated Date of Completion		9/28/2012	
Feasibility Status	N/A	Completed	Completed
Estimated Date of Completion			
Environmental Assessment Status	N/A	In Progress	In Progress
Estimated Date of Completion		10/31/2012	10/1/2012
Pre-Project Monitoring Status	N/A	N/A	N/A
Estimated Date of Completion			
Design Status	N/A	In Progress	In Progress
Estimated Date of Completion		12/31/2012	10/1/2012
Environmental Permits Status	N/A	Not Started	In Progress
Estimated Date of Completion		6/28/2013	10/1/2012
Building/Order Permits Status	N/A	N/A	N/A
Estimated Date of Completion			
Construction/Implementation Status	N/A	Not Started	Not Started
Estimated Date of Completion		9/30/2014	12/29/2017
Post Project Monitoring Status	N/A	Not Started	Not Started
Estimated Date of Completion		9/30/2015	6/1/2020
Describe Environmental Permits Required for the Project	As this is a study, no permits will be required.	USACE Section 404/Section 10 RWQCB Section 401 Water Quality Certification CDFG Section 1601 Streambed Alteration Agreement CVFPB Encroachment Permit NMFS Section 7 Consultation USFWS Section 7 Consultation State Lands Commission Lands Lease OHP Section 106 Consultation SWRCB Section 402 Stormwater Permit SJVAPCD Rule 8021 for Construction	NMFS Section 7 Consultation DFG Section 1600 Streambed Alteration Permit
Describe Other Permits (e.g./ Encroachment/ Building) Required for the Project	As this is a study, no permits will be required.		Flood Control Board Encroachment Permit
Project Workplan/Schedule	Integrated Stormwater Resources Management and GW Augmentation Plan Work Plan.docx, Integrated Stormwater Resource Management and GW Augmentation Plan Schedule.pdf	Dennett Dam Schedule.pdf	

Project Summary

Project Information			
proj_id	1350	1351	1359
Planning Documents		Draft Dennett Dam Removal_BOD_MAY_2012.pdf	
Project Costs			
Total Project Cost	\$267,835	\$780,000	\$32,000,000
Local Funded		\$100,000	\$300,000
Funded through existing grants		\$115,000	\$28,000,000
Currently Unfunded	\$267,835	\$565,000	\$3,700,000
Project Cost Breakdown			
Land Purchase/Easement			\$22,000,000
Planning Cost	\$267,835	\$50,000	\$100,000
Project Design Cost		\$55,000	\$100,000
Environmental Review Cost		\$50,000	\$50,000
Permits Cost		\$50,000	\$50,000
Construction/Implementation Cost		\$400,000	\$9,000,000
Environmental Mitigation/Compliance Cost		\$100,000	
Construction/Project Management Cost		\$75,000	\$700,000
Other Cost			
Specify Other Cost			
Total Cost	\$267,835	\$780,000	\$32,000,000
Other Considerations			
Disadvantaged Communities			
Address Critical Water Supply and Water Quality Needs	Yes	No	No
Explain how the project addresses critical water supply and water quality needs	Project to manage and reuse stormwater runoff will be identified. These projects will both reduce potential stormwater runoff impacts to DACs and provide groundwater recharge benefits, which will help augment groundwater supplies and positively impact local wells.		
What Community	DACs within the ESIRWM region.		
How were the DACs included in the planning or development of the project?			
Native American Tribal Communities			
Address critical water supply and quality needs of Native American Tribal	Yes	No	No
Explain how address critical water supply and quality needs of Native American Tribal	Project to manage and reuse stormwater runoff will be identified. These projects will both reduce potential stormwater runoff impacts to local Native American communities and provide groundwater recharge benefits, which will help augment groundwater supplies and positively impact local wells.		

Project Summary

Project Information			
proj_id	1350	1351	1359
What tribe(s)?	Native American Communities in the ESIRWM region		
How were the tribe(s) included in the planning or development of the project?			
Climate Change/Greenhouse Gas Emissions			
Does (will) your project consider and/or address the effects of climate change on the region?	Yes	No	Yes
How does (will) your project consider and/or address the effects of climate change on the region?	Because the basis of this project is stormwater management, the effects of climate change on the timing and magnitude of stormwater runoff will be considered.		By providing additional transient floodwater storage to accommodate more frequent flooding.
Does (will) your project reduce greenhouse gas emissions?	No	No	Yes
How does (will) your project reduce greenhouse gas emissions?			The replanted riparian forest will absorb greenhouse gasses.
Performance, Monitoring and Data Management			
What data will be collected from the project or monitoring of the project?	Data collected as part of the project will be incorporated into a project report that will be publically available.	Historical Data, Sediment Toxicological information	vegetation growth/success, bird usage, fish utilization
How will the data be disseminated/shared with the region?	The report prepared at the conclusion of this project will be publically available and will be posted on the ESIRWM website.	internet	web, email, conferences, publications
How will the data be maintained?	This is a one-time data collection effort; therefore, there will not be data that will require maintenance.	consultant	in-house data management system
Project Contact Information			
Primary Contact Name	Leslie Dumas	Patrick Koepele	Patrick Koepele
Primary Contact Agency	RMC Water & Environment	Tuolumne River Trust	Tuolumne River Trust
Primary Contact Title	Project Manager	Deputy Executive Director	Deputy Executive Director
Primary Contact Email	Ldumas@rmcwater.com	patrick@tuolumne.org	patrick@tuolumne.org
Primary Contact Phone	(925) 627-4100 Ext:	(209) 588-8636 Ext:	(209) 588-8636 Ext:
Secondary Contact Name	Jim Alves	Eric Wesselman	Julie Rentner
Secondary Contact Agency/Organization	City of Modesto	Tuolumne River Trust	River Partners
Secondary Contact Title	Associate Civil Engineer	Executive Director	San Joaquin Regional Director
Secondary Contact Email	JAlves@modestogov.org	eric@tuolumne.org	jrentner@riverpartners.org
Secondary Contact Phone	(209) 571-5557 Ext:	(415) 882-7252 Ext:	(209) 521-1700 Ext: 23
Project Partners	Jim Alves - City of Modesto, Dan Madden - City of Turlock, Mike Britton - City of Ceres, Thom Clark - City of Hughson		River Partners

Project Summary

Project Information			
proj_id	1350	1351	1359
Other Stakeholders		Local government - Tuolumne River Regional Park JPA, Local government - City of Modesto, Local government - Stanislaus County	
Stakeholder Outreach Description		Met with City of Modesto, Stanislaus County, TRRP to brief staff on the project and receive concerns, comments, etc. Currently meeting with permitting agencies, DFG, USFWS, NOAA Fisheries, etc to explore permitting requirements.	We have conducted extensive outreach and have garnered over 30 letters of support for the project, from Senators Feinstein and Boxer, our local Congressman, Assembly members, County Board of Supervisors, City Councils, and a number of local organizations.