COORDINATED GROUNDWATER MANAGEMENT IN STANISLAUS COUNTY

WAC Recommendations to the Board of Supervisors

Proposed Work Plan for FY 2014/15 through FY 2018/19

(Draft - 6/3/2014)

Governance Elements	FY2014/15			FY2015/16			FY2016/17			FY2017/18			FY2018/19		
	Consultant	Staff Labor		Consultant	Staff Labor		Consultant	Staff Labor		Consultant	Staff Labor		Consultant	Staff Labor	
		Hours	Cost		Hours	Cost		Hours	Cost		Hours	Cost		Hours	Cost
Governance (G-1) Participate in the development and adoption of a Groundwater Management Plan (GMP) for Stanislaus County. The effort will be supported by the extensive amount of existing information contained in the existing GMP's. In addition, *it is recommended that the County adopt all existing GMP's that have been devloped to date in Stanislaus County.*	$60,000	160	$14,720	$0	240	$22,080	$0	0	$0	$0	0	$0	$0	0	$0
Governance (G-2) Adopt General Plan (cities and County) changes to protect groundwater recharge areas and to manage or mitigate land use that has an impact on groundwater use and quality. A significant amount of coordination work will be required with all of the agencies within the County (this assumes 'recharge areas of interest' have already been identified under T-1).	$0	120	$11,040	$0	120	$11,040	$0	0	$0	$0	0	$0	$0	0	$0
Governance (G-3) Evaluate existing IRWMP's with regard to their relevance to sustainable groundwater management activities that enhance water supply and protects water quality. This will involve meetings and project development work with the IRWMP Project Manager and Steering Committee to possibly incorporate certain tasks from this Work Plan's Scope into the existing IRWMP document as a stand-alone 'Project' in order to be eligible for future State and/or Federal grants.	$0	120	$11,040	$0	0	$0	$0	0	$0	$0	0	$0	$0	0	$0

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Governance (G-4) Discuss and develop alternate institutional mechanisms for integrated groundwater management strategies with the existing groundwater management planning agencies and associations. This will involve a number of meetings on groundwater management strategies with the Groundwater Subbasin Associations and their member agencies (urban and agricultural interests). The concept of Local Groundwater Management Entities (LGME) is being fostered by the California Water Foundation and has gained traction with the Governor's Office.	$0	240	$22,080	$0	0	$0	$0	40	$3,680	$0	25	$2,300	$0	25	$2,300
Governance (G-5) Systematically evaluate and integrate existing Urban Water Management Plans, Agricultural Water Management Plans, and Groundwater Management Plans into a single, integrated, county-wide water management plan focused on sustainable groundwater management programs, practices and projects and which includes robust performance metrics and implementation schedule.	$0	0	$0	$75,000	250	$23,000	$75,000	250	$23,000	$0	0	$0	$0	0	$0
Enforcement Elements	**Consultant**	**Staff Labor Hours**	**Staff Labor Cost**	**Consultant**	**Staff Labor Hours**	**Staff Labor Cost**	**Consultant**	**Staff Labor Hours**	**Staff Labor Cost**	**Consultant**	**Staff Labor Hours**	**Staff Labor Cost**	**Consultant**	**Staff Labor Hours**	**Staff Labor Cost**
Enforcement (E-1) Revise the existing Stanislaus County Groundwater Ordinance to address unsustainable groundwater extraction and other identified enforcement provisions.	$0	40	$3,680	$0	0	$0	$0	0	$0	$0	0	$0	$0	0	$0
Enforcement (E-2) Establish agreed upon groundwater management mechanisms to sustainably manage the groundwater resource.	$0	0	$0	$0	0	$0	$0	0	$0	$0	0	$0	$0	300	$27,600
Funding Elements	**Consultant**	**Staff Labor Hours**	**Staff Labor Cost**	**Consultant**	**Staff Labor Hours**	**Staff Labor Cost**	**Consultant**	**Staff Labor Hours**	**Staff Labor Cost**	**Consultant**	**Staff Labor Hours**	**Staff Labor Cost**	**Consultant**	**Staff Labor Hours**	**Staff Labor Cost**
Funding (F-1) Evaluate and recommend alternatives for relief funding related to domestic well impacts (linked to element T-2).	$0	40	$3,680	$0	0	$0	$0	0	$0	$0	0	$0	$0	0	$0
Funding (F-2) Evaluate the existing East Stanislaus Integrated Regional Water Management Plan (IRWMP) with regard to its relevance as a potential funding mechanism (in particular Proposition 84 or funds identified for such in the Governor's Water Bond) for any of the qualifying activities included in this Work Plan. Linked to G-3.	$0	80	$7,360	$0	0	$0	$0	0	$0	$0	0	$0	$0	0	$0

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Thresholds Elements	Consultant	Staff Labor Hours	Staff Labor Cost	Consultant	Staff Labor Hours	Staff Labor Cost	Consultant	Staff Labor Hours	Staff Labor Cost	Consultant	Staff Labor Hours	Staff Labor Cost	Consultant	Staff Labor Hours	Staff Labor Cost
Thresholds (T-1) Obtain technical information and develop the planning and policy needs to protect and enhance groundwater recharge opportunities. This would include numerous Planning Commission, Council Committee, Council, and Board meetings with the various agencies in the County.	$0	0	$0	$0	0	$0	$0	160	$14,720	$0	0	$0	$0	0	$0
Thresholds (T-2) Provide technical evaluation and analysis procedures that address the issue of groundwater users that have lost their ability to pump groundwater ("dry well"). This will further involve exploring federal/state/local relief funding mechanisms available to the County. This item is directly tied to item F-1.	$0	80	$7,360	$0	0	$0	$0	0	$0	$0	0	$0	$0	0	$0
Thresholds (T-3) Evaluate long-term groundwater elevation trends to establish an acceptable range (maximum/minimum/average) of fluctuation of groundwater levels (aquifer specific) that supports sustainable management. This activity is linked to E-2. This will involve the statistical analysis of long-term water level trends and numerous meetings with the Groundwater Subbasin Associations and their member agencies.	$0	0	$0	$0	0	$0	$30,000	220	$20,240	$30,000	200	$18,400	$0	0	$0
Monitoring Elements	**Consultant**	**Staff Labor Hours**	**Staff Labor Cost**	**Consultant**	**Staff Labor Hours**	**Staff Labor Cost**	**Consultant**	**Staff Labor Hours**	**Staff Labor Cost**	**Consultant**	**Staff Labor Hours**	**Staff Labor Cost**	**Consultant**	**Staff Labor Hours**	**Staff Labor Cost**
Monitoring (M-1) Map the location (geography and aquifer zone) of all available groundwater well facilities. Such mapping (GIS format) must protect private property rights and be consistent with all state/federal regulations pertaining to confidentiality disclosure issues such as public security. This will include the compilation and mapping (GIS format) of all available well completion reports available from DWR, County records and well drillers.	$60,000	220	$20,240	$50,000	40	$3,680	$30,000	40	$3,680	$0	0	$0	$0	0	$0
Monitoring (M-2) Develop a centralized database and information management system needed to collect, store and retrieve county-wide groundwater data pertaining to well facilities, water levels and groundwater pumping information, in addition to other pertinent information.	$60,000	200	$18,400	$20,000	80	$7,360	$0	80	$7,360	$0	140	$12,880	$0	40	$3,680
Monitoring (M-3) Enhance the County water well permitting process to provide more meaningful information regarding groundwater management.	$0	80	$7,360	$0	0	$0	$0	0	$0	$0	0	$0	$0	0	$0

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Monitoring (M-4) Develop a County-wide groundwater level monitoring network that is coordinated across the various groundwater subbasins, County boundaries (Merced and San Joaquin) and is conformable with exsiting monitoring networks such as the DWR CASGEM program. A significant amount of coordination work will be required with all of the public agencies and participating *voluntary private landowners* within the County.	$0	120	$11,040	$0	100	$9,200	$0	40	$3,680	$0	40	$3,680	$0	40	$3,680
Monitoring (M-5) Develop a reliable accounting system to measure aggregated monthly groundwater usage (to the nearest agreed upon geographic area unit) from public agencies *and private landowners* while protecting private property rights and public security disclosure issues.	$0	120	$11,040	$0	20	$1,840	$0	20	$1,840	$0	20	$1,840	$0	20	$1,840
Monitoring (M-6) Develop a Groundwater Data Policy that establishes methodologies to receive data from private parties and to respond to data requests that ensures the confidentiality of the data submitted and maintained.	$0	80	$7,360	$0	0	$0	$0	0	$0	$0	0	$0	$0	0	$0
TOTAL	$180,000	1700	$156,400	$145,000	850	$78,200	$135,000	850	$78,200	$30,000	425	$39,100	$0	425	$39,100
ANNUAL TOTAL	$336,400			$223,200			$213,200			$69,100			$39,100		
FINAL COST	$881,000														

NOTES:

The estimated 'staff time' cost of $92/hr for the Water Resources Manager Position. Groundwater Management Program WRM labor distribution: Year 1 @ full-time, Years 2 & 3 @ half-time, Years 4 & 5 @ 1/4 time. (Using 1,700 productive hours/year = 100%)

The Work Plan does not include any environmental review (CEQA) or public outreach work.