

**Appendix J: Project Submittal Form** 



# Antelope Valley Integrated Regional Water Management Plan Call for Projects Project Identification Form

Note: Please refer to the Department of Water Resources, Integrated Regional Water Management, Proposition 84 and 1E Guidelines, November 2012 for additional information about the items requested below (<a href="http://www.water.ca.gov/irwm/grants/docs/Guidelines/GL">http://www.water.ca.gov/irwm/grants/docs/Guidelines/GL</a> 2012 FINAL.pdf).

General Information			
Project Name:			
Project Sponsor:			
Has Project Sponsor Adopted or will ad	dopt the AV IRWMP?		
If joint Project, Other Partners:			
Project Contact Person:			
Phone:	FAX:	Email:	
Project Description			
Project Description (1-2 Sentences):			
	project does or could integrate with other pordinated implementation or operation)		the Region by describing synergies or linkages between projects
Project Source (Cite plan(s) that descr	ibe or develop the Project (e.g., Waters	hed Master	Plan, Recycled Water Master Plan, etc.)):
Project Location			
Description of Project Location:			
Latitude/Longitude - info available at: h	http://geocoder.us	_at:	Long:
Project Benefits (please provide a bri	ef description and quantified benefits, if	favailable)	
Water Supply: New Supply Created = _	AFY or Check One: 1-10	00 AF 🔲	100-1,000 AF
Water Quality improved:	Area Drained and/or:		Volume Treated:
Public Access, Open Space, Habitat, F	Recreation (acres created/restored):		
Does the Project Offset Water Supply	from the Sacramento-San Joaquin Delt	a:	
Does the Project provide flood manage	ement/protection?		
Does the Project reduce energy consu	mption?		
Does the Project reduce greenhouse g	gas (GHG) emissions?		
Other (Describe "x" Amount of Benefit)	y:		

## A. Indicate how the Project contributes to the IRWM Plan objectives

Select the IRWM Plan objectives the project will help to achieve in the table below.

Objectives	Select
Water Supply	
Provide reliable water supply to meet the Antelope Valley Region's expected demand between now and 2035	
Establish a contingency plan to meet water supply needs of the Antelope Valley Region during a plausible disruption of SWP deliveries	
Stabilize groundwater levels	
Water Quality	
Provide drinking water that meets regulatory requirements and customer expectations	
Protect and maintain aquifers	
Protect and maintain natural streams and recharge areas	
Maximize beneficial use of recycled water	

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Flood Management	
Reduce negative impacts of stormwater, urban runoff, and nuisance water	
Optimize the balance between protecting existing beneficial uses of stormwater and capturing stormwater for new uses	
Environmental Resources Management	
Preserve open space and natural habitats that protect and enhance water resources and species in the Antelope Valley Region	
Land Use Planning/Management	
Maintain agricultural land use within the Antelope Valley Region	
Meet growing demand for recreational space	
Improve integrated land use planning to support water management	
Climate Change	
Mitigate against climate change	

# B. How the Project is related to Resource Management Strategies (as defined by the California Water Plan Update 2009)

Select the Resource Management Strategies the Project will employ to help meet the IRWM Plan objectives.

Resource Management Strategies	Select
Reduce Water Demand	<u> </u>
Agricultural water use efficiency	
Urban water use efficiency	
Improve Operational Efficiency and Transfers	<b>-</b>
Conveyance-delta	
Conveyance-regional/local	
System reoperation	
Water transfers	
Increase Water Supply	
Conjunctive management & groundwater	
Desalination	
Precipitation enhancement	
Recycled municipal water	
Surface storage – CALFED	
Surface storage – regional/local	
Improve Water Quality	·
Drinking water treatment and distribution	
Groundwater and aquifer remediation	
Matching water quality to use	
Pollution prevention	
Salt and salinity management	
Urban runoff management	
Practice Resources Stewardship	
Agricultural lands stewardship	
Economic incentives (Loans, grants, and water pricing)	
Ecosystem restoration	
Forest management	
Land use planning and management	
Recharge areas protection	
Water-dependent recreation	
Watershed management	
Improve Flood Management	
Flood risk management	
Other	
Crop idling for water transfers	
Dewvaporation or atmospheric pressure desalination	

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Resource Management Strategies	Select
Fog collection	
Irrigated land retirement	
Rainfed agriculture	
Waterbag transport/storage technology	

#### C. Technical Feasibility of the Project

Provide a list of studies/reports/documents that have been prepared for the Project:

Explain why there is sufficient technical documentation to support each of the benefits claimed above:

Describe the level of information known about the geologic conditions, hydrology, ecology or other aspects of the system where the project is located:

Explain data gaps that require additional studies to be developed for the project:

#### D. Specific Benefits to Critical DAC Water Issues

Describe how the Project addresses water supply and water quality needs of Disadvantaged Communities (DACs)<sup>1</sup>:

#### E. Specific Benefits to Critical Water Issues for Native American Tribal Communities

Describe how the Project addresses water supply and water quality needs of Native American tribal communities:

## F. Environmental Justice Considerations<sup>2</sup>

Explain any environmental justice issues related to implementation of the Project:

G. Project Costs and Financing
Estimated capital costs: \$ or check rough estimate:
Estimated Project annual operations and maintenance costs: \$
Estimated year of construction and year of Project startup:
Provide a copy of (or link to) the cost estimate, if available:
Explain funding sources/financing for the Project (e.g., State funding, regional assessments, CIP, etc.):
H. Economic Feasibility
Has a cost-effectiveness or benefit-cost analysis been performed for the Project?
Provide a copy of (or link to) the economic analysis, if available:
I. Project Status (i.e., readiness to proceed)
Project Status (Check one): Conceptual Design Ready for Construction CEQA Compliance
J. Strategic Considerations for IRWM Plan Implementation
Can the Project be integrated with other regional projects?
K. Contribution of the Project in Adapting to the effects of Climate Change
Explain how the Project addresses climate change:

Has any kind of climate change analysis been completed? If so, please provide a copy of (or link to) the analysis:

L. Contribution of the Project in Reducing GHG Emissions as Compared to Project Alternatives

Explain how the Project will aid the IRWM region in reducing GHG emissions:

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<sup>&</sup>lt;sup>1</sup> Disadvantaged Communities are defined as communities with an annual mean household income that is less than 80 percent of the Statewide annual median household income

<sup>&</sup>lt;sup>2</sup> Environmental justice seeks to redress inequitable distribution of environmental burdens (i.e., pollution, industrial facilities) and access to environmental good (i.e., clean water and air, parks, recreation, etc.).





**Appendix K: Project List** 



Sta	tus	Sponsor	General Information	Project Location	Scoring Criteria	General	Description	Location	Project Description	Project Benefits		IRWMP Objectives	
I = Implementation	C = Conceptual			(1) Description of location (2) Lat & Long	Implementation/C onceptual Study/Report		Y or N	Y or N		Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits score	Objectives 1 point each	Objs Score
		Conservancy	Watershed Assessment Plan Sponsor: Antelope Valley Conservancy Contact: Wendy Reed Phone: (661) 943-9000 Email: avconservancy@yahoo.com	Antelope-Fremont Valleys Watershed and upper Santa Clara River Watershed.	Study/Report	Y	Y	Y	Watershed and upper Santa Clara River Watershed.	3 - <u>2.000 acres open</u> space habitat/conservation lands. This has proven unrealistic to fulfill because lead agencies are not fulfilling (a) their mitigation responsibilities (Sanitation District of LA County	3	ENV: Preserve open space and natural habitats that protect and enhance water resources and species in the Antelope Valley Region.	1
	1	Water Storage	Project Name: Antelope Valley Water Sank Sponsor, Antelope Valley Water Storage Contact: Mark Beubler, General Manager, Antelope Valley Water Bank Phone 33:60-4829 Email: 38-804-829 Email: 38-804-829 Email: 38-804-829 Mutual Water Co., Semitropic Water Storage District.		Implementation	Y	Υ	٧	The Antelope Valley Water Bank will provide 500,000 AFV of storage in the Nemends Subbasin of the Antelope Valley Basin and the ability to recharge and recover 100,000 AFV. This storage could be used to regulate supplies on a second and year-to-year basis by storing water when it is plentful for later use when needed. The project is strategically located near imported water supply wheeling infrastructure I unile from AVEX West Feeder and 8 miles from East Branch of the SWP California Aqueduct) providing a geographically logical means to store and regulate supplies.  Phase 2 planned for new two-way pipeline to east branch wells and booster station, recharge 350 cfs, recovery 250 cfs.	3 - Water Quality from soil aquifer storage 2 - Future offset of water supply from	12	WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Estab. A plan to meet supply needs of AV during a disruption of SWP deliveries.  WQ: Provide drinking water that meets regulatory requirements and customer expectations.  WQ: Protect and maintain aquifers  LU: Maintain agricultural land use within the AV Region  LU: Improve integrated land use planning to support with maintain aquifers  LU: Migrate against climate change	7

Resource Management Stra	tegies	DAC Benefits	Total Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate been prepared?	of construction & start-up	Potential funding / financing sources	Technical Feasibility		oject Information			
Strategies (1 per Resource Management Strategy)	RMS Score	Score (0 = no; 3 = yes)		Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Ecosystem Restoration Forest Management Watershed Management	3	3	10	Y	n/a	n/a	Yes	Complete	n/a	n/a			Yes		
Conveyance - Regional/local Conjunctive Management & Groundwater Drinking Water Treatment and Distribution Land Use Planning and Management	4	3	26	Y			Yes	Complete			Project could be integrated with other water banks such as Amargosa, Littlerock and WSSP-2.		Yes		

St	atus	Sponsor	General Information	Project Location	Scoring Criteria	General	Des cription	Location	Project Description	Project Benefits		IRWMP Objectives	
noite transminut - I	C = Conceptual			(1) Description of location (2) Lat & Long	Implementation/C onceptual Study/Report	Y or N	Y or N	Y or N		Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits score	Objectives 1 point each	Objs Score
	1		Project Name: Water Supply Stabilization Project — Westside Project (WSSP-2) Sponsor: AVEC Contact: Dwayne Chisam Phone: 661-943-3201 Email: dohisam@avek.org		Implementation	Υ	γ		The project is an imported water stabilization program that utilizes SWP water delivered to the Antelope Valley Region's Weststafe for groundwater recharge and supplemental supply required for the Antelope Valley Region during summer peaking demand and anticipated dry years. This project includes additional facilities necessary for the delivery of untreated water for direct recharge (percolation basins) or and/rect (in-level precharge and for wells and pipeline for treated water conveyance.	Supply 5,000 AFY to 10,000 AFY     3 - 15 acres open space     2 - 20 acres flood management.     2 - Future offset of water supply from Sacramento-San Joaquin Delta     1 - Reduce energy of transporting delta water	11	WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Stabl. Aplan to meet supply needs of AV during a disruption of SWP deliveries.  WS: Stabilize groundwater levels  WG: Provide drinking water that meets regulatory requirements and customer expectations.  WG: Provide and maintain aquiffers  FLD: Reduce negative impacts of stormwater, urban runoff, and nuisance water.  UL: Maintain agricultural land use within the AV Region  UL: Improve integrated land use planning to support water management  CC: Mitigate against climate change	9
	_		Project Name: Solar Power System at K-8 Division Sponsor: LACVD 40 Contact: Iwen Tseng Phone: (626) 300-4688 Email: Itseng@dpw.lacounty.gov	Avenue K-8 and Division Street in Lancaster	Implementation	Y	Y	Y	The system is a 350-killowatt ground mounted single-asis tracker solar photovoltals system, expected to produce 760,000 kilowatt-hours per year. The panels will power the three groundwater wells and four booster pumps on that site. The solar photovoltaic panels will be installed at a 2.5 acre Waterworks facility at Avenue K-8 and Division Street in Lancaster	Reduce long-term energy costs at the site and reduce green house gas emissions.	1	CC: Mitigate against climate change.	1
			Project Name: Quartz Hill Storm Drain Sponsor: Laby Contact: Russ Bryden Phone: (£26) £48-4334 Email: rbryden@dpw.lacounty.gov	Soft Street, from Avenue M-8 to Avenue K-8	Implementation	٧	٧		As such, the project proposes construction of a storm drain, including several lateral connections and catch basins, to provide stormwater collection and conveyance. The project would connect to existing and new drainage facilities, with the improvements located mainly along 50th Street, from Avenue M-8 to Avenue K-8.	Flood protection of 95 acres of County street right-of-way, and 1,108 acres of private property.	1	FLD. Reduce negative impacts of stormwater, urban- runoff, and nuisance water.	1
	_		Project Name: Lancaster WRP Effluent Management Sites Sponsor: LACSD Contact: Phone: Email:		Implementation	Y	Y	Y	This project includes the following series of activities at proposed new effluent management stee: land acquisition, purchase and installation of irrigation equipment, development of an area wide farm management plan, site development, completion of associated studies and permits, soil sampling, and well investigation of proposed effluent management sites.	3 - Reduces further elevation of nitrate levels at management sites	3	WQ: Protect and maintain aquifers  WQ: Maximize beneficial use of recycled water	2

Resource Management Strat	tegies	DAC Benefits	Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate been prepared?		Potential funding / financing sources	Technical Feasibility		Additional Pro	eject Information		
Strategies (1 per Resource Management Strategy)	RMS Score	Score (0 = no; 3 = yes)		Y = Yes											
											Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Conjunctive Management & Groundwater  Drinking Water Treatment and Distribution  Land Use Planning and Management	3	3	26	Υ			Yes	Complete					Yes		
System Reoperation					\$2 Million		Yes	Complete							
	1	0	3	Υ											
Flood Risk Management	1	0	3	Υ	\$9,670,000		Yes	Complete							
Surface Storage - Regional/Local Matching Water Quality to Use	2	3	10	Y			Yes	Complete					Yes		

Status	Sponsor	General Information	Project Location		lera C	otion	ion	Project Description	Project Benefits		IRWMP Objectives	
				Scoring Criteria	Gener	Descripti	Location					
= Implementation C = Conceptual			(1) Description of location (2) Lat & Long	Implementation/C onceptual		Y or N	Y or N		Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits score	Objectives 1 point each	Objs Score
I = Imple C = Co				Study/Report						score		Score
1	LACSD	Project Name: Palmdale WRP Effluent Management Sites Sponsor: LACSD Contact: Phone: Email:		Implementation	Y	Y	Y	This project includes the following series of activities at proposed new effluent management sites: land acquisition, purchase and installation firigation equipment, development of an area wide farm management plan, site development, completion of associated studies and permits, groundwater monitoring, and well abandonment.	3 - Reduces further elevation of nitrate levels at management sites	3	WQ: Protect and maintain aquifers  WQ: Maximize beneficial use of recycled water	2
I	LACSD	Project Name: Lancaster WRP Stage V Sponsor: LACSD Contact: Phone: Email:		Implementation	Y	Υ	Y	The project involves construction and design of a new pump station, storage reservoirs, and other annullary facilities needed to increase effluent storage capacity to 21 mg/ the project also includes land acquisition needed for site development.	Providing approx. 16.1mgd of nitrified, tertiary recycled water     Water Quality benefits	6	MS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Exablish a contingency plan to meet water supply needs of the AV region during a plausible disruption of SW deliveries  WQ: Protect and maintain aquifers  WQ: Maximize beneficial use of recycled water	4
1	LACSD	Project Name: Palmdale WRP Stage V Sponsor: LACSD Contact: Phone: Email:		Implementation	٧	Υ	٧	This phase of the upgrade project includes the following series of activities: construction of an effluent pump station, force main, agricultural recycled water pump station, and an agricultural recycled water storage tank and reservoir; development of the new reservoir ste and installation of monitoring wells, and design and construction of secondary/tertiary treatment facilities.	Providing approx. 9.04 mgd of nitrified, terrlary recycled water     Water Quality benefits		WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Exablish a contingency plan to meet water supply needs of the AV region during a plausible disruption of SVM deliveries  WQ: Protect and maintain aquifers  WQ: Maximize beneficial use of recycled water	4
ı	LACWD 40	Project Name: Aquifer Storage and Recovery Project: Injection Well Development Sponsor: LGVW 40 Contact: Aracely Jaramillo Phone: (626) 300-3333 Email: ajaramillo@dpw.Jacounty.gov		Implementation	Y	Y	N	The project involves the construction of ten new well sites in a groundwater depression area of the Antelope Valley Region to Improve water supply reliability. The additional wells would be available for water injection during wet years and for water extraction during dry years.	3 - 12,000 AFY of supply	3	WS. Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to to CC.  WS: Est. a contingency plan to meet water supply needs of the AV Region during a plausible disruption of SWP deliveries.  WS: Stabilize groundwater levels  WC: Provide drinking water that meets regulatory requirements and customer expectations.  WC: Protect and maintain aquifers	5

Resource Management Strategies DAC Benefits					Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate	Estimated years of construction	Potential funding / financing sources	Technical Feasibility		Additional Pro	eject Information		
			Score	Complete?	Capital Costs	Oddwi Costs	been prepared?	& start-up	illiancing sources						
Strategies (1 per Resource Management Strategy)		Score (0 = no; 3 = yes)					prepareur								
	RMS Score			Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Surface Storage - Regional/Local  Matching Water Quality to Use	2	3	10	Y			Yes	Complete					Yes		
Recycled Municipal Water Surface Storage - Regional/Local Groundwater and Aquifer Remediation Matching Water Quality to Use	4	3	17	Y			Yes	Complete					Yes		
Recycled Municipal Water Surface Storage - Regional/Local Groundwater and Aquifer Remediation Matching Water Quality to Use	4	3	17	Y			Yes	Complete					Yes		
Conjunctive Management & Groundwater  Drinking Water Treatment and Distribution	2	3	13	Υ			Yes	Complete					Yes		

Statu	Sponsor	General Information	Project Location		le.	tion	o	Project Description	Project Benefits		IRWMP Objectives	
				Scoring Criteria	Gener	Descripti	Locati					
plementation			(1) Description of location (2) Lat & Long	Implementation/C onceptual		Y or N	Y or N		Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits	Objectives 1 point each	Objs
I=Imple				Study/Report						score		Score
1		Project Name: Aquifer Storage and Recover Project, Additional Storage Capacity Sponsor: LACWD 40 Contact: Aracely Jaramillo Phone: (CSQ) 300-3353 Email: ajaramillo@dpw.lacounty.gov		Implementation	٧	Y	N	This project would increase the District's turnout capacity from AVEK through improvements made to existing infrastructure. Four older, smaller turnout pipelines would be replaced with larger ones to supply water to ASR wells.	3 - Water supply	3	WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS. Est. a contingency plan to meet water supply needs of the AV Region during a plausible disruption of SWP deliveries  WS: Stabilize groundwater levels  WC: Provide drinking water that meets regulatory requirements and customer expectations.	4
		Project Name: North Los Angeles/Kern Conviv Regional Recycled Water Project - Phase 2 Sponsor: LCAVO 80, (I) yof Palmdale Contact: Carolina Hernandez Denote: (Sca) 303-318 Email: chemandez@dpw.lacounty.gov		Implementation	٧	٧	Y	The Los Angeles/Kern County Regional Recycled Water Project outlines the foundation of a regional recycled water system in the Antelope Valley Region. The proposed system would distribute recycled water throughout the service area and provide a backbone system that could accommodate minimum and maximum demands and allow significant deliveries of recycled water to recharge areas. The recommended plans placement of the system components is based on an analysis of the service area demands, topography, and desired operating pressures. Specifically, the proposed system components of the recommended plan consist of recycled water supply, a main pump station, booster pump stations, storage reservoirs, and distribution system. The construction of the recycled water supply, a main pump station, sorting and it is anticipated that all phases of construction would be completed by 2011. Recycled water sures would include municipal medians, agriculture, commercial, golf courses, school yards, and parks as allowed by California Department of Health Services, Division 4, Title 22 (Title 22).	Water supply conveyed     Offset Delta Water     Reduce energy consumption/GHG	9	WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Establish a contingency plan to meet water supply needs of the AV region during a plausible distruption of SWP deliveries.  WQ: Maximize beneficial use of recycled water.  UU: Meet growing demand for recreational space.  CC: Mitigate against climate change.	5
1		Project Name: Partial Well Abandomment of Groundwater Wells for Arsenic Mitigation Sponsor: LACWD 40 Contact: Aracely Jaramillo Phone: (626) 300-3353 Email: ajaramillo@dpw.lacounty.gov		Implementation	Y	Υ	N	This project proposed arsenic mitigation of five groundwater wells using a proven and cost-effective non-treatment alternative to expensive treatment methods. Water Well Nos. 4-43, 4-54, 4-55, 4-56, and 4-59 were modified. Work included replacement of pumps and motors, grout sealing to the lower aquifier layers within the wells; development of foreshortened well columns, aquifer pump testing, water quality sampling; and other incidental and appurtenant work.	Prevents loss of groundwater pumping and existing supply     Ensures water quality that meets MCL requirements.	6	WS. Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WQ. Provide drinking water that meets regulatory requirements and customer expectations.  WQ. Protect and maintain aquifers  CC: Mitigate against climate change	4

Resource Management Strat	tegies	DAC Benefits	Total Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate been prepared?	of construction & start-up	Potential funding / financing sources	Technical Feasibility		Additional Pro	ject Information		
Strategies (1 per Resource Management Strategy)		Score (0 = no; 3 = yes)					prepareu								
	RMS Score			Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Conjunctive Management & Groundwater Groundwater Drinking Water Treatment and Oistribution	2	3	12	Υ			Yes	Complete					Yes		
Conveyance - Regional/local Recycled Municipal Water Matching Water Quality to Use	3	3	20	Υ			Yes	Complete					Yes		
Orinking Water Treatment and Distribution Pollution Prevention	2	0	12	Y	\$642,082		Yes	Complete							

Sta	tus Sponsor	General Information	Project Location		la C	otion	ion	Project Description	Project Benefits		IRWMP Objectives	
				Scoring Criteria	Gener	Descripti	Locat					
entation	e ptual		(1) Description of location (2) Lat & Long	Implementation/C onceptual					Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits	Objectives 1 point each	Objs
I = Implem	C= Conceptual			Study/Report	Y or N	Y or N	Y or N			score		Score
	I LACWD 44	Project Name: North Los Anglets/Rem County Regional Recycled Water Project - Division Street Corridor Sponsor: LACWD 40 Contact: Bamshed vazdani Phone: (651) 945-6880 Email: jyazdani@cityoflancaster.org		Implementation	٧	Y	٧	The Los Angeles/Kern County Regional Recycled Water Project outlines the Foundation of a regional recycled water system in the Antelope Vally Region. The proposed system would distribute recycled water throughout the service area and provide a backhone system that could accommodate minimum and maximum demands and allow significant deliveries of recycled water to recharge areas. The recommended plans placement of the system components is based on an analysis of the service area demands, topography, and desired operating pressures. Specifically, the proposed system components of the recommended plan consist of recycled water supply, a main pump station, booster pump stations, storage reservoirs, and distribution system. The construction of the recycled water supply, a main pump station, booster pump stations, storage reservoirs, and distribution system. The construction of the recycled water supply system would be phased overtime and it is anticipated that all phases of construction would be completed by 2011. Recycled water supply system would be phased overtime and it is anticipated that all phases of construction would be completed by 2011. Recycled water supply system would be phased overtime and it is anticipated that all phases of construction would be completed by 2011. Recycled water supply system would recipate unnicipal medians, agriculture, commercial, golf courses, school yards, and parks as allowed by California Department of Health Services, Division 4, Title 22 (Title 22).	Water supply conveyed     Offset Delta Water     Reduce energy consumption/GHG	9	WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Exablish a contingency plan to meet water supply needs of the AV region during a plausible disruption of SWP deliveries.  WC: Maximize beneficial use of recycled water LU: Meet growing demand for recreational space CC: Mitigate against climate change	5
	I LACWD 46	Project Name: North to S Anglest/Rem County Regional Recycled Water Project - Phase 1b Sponsor: LACWO 40; City of an caraster Contact: Jamshed Yazdan Phone: (EG) 1945-E880 Email: Jyazdani@cityoflancaster.org		Implementation	٧	٧	٧	The Los Angeles/Kern County Regional Recycled Water Project outlines the foundation of a regional recycled water system in the Antelope Valley Region. The proposed system would distribute recycled water throughout the service area and provide a backhone system that could accommodate minimum and maximum demands and allow significant deliveries of recycled water to recharge areas. The recommended plans placement of the system components is based on an analysis of the service area demands, topography, and desired operating pressures. Specifically, the proposed system components of the recommended plan consist of recycled water supply, a main pump station, booster pump stations, storage reservoirs, and distribution system. The construction of the recycled water supply system would be phased overtime and it is anticipated that all phases of construction would be completed by 2011. Recycled water users would include municipal medians, agriculture, commercial, golf courses, school yards, and parks as allowed by California Department of Health Services, Division 4, Title 22 (Title 22).	Water supply conveyed     Offset Delta Water     Reduce energy consumption/GHG	9	WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Establish a contingency plan to meet water supply needs of the AV region during a plausible distruption of SWP deliveries  WC: Maximize beneficial use of recycled water  LU: Meet growing demand for recreational space  CC: Mitigate against climate change	5

Resource Management Strat	egies	DAC Benefits	Total		Estimated Project	Estimated	Has a cost	Estimated years	Potential funding /	Technical Feasibility		Additional Pro	ject Information		
			Score	Complete?	Capital Costs	O&M Costs	estimate been		financing sources						
							prepared?	a start up							
Strategies (1 per Resource Management Strategy)		Score (0 = no; 3 = yes)													
	RMS Score			Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Conveyance - Regional/local							Yes	Complete					Yes		
Recycled Municipal Water															
Matching Water Quality to Use															
	3	3	20	Υ											
Conveyance - Regional/local							Yes	Complete					Yes		
Recycled Municipal Water															
Matching Water Quality to Use															
	3	3	20	Υ											

Sta	itus	Sponsor	General Information	Project Location	Scoring Criteria	General	Description	Location	Project Description	Project Benefits		IRWMP Objectives	
l = Implementation	C= Conceptual			(1) Description of location (2) Lat & Long	Implementation/C onceptual Study/Report	Y or N	Y or N	Y or N		Benefits (3-good justification; 2-fair justification; 1-poor justification)	Benefits score	Objectives 1 point each	Objs Score
		Resource Conservation District	Regional Conservation Project Sponsor: Antelope Valley Resource Conservation District Contact: Debra Gillis, AVRCD Phone: (661) 945-2604 Email: debragillis@sbcglobal.net	10143 West Avenue	Implementation	¥	Y	٧	conservation programs and rebates, and resource protection throughout the Antelope Valley. It will provide conservation resources to all water districts small and large, within the Antelope Valley, by providing resources for rebates on SRR, MRR, and CII customers to reduce water use. The project will provide workshops on water conservation, sustainable landscaping, efficient irrigation, flood control, soil	3 - Water demand reduction through rebate programs 3 - 2.0 acres of recreational/open space creation 2 - water conservation, dust control, and flood management (through education) 1 - Use of solar to offset energy use 1 - GHG reduction through planting trees		WS: Provide a reliable water supply to meet the AV Region's expected demand between now and 2035; and adapt to climate change ENV: Preserve open space and natural habitats that protect and enhance water resources and species in the AV.  LU: Meet growing demand for recreational space  LU: Improve integrated land use planning to support water management  CC: Mitigate against climate change.	5

Resource Management Strat	tegies	DAC Benefits	Total Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate been prepared?		Potential funding / financing sources	Technical Feasibility		Additional Pro	eject Information		
Strategies (1 per Resource Management Strategy)	RMS Score	Score (0 = no; 3 = yes)		Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Agricultural Water Use Efficiency Urban Water Use Efficiency Pollution Prevention Economic Incentives Ecosystem Restoration Watershed Management	6	3	24		985,776.00	20K-30K	Yes	2014-2016	sponsors, Southern CA Edison and AVRCD	Practices (BMPs) are listed in the	Yes, the conservation project will become "The Regional Conservation Plan for the Antelope Valley."		YES Will benefit whole AV Region	None	

S	atus	Sponsor	General Information	Project Location	Scoring Criteria	General	Description	Location	Project Description	Project Benefits		IRWMP Objectives	
	C = Conceptual			(1) Description of location (2) Lat & Long	Implementation/C onceptual		Y or N	Y or N		Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits score	Objectives 1 point each	Objs Score
	χ = 2 Σ = 2	A) (F.V.	Doubet Many Fastida Baskins 0	1-1-24224142 251141	Study/Report				The Could Water Device of Division Devices	2. Comply and the 1 000 ATV		NG Special and light constant and Afficience of	Score
			Blending Fruject Sponsor: AVEC Contact: Lowyine Chisam Phones 651-083.301 Email: dchisam@avek.org	Lat 34'31'42.25'N Long: 117'56'25.45'W Long: 117'56'25.45'W Two potential construction staging areas are located west of 116th Street East within the Eastside WTP property. Construction of the proposed project is in anticipated to begin in December 2012 and would take approximately 21 months to complete.	Implementation	Y	γ	Υ	The Eastside Water Banking and Blending Project is an operational water recharge and recovery project providing a supplemental potable source of water for AVEK's existing Eastside Water Treatment Plant. The Project, located in the eastern portion of the Anteloge Valley, would involve the spreading of State Water Project water coming from the California Aqueduct being delivered in to local encharge basins, storing water for future recovery. This alternative potable water supply will be used for periodic substitution or supplementation to the Agency's treatment plant. Up to 3 miles of recharge pipeline, three recharge basins, four recovery wells connected to 1.5 miles of treated water recovery pelled will be constructed on the project site. All pipelines will be installed will be constructed on the project site. All pipelines will be installed underground between AVEK's Eastside plant and the recharge basins and recovery wells. This project is currently being designed with specific benefits to AVEK's customers being addressed with each element of the project. Benefits include the banking of surface water for future recovery and use during for v of roughty years. This will also reclude the need to purchase special "Dry Year Water" at a higher cost. This project will also increase water qualify with the control of Trihalomethane (TMA), a disinfection by product (DRP), as part of the Agency's compliance with new Yange 2 DRP Allues for teased water. The project will provide high quality recovered groundwater for blending with treated surface water.	Water Quality - lower THM formation     Future offset of water supply expected     Reduce energy/GHG from reduction in delta water use	9	W.S. Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  W.S. Estab. A plan to meet supply needs of AV during a disruption of SWP deliveries.  W.S. Stabilize groundwater levels  W.G. Provide drinking water that meets regulatory requirements and customer expectations.  W.G. Protect and maintain aquifers  U.: Improve integrated land use planning to support water management  CC: Mitigate against climate change	7

Resource Management Strati	egies	DAC Benefits	Total Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs		of construction & start-up	Potential funding / financing sources	Technical Feasibility		Additional Pro	ject Information		
Strategies (1 per Resource Management Strategy)	RMS Score	Score (0 = no; 3 = yes)		Y = Yes											
											Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Conjunctive Management & Groundwater Drinking Water Treatment and Distribution Land Use Planning and Management	3	3	22		\$8,990,000	\$115,400	Yes	2014	comination of CIP and State funding	WSSP-21 in western region Studies include the evaluation of studies include the evaluation of alternative methods for the reduction of disinfection by- products (DBPs), the review of historical SWP wester quality as to formation of ThM's within the formation of ThM's within the formation of ThM's within the formation of ThM's within the development of a groundwater indest studying recharge potential, water levels, and quality, until addition, sufficient documentation has been prepared in regarding the feasibility of banking water in the eastside portion of the Valley including studies provided by U.S. Geological Studies and Stetson Engineers (Study of Votential Groundwater Recharge Sites in the Antelope Valley, 2002).			Yes		

St	atus	Sponsor	General Information	Project Location	Scoring Criteria	General	scription	Location	Project Description	Project Benefits		IRWMP Objectives	
no ite ima malami - i	C= Conceptual			(1) Description of location (2) Lat & Long	Implementation/C onceptual Study/Report		YorN			Benefits (3-good justification; 2-fair justification; 1-poor justification)	Benefits score	Objectives 1 point each	Objs Score
	1		Project Name: Water Supply Stabilization Project (VSSP) — Subsilization Project (VSSP) — Spanoor: AVSE Spanoor: AVSE Contact: Duspine Chisam Phone: 651-943-3201 Email: dchisam@avek.org	http://geocoder.u S	Implementation	Υ	γ	Υ	The Water Supply Sabilitation Program (WSSP)—Wistside Expansion would add additional water banding aspectly for the Antelope Valley by increasing the delivery of AVIX's Sate Water Project (SWP) water into the region's western area for groundwater rechange and supply exquired during summer peaking demand and anticipated day years. The project would include sufficient fault and facilities necessary for up to an additional SOU,000 Acre-Feet of water storage used in order to firm up AVEX's annual Table A imported supplies from the State. The project can be livelyingted with other regional water supply projects for increased reliability.	3 - Water Supply - "6,000 AIY  2 - Water Quality - Soil aquifer treatment. Avoilede expansion of Rosamond Treatment Plant  2 - Future offset of water supply from Sacramento-San Joaquin Delta  1 - Reduce energy of transporting delta water	8	MS. Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS. Estab. A plan to meet supply needs of AV during a disruption of SWP deliveries.  WS. Stabilize groundwater levels  WQ: Provide drinking water that meets regulatory requirements and customer expectations  WQ: Providet and maintain aquifers  LU: Maintain agricultural land use within the AV Region  LU: Improve integrated land use planning to support water management  CC: Mitigate against climate change	8

Resource Management Strategies			Total Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs		of construction & start-up	Potential funding / financing sources	Technical Feasibility		Additional Pro	eject Information		
Strategies (1 per Resource Management Strategy)		ore (0 = no; 3 = yes)		Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Water Transfers  Conjunctive Management & Groundwater  Orinking Water Treatment and Distribution  Land Use Planning and Management	4	3	23		>\$10M	To Be Determined	Yes	2016	Funds	within the Antelope Valley (e.g. the	The project can be integrated with other regional projects	None	As a regional project, the WSSF – Western Expansion will benefit the economic development of the whole of the Antelope Valley including the Disadvantage Communities as indicated in the Antelope Valley (RWM Plan.	None	No

Sta	atus	Sponsor	General Information	Project Location		=	lon	5	Project Description	Project Benefits		IRWMP Objectives	
					Scoring Criteria	Genera	Descript	Location					
= mn ementation	C= Conceptual			(1) Description of location (2) Lat & Long	Implementation/C onceptual Study/Report		Y or N	Y or N		Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits score	Objectives 1 point each	Objs Score
	1	AVEK	Project Name: South Antelope Valley intertie Project Intertie Project Intertie Project Spansor: AVEX Contact: Desympt Chisam Phone: 661-943-3201 Email: dollisam@avex.org Potential regional partners include Los Angeles County Waterworks District, Palmidale Water District, and Littlerock Creek Irrigation District.	Quart will / Jancaster / Palmdale area between South feeder and East feeder Lat. 34*38*45.6F*N. Long. 118*0*18.74*W	Implementation	٧	Y	٧	he Southern Anteloge Valley intertile Project will connect the two obtaining treated water pipelines, AVIK'S south Feeder with their Sast feeder to allow for the balancing of imported water supplies in the southern portion of the Anteloge Valley, in addition, this intertile pipeline project could provide the transmission of recovered water from proposed Eastside Banking Project.  And the Project Could provide the transmission of recovered water from proposed to the project could provide the transmission of recovered water from proposed the project could provide the transmission of recovered water from proposed to the cities of Polindale and Lancaster. To correct this inhalance, some groundwater levels are more favorable and the impact of water some groundwater levels are more favorable and the impact of water water groundwater levels are more favorable and the impact of water water groundwater levels are more favorable and the impact of water water water from those preferred areas to the areas of greatest need. The project is further enhanced by its ability to provide the recovery of water previously stored in the Valley's eastside recharge projects. The region's overall treated water distribution system creatures projects. The region's overall treated water distribution system will benefit from greater reliability, giving two joints of supply. WCRE's Quartz Hill Water Testiment Plant a stasside Water supplier's from the AVEK Capital Improvement Plan (CIP), a planning document that list the Agency's significant capital improvements for construction and determines a pecific custed with other regiones to favorable and serve supplier's projects for increasely reliability, with their regiones and serve supplier's projects for increasely reliability with other regiones for construction and determines a pecific custed with other regiones.	Water Quality improved: Better distribution for lower THM formation.      Water Supply		MS: Provide a reliable water supply to meet the AV Region's expected demand between now and 2035; and adapt to climate change MS: Exablish a contingency plan to meet water supply needs of the AV region during a plausible disruption of SWP deliveries WS: Stabilize groundwater levels WG: Provide drinking water that meets regulatory requirements and customer expectations WG: Protect and maintain aquifers LU: Improve integrated land use planning to support water management	6
		AVEK	Project Name: AVEK Strategic Plan Sponsor: AVEK Contact: Dwayne Chisan Phone: 661-943-3201 Email: dchisam@avek.org	info available at http://geocoder.us western side of AV	Study/Report	Y	Υ	٧	The project contains a number of components, including supply. The plan identifies the Water Resources necessary to meet the long-tern meeds of the greater Antelope Valley Region. The Plan will specify the potential sources of water, their quantities, and the required scheduling in order to facilitate an orderly pace to local development; as is also consistent with current land use planning. The Plan will integrate with other regional planning documents by helping to guide future development in identifying the most beneficial projects and incorporating them into a long-term water resource plan for the greater Antelope Valley. Each of these projects will be of greater value as they are linked to the Plan's strategy for greater water supply and reliability. Various regional plans developed from local agencies along with expert reports generated from the current Antelope Valley reconsideration of the support the need for the Antelope Valley Water Resource Strategic Plan.	3 - Identify Water Supply  3 - Plan for offsetting Delta water supply	6	WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Estab. a plan to meet supply needs of AV during a disruption of SWP deliveries  WS: Stabilize groundwater levels  WC: Maximize beneficial use of recycled water  LU: Improve integrated land use planning to support water management  CC: Mitigate against climate change	6

Resource Management Strat	tegies	DAC Benefits	Total Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate been prepared?	Estimated years of construction & start-up	Potential funding / financing sources	Technical Feasibility		Additional Pro	ject Information		
Strategies (1 per Resource Management Strategy)	RMS Score	Score (0 = no; 3 = yes)		Y = Yes							Strategic Considerations	Climate Change	DAC Benefits	Tribal	EJ issues
											•	Benefits		Benefits	
Conveyance - Regional/local System Reoperation Water Transfers Drinking water treatment and distribution	7	3	21		\$17.25 M	Nominal	Yes	2016	at this time, combination of CIP funds and State funding	The historical imbalance of the region's groundwate extraction relative to recharge has been documented in expert reports provided as part of the phase Ill trial of the Antelope Valley Groundwater Cases for basin adjudication.  Information on the Project site geology, soils, and hydrogeology have been provided through AVEK studies of their existing water pipeline alignments, the 2002 Study of 70 Fotontial Recharge sites completed by Stetson Engineers, and previous studies performed in the area by U.S. Geological Studies area by U.S. Geological Studies provided with the expert reports mentioned above. Specific design retrain {e.g. pipeline sizing} would need to be studied and established based on the local water supply demand, hydrology, and geography.	Project could be integrated with other supply projects.	Project would not address climate change	The Project can benefit local backwartaged Communities including Lake Los Angeles and Edgemont Acres.	None	None.
Urban Water Use Efficiency Agricultural Lands Stewardship Watershed Management Recycled Municipal Water Conjunctive Management & Groundwater Surface Storage - Local/Regional Land Use Planning & Management	7	3	22		\$100K-\$1M	None			Support	Benefits demonstrated in various technical documents provided as part of the phase in trial of the Antelope Valley groundwater adjudication.  Support for geology, soils, and hydrogeology provided by various participating agencies' expert proports including the 2002 Study of Potential Recharge sites completed by Setson Engineers, past studies performed in the area by U.S. Geological Studies, and through expert reports as mentioned above.	YES	Not at this time	Yes		

St	atus	Sponsor	General Information	Project Location	Scoring Criteria		escription	Location	Project Description	Project Benefits		IRWMP Objectives	
noite tree mel mul - I	C= Conceptual			(1) Description of location (2) Lat & Long	Implementation/C onceptual Study/Report		YorN			Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits score	Objectives 1 point each	Objs Score
			Project Name: BSD Arenic Management Feasibility Study and Well Design Sponsor: Boron CSD Contact: Natile Dadey Phone: (750) 762-6127 Email:		Study/Report	γ	Y	Υ	The Broon Community Services District (BCSD) Areant Management feasibility Study and Well Design Project consists of developing a hydrology study, preliminary engineering report, pilot well, and production well design to provide a recommended project to BCSD for arsenic management in their groundwater supply. The hydrogeology study will be completed to determine the best site, depth, and testing programs for a pilot test well. The pilot test well will be constructed to determine a recommended depth, screen interval, zone is foliation and construction method for a new production well, assumed to be part of the eventual recommended complete size in the construction treatment may also be identified as part of the Construction Project.	3. Water Quality of Configure Charles (MCL for BCSD customers of Reduction in arenic concentrations in local groundwater supply 3. "Water Supply." Local o Improve Reliability. Replacement of aging wells with new wells with new work of the Configure Reliability. Personal Configure Reliability. Personal Configure Reliability. Personal Configure C	9	WS: Provide a reliable water supply to meet the AV Region's expected demand between now and 2035; and adapt to climate change WS: Exablish a contingency lant to meet water supply needs of the AV region during a plausible disruption of SWP deliveries WQ: Provide drinking water that meets regulatory requirements and customer expectations WQ: Protect and maintain aquifers CC: Mitigate against climate change	5
	I Ci		Soccer Center Recycled Water Conversion Sponsor: City of Lancaster Contact: Carlyle S. Workman Phone: 661-723-6079 Email: cworkman@cityoflancaster.com	City of Lancaster Recycled Water Facilities and Operations Master Plan, RMC January 2006. Lat: 34.664242 degrees Long: - 118.077196 degrees	Implementation	Y	Y	Y	Project consists of constructing a recycled water main from the existing regional backhose in Division Street to Lancater National Soccer Center located on the northwest and northeast corners of Avenue L and 30th Street East and convert the irrigation system to use recycled water. This main extension could also make recycled water available to the Skytower Park and Eastside High School.  Providing recycled water to the National Soccer Center and reducing the groundwater pumped by 500 Acre-feet per year has been identified in the on-going Groundwater Adjudication settlement proposal.	Water Supply: 100-1,000 AF     Offsets Delta water supply     Reduces energy consumption	9	WS: Provide reliable water supply to meet the Antetope Valley Region's expected demand between now and 2035 WS: Stabilize groundwater levels WQ: Maximize beneficial use of recycled water LU: Meet growing demand for recreational space CC: Mitigate against climate change	5
	I Ci		Contact: Carlyle S. Workman Phone: 661-723-6079 Email: cworkman@cityoflancaster.com	Pierre Bain Park is located on approximately 15 acres on the southwest corner of Avenue I and 5th Street East. Lat: 34.70392 degrees Long: -118.121817 degrees	Implementation	Y	Y	Y	Construction of a recycled water main from the existing regional backbone in Division Street to Piere Bain Park located at the southwest corner of Avenue I and 5th Street East and convert the irrigation system to use recycled water. This main extension will also make recycled Water available to the County Medical Center currently under construction on the northeast corner of Avenue I and 3rd Street East.	3 - Water Supply: Offset 75 acre-feet of irrigation per year     3 - Offsets Delta water supply     3 - Reduces energy consumption	9	WS: Provide reliable water supply to meet the Antetope Valley Region's expected demand between now and 2035 WS: Stabilize groundwater levels WQ: Maximize beneficial use of recycled water LU: Meet growing demand for recreational space CC: Mitigate against climate change	5

Strategies (1 per Resource Score (0 = no;			DAC Benefits	Total Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate been prepared?	Estimated years of construction & start-up	Potential funding / financing sources	Technical Feasibility		Additional Pro	ject Information		
	Strategies (1 per Resource Management Strategy)	RMS Score	Score (0 = no; 3 = yes)		Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Gri Re	inking Water Treatment and distribution and distribution and Aquifer mediation and Aquifer mediation at and Salinity Management	3	3	20		\$427,000	None	Yes	n/a		Boron CSD Scope of Work and Associated Budget, Attachment 1, Project No. 1510002-001 Prop 1E application Project will assess the technical feasibility of the project.	Integration with other arsenic remediation projects such as the "RCSD Consolidation Project".	Project would offset imported water.	Boron is a DAC.	None	Unknow n
Re	nveyance-Regional/local cycled Municipal Water atching Water Quality to Use	3	3	20		\$15,000,000	\$20,000/year		2018	State Grant Funding and Loan Program – Water Recycling Funding Program (WRFP), Planning Grants, Etc.	Recycled Water Facilities and Operations Mater Plan prepared by RMC in January 2005.	Integration with other recycled water projects possible.	Project will diversify water supplies and help to adapt to climate change.	Since this project would offset approximately 500 Acre-feet of groundwater a year and would benefit the entire Antelope Valley ground water basin as a whole, it would benefit the DACs within the Valley positively in regards to water supply.		
Re	nveyance - Regional/local cycled Municipal Water atching Water Quality to Use	3	3	20		\$770,000	\$10,000/year		2017	State Grant Funding and Loan Program – Water Recycling Funding Program (WRFP), Planning Grants, Etc.	Recycled Water Facilities and Operations Mazier Plan prepared by RMC in January 2006.	integration with other recycled water projects possible.	Project will diversify water supplies and help to adapt to climate change.	Since this project would offset approximately 75 Acre- fect of potable a year and would benefit the entire Antelope Valley ground water basin as a whole, it would benefit the DACs within the Valley positively in regards to water supply.		

Status	Sponsor	General Information	Project Location	Scoring Criteria	General	escription	Location	Project Description	Project Benefits		IRWMP Objectives	
I = Implementation C = Conceptual			(1) Description of location (2) Lat & Long	Implementation/C onceptual Study/Report		Y or N	Y or N		Benefits (3-agood justification; 2-fair justification; 1-poor justification)	Benefits score	Objectives 1 point each	Objs Score
1	City of Lancaster	Project Name Whit Carter Park Recycled Water Comersion Sponsor City of Lancaster Contact: Carlyles S. Workman Phone 661-725 6079 Emil: cwordman@cityoflancaster.com	Whit Carter Park is located on approximately 20 acres on the west side of Sierra Highway (45635) between Avenue H-6 and Avenue H-8. Lat: 34.712442 degrees Long: - 118.139487 degrees	Implementation	Y	¥	Y	Construction of a recycled water main from the existing regional backbone in Division Street to Willia Center Park Located west of Sierra Highway at approximately Asenue H-7 and conversion of the irrigation system to recycled water. This main extension will also make recycled water available to the industrial park between Division Street and Sierra Highway, south of Avenue H.	Will offset approximately 50 AF of irrigation per year     To offsets Delta water supply     Reduces energy consumption	9	WS: Provide reliable water supply to meet the Antelope Valley Region's expected demand between now and 2035 WS: Stabilize groundwater levels WG: Maximize beneficial use of recycled water LU: Meet growing demand for recreational space CC: Mitigate against climate change	5
1	City of Lancaster	Project Name: Antelope Valley Recycled Water Waster Plan Spontor: City of Lancaster Contact: Carlyle S. Workman Phone: 661-725-6079 Email: cworkman@cityoflancaster.com	Antelope Valley	Study/Report	Y	¥	Y	Palmdise, Lancaster, and Los Angeles County Waterworks all have studies regarding recycled water. This project would undertake the effort to prepare a regional master plan to consolidate the existing master plans fixedies.  The North Valley Regional Recycled Water System is intended to connect the Lancaster and Palmdale Wastewater Reclamation Plants with backbone recycled water line. A regional master plan incorporating the laterals, tanks, pumps, etc. necessary to construct an integrated delivery system for the Anteiope Valley would ensure compatibility and efficiency throughout the system	potable water use 3 - Offsets Delta water supply		WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC  WS: Stabilize groundwater levels  WS: Maximize beneficial use of recycled water  CC: Mitigate against climate change	4
1	City of Lancaster	Contact: Carlyle S. Workman Phone: 661-723-6079 Email:	The proposed tank site is behind the existing pump station at 45540 Division Street.  Lat: 34.710587 degrees Long-118.130965 degrees	Implementation/C onceptual	Y	¥	Y	Construction a 1 million gallon recycled water tank at the City's existing pump station at 45540 Division Street, just south of Avenue H-8. In order to provide a stable supply of recycled water in the North Valley Regional Recycled Water System, Tanks and pumps will need to be installed throughout the system. This tank would take the place of Los Angeles County Waterworks District No. 479 existing rail, on loan to the City. Making recycled water available to more users will free up potable water and improve the groundwater situation within the Antelope Valley.	3 - Water Supply: 1,000+ AF 3 - Offsets Delta water supply 3 - Reduces energy consumption	9	WS. Provide reliable water supply to meet the Antelope Valley Region's expected demand between now and 2035  WS. Stabilize groundwater levels.  WS. Exablish a contingency plan to meet water supply needs of the AV region during a plausible disruption of SVM deliveries.  WQ: Maximize beneficial use of recycled water CC: Mitigate against climate change	5

Resource Management Strat	tegies	DAC Benefits	Total Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate been prepared?	Estimated years of construction & start-up	Potential funding / financing sources	Technical Feasibility		Additional Pro	ject Information		
Strategies (1 per Resource Management Strategy)		Score (0 = no; 3 = yes)													
	RMS Score			Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Conveyance - Regional/local Recycled Municipal Water Matching Water Quality to Use	3	3	20		\$815,417	\$10,000/year		2016		City of Lancaster Recycled Water Facilities and Operations Master Plan, RMC January 2006.	Integration with other recycled water projects possible.	Project will diversify water supplies and help to adapt to climate change.	Since this project would offset approximately 50 Acre- feet of potable a year and would benefit the entire Antelope Valley ground water basin as a whole, it would benefit the DACs within the Valley positively in regards to water supply.		
Conveyance - Regional/flocal Conjunctive Management & Groundwater Recycled Municipal Water Matching Water Quality to Use Economic incentives	5	3	21		\$100K-\$1M	\$0		2014, 2015	Funding and Loan Program – Water Recycling Funding Program (WRFP), Planning Grants, Etc.	Cry of Lancaster Recycled Water Facilities and Operations Master Plan, RMC January 2005; Final Facilities Panning Report, Antelope Valley Recycled Water Project, Kennedy Jeriks 2005; Antelope Valley Recycled Water Product, Plass 2 Design Concept Report, LACWW Ubsviric No. 40, January 2009	This project can be integrated with other regional projects.	Project will diversify water supplies and help to adapt to climate change.	Since this Master Plan would be melt the entire Antelope be melt the entire Antelope Valley ground water basin as anyole, it would benefit the DACs within the Valley positively in regards to water supply.		
Conveyance-regional/local Recycled municipal water Matching Water Quality to Use	3	3	20		\$1M-\$10M	\$25,000/year		2015, 2016		Recycled Water Facilities and Operations Master Plan prepared by RMC in January 2006.	The North Valley Regional Recycled Water System, when completed, will link the Lancaster Water Reclamation Famit and the Palmdale Water Reclamation Famit and the Palmdale Water Reclamation Family and the System of the Palmdale Water Reclamation Family and the System of the Water System	Project will diversify water supplies and help to adapt to climate change.	Since the increased use of recycled water can offset potable water use, the groundwater table can be stabilized throughout the Antelope Valley. This will affect the DACs water situation beneficially.		

Status	Sponsor	General Information	Project Location		le l	tion	5	Project Description	Project Benefits		IRWMP Objectives	
				Scoring Criteria	Genera	Descripti	Location					
entation			(1) Description of location (2) Lat & Long	Implementation/C onceptual					Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits	Objectives 1 point each	Objs
I = Implementation C = Conceptual				Study/Report	Y or N	Y or N	Y or N			score		Score
	City of Palmdale	Restoration Project Sponsor: City of Palmdale Contact: Gordon Phair Phone: (661) 267-5310 Email: gphair@cityofpalmdale.org Partners: AVEK, PWD, LACWW	Ste is approx. 600 acre city-owned property that is bounded by Sierra Highway to the west, Esta 4 week (Columbia Way) to the control of the c	Implementation	٧	*	Y	over Amargosa Creek.	3 - capture approx. 400 APT stormwater and recharge with SWP water (14,600-53,600 APV) 1 - Water Quality Improwed, reduced Arsenic 3 - 15 acres open space/habitat 3 - Offset water supply from the Delta (during dry years) 3 - 20 acres flood protection	13	MS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Stab. a plan to meet supply needs of AV during a disruption of SWP deliveries  WS: Stabilize groundwater levels  WS: Provide drinking water that meets regulatory requirements and customer expectations  WS: Provide drinking water that meets regulatory requirements and customer expectations  WC: Protect and maintain aquiffers  WC: Protect and maintain natural streams and recharge areas  FLD: Reduce negative impacts of stormwater, urban runoft, and nuisance water.  FLD: Optimize the balance between protecting existing beneficial uses of stormwater and capturing stormwater for new uses  ENV: Preserve open space and natural habitats that protect and enhance water resources and species in the AV.  U: Meet growing demand for recreational space  CC: Mitigate against climate change	11
1	City of Palmdale	Project Name: Palmdale Power Plant Project Sponsor: City of Palmdale Contact: Gordon Phair Phone: (661) 267-5310 Email: gphair@cityofpalmdale.org		Implementation	Y	Y	Y	Construction of a 570 Mega-Watt (MW) electricity generating facility. The Palmdale Power Project will be a hybrid design, utilizing natural gas combined cycle technology and solar thermal technology. The Palmdale Power Project would be a customer and end user of 3,400 AFY of reclaimed water.	3 - Identified user of approximately 3,400 AFY of recycled water.	3	WQ: Maximize beneficial use of recycled water  LU: Improve integrated land use planning to support water management  CC: Mitigate against climate change.	3

Resource Management Strategies DAC Benefits			Total Score		Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate	Estimated years of construction	Potential funding / financing sources	Technical Feasibility		Additional Pro	ject Information		
			223.0	Complete?	222.131 0030	22 603.0	been prepared?	& start-up	g sources						
Strategies (1 per Resource Management Strategy)		Score (0 = no; 3 = yes)					,,								
	RMS Score			Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Conjunctive Management & Groundwater of Groundwater and Aquifer Remediation Pollution Prevention Flood Risk Management Ecosystem Restoration Recharge Areas Protection Water-dependent Recreation Watershed Management	8	3	35							Grant application			Yes		
Recycled Municipal Water Matching Water Quality to Use Land Use Planning and Management	3	3	12										Yes		

Status	Sponsor	General Information	Project Location	Scoring Criteria	General	cription	Location	Project Description	Project Benefits		IRWMP Objectives	
= Implementation C = Concentual	_		(1) Description of location (2) Lat & Long	Implementation/C onceptual		O Y or N			Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits score	Objectives 1 point each	Objs Score
m=1	Palmdale Recycled	Distribution System Sposons: Palmdale Recycled Water Authority (IPA between the City of Palmdale and Palmdale Water District) Contact: Gordon Phair and Matt Knudson Phone: (661) 267-5310 and (661) 456- 1018 Email: gphair@cityofpalmdale.org and mknudson@palmdalewater.org	65th Street East. Distribution laterals will be installed to feed Domenic	Study/Report	Y	Y	Y	The installation of a recycled water line from the intersection of Avenue R and 30th Street East, south to Avenue R 3, east to 65th Street East. Distribution laterals will be installed to feed Domein Khasari, Yellen, and Palmdale Casis Parks. Laterals will also be installed to feed Palmdale and Knight High Schools. The installation of a recycled water line from the existing LACSD effluent recycled water line fron in-lieu agricultural water exchange will also be part of this project. This project will be extended in the future to supply recycled water to proposed rechange facilities in Lutterock Wash. This project is part of the Recycled Water Master Facilities Plan being prepared by the Palmdale Recycled Water Authority.	3 - New Water supply (1,000+ AF). 3 - Offset Delta Water 3 - Reduce Energy Consumption	9	WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to to CC.  WS: Exablish a contingency plan to meet water supply needs of the AV region during a plausible disruption of SVM deliveries  WS: Stabilize groundwater levels  WQ: Maximize beneficial use of recycled water  LU: Meet growing demand for recreational space  CC: Mitigate against climate change.	6
1	Palmdale Water District	Project Name: Littlerock Creek Groundwater Recharge and Recovery Project Sponsor: Palmdale Water District Contact: Matt Knudson Phone: (66) 1456-1018 Email: Amstudong-galmdalewater.org Partners: AVEK, City of Palmdale, LCID		Implementation	Y	Y	Y	the Palmdale WNP. This project is anticipated to be similar to the Lancaster groundwater recharge project describle below and have similar blending and extraction numbers (e.g., a blend of 10,000 APF of recycled water and 40,000 APF of 5PW water). In order to have 40,000 APF of 5PW water to blend, this project would most likely end up being an AVSWCA project (or at least a joint venture type project with AVEX and/or LCID).	3-43,090 AFY supply     1- Improve Water Quality (soil aquifer treatment)     3- Offset Delta Water     1- Flood Management     3- Reduce energy consumption	11	WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to to CC.  WS: Est. a contingency plan to meet water supply needs of the AV Region during a plausible disruption of SWP deli	9

Resource Management Stra	tegies	DAC Benefits	Total Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate been prepared?	Estimated years of construction & start-up	Potential funding / financing sources	Technical Feasibility		Additional Pro	ject Information		
Strategies (1 per Resource Management Strategy)	RMS Score	Score (0 = no; 3 = yes)		Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Conveyance - Regional/local Conjunctive Management & Groundwater Recycled Municipal Water Matching water quality to use	4	3	22		\$10 Million					Palmdale Water District Recycled Water Facilities Plan (2010)		No Climate Change Analysis	Yes		None.
Conjunctive Management & Groundwater  Recycled Municipal Water  Matching Water Quality to Use  Polliution Prevention  Flood Risk Management	5	3	28		\$1,897,969		Yes	2013, 2015	funds	Water Resources Plan, 2010	This project can be integrated with other groundwater recharge projects, as well as other recycled water projects.	This project would help the region to adapt to changes in supply availability through the storage of imported and recycled water.	The project would provide supplies regionally, including to DACs.	None	

Statu	Sponsor	General Information	Project Location		<u>- a</u>	tion	Б	Project Description	Project Benefits		IRWMP Objectives	
				Scoring Criteria	Gener	Descripti	Location					
l = Implementation			(1) Description of location (2) Lat & Long	Implementation/C onceptual Study/Report		Y or N	Y or N		Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits score	Objectives 1 point each	Objs Score
1	Palmdale Water District	Project Name: Littlerock Dam Sediment Removal Sponor: Palmdale Water District Contact: Matt Knudson Phone: (661) 456-1018 Email: mknudson@palmdalewater.org Partners: USFS	Littlerock Dam Lathtude: 34.4814 Longitude: -118.0236	Implementation	٧	٧	Y	·	3 - 560 AFY supply 1 - Improve Water Quality 3 - Offset water supply from the Delta 3 - Provide flood management/protection 2 - Preserve habitat (for the endangered Arroyo Toad) 3 - Reduce energy consumption/GHGs	15	WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Estab. A plan to meet supply needs of AV during a disruption of SWP deliveries.  WG: Provide drinking water that meets regulatory requirements and customer expectations.  FLD: Reduce negative impacts of stormwater, urban runoff, and nuisance water.  EW: Preserve open space and natural habitats that protect and enhance water resources and species in the AV.  CC: Mitigate against climate change	6
-	Rosamond CSD	Project Name: RCSD Arsenic Consolidation Project Sponsor: RCSD Contact: Phone: Email: Partners: 10 mutuals		Implementation	Y	Y	Y	and connect all 10 small water companies to the RCSD system.	Water Quality Improvement     Improve reliability of drinking water system     reduce energy consumption by improving system efficiency	8	WS: Provide reliable water supply to meet the Antelope Valley Region's expected demand between now and 2035; and adapt to climate change W5: Stabilize groundwater levels W0: Provide drinking water that meets regulatory requirements and customer expectations. CC: Mttigate against climate change.	4
С	Antelope Valley Duck Hunting	Pojeck Kame: Multi-use/Mul		Conceptual	Y	Y	Z	Region is a flyway zone for many migratory birds flying south and the	Offset potable water use with recycled water Potential to bank water Continue to preserve open space and habitat		WS: Provide reliable water supply to meet the Antelope Valley Region's expected demand between now and 2035, and adapt to climate change.  WQ: Maximize beneficial use of recycled water  ENV: Preserve open space and natural habitats that protect and enhance water resources and species in the Antelope Valley Region.  LU: Meet growing demand for recreational space  CC: Mitigate against climate change	

Resource Management Strat	egies	DAC Benefits	Total Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate been prepared?	Estimated years of construction & start-up	Potential funding / financing sources	Technical Feasibility		Additional Pro	ject Information		
Strategies (1 per Resource Management Strategy)	RMS Score	Score (0 = no; 3 = yes)		Y = Yes			prepareu.								
											Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Surface Storage - Regional/local Flood Risk Management Ecosystem Restoration Pollution Prevention	4	3	28		\$11,963,233	\$810,000/year	Yes	2012, 2020			This project can be integrated with downstream groundwater recharge projects.	This project would help the region to dadpt to changes in flow in Littlerock Creek, and allow for additional seasonal storage.	The project would provide supplies regionally, including to DACs.	None	
Conveyance - Regional/local System Reoperation Drinking Water Treatment and Distribution Matching Water Quality to Use Conjunctive Management & Groundwater	5	3	20				Yes			RCSD Regional CDPH Arsenic Compliance Project Preliminary Engineering Report (PER 3A and 3B)			Yes		
Urban Water Use Efficiency Conveyance - Regional/local Matching Water Quality to Use Ecosystem Restoration Land Use Planning and Management Water-dependent Recreation Watershed Management		0	0								Project could be integrated with other wetland habitat my projects that attract migratory birds. Could also integrate with other recycled water projects in the Valley.	Project would offset imported water.			

Status	Sponsor	General Information	Project Location	Scoring Criteria	General	scription	Location	Project Description	Project Benefits		IRWMP Objectives	
I = Implementation C = Conceptual			(1) Description of location (2) Lat & Long	Implementation/C onceptual Study/Report		Pesc Y or N			Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits score	Objectives 1 point each	Objs Score
c	Boron CSD	Sponsors Bronn CSD Contact: Natalia Dadey Phone: (760) 762-6127 Email: boroncsd@yahoo.com	The Well No. 15 site is located five miles west of the town of Boron, off of Highway Sit to the North on Gephart Rut. to the west side of Gephart Rut. to the state of Constructed at this location or possibly at a new well site that will contain lower arcsenic concentrations TBD based on future studies.	Conceptual	Y	*	Y	The goal of the project is to construct an arsenic removal treatment plant to treat the local groundwater supply to remove the arsenic contamiliant; thereby achieving the state and federal compliance guidelines and enabling safe drinking water to be delivered to customers.	Offset Delta Water Supply Drinking water Quality improved		WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WQ: Provide drinking water that meets regulatory requirements and customer expectations.  CC: Mitigate against climate change	
С		Recycled Water Conversion Sponsor: City of Lancaster Contact: Carlyles. Workman Phone: 661-723-6079 Email: cworkman@cityoflancaster.com	Northeast comer of East Lancaster Blvd and Division St Lat. 34.696593 Long118.130795	Conceptual	Y	Y	Y	connect to the existing recycled water main in Division St	3 - Offset approx. 40 AFY of groundwater that is currently pumped     3 - Reduce energy consumption	6	WS: Provide reliable water supply to meet the Antelope Valley Region's expected demand between now and 2035 WS: Stabilize groundwater levels WS: Maximize beneficial use of recycled water CC: Mitigate against climate change	4
С	City of Lancaster	Project Name: Tertiany Treated Water Conveyance and incidental Groundwater Recharge of Amargosa Creek Avenue M to Avenue M Sponsor: City of Lancaster Contact: Carriyle Workman Phone; (66) 1724-6079 Email: cworkman@cityofiancasterca.org		Conceptual	¥	Y	Y	This project involves the construction of a 12-inch lateral pipeline off the Regional Backhous at/near Ave Noneveijn tertiarly retented water to a point approximately one mile west and designed to deliver recycled water into the Amargosa Creek channel. Tertiary treated water would travel northerly within the Amargosa Creek roughly 4.7 miles, creating incidental recharge en route until collecting at Lake Lancaster (retention basin north of Aver H.). Here, it would be available for imglation and dust control at the Antelope Valley Fair Grounds and extended use to the west side of Lancaster and surrounding Antelope Valley Region.	100 to 1,000 AFY additional supply		WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Estab. a plan to meet supply needs of AV during a disruption of SWP delilweries  WS: Stabilize groundwater levels  WQ: Maximize beneficial use of recycled water  CC: Mitigate against climate change	

Resource Management Strat	egles	DAC Benefits	Total Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	estimate been	Estimated years of construction & start-up	Potential funding / financing sources	Technical Feasibility		Additional Pro	oject Information		
Strategies (1 per Resource Management Strategy)	RMS Score	Score (0 = no; 3 = yes)		Y = Yes			prepared?				Strategic Considerations	Climate Change	DAC Benefits		EJ issues
												Benefits		Benefits	
Orinking Water Treatment and Distribution		3	3										Yes		
Conveyance-regional/local Recycled municipal water Matching Water Quality to Use	3	3	16		\$100,000	\$1,500	No	2014, 2015	likely come from grants and/or City	Water usage records for the Cemetery indicate the amount of groundwater use to be offset by recycled water			YES Since the GW levels of the valley would be stabilized and water supply improved		
Conveyance - Regional/local  Conjunctive Management &  Groundwater  Recycled Municipal Water  Matching Water Quality to Use		3	3				No	2 to 3					Yes		

Sta	tus	Sponsor	General Information	Project Location		le.	tion	ы	Project Description	Project Benefits		IRWMP Objectives	
					Scoring Criteria	Gener	Descripti	Location					
I = Implementation	C = Conceptual			(1) Description of location (2) Lat & Long	Implementation/C onceptual Study/Report		Y or N	Y or N			Benefits score	Objectives 1 point each	Objs Score
			Project Name: Amargosa Creek Pathways Project Pathways Project Project North Project Project North Project Pro		Conceptual	γ	γ	Y	This project includes development of a top of bank trail or passe along the eastern side of lake lanxaster, and construction of a fort-bridge structure crossing the lake and connecting under Hwy 14 to link to the existing trailhead at the Antibelpe Valley Fairgrounds. The project integrates stormwater/flood control with natural rigarian habitat enhancement and preservation, open forcerational space and land use management. The goal is to construct a pathway in hamronny with established rigarian habitat, within a food management basin which captures stormwater and nuisance water runoff that, in turn, sustains rigarian habitat. This project will additionally increase the amount of rotected natural habitat and provide improved flood control within the Amargosa Creek watershed.	Open space 1-100 AFY Water Supply (from percolating water)		MS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  FLD: Reduce negative impacts of stormwater, urban ruunoff, and nuisance water.  FLD: Optimize the balance between protecting existing beneficial uses of stormwater and capturing stormwater for new uses  ENV: Preserve open space and natural habitats that protect and enhance water resource and species in the Artefolope Valley Region  ILL: Meet growing demand for recreational space  ILL: Improve integrated land use planning to support water mgmt.	
			Project Name: Ecosystem and Righarian Habilat Restoration of Amargosa Creek. Ave I to Ave I Spossors: City of Lancaster Contact: Carlyle Workman Phone: (661) 723-6079		Conceptual	Y	Y	<b>&gt;</b>	This project establishes riparian habitat along the eastern edge of the Amargosa Creek in elongated segments and sections resulting in a "Riparian Curtain": extending from Ave I north to Ave H. This project requires ster econnaisance, coordination with California Department of fish and Game (CDFG), various bio assessments and planting plans prior to implementation and creation. Restoration projects such as this are holistic and enhance the environment, providing physical buffers and off- sets to impacts on the overall ecosystem of ephemeral and riparian habitat associated with Amargosa Creek.	100 to 1,000 AF of open space created  Water Supply (from percolating water)  Provide buffers to protect water quality in  stream		WCP Protect and maintain natural streams and rechange areas FLD: Reduce negative impacts of stormwater, urban runoff, and nuisance water.  ENV: Preserve open space and natural habitats that protect and enhance water resources and species in the Antelope Valley Region  IU: Meet growing demand for recreational space CC: Mitigate against climate change	
	C Ci		Project Name: 45th Street East Groundwater Rechurge and Flood Control Basin Sponsor: City of Palmdale Contact. Gordon Phair Phone: (651) 267-5310 Email: gphair@cityofpalmdale.org		Conceptual	٧	٧	Y	The project includes the construction of a new basin, an approximately 2,088 Af drainage basin near 45th Street East and Aweue P-8, on properly currently owned by the City of Los Angeles' Department of Airports.	Approximately 208 acres of new wildlife habitat would be created by this project.  Water qualify would also be expected to improve as a result of reduced contaminated stormwater runoff and capture of up to 2,083 AF.  Water supply would be created through recharge  Provide flood management/protection		WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Establish a contingency plan to meet water supply needs of the Antelope Valley Regino during a plausible disruption of SWP deliveries.  WS: Stabilize groundwater levels  WC: Protect natural streams and recharge areas from contamination.  Fig. Reduce negative impacts of stormwater, urban runoff, and mulsiance water.	

Resource Management Strat	tegies	DAC Benefits	Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate been prepared?	Estimated years of construction & start-up	Potential funding / financing sources	Technical Feasibility		Additional Pro	ject Information		
Strategies (1 per Resource Management Strategy)		Score (0 = no; 3 = yes)													
	RMS Score			Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Pollution Prevention Ecosystem Restoration Land Use Planning & Migmt Flood Risk Management Watershed Management		0	0				Yes	3 to 5							
Pollution Prevention Ecopystem Restoration Urban Runoff Management Watershed Management		0	0				No	3 to 5							
Conjunctive Management & Groundwater Ecosystem Restoration Recharge Areas Protection Flood Risk Management		0	0												

Status	Sponsor	General Information	Project Location	Scoring Criteria	General	scription	Location	Project Description	Project Benefits		IRWMP Objectives	
I = Implementation C = Conceptual			(1) Description of location (2) Lat & Long	Implementation/C onceptual Study/Report	Y or N	Y or N			Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits score	Objectives 1 point each	Objs Score
c	City of Palmdale	Project Name: Avenue Q and 20th Street East Groundwater and Flood Control Basin (Evet Basin) Sponsor: City of Palmdala Contact: Gordon Phair Phone: (651) 267-5310 Email: gphair@cityofpalmdale.org		Conceptual	٧	Y	٧		Approximately 161 acres of new wildlife habitat would be created by this project.  Water quality would also be expected to improve as a result of reduced contaminated stormwater runoff  Capture of up to 1,612 AF.  Flood management/protection		WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Stabilize groundwater levels  WS: Stabilish a contingency plan to meet water supply reads of the Anteloge Valley Regino during a plausible disruption of SWP deliveries.  WCP. Protect natural streams and recharge areas from contamination.  FLD: Reduce negative impacts of stormwater, urban runoff, and nuisance water.  FLD: Optimize the balance between protecting estimate protecting to the stream of the protection of the stream of the str	
	wy un raumale	Project Name! Avenue R and Unvision Street Groundwise Recharge and Road Control Basin Spagnosn: City of Palmdale Contract: Gordon Phain Phone: (65) 1267-5121 Email: gphair@cityofpalmdale.org		Conceptual	٧	Y	٧	The City proposes to construct a sub accessor dash on his access located at the northeast corner of Avenue R and Division St., including all necessary and associated grading, inel/builet structures, spillway, and storm drain piping as part of its stormwater collection and conveyance system.	Provide conservation Provide stormwater capture. Provide flood management/protection		ws. involve readine supply to meet AV sexected to CC.  WS. Stabilize groundwater levels  WS. Stabilize groundwater levels  WS. Stabilize and the stable stab	

Resource Management Stra	tegies	DAC Benefits	Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate been prepared?	Estimated years of construction & start-up	Potential funding / financing sources	Technical Feasibility		Additional Pro	eject Information		
Strategies (1 per Resource Management Strategy)		Score (0 = no; 3 = yes)													
	RMS Score			Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Conjunctive Management & Groundwater Ecosystem Restoration Recharge Areas Protection Flood Risk Management		0	0												
Conjunctive Management & Groundwater Ecosystem Restoration Recharge Areas Protection Flood Risk Management		0	0												

Status	Sponsor	General Information	Project Location	Scoring Criteria	neral	cription	Location	Project Description	Project Benefits		IRWMP Objectives	
I = Implementation C = Conceptual			(1) Description of location (2) Lat & Long	Implementation/C onceptual Study/Report	9 -	Y or N			Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits score	Objectives 1 point each	Objs Score
c	City of Palmdale	Project Name: Barrel Springs Groundwater Recharge and Flood Control Basin Sposon: City of Palmdale Contact: Gordon Phair Phone: (651) 267-5310 Email: gphair@cityofpalmdale.org		Conceptual	Y	Y			Rood control for the City of Palmdale Provide approximately 40 acres of habitat Capture of stormwater for groundwater recharge Water quality would also be expected to improve as a result of reduced contaminated stormwater runoff		WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Stabilize groundwater levels  WS: Establish a contingency plan to meet water supply needs of the Anteloge Valley Regino during a plausible duryption of SWP delivency on	
u	City of Palmdale	Project Name: Hunt Canyon Groundwater Recharge and Flood Control Basin Sponsor: City Or Palmdiale Contact: Gordon Phair Phone: (651) 267-310 Email: gphair@cityofpalmdale.org		Conceptual	Υ	Υ		basin, located south of Pearliossom Highway at 57th Street East. The basin would be used to store aqueduct water to allow recharge into the aquifer, and would act as a detention basin during severe storms.	Approximately 300 acres of new wildlife habitat would be created by construction of this project.  Water quality would be expected to improve as a result of reduced contaminated stormwater runoff  Capture of up to 3,000 AF.  Flood management/protection		WS: Provide reliable supply to meet AV's sepected demand between now and 2035, and help to adapt to CC.  WS: Stabilize groundwater levels  WS: Stabilise a contingency plan to meet water supply needs of the Antelope Valley Regino during a plausible disruption of SWP deliveries.  WC: Protect natural streams and recharge areas from contamination.  FD: Reduce negative impacts of stormwater, urban runoff, and nuisance water.  FLO: Optimize the balance between protecting existing beneficial uses of stormwater and capturing stormwater for new uses  ENV: Preserve open space and natural habitats that protect and enhance water resources and species in the AV.  CC: Mitigate against climate change	

Resource Management Stra	tegies	DAC Benefits	Total Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate been prepared?	Estimated years of construction & start-up	Potential funding / financing sources	Technical Feasibility		Additional Pro	eject Information		
Strategies (1 per Resource Management Strategy)		Score (0 = no; 3 = yes)													
	RMS Score			Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Conjunctive Management & Groundwater Ecosystem Restoration Recharge Areas Protection Flood Risk Management		0	0												
Conjunctive Management & Groundwater Groundwater Ecosystem Restoration Recharge Areas Protection Flood Risk Management			0												

Sta	tus Sponsor	General Information	Project Location	Scoring Criteria	neral	cription	ation	Project Description	Project Benefits		IRWMP Objectives	
I = Implementation	C = Conceptual		(1) Description of location (2) Lat & Long	Implementation/C onceptual Study/Report	3 -	Y or N	Y or N		Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits score	Objectives 1 point each	Objs Score
	C City of Palmda	Sewer Installation Sponsor: City of Palmdale Contact: Gordon Phair Phone: (661) 367-3310 Email: gphair@cityofpalmdale.org		Conceptual	٧	Y	N	The City proposes to construct new sewer lines, and will require homes in the vicinity of 42nd Street fast to connect to the system, thereby eliminating the use of spelic tanks and the potential for groundwater pollution due to leaks and spills.	future contamination reduced through elimination of septic systems		WQ: Protect and maintain aquifers  WQ: Protect natural streams and recharge areas from contamination.	
	City of Palmda	Project Name: Lower Amargosa Creek Recharge Project Sponsor: City of Palmdale Contact: Gordon Phair Phone: (661) 267-3310 Email: gphair@cityofpalmdale.org and		Conceptual	Y	Y	N	Development of in-stream recharge of water from the State Water Project blended with recycled water. Integration with the Upper Amargosa Creek Recharge Project, Amargosa Water Banking and Stormwater Retention Project, and the North Los Angeles/Kern County Regional Recycled Water Project.	New Water supply (1,000+ AF).	1	WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Exablish a contingency plan to meet water supply needs of the AV region during a plausible disruption of SWP deliveries WS: Stabilize groundwater levels WC: Protect natural streams and recharge areas from contamination. WC: Maximize beneficial use of recycled water. CC: Mitigate against climate change.	6
	C EAFB	Project Name: Antelope Valley Watershed Surface Flow Study Sponsor: EAFB Contact: Wanda Deal Phone: 661-810-9622 Email: wanda.deal@us.af.mil	Antelope Valley	Study/Report	Y	Y	Y	The project would characterise the Antelope Valley surface water flow from the San Gabriand Tebachapi Mountains to Rosamond and Rogers take. It would aim to determine the amount of flow and ributaries, the health of the lakebeds, and how much water is required to either keep them healthy or make them healthy.  The project would determine the impacts of implementing current and future proposed water diversion/removal projects and impacts of continued retention basin development. It would quantify potential effects of future flood management projects.	Determine necessary flow to maintain habitat Quantify impacts of future water projects and management		WQ: Protect and maintain natural streams and rechange areas  FID: Optimize balance between existing beneficial uses of stormwater and capturing stormwater for new uses  ENV: Preserve open space and natural habitats that protect and enhance water resources and species in the AV Region  LU: Improve integrated land use planning to support water management	

Resource Management Stra	tegies	DAC Benefits	Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate been prepared?	Potential funding / financing sources	Technical Feasibility		Additional Pro	ject Information		
Strategies (1 per Resource Management Strategy)		Score (0 = no; 3 = yes)												
	RMS Score			Y = Yes						Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Pollution Prevention		0	0											
Conjunctive Management & Groundwater  Recycled Municipal Water  Ecosystem Restoration  Matching water quality to use	4	0	11								No			No
Ecosystem Restoration  Forest Management  Land Use Planning and  Management  Recharge Area Protection  Water dependent Recreation  Watershed Management  Flood Risk Management		0	0						NSR Surface Flow Study, EAFB, 2011					

Sta	atus	Sponsor	General Information	Project Location		=	o	_	Project Description	Project Benefits		IRWMP Objectives	
					Scoring Criteria	Genera	Descript	Location					
l = Implementation	C= Conceptual			(1) Description of location (2) Lat & Long	Implementation/C onceptual Study/Report		Y or N	YorN		Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits score	Objectives 1 point each	Objs Score
	c		Project Name: Big Bock Creek in-River spreading Ground Sponsor LACDPW Contact: Ken Zimmer Phone: (626) 458-6188 Email: kzimmer@dpw.lacounty.gov		Conceptual	٧	Y	N	groundwater recharge. The facility will include earthen levees in and adjacent to the creek to capture and recharge stormwater from the creek into the groundwater basin. The Antelope Alley Watershed Region's continued and projected population growth will lead to increased water demand. Future estimates of the region's water budget predict an increasing shortfall in water supply. Developing in-stream groundwater recharge facility will increase groundwater recharge by an estimated 5,500 scar-feet per wet- year. This proposed project will improve the health and long-term sustainability of the basin increase load resoundwater supplies and	increase groundwater recharge by an estimated 5,500 acre-feet per wet-year Water supply (New Supply Created): 1,000+ AFY Water Quality – Area drained: 23 Sq. Ml.		MS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Exablish a contingency plan to meet water supply needs of the AV region during a plausible disruption of SWP deliveries  WS: Stabilize groundwater levels  FLD: Optimize balance between existing beneficial uses of stormwater and capturing stormwater for new uses	
	С	LACDPW	Project Nameric Liftle Rock Creek In- New Spreading Williams (Sponsor LACPW Sponsor LACPW Sponsor LACPW Phone: (Sponsor LACPW Phone: (Sponsor LACPW Email: kzimmer@dpw.lacounty.gov		Conceptual	Y	¥	N	Jutle Rock Creek drainage area is 49 square miles. The creek runs from the San Gabriel Mountains north into the Antelope Valley. The Los Angeles Country Flood Control District proposes to develop a spreading ground facility near the San Gabriel Mountain foothlist in order to increase groundwater recharge. The facility will include earthen levees in and adjacent to the creek to apture and recharge stormwater from the creek into the groundwater basin.  The Antelope Valley Watershed Region's continued and projected population growth will lead to increased water demand. Future estimates of the region's water budget predict an increasing shortfall in water supply. Developing in-stream groundwater recharge facility will increase groundwater recharge facility will exerce. This proposed project will improve the health and long-term sustainability of the basin, increase local groundwater supplies, and reduce the region's reliance on water imports.	Increase groundwater recharge by an estimated 7,600 acre-feet per wet-year Water supply (New Supply Created): 1,000+AFY Water Quality – Area drained: 49 Sq. Ml.		WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Exablish a contingency plan to meet water supply needs of the AV region during a plausible disruption of SWP deliveries  WS: Stabilizer groundwater levels  FLD: Optimize balance between existing beneficial use of the AV region during a plausible disruption of SWP deliveries  CC: Mitigate against climate change.	
	С	LACWD 40	Project Name: Implement ET Controller Program Sponsor: LACWD 40 Contact: Rea Joseph-Gonzalez Phone: 626-300-3338 Email:		Conceptual	Y	Y	N	Develop and implement an ET controller pilot program in the Antelope Valley Region that can be used as a model to a future mandatory program for new development. The pilot program will include the purchase and installation of festimated) two weather stations in a selected residential development and replace (approximately) 300 manually adjusted irrigation controllers with weather-sensitive irrigation controllers for the District's qualified customers.	100 to 1,000 AFY conserved supply		WS. Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  FLD: Reduce negative impacts of stormwater, urban runoff, and nuisance water.  CC: Mitigate against climate change	
	C	LACWD 40	Project Name: Ultra-Low Flush Toilet Change-out Program Sponsor: LACWD 40 Contact: Rea Joseph-Gonzalez Phone: 626-300-3338 Email:		Conceptual	Y	Y	N	The ULFT Change Out Program would distribute ULFTs to customers through one-day Sarutrafy tolled distributions. The one-day distributions provides ingle-family residents with up to two free ULFTs. This proposal provides one annual one-day distribution events over a three-year duration. Each one-day event will include up to 1,500 ULFTs for District No. 40 per year. This proposal is consistent with BMP No. 14, Residential ULFT Replacement Programs to replace existing highwater- using toilets with ultra-low flush (L.6 gallons or less) toilets for residential customers.	100 to 1,000 AFY conserved supply		WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  CC: Mitigate against climate change	

Resource Management Strat	tegies	DAC Benefits	Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate been prepared?	Estimated years of construction & start-up	Potential funding / financing sources	Technical Feasibility		Additional Pro	ject Information		
Strategies (1 per Resource Management Strategy)		Score (0 = no; 3 = yes)													
	RMS Score			Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Conjunctive Management & Groundwater Flood Risk Management		0	0		\$9,000,000							No			No
Conjunctive Management & Groundwater Flood Risk Management		0	0		\$4,000,000							No			No
Urban Water Use Efficiency Urban Runoff Management Pollution Prevention		0	0												
Urban Water Use Efficiency		0	0												

Sta	atus	Sponsor	General Information	Project Location	Scoring Criteria	General	Description	Location	Project Description	Project Benefits	IRWMP Objectives
nentation	C= Conceptual			(1) Description of location (2) Lat & Long	Implementation/C onceptual		Y or N	V or N		Benefits (3=good justification; 2=fair justification; 1=poor justification) Benefit	
rejum! = I	uo) = )				Study/Report		3	3		score	Score
	С		Project Name: Waste Water Ordinance Sponsor: LACWD 40 Contact: Rea Joseph-Gonzalez Phone: 626-300-3338 Email:		Conceptual	Y	Y	N	Develop a year-round conservation program as an enforceable ordinance to reduce the impacts of water demand during drought years. May include watering schedule ordinance, water waste ordinance, and landscape ordinance for new development.	Conserving supply, but more information required to quantify benefit.	WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  CC: Mitigate against climate change
	С		Project Name: Water Conservation School Education Program Sponsor: LACWD 40 Contact: Rea Joseph-Conzalez Phone: 626-300-3338 Email:		Conceptual	Y	Y	N	Develop and implement a school education program to promote water conservation awareness and encourage stewardship among school-age children (fourth grade). This program is consistent with BMP No. 8, School Education Program to promote water conservation and water conservation related benefits, including working with school districts and private schools with within the District's service area to provide instructional assistance, educational materials, and classroom presentations that identify urban, agricultural, and environmental issues and conditions in the local watershed.	Conserving supply, but more information required to quantify benefit.	Ws: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  CC: Mitigate against climate change
	С	LACWD 40	Sponsor: LACWD 40 Contact: Sami Kabar Phone: (626) 300-3339 Email: skabar@dpw.lacounty.gov	Phase I: 10th St West to 5th St East Phase II: 5th St East to 20th St East Phase III: 20th St East to 30th St East Phase IV: 10th St West to 60th St West	Conceptual	Y	Y	Y	The project consists of four phases for a total of approximately 32,000 linear feet of 30 shoch and 36-ind, diameter steet transmission main. The proposed transmission main will have interconnections to the existing distribution system and will increase the capacity of the water system to meet the existing domestic and fire protection requirements.	Firms up existing supply	Ws: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.
	С	LACWD 40	Project Name: North tos Angeles/Ken County Regional Recycled Water Project - Phase 3 Sponsor: LACUA 90, City of Palmidale Contact: Carolina Hernandez Contact: Carolina Hernandez (Ed) 300.318 Email: chemandez@dpw.lacounty.gov		Conceptual	Y	¥	٧	The Los Angeles/Kern County Regional Recycled Water Project outlines the foundation of a regional recycled water system in the Antelope Valley Region. The proposed system would distribute recycled water throughout the service area and provide a backhose system that could accommodate minimum and maximum demands and allow significant deliveries of recycled water to recharge areas.	Water supply conveyed  Offset Delta Water  Reduce energy consumption/GHG	WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Establish a contingency plan to meet water supply needs of the AV region during a plausible distruption of SWP deliveries  WQ: Maximize beneficial use of recycled water  LU: Meet growing demand for recreational space  CC: Mitigate against climate change

Resource Management Stra	tegies	DAC Benefits	Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate been prepared?	Estimated years of construction & start-up	Potential funding / financing sources	Technical Feasibility		Additional Pro	ject Information		
Strategies (1 per Resource Management Strategy)		Score (0 = no; 3 = yes)													
	RMS Score			Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Urban Water Use Efficiency		0	0												
Urban Water Use Efficiency		3	3										Yes		
Drinking water treatment and distribution Conveyance - Regional/local		0	0		Phase II: \$3.65M Phase II: \$3.65M										
Conveyance - Regional/local Recycled Municipal Water Matching Water Quality to Use		3	3										Yes		

Sta	tus	Sponsor	General Information	Project Location		le .	tion	lo	Project Description	Project Benefits		IRWMP Objectives	
					Scoring Criteria	Genera	Descripti	Location					
= Implementation	ceptual			(1) Description of location (2) Lat & Long	Implementation/C onceptual		Y or N	VorN		Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits	Objectives 1 point each	Objs
I = Impler	uo) =)				Study/Report	TOTAL	TOTAL	10114			score		Score
•			Project Name: North Los Angeles/Hern County Regional Recycled Water Project - Phase 4 Sponsors (LACWO Sponsors LACWO Contact: Carolina Hernandez Phone (£625) 303-3318 Email: chemandez@dpw.lacounty.gov		Conceptual	Y	Y	>	throughout the service area and provide a backbone system that could accommodate minimum and maximum demands and allow significant deliveries of recycled water to recharge areas.	Water supply conveyed  Offset Delta Water  Reduce energy consumption/GHG		WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Exablish a contingency plan to meet water supply needs of the AV region during a plausible disruption of SWP deliveries  WQ: Maximize beneficial use of recycled water  LU: Meet growing demand for recreational space  CC: Mitigate against climate change	
			Project Name: Avenue M and 62th Street West Tanks Sponsor: LACWD 40 Contact: Julian Juarez Phone: 626-300-4693 Email:		Conceptual	Y	у	Y	This project would include the design and construction of four (4) 3 mgd water storage tanks.	Water supply, but more information required to quantify benefit.		WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.	
	C Lee	Council	Project Name: Precision Irrigation Control System Sponsor: Leona Valley Town Council Contact: Peggy Fuller Phone: 661-270-0771 Email: pfuller@leonavalleytc.org		Conceptual	Y	¥	N	The project is a proposed irrigation control system using electronic sensor probes at root level. Sensor relay data to a computer which controls irrigation valves, delivering a precise amount of water and effectively eliminating over-irrigation.	More than 150 APY of conserved supply		WS: Provide reliable supply to meet AV's expected memand between now and 2035, and help to adapt to CC.  FLD: Reduce negative impacts of stormwater, urban runoff, and nuisance water.  CC: Mitigate against climate change	

Resource Management Strat	tegies	DAC Benefits	Total		Estimated Project	Estimated	Has a cost	Estimated years	Potential funding /	Technical Feasibility		Additional Pro	ject Information		
			Score	Complete?	Capital Costs	O&M Costs	estimate been prepared?	of construction & start-up	financing sources				,		
Strategies (1 per Resource Management Strategy)		Score (0 = no; 3 = yes)													
	RMS Score			Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Conveyance - Regional/local Recycled Municipal Water Matching Water Quality to Use		3	3										ves		
Drinking water treatment and distribution  Conveyance - regional/local		0	0		\$4 M										
Urban Water Use Efficiency Urban Runoff Management Pollution Prevention		0	0												

Statu	s Sponsor	General Information	Project Location	Scoring Criteria	Seneral	scription	ocation	Project Description	Project Benefits		IRWMP Objectives	
I = Implementation	invalor and		(1) Description of location (2) Lat & Long	Implementation/C onceptual Study/Report		Y or N	YorN		Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits score	Objectives 1 point each	Objs Score
c	Leona Valley Town Council	Project Name: Stornwater Harvesting Sponsor: Leona Valley Town Council Contact: Peggy Fuller Phone: 661:270 Diplome: 661:270		Conceptual	Y	Y	N	This project includes the construction of stormwater collection of conveyance facilities, water filtration devices, and daterns and collection tanks. Through advanced filtration enholds, this project can also be expanded to create potable water for residential uses.	Once fully implemented, it is estimated that water conservation of up to 25 APY could be realized.  Improve flood management  Improve water quality by reducing  contaminants going into creeks		WS. Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to to CC.  WQ. Protect and maintain natural streams and recharge areas  FLD. Reduce negative impacts of stormwater, urban runoff, and nuisance water.  FLD. Optimize the balance between protecting existing beneficial uses of stormwater and capturing stormwater for new uses  CC. Mitigate against climate change	
С	North Edwards WD	Project Name: Arsenic Contamination Project Sponsor: North Edwards WD Contact: Dollle Kostopoulos Phone: (760) 769-4520 Email: dicsd@ccis.com		Conceptual	Y	N	N					
С	Palmdale Water District	Project Name: ET Based Controller Program Sponsor: Palmdale Water District Contact: Matt Knudson Phone: (661) 456-1018 Email: mknudson@palmdalewater.org		Conceptual	Y	Y	N	This project involves the installation of ET-based irrigation controllers for landscaped areas. This project can assist water purveyors in the Antelope Valley Region in meeting BMPs for water use efficiency and will reduce runoff from over watering of landscaped areas.	Approximately 240 AFY of supply conserved if used on 14 large landscape users in PWO's service area.		WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  FLD: Reduce negative impacts of stormwater, urban runoff, and nuisance water.  CC: Mitigate against climate change	
c	Palmdale Water District	Project Name: New PWD Treatment Plant Sponsor; PWD Sponsor; Palmdale Water District Contact: Matt Knudson Phone; (661) 456-1018 Email: mknudson@palmdalewater.org		Conceptual	Y	Y	Y	This project involves the construction of a new water treatment plant at 47th Street East and the California Aqueduct, for the treatment of SWP and Littlerock Reservoir water. The initial capacity of the plant will be 10 mgd.	The new plant would be capable of treating up to 10 mgd of imported water Littlerock water.		WQ. Provide drinking water that meets regulatory requirements and customer expectations.	
C	QHWD	Project Name: CHWD Partial Well Abandonment Sponsor: GHWD Contact: Chad Reed Phone: 661-943-3170 Email: creed@qhwd.org		Conceptual	Y	Y	N	This project will pull the pump from the well located on West Avenue L in Lancaster and "Inforgrout" the region of strate that contains higher levels of arsenic. Doing so will localize these regions of strata using a cost- effective, non-treatment method.	Prevents loss of groundwater pumping and existing supply and ensures water quality that meets		WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WC: Provide drinking water that meets regulatory requirements and customer expectations  WC: Protect and maintain aquifers  CC: Mitigate against climate change	

Resource Management Stra	tegles	DAC Benefits	Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate been prepared?	Estimated years of construction & start-up	Potential funding / financing sources	Technical Feasibility		Additional Pro	ject Information		
Strategies (1 per Resource Management Strategy)		Score (0 = no; 3 = yes)													
	RMS Score			Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Urban Water Use Efficiency Urban Runoff Mgmt Improve Flood Management Matching Water Quality to Use Pollution Prevention Watershed Management		0	0												
			0		\$1,100,000										Yes
Urban Water Use Efficiency Urban Runoff Management Pollution Prevention		3	3										Yes		
Drinking Water Treatment and Distribution		3	3		25 million	\$2,240,000/ye ar	No	2020	PWD funds, SRF loans		This project can be integrated with other projects that acquire additional imported water.	None	The project would provide supplies regionally, including to DACs.	None	
Drinking water treatment and distribution Prevention		0	0												Yes

Statu	Sponsor	General Information	Project Location		=	ion	E	Project Description	Project Benefits		IRWMP Objectives	
				Scoring Criteria	Genera	Descriptio	Location					
mentation			(1) Description of location (2) Lat & Long	Implementation/C onceptual		Y or N	Y or N		Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits	Objectives 1 point each	Objs
I = Imple				Study/Report						score		Score
С		Project Name: Build a bridge at the existing dip crossing of Mt. Emma Road @ Littlerock Creek Sponsor: Road Maintenance Division (LACDPW) Contact: Mark Caddick Phone: (661)947-7173 Email: mcaddick@dpw.lacounty.gov	Mt. Emma Road @ Littlerock Creek	Conceptual				When it floods the Road Division has to close the gates, which creates a substantial detour for Mt. Emma traffic.	Flood Management		FLD: Reduce negative impacts of stormwater, urban runoff, and nuisance water.	
c		Project Name: Flooding Issues Avenue P-8, between 150th and 170th Street East Sponsor: Road Maintenance Division (JACDPW) Contact: Mark cladick Phone: (661) 947-7173 Email: mcaddick@dpw.lacounty.gov	Avenue P-S, between 160th and 170th Street East	Conceptual				Road Maintenance Division is in the process of acquiring drainage easements to relieve flooding to multiple private properties.	Rood Management		FLD: Reduce negative impacts of stormwater, urban runoff, and nuisance water.	
c		Project Name: Flooding Issues Avenue W., next 1326 Street East Sponsor: Road Maintenance Division (LACDPW) (LAC	Avenue W., near 133rd Street East	Conceptual				There are several unmet drainage needs in Lake LA on private properties, specifically on Avenue W, near 133rd Street East.	flood Management		FLD: Reduce negative impacts of stormwater, urban runoff, and nuisance water.	

Resource Management Strat	egies	DAC Benefits	Total Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate been	Estimated years of construction & start-up	Potential funding / financing sources	Technical Feasibility		Additional Pro	eject Information		
Strategies (1 per Resource Management Strategy)		Score (0 = no; 3 = yes)					prepared?	& start-up							
	RMS Score			Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Flood Risk Management			0												
flood Risk Management			0												
Flood Risk Management			0												

Status	Sponsor	General Information	Project Location	Scoring Criteria	General	escription	Location	Project Description	Project Benefits		IRWMP Objectives	
I = Implementation C = Conceptual			(1) Description of location (2) Lat & Long	Implementation/C onceptual Study/Report		YorN			Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits score	Objectives 1 point each	Objs Score
С	Rosamond CSD	Project Name: Purchasing Spreading Basin Land Sponsor: RCSD Contact: Phone: Email:		Conceptual	N	Y	z	A to Rosamond B.	Supply benefit, but more information required to quantify benefit.		WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WS: Estab. A plan to meet supply needs of AV during a disruption of SWP deliveries.  WS: Stabilize groundwater levels	
С	Rosamond CSD	Project Name: Gaskell Road Pipeline Sponsor: RCSD Contact: Phone: Email:		Conceptual	N	Y	Y	Construct and operate a 30-inch diameter potable water pipeline on Gaskell Road, in Southeast Kern County, from 60th Street West to 140th Street West, with pumps, valves, meters, telemetry and remote controls from a centralized SCADA control point in Rosamond Community Services District's Operational Center.	100 to 1,000 AF supply		WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.	
С	Rosamond CSD	Project Name: KC & LAC Interconnection Pipeline Sponsor: RCSD Contact: Phone: Email:		Conceptual	N	Y	N	Place 36 inch piping between RCSD and Lox Angeles County at Awenue A at 20th and 60th Streets West. Place piping north and south on 20th Street and 60th Street to existing recycled water pipelines.	Supply benefit, but more information required to quantify benefit.		WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WQ: Maximize beneficial use of recycled water  CC: Mitigate against climate change	
c	Rosamond CSD	Project Name: Place Values and Turnouts on Redaimed Water Pipeline Sponsor: RCSD Contact: Phone: Email:		Conceptual	Y	Y	N	Place various required turnouts, remove controlled valves, treatment stations, other control features to move water around.	100 to 1,000 AFY supply		WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WQ: Maximize beneficial use of recycled water  CC: Mitigate against climate change	
С	Rosamond CSD	Project Mane: RCSD Wastewater Pjecline Sponsor: RCSD Contact: Phone: Email:		Conceptual	Y	Y	N	This project would include placing a 36-inch wastewater pipeline from LACSD to RCSD's WWTP. The total distance would be approximately 15 miles.	increases potential users of recycled water		WS: Provide reliable supply to 2003, and help to adapt to CC.  WC: Maximize beneficial use of recycled water  CC: Mitigate against climate change	
c	Rosamond CSD	Project Name: Tropico Park Pipeline Project Sponsor: RCSD Contact: Phone: Email:		Conceptual	N	Y	Y	Place 16-inch recycled water pipeline from Gaskell Road north to Tropico regional Park area.	Potable water offset		MS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.  WC: Maximize benefitical use of recycled water U.P. Meet growing demand for recreational space CC: Mitigate against climate change	

Resource Management Stra	tegles	DAC Benefits	Score	Complete?	Estimated Project Capital Costs	Estimated O&M Costs	Has a cost estimate been prepared?	Estimated years of construction & start-up	Potential funding / financing sources	Technical Feasibility		Additional Pro	ject Information		
Strategies (1 per Resource Management Strategy)		Score (0 = no; 3 = yes)													
	RMS Score			Y = Yes							Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Conjunctive Management & Groundwater Recharge Areas Protection		0	0												
Conveyance - Regional/local		0	0												
Conveyance - Regional/local Recycled Municipal Water Matching Water Quality to Use		0	0												
Conveyance - Regional/Jocal Recycled Municipal Water Matching Water Quality to Use		0	0												
Conveyance - Regional/local Recycled Municipal Water Matching Water Quality to Use		0	0												
Conveyance-Regional/local Recycled Municipal Water Matching Water Quality to Use		3	3										Yes		

Status	Sponsor	General Information	Project Location	Scoring Criteria	General	Description	Location	Project Description	Project Benefits		IRWMP Objectives	
nentation			(1) Description of location (2) Lat & Long	Implementation/C onceptual	Y or N	VarN	VarN		Benefits (3=good justification; 2=fair justification; 1=poor justification)	Benefits	Objectives 1 point each	Objs
I = Impler C = Con				Study/Report	TOTAL	TOTAL	TOTAL			score		Score
С		Project Name: Deep Wells to Recapture Banked Water Sponsor: RCSD Contact: Phone: Email:		Conceptual	N	Y		Drill and equip 6 deep wells between Avenue A and Rosamond Blvd. 70th to 140th Street West.	Supply benefit, but more information required to quantify benefit		WS: Provide reliable supply to meet AV's expected demand between now and 2035, and help to adapt to CC.	

Resource Management Strategies (1 per Resource Management Strategy)		Score (0 = no; 3 = yes)	Score	Complete?	Estimated Project Capital Costs	O&M Costs	of construction & start-up	Potential funding / financing sources		Additional Pro	ject Information		
	RMS Score			Y = Yes					Strategic Considerations	Climate Change Benefits	DAC Benefits	Tribal Benefits	EJ issues
Conjunctive Management & Groundwater			0		\$16,302,100			CDPH Grant					



Appendix L: IRWM Grant Program
Guidelines, Appendix H – Plan Review
Process Cross-Reference Table



IRWM Grant Program Guidelines, Appendix H - Plan Review Process Requirement:	Section in 2007 IRWMP	Section in 2013 IRWMP	Page Numbers in 2013 IRWMP
Governance			
The name of the RWMG responsible for implementation of the Plan.	Executive Summary	Section 1	1-2
A description of the IRWM governance structure	Section 8.2.2	Section 8.2	8-2 to 8-8
Public outreach and involvement processes	Section 8.2	Section 1.2 Section 8.2.1	1-6 to 1-21 8-4 to 8-5
Effective decision making	Section 8.2.2	Section 8.2.2	8-5
<ul> <li>Balanced access and opportunity for participation in the IRWM process</li> </ul>	Section 8.2.2	Section 8.2.3	8-5
Effective communication – both internal and external to the IRWM region	Sections 8.2.3 and 8.2.4 (these were recommendations)	Section 1.2.3 Section 8.2.4	1-15 8-7
Long term implementation of the IRWM Plan	Section 8.2	Section 8.2.5	8-7
<ul> <li>Coordination with neighboring IRWM efforts and State and federal agencies</li> </ul>	Section 8.2.4 (recommendations)	Section 8.2.6	8-7 to 8-8
The collaborative process(es) used to establish plan objectives	Section 8.2.3	Sections 1.2, 1.3 Section 4.1	1-6 to 1-28 4-1 to 4-4
<ul> <li>How interim changes and formal changes to the IRWM Plan will be performed</li> </ul>	Section 8.2.4	Section 1.3.2 Section 8.2.7	1-24 to 1-25 8-8
Updating or amending the IRWM Plan	Section 8.2.4	Section 1.3.2 Section 8.2.7	1-24 to 1-25 8-8
<ul> <li>Publish NOI to prepare/update the plan; adopt the plan in a public meeting</li> </ul>	N/A	Section 1.2.3 Section 1.3.2	1-15 1-25
Region Description			

IRWM Grant Program Guidelines, Appendix H - Plan Review Process Requirement:	Section in 2007 IRWMP	Section in 2013 IRWMP	Page Numbers in 2013 IRWMP
If applicable, describe and explain how the plan will help reduce dependence on the Delta supply regionally	Section 6.1.1	Section 6.1 (all water supply measures help to reduce dependence)	6-2 to 6-13
Describe watersheds and water systems	Section 2	Sections 2.3 to 2.5 Section 3.4	See below
Hydrology	Section 2.4.1	Sections 2.3 to 2.4 Figs. 2-5 to 2-12	2-4 to 2-19
Groundwater	Section 2.4.2	Section 2.4.2 Figs. 2-11 to 2-13	2-21 to 2-26
Vegetation	Section 3.4.1	Section 3.4	3-50 to 3-53
• Species	Section 3.4.2	Section 3.4	3-53 to 3-54
Habitats of special concern	Section 3.4.1	Section 3.4	3-50 to 3-52
Management issues (e.g. invasive species)	Section 3.4.2	Section 3.4	3-53 to 3-54
Climate change	Section 3.1.9.6	Section 2.8 Section 3.6	2-41 to 2-43 3-58 to 3-60

IRWM Grant Program Guidelines, Appendix H - Plan Review Process Requirement:	Section in 2007 IRWMP	Section in 2013 IRWMP	Page Numbers in 2013 IRWMP
Describe internal boundaries  (includes the boundaries of municipalities, service areas of individual	Section 1.2 (water districts)	Section 2.2 Figure 2-3	2-4 and 2-7
water, wastewater, flood control districts, and land use agencies. The description should also include those not involved in the Plan (i.e. groundwater basin boundaries, watershed boundaries, county, State, and	Figure 2-1 (service districts)	Section 2.2 Figure 2-4	2-4 and 2-8
international boundaries).	Figure 2-2 (cities, special districts)	Secs. 2.2 and 2.7 Figure 2-4	2-4 and 2-8
	Figure 2-7 (watershed boundaries)	Section 2.4 Figure 2-9	2-11 to 2-16
	Section 2.4.2, Figure 2-10 (groundwater)	Section 2.4.2 Figs. 2-11 to 2-13	2-21 to 2-26
	Section 2.5, Figure 2-11 (land use)	Section 2.5 Figure 2-14	2-27 to 2-35
		Section 2.5.1 Figure 2-4 (Flood Control)	2-8 and 2-31
Description of water supplies and demands for a minimum 20-year planning horizon.	Section 3.1	Section 3.1	3-1 to 3-40
Describe water quality conditions	Section 3.2	Section 3.2	3-41 to 3-46

IRWM Grant Program Guidelines, Appendix H - Plan Review Process Requirement:	Section in 2007 IRWMP	Section in 2013 IRWMP	Page Numbers in 2013 IRWMP
Describe social and cultural makeup	Sections 1.2.4 (DAC identification),	Section 1.2.4 Figure 1-2	1-16 to 1-21
	2.6 and 2.7	Secs. 2.8 to 2.10	2-32 to 2-40
Describe major water-related objectives and conflicts	Section 3.1.9, 3.2.5, 3.3.1, 3.4.2	Section 3.1.9 Section 3.2.5 Section 3.3.1 Section 3.4.1 Section 3.5.1	3-34 to 3-40 3-44 to 3-45 3-47 to 3-50 3-53 to 3-54 3-55 to 3-58
Explain how the IRWM regional boundary was determined and why the region is an appropriate area for IRWM planning.	Section 2.1	Section 1.1 Figure 1-1 Section 2.1 Figs. 2-1 and 2-2	1-3 to 1-5 2-1 to 2-4
Describe neighboring and/or overlapping IRWM efforts	Section 2.2	Section 2.2 Figs. 2-1 and 2-2 Section 8.2.6	2-2 to 2-4 8-7 to 8-8
Define maximum opportunities for integration of water management activities	Section 6	Section 5.8 Section 6 Section 8	5-17 to 5-26 6-1 to 6-26 8-1 to 8-35
Objectives			

IRWM Grant Program Guidelines, Appendix H - Plan Review Process Requirement:	Section in 2007 IRWMP	Section in 2013 IRWMP	Page Numbers in 2013 IRWMP
Determine the IRWM Plan objectives:	Section 4	Sections 4.1 to 4.7	
Minimum requirements on p. 41 of Guidelines. All IRWM Plans shall address all of the following:			
<ul> <li>Protection and improvement of water supply reliability, including identification of feasible agricultural and urban water use efficiency strategies</li> <li>Identification and consideration of the drinking water quality of communities within the area of the Plan.</li> <li>Protection and improvement of water quality within the area of the Plan consistent with relevant Basin Plan.</li> <li>Identification of any significant threats to groundwater resources from overdrafting.</li> <li>Protection, restoration, and improvement of stewardship of aquatic, riparian, and watershed resources within the region.</li> </ul>		Table 4-1 Section 4.2  Table 4-1 Section 4.3 Table 4-1 Section 4.3 Table 4-1 Section 4.3 Table 4-1 Section 4.3 Section 4.3	4-3 4-5 to 4-6 4-3 to 4-4 4-7 4-3 to 4-4 4-7 to 4-9 4-3 4-6 4-4 4-10 to 4-12
Protection of groundwater resources from contamination.		Table 4-1 Section 4.3 Section 1.2.4.1	4-4 4-8 1-17 to 1-18
<ul> <li>Identification and consideration of water-related needs of disadvantaged communities in the area within the boundaries of the Plan.</li> </ul>		Section 2.14 Section 3.7 Appendix D (2.1.2 and 2.1.3 Final Draft TMs)	2-37 3-63

IRWM Grant Program Guidelines, Appendix H - Plan Review Process Requirement:	Section in 2007 IRWMP	Section in 2013 IRWMP	Page Numbers in 2013 IRWMP
Describe the collaborative process and tools used to establish objectives:              How the objectives were developed             What information was considered (i.e., water management or local land use plans, etc.)             What groups were involved in the process             How the final decision was made and accepted by the IRWM effort	Section 4.1	Section 4.1	4-1 to 4-3
Identify quantitative or qualitative metrics and measureable objectives:  Objectives must be measurable – there must be some metric the IRWM region can use to determine if the objective is being met as the IRWM Plan is implemented. Neither quantitative nor qualitative metrics are considered inherently better.	Section 4.2	Section 4.1 Table 4-1 Sections 4.2 to 4.7	4-1 to 4-4 4-3 4-5 to 4-15
Explain how objectives are prioritized or reason why the objectives are not prioritized.	N/A	Section 4.1	4-2
Reference specific overall goals for the region:  RWMGs may choose to use goals as an additional layer for organizing and prioritizing objectives, or they may choose to not use the term at all.	Section 4.1	Section 4.1	4-1 to 4-2
Resource Management Strategies			
Identify RMS incorporated in the IRWM Plan:  Consider all RMS criteria (29) listed in Table 3 from the CWP Update 2009	Section 5	Section 5.1 Secs. 5.2 to 5.7 Section 5.8	5-1 to 5-6 5-7 to 5-17 5-17 to 5-26
Consider climate change effects on the IRWM region must be factored into RMS	Section 5	Section 5.7	5-16 to 5-17

IRWM Grant Program Guidelines, Appendix H - Plan Review Process Requirement:	Section in 2007 IRWMP	Section in 2013 IRWMP	Page Numbers in 2013 IRWMP
Address which RMS will be implemented in achieving IRWM Plan Objectives	Section 5	Secs. 5.2 to 5.7	5-7 to 5-17
Integration			
Contains structure and processes for developing and fostering integration:  • Stakeholder/institutional • Resource • Project implementation	Section 6	Secs. 6.1 to 6.6 Section 8	6-1 to 6-26 8-1 to 8-35
Project Review Process			
Process for projects included in IRWM plan must address 3 components:			
<ul> <li>Procedures for submitting projects</li> <li>Procedures for reviewing projects</li> <li>Procedures for communicating lists of selected projects</li> </ul>	Section 5.1.2 Section 7.3 Section 7.3	Section 7.1 Section 7.2 Section 7.3	7-1 to 7-6 7-6 to 7-8 7-9
Address how the project contributes to plan objectives	Section 7.3	Secs. 7.1 to 7.2 Table 7-1 Appendix J	7-1 to 7-8 7-8
Address how project is related to Resource Management Strategies	Section 7.3	Secs. 7.1 to 7.2 Table 7-1 Appendix J	7-1 to 7-8 7-8
Address the project technical feasibility	Section 7.3	Secs. 7.1 to 7.2 Table 7-1 Appendix J	7-1 to 7-8 7-8

IRWM Grant Program Guidelines, Appendix H - Plan Review Process Requirement:	Section in 2007 IRWMP	Section in 2013 IRWMP	Page Numbers in 2013 IRWMP
Address specific benefits to DAC issues	Section 7.3	Secs. 7.1 to 7.2 Table 7-1 Appendix J	7-1 to 7-8 7-8
Address Environmental Justice considerations	Section 7.3	Secs. 7.1 to 7.2 Table 7-1 Appendix J	7-1 to 7-8 7-8
Address project cost and financing	Section 7.3	Secs. 7.1 to 7.2 Table 7-1 Appendix J	7-1 to 7-8 7-8
Address economic feasibility through economic analysis	Section 7.3	Secs. 7.1 to 7.2 Table 7-1 Appendix J	7-1 to 7-8 7-8
Address project status	Section 7.3	Secs. 7.1 to 7.2 Table 7-1 Appendix J	7-1 to 7-8 7-8
Consider strategic implementation of plan and project merit	Section 7	Secs. 7.1 to 7.2 Table 7-1 Appendix J	7-1 to 7-8 7-8
Consider effects of Climate Change in the region	Section 3.1.9.6	Secs. 7.1 to 7.2 Table 7-1 Appendix J	7-1 to 7-8 7-8
Contribution of project in reducing GHGs compared to project alternatives	Section 3.1.9.6	Secs. 7.1 to 7.2 Table 7-1 Appendix J	7-1 to 7-8 7-8
Address if project proponents have or will adopt the IRWM plan	N/A	Section 7.1 (Implementation) Section 8.2.5	7-3 8-7

IRWM Grant Program Guidelines, Appendix H - Plan Review Process Requirement:	Section in 2007 IRWMP	Section in 2013 IRWMP	Page Numbers in 2013 IRWMP
Address how the projects will reduce dependence on Delta supply	N/A	Section 7.4	7-9 to 7-13
Impact and Benefit			
Discuss potential impacts and benefits of plan implementation within IRWM regions, between regions, with DAC/EJ concerns and Native American Tribal communities.	Section 7	Section 5.8 Tables 5-3 to 5-8	5-17 to 5-26
State when a more detailed project-specific impact and benefit analysis will occur (prior to any implementation activity)	N/A	Section 5.8	5-17
Review and update the impacts and benefits section of the plan as part of the normal plan management activities	Section 8.6	Section 5.8	5-17
Plan Performance and Monitoring			
Contain performance measures and monitoring methods to ensure that IRWM objectives are met.	Section 8.5	Section 8.6	8-20 to 8-35
Describe a method for evaluating and monitoring the RWMG's ability to meet the objectives and implement projects.	Section 8.5	Secs. 8.6 and 8.7	8-20 to 8-35
Data Management			
Describe data needs within region	Section 8.5.2	Section 8.4.2	8-14
Describe typical data collection technique	Section 8.4	Section 8.4.1 Section 8.4.3	8-13 to 8-14 8-14 to 8-15
Describe stakeholders contributions to data	Section 8.4	Section 8.4.1 Section 8.4.3 Section 8.5	8-13 to 8-14 8-14 to 8-15 8-16 to 8-19
Describe entity responsible for maintaining data	Section 8.4.1	Section 8.4.1 (AVSWCA)	8-13
Describe QA/QC measures for data	Section 8.4.1	Section 8.4.4	8-16

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Explain how data collected will be shared	Section 8.4.1	Section 8.4.1	8-13
Explain how the Data Management System supports the efforts to share collected data	Section 8.4	Section 8.4.1	8-13 to 8-14
Outline how data will be compatible with the state systems	Section 8.4.4	Section 8.4.4	8-15 to 8-16
Finance			
Include a plan for implementation and financing of identified projects and programs including the following:	Section 8.3.4 Table 8-5	Section 8.3	8-8 to 8-12
List known, as well as, possible funding sources, programs, and grant opportunities for the development and ongoing funding of the IRWM Plan.	Section 8.3.4 Table 8-4	Section 8.3.1	8-9 to 8-10
List the funding mechanisms, including water enterprise funds, rate structures, and private financing options, for projects that implement the IRWM Plan.	Secs. 8.3.3 & 8.3.4	Section 8.3.1	8-9 to 8-10
An explanation of the certainty and longevity of known or potential funding for the IRWM Plan and projects that implement the Plan.	Secs. 8.3.3 & 8.3.4	Section 8.3.2 Table 8-2	8-10
An explanation of how operation and maintenance (O&M) costs for projects that implement the IRWM Plan would be covered and the certainty of operation and maintenance funding.	N/A	Section 8.3 Table 8-2 Appendix K	8-9 to 8-12
Technical Analysis			
Document the data and technical analyses that were used in the development of the plan.	Section 8.5.1	Section 8.5 Table 8-3 Appendix K	8-16 to 8-19

IRWM Grant Program Guidelines, Appendix H - Plan Review Process Requirement:	Section in 2007 IRWMP	Section in 2013 IRWMP	Page Numbers in 2013 IRWMP
Relation to Local Water Planning			
Identify a list of local water plans used in the IRWM plan	Section 8.1.2 Section 8.1.3 Table 8-2	Section 8.1.1 Table 8-1	8-1 to 8-3
Discuss how the plan relates to these other planning documents and programs	Section 8.1.2 Section 8.1.3 Table 8-2	Section 8.1.1 Table 8-1	8-1 to 8-3
Describe the dynamics between the IRWM plan and other planning documents	Section 8.1.2 Section 8.1.3 Table 8-2	Section 8.1.1	8-1 to 8-2
Describe how the RWMG will coordinate its water mgmt planning activities	Section 8.2	Section 8.2	8-2 to 8-8
Relation to Local Land Use Planning			
Document current relationship between local land use planning, regional water issues, and water management objectives.	Section 1	Section 8.1.1 Table 8-1	8-1 to 8-3
Document future plans to further a collaborative, proactive relationship between land use planners and water managers.	Section 1	Section 8.1.1 Table 8-1	8-1 to 8-3
Stakeholder Involvement			
Contain a public process that provides outreach and an opportunity to participate in IRWM plan	Sections 1 and 8	Section 1.2 Section 8.2	1-6 to 1-21 8-2 to 8-8
Identify process to involve and facilitate stakeholders during development and implementation of plan regardless of ability to pay; include barriers to involvement	Section 1.2.3, 1.2.4	Section 1.2 Section 8.2	1-6 to 1-21 8-2 to 8-8
Discuss involvement of DACs and tribal communities	Section 1.2.4	Section 1.2 Section 8.2	1-6 to 1-21 8-2 to 8-8

IRWM Grant Program Guidelines, Appendix H - Plan Review Process Requirement:	Section in 2007 IRWMP	Section in 2013 IRWMP	Page Numbers in 2013 IRWMP
Describe decision making process and roles that stakeholders can occupy	Section 1.2	Section 1.2 Section 8.2	1-6 to 1-21 8-2 to 8-8
Discuss how stakeholders are necessary to address objectives and RMS	Section 1.2 Section 8	Section 1.2 Section 8.2	1-6 to 1-21 8-2 to 8-8
Discuss how a collaborative process will engage a balance in interest groups	Section 8	Section 1.2 Section 8.2	1-6 to 1-21 8-2 to 8-8
Coordination			
Identify the process to coordinate water management projects and activities of participating local agencies and stakeholders to avoid conflicts and take advantage of efficiencies	Section 1 Section 6	Section 1.2.2	1-12 to 1-15
Identify neighboring IRWM efforts and ways to cooperate	N/A	Section 2.2 Section 8.2.6	2-2 to 2-4 8-7 to 8-8
Identify areas where a State agency can assist in communication or cooperation	N/A	Section 1.2.2.4 Section 1.2.2.5 Section 8.2.6	1-13 1-13 to 1-14 8-7 to 8-8
Climate Change			
Evaluate vulnerabilities to climate change and potential adaptation responses based on vulnerabilities assessment in the DWR Climate Change Handbook for Regional Water Planning	N/A	Section 2.11 Section 3.6 Section 5.2	2-41 to 2-43 3-58 to 3-60 5-7 to 5-8
Provide a process that considers GHG emissions when choosing between project alternatives.	N/A	Section 7.1 Section 7.2 Table 7-1	7-4 to 7-5 7-6 to 7-8
Include a list of prioritized vulnerabilities based on the vulnerability assessment and the IRWM's decision making process.	N/A	Section 3.6.2 Table 3-19	3-59 to 3-60

IRWM Grant Program Guidelines, Appendix H - Plan Review Process Requirement:	Section in 2007 IRWMP	Section in 2013 IRWMP	Page Numbers in 2013 IRWMP
Contain a plan, program, or methodology for further data gathering and analysis of prioritized vulnerabilities.	N/A	Section 3.6.2 Section 8.6.1 Table 8-4 Section 8.7	3-61 to 3-62 8-24 8-32 8-35
Include climate change as part of the project review process	N/A	Section 7.1 Section 7.2 Table 7-1	7-4 to 7-5 7-6 to 7-8

