Coachella Valley Integrated Regional Water Management Program
Planning Partners

Tuesday September 28, 2010
1:30 – 3:30 p.m.

Coachella Valley Association of Governments
73-710 Fred Waring Drive, Room 115
Palm Desert, CA 92260

DRAFT AGENDA

Meeting Objectives:

A. Keep participants up-to-date on the Coachella Valley IRWM program.
B. Review numerical ranking of submitted project list and brainstorm implementation priorities for Prop 84-Round 1 cycle.
C. Discuss long-term organizational structure for Coachella Valley IRWM program.
D. Identify future agenda items for Planning Partners meetings.

Agenda:

1. Welcome and Introductions
    a. Review Agenda
2. Update on IRWM Planning and Schedule
3. Review and Discuss Ranked Project List
    a. Opportunities for Project Integration
    b. Priorities for Implementation
4. Discuss Long-Term Organizational Structure
    a. Role of Planning Partners
5. Next Steps

Coachella Valley IRWMP Calendar of Activities

	Monday	Tuesday	Wednesday	Thursday	Friday
October 2010					1
	4	5	6	7	8
	11	12	13	14	15
	18	19 Screencheck Draft IRWM Plan to Planning Partners	20	21	22
	25	26 Planning Partners Meeting FINAL Written/Verbal Comments on Screencheck IRWM Plan	27	28	29
November 2010	1 Release of Public Draft IRWM Plan *Public Comment Period*	2 *Public Comment Period*	3 *Public Comment Period*	4 *Public Comment Period*	5 *Public Comment Period*
	8 *Public Comment Period*	9 *Public Comment Period*	10 Public Workshop *Public Comment Period*	11 *Public Comment Period*	12 *Public Comment Period*
	15 *Public Comment Period*	16 *Public Comment Period*	17 *Public Comment Period*	18 *Public Comment Period*	19 *Public Comment Period*
	22	23	24	25 Holiday	26 Holiday
	29	30 Release of Final IRWM Plan			

Coachella Valley IRWM Program
Preliminary Ranked Project List -- September 22, 2010

Purple = Water Conservation | **Orange = Water Supply, Targets Arsenic**
Green = Septic Conversion | **Blue = Storm Drainage / Flooding**

#	ID	Score	Tier	Project Title	Organization	Describe Project Location	Project Partners	Functional Area	Primary Water Mgmt Strategy	Project Description	Ready for Prop 84 Impl Grant	Estimated Maximum Project Cost	Estimated Minimum Project Cost	Grant Funds Requested
1	**191**	125	1	**Posse Park Surface Water Treatment Plant**	Indio Water Authority	Project located at site designated for the City of Indio's Posse Park owned by the IWA, NW corner of Avenue 42 and Golf Center Parkway.	Should plant be expanded to serve a regional need, potential project partners would include CVWD and the City of Coachella.	Water Supply	Potable Water Treatment & Distribution	IWA has signed a letter of intent to purchase 20,000 AFY of Delta water to be exchanged with Colorado River water to be delivered to the new SWTP via the Coachella Canal. A SWTP would increase IWA's flexibility in serving its customers and would help reduce the groundwater overdraft in the area. The intention is that treated water from the SWTP would be primarily for potable use, but it may also be used as a blending source for future groundwater recharge. The IWA Conceptual Design report evaluated six alternatives and identified full conventional pretreatment, low pressure membrane filtration, blending of filtered surface water with existing groundwater supplies and free chlorine for primary and residual disinfection as the prefered alternative. The project will be designed and constructed in two phases with an initial capacity of 10 MGD and expanded once for an additional 4 MGD by 2025.	Yes	$52,406,000	$41,924,800	$30,000,000
2	**244**	125	1	**Desert Edge Geothermal Water Conservation and Preservation**	Riverside County, Supervisor Benoit	Southeast of Desert Hot Springs, west of Sky Valley, north of Interstate 10, centered on Township 3 South Range 5 East, Sections 10 and 11, 3.5 square miles of unincorporated Riverside County.	Mission Springs Water District, Coachella Valley Water District, Desert Water Agency and County of Riverside.	Wastewater	Wastewater Treatment	A sewer system extension from a planned wastewater facility near Mountain View Avenue/Varner Road to Desert Edge east along 18th Avenue would meet the immediate needs for wastewater removal. A sewer system will prevent groundwater contamination from septic systems, leach lines and commercial/industrial runoff into the ground. Groundwater contamination poses a significant health threat to the community of Desert Edge, and seasonal/recreational visitors. Lack of sewer system prevents improvements to existing mobile home and recreational vehicle parks and proposed developments, and thus, has hindered the economy. The community is disadvantaged by age, health and income and lack of economic viability as a result of limitations placed on proposed development and existing facilities that are inadequate. Many facilities are in dire need of improvements to meet a basic standard for quality of life of disenfranchised and retired persons.	Yes	$3,000,000	$1,500,000	$3,000,000
3	**209**	115	1	**Tahquitz Creek Levee Reconstruction**	City of Palm Springs	North bank of Tahquitz Creek, extending from the confluence with the Palm Canyon Wash at the Gene Autry Trail bridge approximately 0.75 miles upstream adjacent to the Palm Springs Wastewater Treatment Plant and Demuth Park	Riverside County Flood Control & Water Conservation District	Flood Control	Floodplain Management	The Tahquitz Creek levee, a concrete lined levee, was constructed in 1984 to provide flood control protection of the City's Demuth Park and its Wastewater Treatment Plant. In 1994, the City constructed the Tahquitz Creek Golf Course which raised the elevation of the channel within the golf course and covered the concrete lined levee. The top of the levee is a concrete golf cart path and the channel side slopes are part of the golf course. The City has determined that the levee is not compliant with 44 CFR 65.10, as it does not meet freeboard requirements, long-term static stability with seepage, and rapid drawdown condition. A geotechnical analysis of the levee was performed, and it was determined that: 1) the existing concrete liner does not provide adequate revetment protection and must be replaced; 2) the landside slope of the levee must be stabilized with flattening the slopes to meet minimum requirements; and 3) the height must be increased to meet freeboard requirements.	Yes	$1,600,000	$1,600,000	$1,280,000
4	**216**	105	1	**Fargo Canyon Spreading Facility**	Indio Water Authority	Fargo Canyon area - specific location of spreading facility to be determined		Water Supply	Conjunctive Use & Groundwater Storage	Through the construction of a new diversion from the CRA, the project will provide for the storing of water within the Fargo Canyon aquifer through spreading. During a "put" year, surplus Colorado River water or other surface water entitlements may be taken directly from the CRA and spread directly into the Fargo Canyon Spreading Basins. During a "take" year, annual replenishment deliveries would be reduced by an equivalent amount of "take" from the new storage account. Water normally delivered to the Valley via Metropolitan's CRA would now be available for delivery to other water purveyors via exchange within Metropolitan's water system. Valley-wide agencies would pump groundwater from the storage account, and thus would not require replenishment. This project presents a proactive approach to meeting future needs as well as providing a storage opportunity for agencies currently lacking adequate storage.	Yes	$45,000,000	$30,000,000	$10,000,000
5	**219**	105	1	**Smart Water Conservation Programs**	Indio Water Authority	Through the IWA Service area, City of Indio, Riverside County	The Smart Water Conservation Plan has the ability to be implemented and practiced by all water agencies and government entities throughout the Coachella Valley. IWA encourages this project to be a regional project.	Water Supply	Urban Water Use Efficiency	The Smart Water Conservation Programs will be used to help residence and stakeholders make smart water conservation decisions and also make conservation equipment more available. Home water audits are an excellent educational tool, and the IWA would like to provide indoor and outdoor audits. Turf conversion to drought tolerant plants is one of the most effective water conservation practices but the costs are prohibitive to many people. This project could make this option possible to many more people. Irrigation systems in the region are poorly designed, aged, and outdated. New irrigation products such as spray heads and smart controllers are available but more education is needed. Smart controllers are costly so different rebate options should be available.Additional programs include supplying consumers with plumbing retrofitting, water efficient shower heads and low flow toilets. Program monitoring will be used evaluate cost effectiveness and to enhance outreach and education.	Yes	$160,000	$100,000	$120,000
6	**197**	100	1	**Achieve 14 percent reduction in Agricutural Water Use**	Coachella Valley Water District	This project is located in the agricultural areas Eastern Coachella Valley	CVWD, and other agencies who benefit from conserved water	Water Supply	Agricultural Water Use Efficiency	CVWD has demonstrated through past Bureau of Reclamation Sponsored programs that CVWD sponsored agricultural conservation programs with grower participation are effective. This project will provide a tiered approach to conservation, graduating to more stringent steps as necessary to achieve a goal of 14 percent conservations. The steps are 1) grower education and training, 2) CVWD provided services such as scientific irrigation scheduling, scientific salinity management, moisture monitoring, and irrigation distribution uniformity evaluations, 3) Irrigation system Upgrades/retrofits which includes full or partial funding to convert from flood and sprinkler to micro-sprinkler and drip, 5) economic incentives to those who maintain a water use budget.	Yes	$1,000,000	$500,000	$1,000,000
7	**234**	100	1	**Master Drainage Plan Implementation - Ramon Road Corridor**	City of Cathedral City	Coachella Valley Water District Service Area	Agua Caliente Band of Cahuilla Indians, Coachella Valley Water District	Flood Control	Urban Runoff Management	Address intercepting runoff flows along Ramon Road between the White Water River and Date Palm Drive by utilizing the combination of storm drain pipe, and detention basin systems. However, due to the significant size of drainage facilities required to intercept all the flows reaching Ramon Road further studies of viable alternatives to intercept runoff flows along Ramon Road between the White Water River and Canyon Vista Road, east of existing high point along Ramon Road should be accomplished. The logic in looking at the set of alternatives is based on considering the high point east of Avenida Valdez as the terminus point for the Ramon Road system connecting at the Whitewater River. These additional alternatives also provide the City the opportunity to develop a phased implementation plan to intercept runoff flow tributary to Ramon Road at Date Palm Drive via a future system along Date Palm Drive.	Yes	$32,000,000	$8,800,000	$3,000,000
8	**217**	100	1	**Implement projects in the Desert Hot Springs Area Master Drainage Plan**	Mission Springs Water District	Projects are located in the service territory of MSWD, specifically the City of Desert Hot Springs, Riverside County, California.	Riverside County Flood Control and Water Conservation District City of Desert Hot Springs	Flood Control	Floodplain Management	See Flood Control entry for full description. Additionally, project should investigate recharge of flood waters into Mission Creek Subbasin, as a source of "new water" for the basin and to offset high TDS of Colorado River Aqueduct water that is currently being percolated.	Yes	$30,504,000	$30,504,000	$22,900,000
9	**214**	100	1	**BDCP and DHCCP**	Desert Water Agency	Sacramento Bay Delta	Department of Water Resources, Coachella Valley Water District.	Water Supply	Water Transfers	The project will convey water around the delta increasing supply for SWP contractors and residents of California. The plan includes tunnels, intakes, fish screens, pump stations, levee retrofits and other upgrades to the delta system.	Yes	$6,879,390	$6,879,390	$5,101,250
10	**254**	100	1	**Short Term Arsenic Treatment Program**	Pueblo Unido	Valley wide Program with focus on the east valley	Poder Popular of the Eastern Coachella Valley (Poder Popular) California Rural Legal Assistance Foundation (CRLAF) California Rural Legal Assistance (CRLA, Inc) Environmental Justice Coalition on Water (EJCW)	Water Quality/Stormwater	Water Quality Protection & Improvement	The CVATP envisions short term projects and long term connection projects. The long term connection projects are presented in other projects entered into the database. This project description focuses on short term projects primarily point of entry and point of use treatment for arsenic. These systems also reduce hardness, nitrates and other contaminants, if present. These systems have been implemented in the Coachella Valley; they are effective and have low operating costs. These systems are most appropriate for areas that will not be connected to municipal supply in the next 5 years. Further evaluation in the work plan will evaluate the locations, timing and type of system.	Yes	550000	250000	550000
11	**215**	100	1	**Perris Dam Remediation Program**	Desert Water Agency	Lake Perris is an man-made reservoir built in 1973. It is the southern end of the State Water Project situated between Moreno Valley, and the City of Perris in what is now the Lake Perris State Recreation Area.	Department of Water Resources, Coachella Valley Water District, Metropolitan Water District. This project is projected to be funded 63.3% by MWD, 32.2% by CVWD and 4.4% by DWA.	Other	Regional Surface Storage	DWR has identified potential seismic safety risks in a section of the foundation of Perris Dam. There is no imminent threat to life or property. But, in the interest of ensuring the maximum public safety for those downstream of the lake, DWR has lowered the lake's water level. DWR is moving ahead with its plans to repair Perris Dam. The consulting board released its findings to DWR, the Division of Safety and Dams and the Metropolitan Water District. DWR has thoroughly evaluated the best and most feasible repair options to address the seismic concerns at Perris Dam. The proposed repair plan includes upgrading the dam by replacing the foundation material and reinforcing it with a stability berm placed on top of the improved foundation. This will allow the lake to return to its previous maximum operating pool elevation after construction. Other aspects of the proposed plan include a new outlet tower and emergency outlet release facilities.	Yes	$500,000,000	$370,000,000	$250,000,000
12	**204**	95	1	**Palm Springs MDP line 41**	Riverside County Flood Control and Water Conservation District	Palm Springs, Riverside County, California. Line 41 from Golf Center Drive westerly in East Palm Canyon Drive to Cherokee Way.	City of Palm Springs, Cathedral City	Flood Control	Floodplain Management	Project would construction flood control facilities benefitting the communities of Palm Springs and Cathedral City. Line 41 from Golf Center Drive westerly in East Palm Canyon Drive to Cherokee Way.	Yes	$15,000,000	$13,000,000	$6,000,000
13	**205**	95	1	**Eagle Canyon Dam**	Riverside County Flood Control and Water Conservation District	The proposed Eagle Canyon Dam and Debris Basin Project site is located in the hills to the southwest of East Palm Canyon Drive (Highway 111) near its intersection with Canyon Plaza Drive in Cathedral City, Riverside County, California. Portions of the project site are also located within the City of Palm Springs and tribal lands of the Agua Caliente Band of Cahuilla Indians.	Palm Springs, Cathedral City	Flood Control	Floodplain Management	The proposed Eagle Canyon Dam peoject is southerly of Canyon Plaza Drive in the city of Cathedral City, Riverside County, California. The Dam will be an earthfill embankment constructed of locally available materials. The proposed earthen dam is designed to accommodate 100-year (3-hour and 6-hour) storm events. The project would provide protection from flood and debris flows to Palm Springs and Cathedral City. The project would also result in the restoration and reconstruction of areas historically subject to illegal dumping.	Yes	$7,643,000	$6,600,000	$6,232,250
14	**212**	95	1	**Implementation of Total Maximum Daily Load Best Management Practices**	Riverside County Flood Control and Water Conservation District	City of Coachella, adjacent to the Coachella Valley Stormwater Channel, in the County of Riverside, California.	City of Coachella	Water Quality/Stormwater	Urban Runoff Management	The proposed project would assist the City of Coachella with the implementation of Best Management Practices (BMPs) to reduce and/or eliminate discharges of bacterial indicators from within the city to the CVSC, which has been identified as impaired due to bacterial indicators. The City has identified specific projects that can be implemented to achieve these goals. The projects include low impact development approaches to retrofitting urban areas, such as dry wells, infiltration swales and similar.	Yes	$200,000	$90,000	$200,000

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15	**247**	95	1	**Pierce Community Infrastructure – Water Extension Supply (South Section)**	Pueblo Unido CDC	The proposed project is located southerly of Avenue 74, east of Harrison Rd, and west of Pierce Street in the Oasis Community, in a portion of Section 21, Township 7 South, Range 8 East, San Bernardino Base and Meridian (See Figure 1). The Community of Oasis is at an elevation of approximately -60 feet below mean sea level. Temperature records from the area indicate a monthly average maximum temperature of 104 degrees Fahrenheit (F) during the summer months and a monthly average minimum temperature of 38 degrees F during the winter months. Precipitation records indicate an average of 3.03 inches per year.	Pierce Community Infrastructure Committee Poder Popular of the Eastern Coachella Valley (Poder Popular) California Rural Legal Assistance Foundation (CRLAF) Environmental Justice Coalition on Water (EJCW) Centro Medico Oasis San Jose Community & B.M. Learning Center	Water Quality/Stormwater	Water Quality Protection & Improvement	Agricultural Worker families represent the local labor force that contributes approximately 500 million dollars a year in agriculture to the region. Farm workers constitute the back bone of our national food system sustainability. But despite their remarkable contribution, these hard working families is the largest disadvantaged community in the region plagued with extreme rates of poverty, unemployment, virtually non-existent access to critical social and economic development services, and lack of affordable and safe housing. The major barrier is the lack of basic infrastructure that has been detrimental in bringing new resources and opportunities to their desire to improve the quality of life. Funding for the proposed project will cover engineering, environmental reports and construction costs to provide safe and reliable drinking water to existing mobile home parks in the vicinity and address the high levels of arsenic and fluoride at onsite wells.	Yes	$2,100,000	$2,100,000	$2,100,000
16	**213**	95	1	**Evaluate Stormwater Recharge Opportunities within the Desert Hot Springs MDP**	Riverside County Flood Control and Water Conservation District	Region encompassed by the Desert Hot Springs MDP, encompassing the city of Desert Hot Springs, in Riverside County, California.	Mission Springs Water District	Water Quality/Stormwater	Groundwater Management	The proposed project would conduct a planning level study to evaluate, with the cooperation and partnership of Mission Springs Water District, opportunities to use existing and proposed flood control infrastructure to additionally facilitate stormwater capture and recharge and surface water quality improvements. The project would also investigate the viability of recharging stormwater into the Mission Creek Subbasin as a source of new water and to offset high TDS Colorado River Water that is currently being percolated. The evaluation will include consideration of retrofit of existing flood control infrastructure, modification of proposed flood control infrastructure plans, and consideration of new and/or supplemental projects. Projects that are determined to be viable will be incorporated into the Desert Hot Springs	Yes	$1,200,000	$1,000,000	$900,000
17	**248**	95	1	**Harrison Street (Sunbird and surrounding cluster)**	Pueblo Unido CDC	There are a series of mobile home parks on Harrison Street clustered between Ave 62 to Ave 68 and Ave 74 to Ave 82. There are approximately 158 mobile home units in the area, the largest cluster being the Sunbird Mobile Home Park. This cluster of mobile homes is home to approximately 1,100 residents.	Poder Popular of the Eastern Coachella Valley (Poder Popular) California Rural Legal Assistance Foundation (CRLAF) Environmental Justice Coalition on Water (EJCW) California Rural Legal Assistance Inc (CRLA) Coachella Valley Water District (CVWD)	Water Quality/Stormwater	Water Quality Protection & Improvement	A connection to the CVWD main line needs to be constructed to connect these mobile home parks to CVWDs water. There are 158 mobile home units, that are home to 1,100 residents. There needs to be a planning, Engineering and Construction phase to this project. Aside from the drinking water infrastructure, there is also a need to convert the current septic systems into sewer. Currently places like sunbird mobile home park suffer from serious septic system leaks which could also contribute to the groundwater contamination. Both the water quality and wastewater issues are a public health issue for the residents.	Yes	$5,000,000	$5,000,000	$5,000,000
18	**223**	95	1	**DMMs for CVRWMG Partners**	CVRWMG	CVRWMG Region	Coachella Valley Water District (CVWD) Indio Water Authority (IWA) Coachella Water Authority (CWA) Desert Water Agency (DWA)	Other	Groundwater Management	Seeking funding to support a range of programs supporting the DMMs in the various partner agencies' Urban Water Management Plans. May include such programs as plumbing retrofits, smart controller rebates, water efficient fixture rebates, ULFT rebates, education programs and more.	Yes	$200,000	$200,000	$200,000
19	**243**	95	1	**Coachella Valley Salt and Nutrient Management Plan**	CVRWMG	This project addresses the entire Coachella Valley Groundwater Basin.	Coachella Valley Water District, Desert Water Agency, Mission Springs Water District, Indio Water Authority, and Coachella Water Authority.	Water Supply	Water Quality Protection & Improvement	This project will include development of a Salt and Nutrient Management Plan, including: 1. Determine the constituents of concern and area to be addressed with stakeholders. Coordinate with the Regional Board and develop/expand the conceptual model of the watershed. 2. Evaluate existing beneficial uses, water quality criteria and objectives for surface and groundwater for understanding constraints and opportunities for change. 3. Collect, aggregate and analyze historic and current water quality data for the beneficial uses and objectives review and the antidegradation analysis. 4. Develop water balance, salt and nutrient balance and capacity to model future groundwater quality at various draft objectives. 5. Develop implementation plan to meet objectives and protect beneficial uses while expanding the use of recycled water and water conservation practices. 6. Document the efforts for inclusion in Basin Plan amendment and perform environmental analysis and coordination with Board.	Yes	$300,000	$250,000	$200,000
20	**242**	95	1	**Palm Springs Line 43 and 43a**	RCFC&WCD	Project connects Eagle Canyon Dam in Cathedral City to West Cathedral Canyon Channel.	Cathedral City, Palm Springs	Water Quality/Stormwater	Urban Runoff Management	This underground stormdrain will extend from the existing West Cathedral Canyon Channel west to East Palm Canyon Boulevard (HWY 111) then northwest in East Palm Canyon Boulevard to Via Capri Street then southwest approximately 600 feet to the outlet of the future Eagle Canyon Dam.	Yes	$7,000,000	$6,000,000	$5,000,000
21	**211**	90	1	**Little Tuscany Sewer Improvements**	City of Palm Springs	Milo Drive, Janis Drive, Vista Drive, Palermo Drive and Leonard Road	Desert Water Agency	Wastewater	Water Quality Protection & Improvement	Construction of 8" V.C.P. sewers to connect to the City of Palm Springs public sewer system within the 70+ enclave of homes commonly referred to as "Little Tuscany", located on Milo Drive, Janis Drive, Vista Drive, Palermo Drive and Leonard Road. The residential subdivision of approximately 70 homes, located south of Racquet Club Road and west of N. Palm Canyon Dr. on the lower portion of the Chino Cone is without a public sewer system. These 70 homes continue to operate on privately owned septic systems. With many homes constructed 30 or 40 years ago, some septic tanks have failed, and given the rocky terrain, finding suitable replacement leach fields for septic systems can be difficult. Over the long term, impairment of groundwater quality exists due to the potential for septic systems to fail and wastewater to percolate into the water table. Extending public sewers to these homes will allow the properties to connect directly to a publicly maintained sewer system.	Yes	$2,100,000	$2,100,000	$1,575,000
22	**210**	90	1	**Whitewater River Region and Coachella Valley Stormwater Channel Site Specific Objective Evaluation**	Riverside County Flood Control and Water Conservation District	The Coachella Valley Stormwater Channel from the Indio WWTP outfall to the Salton Sea	Cities within the Coachella Valley, CVWD, and the Regional Water Quality Control Board- Colorado River Region.	Water Quality/Stormwater	Watershed Management & Planning	The proposed project will build upon existing data collected to evaluate bacterial indicator contributions from existing dischargers, natural sources and uncontrollable sources. The objective will be to determine if existing natural background and uncontrollable sources of bacterial indicators are causing exceedances of the default water quality objectives for recreational uses that are currently defined in the Colorado River RWQCB Water Quality Control Plan. IF such sources are found to be causing the exceedances, the project will develop the necessary reports, ceqa documents and revised basin plan language necessary to support the incorporation of a Site Specific Objective for the CVSC into the RWQCB Water Quality Control Plan.	Yes	$1,400,000	$1,000,000	$1,000,000
23	**187**	85	1	**Water Recycling Efficiency and Capacity Improvement Project**	Desert Water Agency	The contract work site is located at the Desert Water Agency Water Reclamation Plant within the city limits of Palm Springs, in Riverside County, California.	Bureau of Reclamation, Agua Caliente Band of Cahuilla Indians	Wastewater	Recycled Municipal Wastewater	From #19: To meet the proposed recycled water demands, capacity and production will be increased at the Agency owned water reclamation plant. From #20: The Agency proposes to install two wells to pump non-potable groundwater. This groundwater will be fed into the recycled water plant to supplement the water currently being treated during high demand water periods. A new 500,000-gallon water reservoir is being added, along with a new hydro pneumatic tank, increasing the water storage capacity at the plant. The project will also increase energy efficiency, through the installation of solar power generating modules. The solar power created will be used to offset power costs, reduce the electrical grid demand and carbon footprint of the recycled water plant.	Yes	$14,600,000	$11,704,184	$2,500,000
24	**239**	85	1	**Palm Springs Unified School District - Storm Drain Outflow Transport Contamination**	City of Cathedral City	Coachella Valley Water District	Cathedral City, Coachella Valley Water District, Palm Springs Unified School District, Cathedral City Elementary School	Water Quality/Stormwater	Pollution Prevention	The source of the contamination is not known. The first phase of this project will conduct field research to establish the source or sources and develop corrective actions to eliminate the problem. Because the upstream residential and commercial areas are in the process of connecting to a new sanitary sewer system, some septic tank systems are still in use. If the contamination is coming from failures of the existing septic tank systems and leach fields, then subsidizing the cost to connect those properties to the sewer system could solve the problem. Once the source of the contaminatio has been determined and the contamination stopped, the existing catch basins, storm drain piping, distribution boxes, and drywells would have to be cleaned and disinfected. If surface contamination flowing down the curb and gutter is the cause, then a group of filtration systems could be designed and constructed to accept nuisance and storm water.	Yes	$1,500,000	$1,200,000	$50,000
25	**225**	85	1	**Desert Hot Springs Community Gardens**	Mission Springs Water District	City of Desert Hot Springs	City of Desert Hot Springs, The Toro Company	Water Supply	Agricultural Water Use Efficiency	Build raised beds for one community garden location and install irrigation equipment needed for each plot in the garden; construct demonstration area in which to teach about soils, irrigation techniques, mulch, plant selection. The City will provide the location and the Toro Company has interest in providing and installing the irrigation equipment. MSWD will provide education programs and oversee construction of the raised beds. The emphasis is on organic gardening and sustainable techniques and water use.	Yes	$40,000	$15,000	$30,000
26	253	85	1	**Recycled Water Feasibility Study**	City of Coachella Water Authority	The source of recycled water and location of tertiary treatment would be the Avenue 54 Wastewater Treatment Plant on Avenue 54 just west of the Whitewater Channel. The recycled water may be to an array of locations throughout City of Coachella, City of Indio, City of La Quinta, and other unincorporated parts of Riverside County.	Indio Water Authority, City of La Quinta	Water Supply	Recycled Municipal Wastewater	The project will include development of a recycled water feasibility study, including: 1. Define the existing and projected quantities of secondary effluent available for tertiary treatment and recycling over a 25 year time horizon. 2. Define the study area and conduct a recycled water market assessment which defines potential recycled water users, quantifies estimated demand for those users, summarizes water quality needs, and accounts for on-site retrofits. 3. Describe the latest regulatory framework governed by State mandates and laws concerning recycled water. 4. Develop a plan for low-demand, wet season discharge planning which provides for storage and/or reliable year-round disposal of tertiary effluent. 5. Develop and compare alternatives for tertiary treatment technologies to implement at the existing Avenue 54 Wastewater Treatment Plant. 6. Short-list viable alternatives which represent various combinations of treatment and recycled water distribution for use within CWA's service area and outside CWA's service area. 7. Document an alternatives selection process in which a preferred alternative is identified. 8. Describe the facilities required for the preferred alternative and develop a timeline for installation of the new facilities. 9. Prepare a capital and life-cycle cost estimate for the preferred alternative. 10. Delineate necessary environmental documentation, interagency agreements, operating permits, market assurances, and financing requirements.	Yes	300000	200000	225000

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27	**228**	85	1	**Desert Cahuilla Wetlands Expansion**	Tribal Government	North West Shore of the Salton Sea	US EPA, US Bureau of Reclamation, State of California DWR, Audubon, Pacific Institute, Defenders of Wildlife, Sierra Club	Natural Resources and Watersheds	Environmental and Habitat Protection & Improvement	We will increase the size of the wetlands by building 100 acre cells. These cells will be shallow (no more than 3 feet deep. Fresh (White Water Storm Channel) and Salt Water (from the Salton Sea) will be used to maintain this project. We will build the project using the natural materials and not importing new materials. We will build on land that the sea has already receeded from. This project is consistant with the States plan for shallow habitat complexes as described in the planning documents of Salton Sea Restoration.	Yes	$500,000	$400,000	$375
28	**207**	75	1	**Eastern Coachella Valley Water Supply Project**	CVWD	This project is located in the eastern Coachella Valley Generally south of Ave 52 and would serve the mobile home communities in that area that currently rely on arsenic contaminated groundwater	County of Riverside, possibly California Rural Legal Assistance, Riverside County Economic Development Agency, Torres Martinez Desert Cahuilla Indians	Water Supply	Land Use Management	This project consists of planning, design,environmental review and permitting for construction of ductile iron water distribution pipelines to serve safe drinking water to east valley mobile home communities. Funds may also be requested to pay the disadvantaged communities' costs to connect to the system once it is in plance	Yes	$25,000,000	$10,000,000	$2,000,000
29	**245**	75	1	**Pierce Community Infrastructure - Regional Water Treatment Facility (North)**	Pueblo Unido CDC	The proposed project is located southerly of Avenue 66 and northerly of Avenue 70 in the Oasis Community, in a portion of Section 21, Township 7 South, Range 8 East, San Bernardino Base and Meridian (See Figure 1) The Community of Oasis is at an elevation of approximately -60 feet below mean sea level. Temperature records from the area indicate a monthly average maximum temperature of 104 degrees Fahrenheit (F) during the summer months and a monthly average minimum temperature of 38 degrees F during the winter months. Precipitation records indicate an average of 3.03 inches per year. The proposed project is to provide water service to the existing Duroville mobile home park that consist of 257 units , Oasis mobile home park that consist of 400 units, and 10 Polanco parks that consist of 83 units with a total	Pierce Community Infrastructure Committee Poder Popular of the Eastern Coachella Valley (Poder Popular) California Rural Legal Assistance Foundation (CRLAF) California Rural Legal Assistance (CRLA, Inc) Environmental Justice Coalition on Water (EJCW) Coachella Valley Water District (CVWD) San Jose Community & B.M. Learning Center	Water Supply	Water Quality Protection & Improvement	Agricultural Worker families represent the local labor force that contributes approximately 500 million dollars a year in agriculture to the region. Farm workers constitute the back bone of our national food system sustainability. But despite their remarkable contribution, these hard working families is the largest disadvantaged community in the region plagued with extreme rates of poverty, unemployment, virtually non-existent access to critical social and economic development services, and lack of affordable and safe housing. The major barrier is the lack of basic infrastructure that has been detrimental in bringing new resources and opportunities to improve the quality of life. The proposed Pierce Community Infrastructure – Regional Water Treatment Facility consist of extending approximately 20,000 linear feet of pipeline from the nearest connection point located at Avenue 74 and Harrison Rd. The pipeline will be extended east along Av. 74, and north along Pierce St	Yes	$12,000,000	$12,000,000	$12,000,000
30	**208**	75	1	**Construct Wetland, Riparian, and Pupfish Habitat for CVMSHCP and Natural Community Conservation Plan**	CVWD	The location has not been finalized but this project is expected to be located at the south end of Johnson Street near the Salton Sea Delta.	CVWD, Fish and Game, Fish and Wildlife, possibly Torres Martinez Desert Cahuilla Indians	Natural Resources and Watersheds	Ecosystem Restoration	This project consists of constructing 3 permanent habitats including 66 acres of wetland for California black rail and Yuma clapper rail, 44 acres of Sonoran cottonwood-willow riparian forest and 25 acres of managed replacement habitat for desert pupfish, in the Coachella Valley Stormwater Channel and Delta Conservation area.	Yes	$10,000,000	$7,000,000	$1,000,000
31	**226**	75	1	**IWA Recycled Water Program**	Indio Water Authority	The proposed above ground facilities at Valley Sanitary District (VSD) WWTP would be located at the existing WWTP compound at Van Buren Street, Indio.Four City or IWA-owned sites located along or north of 42nd Avenue are currently under consideration for the proposed satellite treatment facility site. Posse Park is one of possible sites, with three other parcels located just north and west.	TBD	Wastewater	Recycled Municipal Wastewater	The proposed Indio Water Authority (IWA) Recycled Water project would include: (1) installation and operation of a tertiary treatment system that complies with Title 22 Standards for recycled irrigation water, (2) installation and/or conversion and operation of pipelines for recycled water conveyance, (3) installation and operation of one or more groundwater recharge treatment facilities, and (4) installation and operation of aquifer storage recovery (ASR) wells or conversion and operation of existing wells to ASR for groundwater recharge. The project components would be expected to be implemented in phases based upon recycled water availability and market demand. Several treatment options would comply with Title 22 Standards for irrigation waterincluding tertiary filtration, tertiary microfiltration and membrane bioreactors. Title 22 effluent requirements for each treatment option are tailored to ensure the reliability of the specific treatment option.	Yes	$180,000,000	$53,000,000	$39,000,000
32	**246**	75	1	**St. Anthony of the Desert - Water Treatment Facility**	Pueblo Unido CDC	The proposed project is located east of Lincoln Street, west of Johnson Street, north of Avenue 68th, and south of State Highway 111 in the unincorporated community of Mecca in a portion of Section 21, Township 7 South, Range 8 East, San Bernardino Base and Meridian (See Figure 1)	Poder Popular of the Eastern Coachella Valley (Poder Popular) California Rural Legal Assistance Foundation (CRLAF) Environmental Justice Coalition on Water (EJCW) California Rural Legal Assistance (CRLA Inc) Coachella Valley Water District (CVWD)	Water Supply	Water Quality Protection & Improvement	Agricultural Worker families represent the local labor force that contributes approximately 500 million dollars a year in agriculture to the region. Farm workers constitute the back bone of our national food system sustainability. But despite their remarkable contribution, these hard working families is the largest disadvantaged community in the region plagued with extreme rates of poverty, unemployment, virtually non-existent access to critical social and economic development services, and lack of affordable and safe housing. The major barrier is the lack of basic infrastructure that has been detrimental in bringing new resources and opportunities to improve the quality of life. Funding for the proposed project will cover engineering, environmental reports, local permit fees and construction costs to provide safe and reliable drinking water to resident at St. Anthony of the Desert and effectively address high levels of arsenic and fluoride at the onsite well.	Yes	$600,000	$400,000	$575,000
33	**229**	70	1	**Groundwater Quality Protection Perez Road Sewers**	City of Cathedral City	The project is located on Perez Road in Cathedral City, between Date Palm Drive and Campbell Street. The Perez Road Corridor is predominately commercial, with numerous multi-tenant buildings. Businesses range from food service establishments to auto repair to retail. The cooridor is within the Desert Water Agency Service Area.	Desert Water Agency (DWA)	Wastewater	Pollution Prevention	Replace existing septic tanks with sanitary sewers in the vicinity of Perez Road from Date Palm Drive to Campbell Street and from Kieley Road to Cathedral Canyon Channel. The project includes 6,820 feet of 8" diameter sewer and 4,324 feet of 15" sewer. The project will eliminate over 80 existing septic tanks and provide sanitary sewer service to 98 individual parcels.	Yes	$4,700,000	$4,200,000	$3,500,000
34	**233**	70	1	**Bridge Drainage System Design for 3 Whitewater River Bridges**	City of Cathedral City	Coachella Valley Water District, Riverside County Flood Control and Water Conservation District Service Areas and Army Corps of Engineers Navigable Rivers Jurisdiction	Agua Caliente Band of Cahuilla Indians, City of Palm Springs, Riverside County Flood Control and Water Conservation District, Coachella Valley Water District, Army Corps of Engineers	Water Quality/Stormwater	Pollution Prevention	Bridge deck drainage is accomplished in the same manner as drainage of other curbed roadway sections, bridge decks are often less effectively drained because of lower cross slopes, uniform cross slopes for traffic lanes and shoulders, parapets that collect relatively large amounts of debris, drainage inlets and piping that are relatively small, and clogging of inlets and drainage systems. Bridge inlets collect flow into relatively small ductile cast-iron or welded-steel chambers. By contrast, pavement systems have features that are much larger pre-cast, cast-in-place, or masonry structures. Such weight and size is incompatible with bridge structures. Bridge drains are typically steel tubes that must withstand vibrations and deflections better than the storm drains associated with pavement drainage. Requirements in the design of deck drainage systems differ in the following respects from roadway drainage systems:	Yes	$70,000,000	$65,000,000	$1,500,000
35	**235**	65	1	**Groundwater Quality Protection - West Cathedral City Septic Tank Replacement**	City of Cathedral City	These projects are located in the western part of Cathedral City north and south of East Palm Canyon Drive. The four un-sewered areas include a 24 acre, 200 unit, mobile home park, 25 acres of commercial property, and 48 acres of residential property.	Desert Water Agency	Wastewater	Water Quality Protection & Improvement	These projects are located in the western part of Cathedral City north and south of East Palm Canyon Drive. The four un-sewered areas include a 24 acre, 200 unit, mobile home park, 25 acres of commercial property, and 48 acres of residential property. The project areas are a listed priority for the Regional Water Quality Control Board Colorado River Basin Region 7. The projects provide a permanent solution to reducing the amount of nitrates, bacteria, viruses and Total Dissolved Solids (TDS) migrating towards the Coachella Valley's underground aquifer, which provides the drinking water supply in the region. This is a groundwater non-point source pollution reduction project providing sewer improvements in Cathedral City to protect drinking water in the Coachella Valley.	Yes	$4,900,000	$4,300,000	$3,600,000
36	**249**	65	1	**Pierce Community Infrastructure - Sewer Sanitary Collection System (North)**	Pueblo Unido CDC	The proposed project is located south of Avenue 66 and north of Avenue 70 in the Oasis Community, in a portion of Section 21, Township 7 South, Range 8 East, San Bernardino Base and Meridian (See Figure 1)	Pierce Community Infrastructure Committee, Poder Popular of the Eastern Coachella Valley, California Rural Legal Assistance Foundation, Environmental Justice Coalition on Water, San Jose Community & Bea Main Learning Center	Wastewater		Funding for the proposed project will cover construction costs to provide sewer sanitary collection system to existing mobile home parks in the vicinity and address the substandard septic systems, and sewage lagoons. Construcion: 1. 2,640 feet of 8-inch gravity sewer line from Oasis Park easterly along Avenue 70 to Pierce Street 2. 5,270 feet of 12-inch gravity sewer from the intersection at Avenue 70 and Pierce Street northerly along Pierce Street to Avenue 68, connect to Polancos and Duro mobile home parks at Avenue 68 3. Sewage lift station at the northeast corner of Avenue 68 and Pierce Street 4. 5,200 feet of 6-inch sewer force main from the lift station northerly along Pierce Street to Avenue 66 5. 1,000 feet of sewage force main from Pierce Street and Avenue 66 to CVWD's 10-inch force main at the Coachella Valley Stormwater Channel. The existing force main will transfer the sewage to WRP-4	Yes	$7,900,000	$7,100,000	$3,500,000
37	**188**	60	2	**Belardo Road Pipeline Replacement**	Desert Water Agency	Palm Springs Main Zone	Desert Water Agency	Water Supply	Potable Water Treatment & Distribution	The Desert Water Agency General Plan suggested that this pipeline be installed in 2009. Due to budget restraints, the project was postponed. There is a need to install the infastructure to increase the efficiency of the distribution system as well as minimize other water supply or quality problems relating to deterioration of other pipelines over time. This project is several years old and was stopped due to archeological reasons. This section of pipe will connect two sections of 24" pipeline allowing us to move water from north to south as intended in the general plan. Currently, the water must flow through smaller pipes, increasing head loss and reducing flow capacity.	Yes	$375,000	$325,000	$243,750

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Green = Septic Conversion	**Blue = Storm Drainage / Flooding**

#	ID	Score	Tier	Project Title	Organization	Describe Project Location	Project Partners	Functional Area	Primary Water Mgmt Strategy	Project Description	Ready for Prop 84 Impl Grant	Estimated Maximum Project Cost	Estimated Minimum Project Cost	Grant Funds Requested
38	**230**	60	2	**Groundwater Quality Protection South City Improvement District (SCID)**	City of Cathedral City	Coachella Valley Water District Service Area	Agua Caliente Band of Cahuilla Indians, Coachella Valley Water District	Wastewater	Pollution Prevention	The South City Improvement District involves constructing municipal wastewater collection systems and eliminating septic tanks that overlie regional aquifers. The project will build over five miles of wastewater pipelines and eliminate approximately 500 septic tanks—extending the municipal wastewater collection system to over 700 properties. Septic tanks have infiltrated the region at a fast pace due to rapid growth in the area. The rapid spread of septic tanks has lead to increased levels of total dissolved solids and nitrate salts in regional groundwater.	Yes	$16,500,000	$15,000,000	$11,000,000
39	**238**	60	2	**Ramon Road Corridor - Improve Flood Protection**	City of Cathedral City	Coachella Valley Water District, Riverside County Flood Control & Water Conservation District	Coachella Valley Water District, Riverside County Flood Control & Water Conservation District, Agua Calente Band of Cahuilla Indians	Flood Control	Floodplain Management	Implement improved flood protection along Ramon Road from Date Palm Drive to the Whitewater River. The project drainage area extends from the Union Pacific Railroad right of way to the north, Ramon Road to the South, the Whitewater River Levee to the west and Date Palm Drive to the east. The Whitewater River serves as the backbone drainage infrastructure facility providng flood protection in the Coachella Valley. Due to the significant size of drainage facilities required to intercept all flows reaching Ramon Road, additional alternatives provide the City the opportunity to develop a phased implementation plan to intercept runoff flow tributary to Ramon Road at Date Plam Drive via a future system along Date Palm Drive.	Yes	$10,000,000	$8,800,000	$1,000,000
40	**189**	55	2	**Groundwater Quality Protection Project**	Mission Springs Water District	MSWD service area		Wastewater	Water Quality Protection & Improvement	Areas M. F, D1 are part of a larger assessment district, which voters passed in 2004. In creating the Assessment District, voters provided $28 million of match funding which expires in 2014. Engineering design of the 10 sub areas that make up the assessment district is almost complete and funds are needed for construction. The project will abate septic systems and protect both the drinking water supply and the hot water that is the basis of the spa economy for the city of DHS and the Coachella Valley. In some parts of the city the septic tank density is 2.3 to 2.8 times the density recommended by the Regional Water Quality Control Board.	Yes	$68,000,000	$1,000,000	$1,000,000
41	**224**	55	2	**Resource Action Programs**	Mission Springs Water District	MSWD Service Area, mainly in city of Desert Hot Springs	Resource Action Programs, LLC (RAP) is the program provider.	Water Supply	Economic Incentives	MSWD will sponsor a RAP program which provides conservation kits containing water efficient fixtures such as a low flow showerhead and faucet aerators. Program is administered in part through partner agencies that provide free financial counseling to families in economically disadvantaged communities. Customers learn about the water saving fixtures they are being supplied with and how, along with good conservation habits, installing the efficient fixtures will reduce their monthly utility bills while conserving water. In the 2008-2009 school year, the RAP "Living Wise" program administered thru 6th grade classrooms resulted in over 13,000 gallons saved annually per household - an annual community savings of over 5 million gallons of water. Bringing a similar program to adults in the community will result in additional significant savings.	Yes	$10,000	$5,000	$8,000
42	**220**	55	2	**Identification of Septic Wastewater Plumes in the MSWD Service Area**	Mission Springs Water District	Planning area of the Mission Creek and Garnet Hill Subbasins Water Management Plan		Water Quality/Stormwater	Water Quality Protection & Improvement	Investigate the transport of septic wastewater at key sites. Study rate of wastewater movement and changes in concentration of selected contaminants with depth in the unsaturated zone and the saturated zone to be monitored at each site.	Yes	$500,000	$500,000	$375,000
43	**218**	50	2	**1400 Zone Facilities**	Mission Springs Water District	Construction of production well, reservoir and transmission lines for 1400 Zone		Water Supply	Groundwater Management	MSWD's 1400 Zone has experienced significant growth due to residential infill in the 2004-2007 period, reducing redundancy in this zone to minimal levels. Additionally, the primary wells serving this zone have developed elevated levels of uranium, with one well having been removed from the system and the other fitted for wellhead treatment of uranium at a significant cost. A new Well 42 has been designed and with it is needed a 4 million gallon reservoir and associated transmission lines.	Yes	$7,700,000	$900,000	$1,000,000
44	**236**	50	2	**Master Drainage Plan Implementation - Cathedral City South**	City of Cathedral City	Project location is that portion of the City of Cathedral City south of Ramon Road to the south City limits.		Water Quality/Stormwater	Urban Runoff Management	The project will prepare a master drainage plan for the southern portion of Cathedral City. The area currently does not have any drainage infrastructure. The planned improvements will include detention and retention basins, pipelines, and BMPs for treatment. The improvements will provide a permanent solution to reducing the amount of nitrates, bacteria, viruses and Total Dissolved Solids (TDS) migrating towards the Coachella Valley's underground aquifer, which provides the drinking water supply in the region. This is a groundwater non-point source pollution reduction project providing drainage improvements in Cathedral City to protect drinking water in the Coachella Valley.	Yes	$14,400,000	$12,000,000	$300,000
45	**240**	50	2	**Groundwater Protection-Cathedral City Cove Drainage System 4**	City of Cathedral City	Cathedral City Cove Area.	CVWD, Riverside County Flood Control	Water Quality/Stormwater	Urban Runoff Management	The project will construct 18", 24" and 36" diameter storm drain pipe and appurtenances. The constructed system will convey stormwater to the east Cathedral Canyon Channel which, in turn, discharges to the Whitewater River. BMPs will be implemented to remove gross pollutants.	Yes	$450,000	$400,000	$300,000
46	**221**	50	2	**College Of the Desert MTC Infrastructure**	College of the Desert	61-120 Buchanan Street Mecca, CA	Riverside County Economic Development Agency	Water Quality/Stormwater	Wastewater Treatment	Temporary utilities are available and close by. However, this is an issue, according to CVWD. CVWD has a policy that requires any temporary utilities to be installed for only 1 year. If at the expiration of one year, permanent utilities are not installed, CVWD will step in and install the permanent utilities. I asked if we could negotiate the 1 year time line and was told no – this is policy. We will connect to water in a 18" line down the middle of Buchanan. However, if there is possibility that Panorama will start the road and street infrastructure before we have our first permanent building ready, and permanent utilities will not be in until at least 2009. We have much to do just for the logistics of timing and interaction among all the developers putting in their developments and infrastructure while we're between interim and permanent facilities.	Yes	$10	$7	$5
47	**194**	45	2	**Implementation of Projects in Garnet Wash and Tributaries Master Plan**	Riverside County Flood Control and Water COnservation District	Projects located within Garnet Wash drainage area, about four miles southeast of the city of Desert Hot Springs, in Riverside County, California.		Flood Control	Floodplain Management	Project will implement one or more stormwater managment projects identified in the MDP.	Yes	$645,000	$483,750	$483,750
48	**202**	45	2	**East Cathedral Canyon Channel Levee Restoration**	Riverside County Flood Control and Water Conservation District	East Cathedral Canyon Channel located in Cathedral City, Riverside County, California	City of Cathdral City	Flood Control	Urban Runoff Management	The District with Cathedral City is construction storm drains and working on the Terraace Road Lateral and levee restoration.	Yes	$1,222,000	$857,000	$916,000
49	**203**	45	2	**Verbena Channel**	Riverside County Flood Control and Water Conservation District	Verbena Channel is south of Dillon Road and north of Two Bunch Palms Trail, near Desert Hot Springs, in the County of Riverside, California		Flood Control	Floodplain Management	Verbena Channel is south of Dillon Road and north of Two Bunch Palms Trail, and will be replace by a storm drain and detention basin system from Camino Idilio approximately one mile north Verbena Drive at Park Lane.	Yes	$11,839,000	$7,905,794	$7,708,000
50	**251**	45	2	**Surface Water Treatment Study**	City of Coachella Water Authority	Potential water treatment plant would be located approximately 3 miles east of downtown Coachella, near the Coachella Canal.		Water Supply	Potable Water Treatment & Distribution	This project will include development of a Surface Water Treatment Study, including: 1. Tabulate the current and projected City-wide potable water demands and supplies over a 30-40 year time horizon. 2. Perform a source water characterization of Canal water delineating water quality and treatability characteristics. 3. Develop siting and process alternatives for a water treatment plant. 4. Evaluate alternatives based on economic and non-economic factors and select preferred alternative. 5. Develop projected capital and life-cycle costs for the preferred alternative. 6. Prepare capital improvements and phasing plan for water treatment plant and future expansion of City water distribution system.	Yes	250000	200000	187500
51	**252**	40	2	**Stormwater Master Plan**	City of Coachella Water Authority	the area contained within the City limits of Coachella		Flood Control	Urban Runoff Management	The project will include development of a stormwater master plan, including: 1. Summary of existing storm water management system, storm drain gravity and pumping network, and synopsis of existing problems with flooding. 2. Stormwater runoff and flood routing hydraulic analysis to identify existing system deficiencies. 3. Development of storwater conveyance, pumping, and detention alternatives to correct system deficiencies; development of a stormwater BMP (including stormwater quality) program to complement permanent facilities 4. Identification of preferred alternative based on cost and non-economic factors. 5. Prepare capital and life cycle cost estimates for the preferred alternative. 6. Prepare a schedule for the various implementation phases of the preferred alternative. 7. Summarize potentially available funding sources.	Yes	150000	125000	112500
52	**206**	35	2	**Whitewater River Levee Restoration**	Riverside County Flood Control and Water Conservation District	Whitewater River, Riverside County, California.		Flood Control	Environmental and Habitat Protection & Improvement	Whitewater River has levees which are in need of repair or need increasing in size to protect the public from potential flooding issues.	Yes	$50,420	$31,260	$35,600

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53	**182**	15	2	**Mid Valley Pipeline Phase II**	Coachella Valley Water District	Project requires the construction of a distribution system that will extend through the Mid-Valley including through the cities of Indio, La Quinta, Indian Wells, Palm Desert, and Rancho Mirage.		Water Supply	Matching Quality to Use	The Mid Valley Pipeline is a non-potable water distribution system to convey recycled water and Colorado River water to Golf Courses for irrigaion in lieu of groundwater. The project consists of two phases estimated at a total cost of approximately $ 75 million. Phase 1 is complete and consists of a booster station at the Coachella Canal in Indio, approximately 7 miles of 54-inch pipeline along the Whitewater River Stormwater Channel, and 90 acre-feet of storage reservoirs at CVWD's WRP 10. Phase 1 pumps Colorado River water from the canal to the existing WRP 10 recycled water distribution system which serves 8 golf courses. Colorado River water augments the recycled water supply in summer months when golf course irrigation demand exceeds recycled water supply. Phase II is estimated to cost $ 35 million and consists of expansion of the WRP 10 distribution system to serve 50 golf courses with an average demand of 1000 AFY each.	Yes	$25,000,000	$20,000,000	$10,000,000
54	**227**	10	2	**Coachella Valley Groundwater Model**	Indio Water Authority	Coachella Valley	Members of CVIRWM group	Water Supply	Groundwater Management	The proposed project would build upon the existing groundwater model developed by CVWD. The work would: 1) Enhance the current knowledge of hydrogeology, 2) Compile reliable data describing hydrogeologic properties, groundwater recharge, groundwater pumpage, and groundwater discharge to evapotranspiration, 3) Improve model calibration methods, and 4) Improve model verification methods.	Yes	$1,250,000	$750,000	$500,000
Supports New Development														
55	**250**	150	2	**South Mecca Plan**	South Mecca Group	Project located adjacent to the unincorporated community of Mecca, CA, comprised of those lands generally within a 1.5 mile radius from the intersection of Johnston and Avenue 66, excluding those properties included in The Mecca Specific Plan (SP00377).	Coachella Valley Water District	Water Supply	Potable Water Treatment & Distribution	The Project will accommodate future logical development activity in the Mecca area. Several years ago the County of Riverside was engaged in a process to update its general plan to reflect future development needs. That effort was stalled due to the County's lack of funding. Notwithstanding, the land owners in the immediate vicinity of Mecca have participated in all community planning activities and expect that any future expansions of the Mecca community would include those adjacent parcels. This objective is further supported by the recent and future capital investments made by the County, including the new library, fire station, commercial center, the soon to be constructed boys and girls club and the future grade separation at 66th street, allowing residents of Mecca to travel safely over the railroad tracks on their way to the new K-12 school at 66th and Tyler.	No	$2,000,000	$500,000	$1,000,000
56	**241**	130	2	**Cathedral City North City Specifc Plan - East Sub-Region**	City of Cathedral City	Coachella Valley Water District Service Area	Coachella Valley Water District, Agua Caliente Band of Cahuilla Indians, Riverside County Flood Control and Water Conservation District, Coachella Valley Association of Governments	Other	Economic Incentives	A primary goal of the North City Specific Plan East - Subregion is to provide for sustainably-designed infrastructure in new development. Ensure that an adequate infrastructure system is in place for future development in the East-Subregion. To conserve precious water resources, an area-wide reclaimed water system would be desirable. Per the CVWD Master Plan, a new sewer system will be installed to the east of the Specific Plan area that will direct the flow on the north side of the I-10 freeway to the Thousand Palms area. There is currently no storm drain infrastructure within the planning area. CVWD will own and maintain future storm drain systems. Two major storm drain system backbone lines that are recommended in the North City Specific Plan would be continued eastward to the Thousand Palms area and sized for the future planned area.	No	$180,000,000	$140,000,000	$2,000,000
57	**232**	120	2	**Water, Sewer and Drainage - North City Specific Plan**	City of Cathedral City	Coachella Valley Water District Service Area	Coachella Valley Water District, Agua Caliente Band of Cahuilla Indians, Riverside County Flood Control and Water Conservation District, Coachella Valley Association of Governments	Other	Economic Incentives	A primary goal of the North City Specific Plan is to provide for sustainably-designed infrastructure in new development. Ensure that an adequate infrastructure system is in place for future development in North City. To conserve precious water resources, an area-wide reclaimed water system would be desirable. Per the CVWD Master Plan, a new sewer system will be installed to the southeast of the Specific Plan area that will direct the flow on the north side of the I-10 freeway to the Thousand Palms area. There is currently no storm drain infrastructure within the Specific Plan area. CVWD will own and maintain future storm drain systems. Two major storm drain system backbone lines are recommended: (1) To serve the Edom Hill-Light Industrial District (2) To serve all new development along I-10. Two major channels are recommended to carry the runoff to a detention system or to the Whitewater Wash: (1) Morongo Wash and (2) Long Canyon/Willow Hole.	Yes	$250,000,000	$235,000,000	$3,000,000
Not Ready to Proceed in Prop 84-Round 1														
58	**237**	120	2	**Flood Control and Recycling of Storm, Non Storm Run Off Water - Desert Cove Golf Course**	City of Cathedral City	Coachella Valley Water District, Riverside County Flood Control & Water Conservation District	Coachella Valley Water District, Riverside County Flood Control & Water Conservation District, Agua Caliente Band of Cahuilla Indians	Flood Control	Floodplain Management	The Desert Cove flood control plan has 7 distinct elements of flood control improvement types. The plan was designed to resolve existing flood control deficiencies and mitigate increases in flow depth and/or velocity. (1) Hybrid Bermuda Turf grass channel lining/armoring - resisting flow velocity induced erosion, (2) Soil cement lined ponds - stabilize 14 acres of the river channel and serve as water reservoirs for the capture and recycling of water, (3) Turf Reinforcement mats - to stabilize 1.5 acres, (4) Buried soil cement grade control structures - prevent under mining of slope lining in the event of 100 flood, (5) Soil cement fill on top of the southerly bank - mitigate overtop in the 100 year flood, (6) Construct a floodwall atop the northerly bank - mitigate overtop in the 100 year flood , and (7) Reinforced concrete slope protection to extension - resolve and existing condition of the East Cathedral Channel and mitigate proposed conditions North Cathedral channel.	No	$24,000,000	$1,900,000	$1,000,000
59	**198**	110	2	**Treated Agricultural Drain Water for agricultural irrigation**	CVWD	This is an East Valley Project and the location has not been finalized but will likely be at Ave. 63 and Filmore	Agricultural stakeholders and other stakeholders who may benefit from new water supplies	Water Supply	Conjunctive Use & Groundwater Storage	A brackish groundwater treatment pilot/feasibility study was completed in 2008 (Malcolm-Pirnei) testing treatment alternatives, brine management approaches and source water supply capture. The study recommended capturing ag. drain water and perched ag. return flows (via bank filtration/pumping) for desalination using either RO or nano filtration. It is proposed that the desalinated water would be used for agricultural irrigaion in lieu of Colorado River Water. This would create new water for ag. irrigation, making more colorado river water available for municipal use or recharge. Brine could also be reused for saline wetlands habitat.	No	$40,000,000	$2,000,000	$7,000,000
60	**199**	100	2	**Siting studies, EIR and design of Colorado River Water Treatment Facility for municipal use**	CVWD	Location is not determined.	Potentially City of Indio and City of Coachella	Water Supply	Wastewater Treatment	As growth occurs in the East Valley and farms convert to urban uses, ag demand for CR water decreases. To avoid increased urban groundwater pumping, CR water will need to be treated for municipal use. A surface water treatement feasibility study was successfully completed by Malcolm-Pirnie in 2008 testing alternative treatment methods and system compatibility. It is proposed that facilities could be designed to treat up to 90,000 afy of CR river water by 2045.	No	$70,000,000	$50,000,000	$10,000,000
61	**195**	75	2	**Implementation of Projects in East Wide Channel, Long Canyon and Tributaries Master Plan**	Riverside County Flood Control and Water Conservation District	Detention dams, levees and reservoirs near the mouths of Long Canyon and West Wide Canyon. Also includes improvements to channels.		Flood Control	Floodplain Management	Detention dams, levees and reservoirs near the mouths of Long Canyon and West Wide Canyon and tributaries. Also includes improvements to channels.	No	$1,628,000	$1,628,000	$1,221,000
62	**231**	65	2	**Groundwater Quality Protection and Floodplain Management - Eagle Canyon Dam and Lines 43 and 41**	City of Cathedral City	Riverside County Flood Control & Water Conservation District	Riverside County Flood Control & Water Conservation District, Agua Caliente Band of Cahuilla Indians, City of Palm Springs, Desert Water Agency	Flood Control	Floodplain Management	The proposed project would include the construction, operation, and maintenance of an earthen dam, debris catchment and underground storm drain. The project will provide flood detention and flood hazard mitigation for the developed portion of Cathedral City located downstream of the canyon. The outlet works would be ungated and the dam would therefore only hold water for brief periods of time following significant flood events. The debris basin would keep sediment and debris from flowing downstream, and would be cleaned out on a periodic basis to prevent buildup of materials and storm water. Storm water flows from the wash would be conveyed in 3300 linear feet of 42" drainage pipeline (Line 43), which extends to East Palm Canyon Drive (Highway 111) for approximately 1,000 LF, terminating at the West Cathedral Channel. Prior to construction of the project, the Project Proponent anticipates remediation of potentially hazardous materials resulting from illegal dumping.	No	$22,000,000	$20,000,000	$2,000,000
63	**222**	65	2	**Mission Creek/ Garnet Hill Subbasins Monitoring Program**	Mission Springs Water District	Area overlying planning area for the Mission Creek & Garnet Hill Subbasins Water Management Plan		Water Supply	Groundwater Management	Improve the understanding of local hydrologic and geologic conditions, especially with respect to overdraft conditions in the Mission Creek and Garnet Hill Subbasins and artificial recharge of the subbasins.	No	$300,000	$300,000	$225,000
64	**190**	45	2	**Well Pumping Plants 44 and 45 of the Palm Springs Main Well Field**	Desert Water Agency	The project area is adjacent to the Whitewater River Channel within the cities of Palm Springs and Cathedral City, which in turn lie within the Upper Coachella Valley.		Water Supply	Groundwater Management	The project consists of construction of two wells, followed by the construction and operation of associated pumping plants. Each well will be drilled to a depth of approximately 1,000 feet, and will have a 20 inch diameter casing fitted with about 400 feet of perforations. Each pumping plant will be designed to produce approximately 2,000 to 2,500 gallons per minute (gpm), and will be driven by a 400± horsepower electric motor.	No	$2,000,000	$1,800,000	$450,000
65	**193**	45	2	**Information Systems--a Regional Project of CVRWMG**	CVRWMG	Coachella ValleyWater Management Region	Coachella Valley Water District, Desert Water Agency, Indio Water Authority, Coachella Water Authority, Mission Springs, Water District	Water Supply	Water Resources Data Collection & Management	Conceptual design needed--information systems that will report on those metrics that relate to attainment of Plan objectives	No	$100,000	$100,000	$75,000
66	**196**	45	2	**Implementation of projects for Cathedral City Master Plan**	Riverside County Flood Control and Water Conservation District	South of Terrace Road in Cathedral City is subject to flooding from local storm runoff due to inadequate drainage systems. The Cathedral City has flooding problems that impact properties. Streets, channels and other flood infrastructure need to be installed or maintained to minimize or prevent flooding problems.		Flood Control	Floodplain Management	South of Terrace Road in Cathedral City is subject to flooding from local storm runoff due to inadequate drainage systems. This area and downstream need flood control improvement projects completed. Streets, channels and other flood infrastructure need to be reconstructed, installed or maintained to minimize or prevent flooding problems.	No	$1,600,000	$1,600,000	$1,200,000

Coachella Valley IRWM Program
Preliminary Ranked Project List -- September 22, 2010

Purple = Water Conservation | **Orange = Water Supply, Targets Arsenic**
Green = Septic Conversion | **Blue = Storm Drainage / Flooding**

#	ID	Score	Tier	Project Title	Organization	Describe Project Location	Project Partners	Functional Area	Primary Water Mgmt Strategy	Project Description	Ready for Prop 84 Impl Grant	Estimated Maximum Project Cost	Estimated Minimum Project Cost	Grant Funds Requested
67	**200**	45	2	**Implementation of projects in the Palm Springs area Master Drainage Plan**	Riverside County Flood Control and Water Conservation District	Projects will be located in the City of Palm Springs, Riverside County, California.		Flood Control	Floodplain Management	Drainage problems in Palm Springs need improvement for flood protection of both existing development and potential future development. Maintain Palm Canyon Levees, Whitewater River Levee,Tahquitz Creek Flood Control. Improve open channesl, underground storm drains. Include new retention beasins and existing basins like Victoria, Ruth Hardy, Airport, Farrell and Eagle debris basin and retention basins.	No	$71,482,000	$71,482,000	$58,120,500
68	**201**	45	2	**Implement projects in the Desert Hot Springs Area Master Drainage Plan**	Riverside County Flood Control and Water Conservation District	Projects are located int he City of Desert Hot Springs, Riverside County, California.		Flood Control	Floodplain Management	The community needs adequate flood protection. Uncontrolled flood waters impacting this alluvial fan area can be very devestating, primarily due to the umpredictability of their flow path and their high velocities. Silt and debris can cause damage to property. Construct and maintain debris basins, levees and open channels and underground storm drains. Maintain existing facilities, included but not limited to, Desert Hot Springs channel, line e-1, e-2, and c-1.	No	$30,504,000	$30,504,000	$22,900,000
69	**192**	40	2	**Groundwater Elevation Monitoring--Regional project of CVRWMG**	CVRWMG	Monitoring sites throughout the Coachella Valley Water Management Region	Coachella Water Authority, Coachella Valley Water District, Desert Water Authority, Indio Water Agency, Mission Springs Water District	Water Supply	Groundwater Management	Develop the groundwater elevation monitoring for the groundwater basins/subbasins in the Coachella Valley Water Management Region, so as to better manage the resource during normal, wet and dry water years. An entity must volunteer to be the monitoring agent by January 1, 2011, with reporting to begin by January 1, 2012.	No	$100,000	$100,000	$75,000